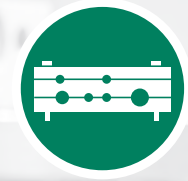


Block Clamps



Special Clamps



Light Series



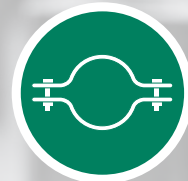
Saddle Clamps



U-Bolt Clamps



Metal Clamps



Construction Series



Germany

Walter Stauffenberg GmbH & Co. KG

Im Ehrenfeld 4
58791 Werdohl

www.stauff.com

STAUFF products and services are globally available through wholly-owned subsidiaries and a tight network of authorised distributors and representatives in all major industrial regions of the world.

You can find detailed contact information on the last two pages of this product catalogue or at www.stauff.com/contact.

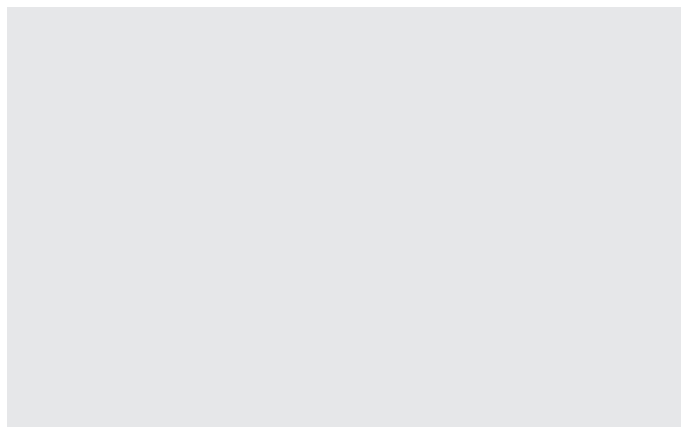
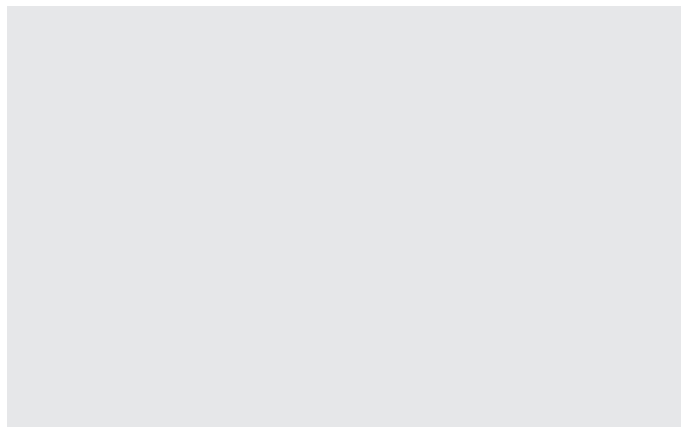
Please note: Unless otherwise stated, all data and figures in this product catalogue are approximate values and are only valid as references, which are not binding (also in respect to any third parties' rights of protection) and thus do not release the customer / user from checking and testing the suitability of the products for the foreseen purposes. Therefore, data and figures can only be used in a limited sense for construction purposes.

The application of the products is beyond the control possibilities of the manufacturer and, therefore, is exclusively subject to the responsibility of the customer / user.

In the event that a liability is nevertheless considered, any compensation will be limited to the value of the goods supplied by the manufacturer and used by the customer / user. As a matter of course, the manufacturer guarantees the perfect quality of all products in accordance with the General Terms and Conditions of Business and Sale.

Subject to modifications due to the ongoing development and improvement of the products.

With the publication of this product catalogue, previous editions are no longer valid.



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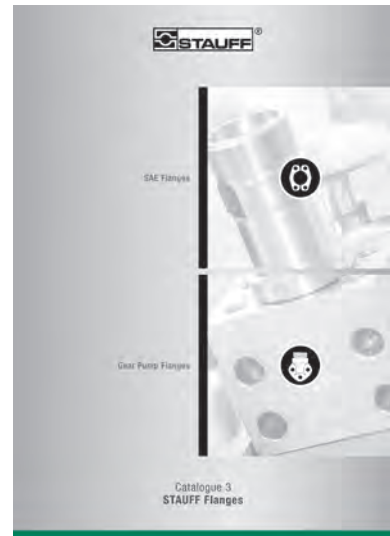
Catalogue 1 STAUFF Clamps

- Block Clamps
- Special Clamps
- Light Series Clamps
- Saddle Clamps
- U-Bolt Clamps
- Metal Clamps
- Construction Series



Catalogue 2 STAUFF Connect

- Tube Connectors
- Assembly Tools and Devices



Catalogue 3 STAUFF Flanges

- SAE Flanges
- Gear Pump Flanges



Catalogue 4 STAUFF Hose Connectors

- Hose Connectors
- High-Pressure Hose Connectors



Catalogue 5 STAUFF Quick Release Couplings

- Push-to-Connect Couplings
- Multi Couplings
- Screw-to-Connect Couplings



Catalogue 6 STAUFF Valves

- Two-Way Ball Valves
- Multi-Way Ball Valves
- Flow Control and Check Valves
- Gauge Isolator Valves





Catalogue 7 STAUFF Test

- Test Couplings
- Test Adaptors
- Test Hoses and Connectors



Catalogue 8 STAUFF Diagtronics

- Pressure Gauges
- Hydraulic Testers
- Oil Analysis Equipment



Catalogue 9 STAUFF Filtration Technology

- Replacement Filter Elements
- Pressure Filters
- Return-Line Filters
- In-Line Filters
- Spin-On Filters
- Offline and Bypass Filters
- Filtration Systems



Catalogue 10 STAUFF Hydraulic Accessories

- Fluid Level and Temperature Indicators
- Tank Filler Breathers
- Particle and Desiccant Air Breathers
- Suction Strainers
- Diffusers



For more than 50 years, the companies of STAUFF Group have been developing, manufacturing and distributing pipework equipment and hydraulic components for mechanical and plant engineering and for service and industrial maintenance.

In addition to mobile and industrial hydraulic machinery, typical applications also include commercial and special purpose vehicles, rail transportation and energy technology. Likewise, STAUFF products are used in marine, oil and gas applications and in the process, food and chemical industries.

The overall range currently includes about 50000 standard products as well as numerous special and system solutions according to customer's specifications or based on our in-house development.

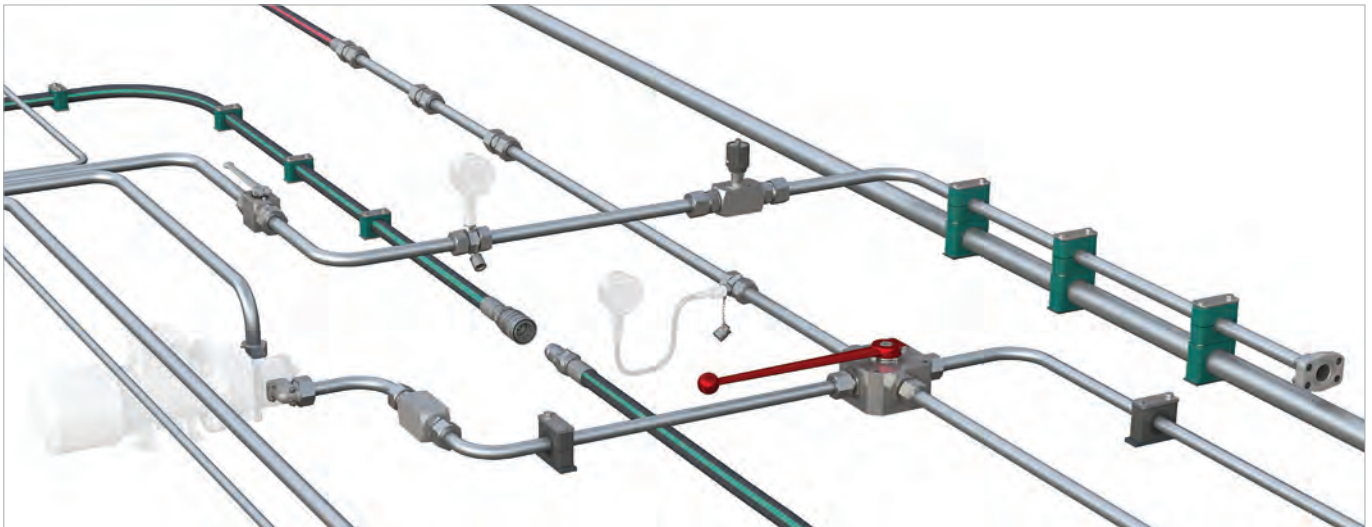
All STAUFF products undergo relevant testing in accordance with international regulations and are governed by the high standards of the in-house quality management system. Furthermore, many items have received certifications and approvals from various international institutes, organisations and authorities who have independently confirmed the quality and performance of the products.

Wholly-owned manufacturing, sales and service facilities in 18 countries and a tight global network of authorised distribution partners ensure high presence and service paired with a maximum of availability.



Quality Management – ISO 9001:2015
Environmental Management – ISO 14001:2015
Safety Management – ISO 45001:2018
Energy Management – ISO 50001:2018

STAUFF LINE Components



With the seven dedicated **STAUFF Line** product groups

- **STAUFF Clamps**
- **STAUFF Connect**
- **STAUFF Flanges**
- **STAUFF Hose Connectors**
- **STAUFF Quick Release Couplings**
- **STAUFF Valves**
- **STAUFF Test**

from own, in-house development and manufacturing, the companies of the STAUFF Group provide a comprehensive range of components for fastening and connecting pipes, tubes and hoses for mobile and industrial hydraulic applications and many other industries.

The portfolio is completed by components for shutting-off, regulating, throttling and measuring fluid media.

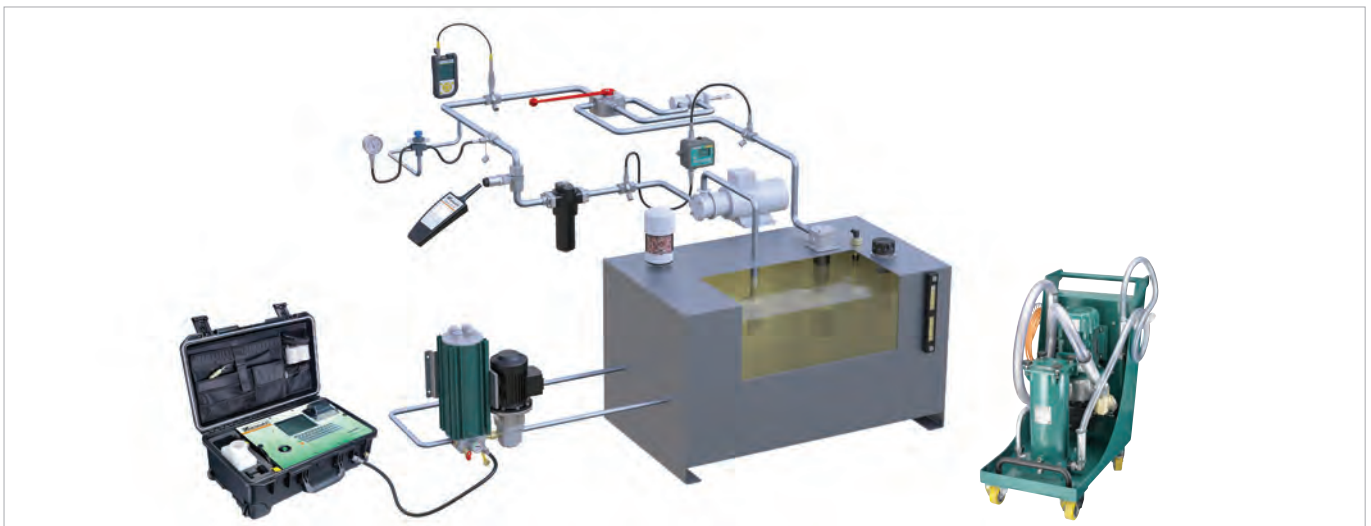
In order to perfectly match each other, STAUFF Line products are designed and offered on a high, uniform level of quality. A large proportion of the range made from steel comes as standard with the premium STAUFF Zinc/Nickel surface coating, which is also optionally available for many of the other components.

This coating offers the most reliable surface protection far beyond the previous market standards – even after transport, handling and assembly of the components – and meets all current legal requirements.

If desired, Original Equipment Manufacturers can be supported with value-added services, from **technical consultation to pre-assembly, assembly and kitting** as well as **logistics services**:

- Support with the **selection of suitable standard components** and ordering options; provision of **customised solutions** according to customer's specifications or based on our in-house development – from prototyping to large scale production
- **Analysis and optimization** of existing and design and developments of new systems aimed at increasing the efficiency and performance of machines and equipment and creating value for customers by reducing the total cost
- **Pre-assembly, assembly and kitting** of individual components to customer-specific system modules
- Individually coordinated **procurement solutions** (e.g. web shop and electronic data interchange) and **supply models** (e.g. from warehousing of customised components to Kanban logistics and just-in-time delivery of pre-fabricated system modules to the assembly lines of the customers) aimed at optimising material flows





Aligned with the needs of the market, the product groups

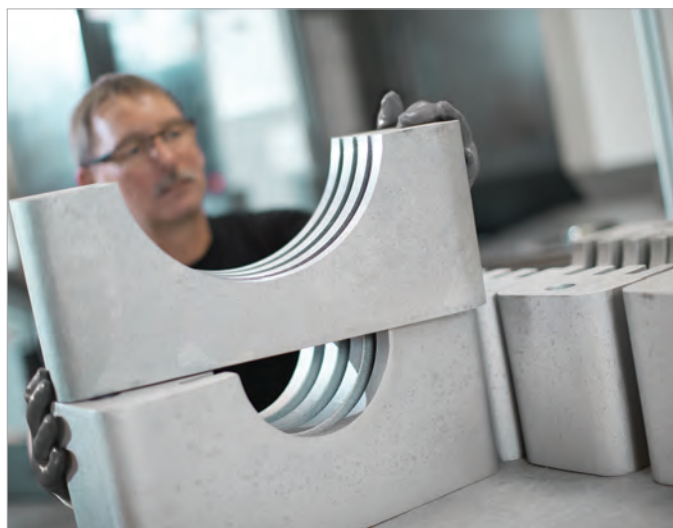
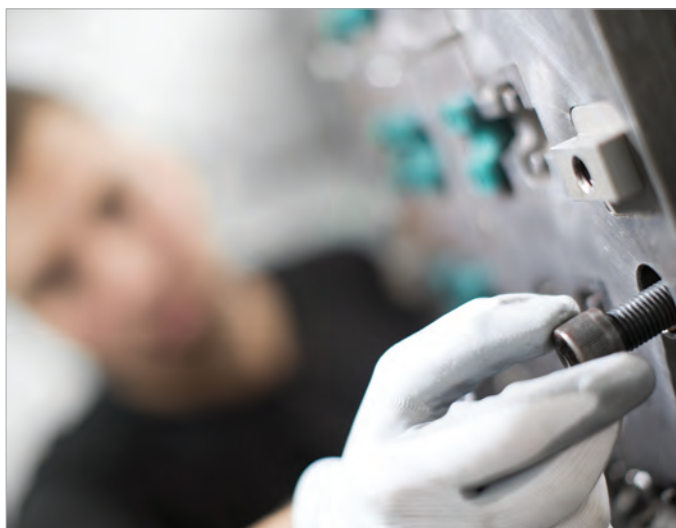
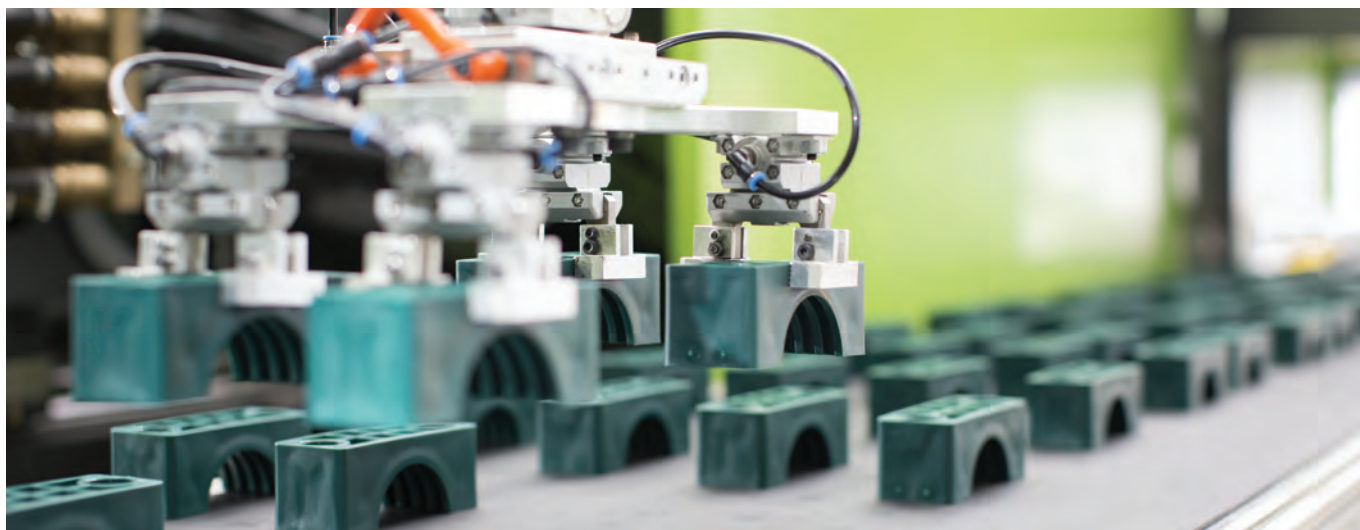
- **STAUFF Test**
- **STAUFF Diagtronics**
- **STAUFF Filtration Technology**
- **STAUFF Hydraulic Accessories**

include a comprehensive range of analogue and digital measuring equipment and devices, filtration systems and replacement filter elements as well as accessories for the construction of tanks, reservoirs, power packs and gear boxes in mobile and industrial hydraulics.

The offer is completed by relevant value-added services:

- Support with the **selection of suitable components** and ordering options; provision of **customised solutions** according to customer's specifications or based on our in-house development – from prototyping to large scale production
- Analysis of existing hydraulic circuits aimed at filtration systems, tank components and monitoring devices that perfectly match to the specific requirements, and developing integrated concepts to increase the efficiency and performance of machines and equipment
- Individually coordinated **procurement solutions** and **supply models**





STAUFF Clamps

For more than 50 years, STAUFF Clamps symbolise quick and easy as well as secure installation of pipes, tubes, hoses, cables and other flexible and rigid components with outside diameters up to 1016 mm / 40.00 inch.

Their vibration and noise reducing features are appreciated as being an important contribution to environmental protection and occupational health and safety.

The processing of fire-proof clamp body materials, tested and approved according to several international fire-protection standards (such as BS 6853, EN 45545-2, UL 94) is only one of the many particular strengths of STAUFF.

STAUFF guarantees prompt service, even for customised solutions according to customer's specifications or based on our in-house development.

For selected types and series, independent certificates and approvals can be provided:

- American Bureau of Shipping
- Bureau Veritas
- Department of the Navy, New York
- Germanischer Lloyd
- Lloyd's Register of Shipping
- Registro Italiano Navale
- Technischer Überwachungsverein
- United States Coast Guard

For the finishing of the range of pipe, tube, hose and cable clamps as well as metal hardware in carbon steel, STAUFF relies on the STAUFF Zinc/Nickel surface coating which has proven successful for many years. It provides reliable surface protection – even after transport, handling and assembly – and meets all current legal requirements.

Versions in stainless steel V2A and V4A are generally available from stock. Alternative materials and surfaces are available on request.





STAUFF Zinc/Nickel Coating



Layers

- Sealing
- Passivation
- Zinc/Nickel
- Steel

With at least 1200 hours resistance against red rust, the STAUFF Zinc/Nickel surface coating offers excellent surface protection – even after transport, handling and assembly. This was confirmed by testing in the salt-spray chamber according to DIN EN ISO 9227.

Users across all industries and applications benefit from sophisticated technology, which has been developed for and used by the very demanding automotive industry for many years now and that is already the proven standard for a large proportion of STAUFF components since 2007.

- At least 1200 hours resistance to red rust / base metal corrosion under practical conditions in the salt-spray chamber according to DIN EN ISO 9227
- White rust occurs only by way of a slight grey haze
- Surpassing the requirements of the corrosion protection class K5 as defined by the VDMA, the German Engineering Association (360 hours resistance to white rust / 720 hours resistance to red rust)
- Free of hexavalent chrome Cr(VI)
- ELV compliant according to 2000/53/EC (End of Life Vehicles Directive)
- REACH compliant according to 1907/2006/EC (Registration, Evaluation, Authorisation and Restriction of Chemicals)
- RoHS compliant according to 2002/95/EC (Restrictions of the Use of Hazardous Substances)
- Appealing colour scheme with a bright semi-gloss surface finish – comparable to Stainless Steel
- Significantly reduced tendency to corrosion by contact with other metals (such as Aluminium and Stainless Steel)
- Improved abrasion resistance due to the ductility / plastic deformability of the coating
- Little to no risk of triggering allergies – nickel release is down to only a fraction of the statutory limits relating to objects which come into direct and prolonged contact with the skin (independent results of the reference test method according to DIN EN 1811 are available on request)
- Good paint adhesion properties
- Resistance against all commonly used hydraulic media





www.stauff.com/catalogues

The STAUFF online catalogue centre at www.stauff.com/catalogues provides fast and direct access to digital versions of this as well as other STAUFF product catalogues in all available languages.

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* may require a suitable app





www.stauff.com

With the STAUFF Digital Platform available at www.stauff.com, commercial customers and users of STAUFF products can not only inform themselves in all detail about the 50000 components typically available from stock, but also directly purchase these online without complex registration.

General information about the companies of STAUFF Group, latest business and product news as well as complete global contact details also be available.



www.stauff.com/cad

Immediate access to and free download of 3D models and 2D drawings for a growing number of STAUFF products





www.filterinterchange.com

Online database for the quick and easy identification and interchange of almost all common brands and types of replacement filter elements

Main Functionalities of the STAUFF Digital Platform:

-  **Around the clock**
Check stock availability and pricing for STAUFF products in real time
-  **Cross references**
Search by article designations of other manufacturers / suppliers
-  **Live chat**
Get directly in touch with the STAUFF customer service and sales team
-  **CAD database**
Download 3D models and 2D drawings for STAUFF products

Advantages as a Registered User of the STAUFF Digital Platform:

-  **Purchase STAUFF products**
Taking customer-specific pricing and delivery conditions into account
-  **Ordering w/o searching**
Quick ordering by entering article number, quantity and requested delivery date
-  **File upload**
Direct upload of orders with multiple positions in CSV or Excel file format
-  **Notepad function**
Create project lists to save interesting products for later

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Clamp Body
Profiled Inside Surface with Tension Clearance

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Clamp Body
Smooth Inside Surface without Tension Clearance

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Clamp Body with Elastomer Insert

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Noise Reduction Clamp

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Clamp Body for Conduit Hoses and Cable Inserts

18

























Clamp Body
Compact Design for both Compact / Regular Hydraulic Hoses

19



Clamp Body
Rectangular Design for Proximity Switches

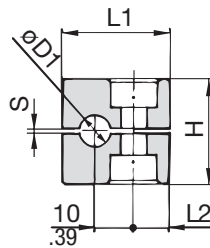
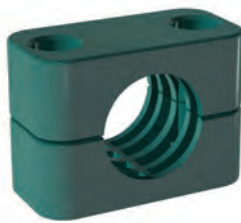
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	Weld Plate SP	20		Cover Plate DP	28
	Elongated Weld Plate SPV	20		Hexagon Head Bolt for use with Cover Plate DP AS	28
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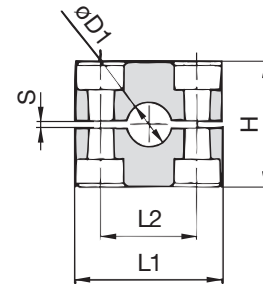


Clamp Body - Profiled Design

Profiled Inside Surface with Tension Clearance



STAUFF Group 1



STAUFF Group 1A to 8

Ordering Codes

Clamp Body *1*06-*PP
Clamp Body, STAUFF Group 1A *1*06A-*PP

One clamp body is consisting of two clamp halves.

- * STAUFF Group **1**
- * Exact outside diameter Ø D1 (mm) **06**
- * Material code (see below) **PP**

Standard Materials



Polypropylene
 Colour: Green
 Material code: **PP**



Polypropylene
 Colour: Black
 Material code: **PP-BK**



Polyamide
 Colour: Black
 Material code: **PA**



Thermoplastic Elastomer (87 Shore-A)
 Colour: Black
 Material code: **SA87**



Aluminium
 Colour: Self-Colour
 Material code: **AL** (STAUFF Group 1A to 6)

See pages 178 / 179 for material properties and technical information.

Special Materials

Please contact STAUFF for further details on fire-proof clamp body materials, tested and approved according to several international fire-protection standards (such as BS 6853, EN 45545-2, UL 94 and many more).

See pages 180 / 181 for material properties and technical information.

Product Features

- Proven, tested and trusted product in various markets
- Recommended for the safe installation of rigid pipes and tubes
- Available for all commonly used pipe and tube outside diameters
- Environmental protection due to vibration/noise reducing design
- Excellent weathering resistance, even under extreme conditions

Group	STAUFF	DIN	Outside Diameter Pipe / Tube		Nominal Bore		Ordering Codes (2 Clamp Halves)	Dimensions (mm/in)						
			Ø D1 (mm)	(in)	Pipe (in)	Copper Tube ASTM B88 (in)		L1	L2	H	S min.	Width		
1		0	6				106-***							
			6,4	1/4			106.4-***							
			8	5/16			108-***	28	9,5	27	0,4	30		
			9,5	3/8		1/4	109.5-***	1.10	.37	1.06	.02	1.18		
			10		1/8		110-***							
1A		1	6				106A-***							
			6,4	1/4			106.4A-***							
			8	5/16			108A-***	37	20	27	0,4	30		
			9,5	3/8		1/4	109.5A-***	1.46	.79	1.06	.02	1.18		
			10		1/8		110A-***							
2		2	12				112-***							
			12,7	1/2		3/8	212.7-***							
			13,5		1/4		213.5-***							
			14				214-***							
			15				215-***	42	26	33	0,6	30		
3		3	16	5/8		1/2	216-***	1.65	1.02	1.30	.02	1.18		
			17,2		3/8		217.2-***							
			18				218-***							
			19	3/4			319-***							
			20				320-***							
4		4	21,3		1/2		321.3-***	50	33	36	0,6	30		
			22	7/8		3/4	322-***	1.97	1.30	1.42	.02	1.18		
			25				325-***							
			25,4	1			325.4-***							
			26,9		3/4		426.9-***							
5		5	28				428-***							
			28,6			1	428.6-***	59	40	42	0,6	30		
			30				430-***	2.32	1.57	1.65	.02	1.18		
			32				432-***							
			32	1-1/4			532-***							
6		6	33,7		1		533.7-***							
			35			1-1/4	535-***							
			38	1-1/2			538-***	71	52	58	0,8	30		
			40				540-***	2.80	2.05	2.28	.03	1.18		
			41,3		1-1/2		541.3-***							
7		7	42		1-1/4		542-***							
			44,5	1-3/4			644.5-***							
			48,3		1-1/2		648.3-***	86	66	66	0,8	30		
			50,8	2			650.8-***	3.39	2.60	2.60	.03	1.18		
			54		2		654-***							
8		8	57,2	2-1/4			757.2-***							
			60,3		2		760.3-***							
			63,5	2-1/2			763.5-***	121	94	93	0,8	30		
			70	2-3/4			770-***	4.76	3.70	3.66	.03	1.18		
			73		2-1/2 (ANSI B 36-10)		773-***							
8		8	76,1	3	2-1/2 (DIN EN 10220)		776.1-***							
			88,9		3		888.9-***	147	120	118	0,8	30		
			102	4	3-1/2		8102L-***	5.79	4.72	4.65	.03	1.18		

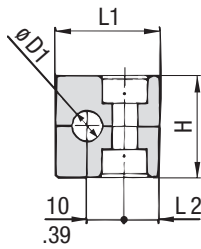
Additional outside diameters are available upon request. Please contact STAUFF for further information.

Dimensional drawings: All dimensions in mm (in).

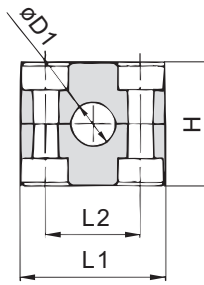


Clamp Body - Type H

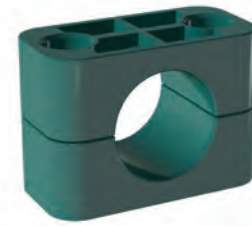
Smooth Inside Surface without Tension Clearance



STAUFF Group 1



STAUFF Group 1A to 8



A

Group	STAUFF	DIN	Outside Diameter		Ordering Codes (2 Clamp Halves)	Dimensions (mm/in)			
			Hose Ø D1 (mm)	(in)		(** -H = Material)	L1	L2	H
1	0	6			106-**-H	1.10	.37	1.02	1.18
		6,4	1/4	106.4-**-H					
		8	5/16	108-**-H					
		9,5	3/8	109.5-**-H					
		10		110-**-H					
		12		112-**-H					
1A	1	6			106A-**-H	1.46	.79	1.02	1.18
		6,4	1/4	106.4A-**-H					
		8	5/16	108A-**-H					
		9,5	3/8	109.5A-**-H					
		10		110A-**-H					
		12		112A-**-H					
2	2	12,7	1/2		212.7-**-H	1.65	1.02	1.26	1.18
		13,5		213.5-**-H					
		14		214-**-H					
		15		215-**-H					
		16	5/8	216-**-H					
		17,2		217.2-**-H					
3	3	18			218-**-H	1.97	1.30	1.40	1.18
		19	3/4	319-**-H					
		20		320-**-H					
		21,3		321.3-**-H					
		22	7/8	322-**-H					
		25		325-**-H					
4	4	25,4	1		325.4-**-H	2.32	1.57	1.63	1.18
		26,9		426.9-**-H					
		28		428-**-H					
		30		430-**-H					
		32		432-**-H					
		5	5	32	1-1/4				
33,7				533.7-**-H					
35				535-**-H					
38	1-1/2			538-**-H					
40				540-**-H					
42				542-**-H					
6	6	44,5	1-3/4		644.5-**-H	3.39	2.60	2.54	1.18
		48,3		648.3-**-H					
		50,8	2	650.8-**-H					
		54		654-**-H					
7	7	57,2	2-1/4		757.2-**-H	4.76	3.70	3.62	1.18
		60,3		760.3-**-H					
		63,5	2-1/2	763.5-**-H					
		70	2-3/4	770-**-H					
		73		773-**-H					
		76,1	3	776.1-**-H					
8	8	88,9			888.9-**-H	5.79	4.72	4.57	1.18
		102	4	8102L-**-H					

Additional outside diameters are available upon request. Please contact STAUFF for further information.

Ordering Codes

Clamp Body ***1*06-*PP-H**
 Clamp Body, STAUFF Group 1A ***1*06A-*PP-H**

One clamp body is consisting of two clamp halves.

- * STAUFF Group **1**
- * Exact outside diameter Ø D1 (mm) **06**
- * Material code (see below) **PP-H**

Standard Materials

- Polypropylene**
Colour: Green
Material code: **PP-H**
- Polypropylene**
Colour: Black
Material code: **PP-H-BK**
- Polyamide**
Colour: Black
Material code: **PA-H**
- Thermoplastic Elastomer (87 Shore-A)**
Colour: Black
Material code: **SA87-H**

See pages 178 / 179 for material properties and technical information.

Special Materials

Please contact STAUFF for further details on fire-proof clamp body materials, tested and approved according to several international fire-protection standards (such as BS 6853, EN 45545-2, UL 94 and many more).

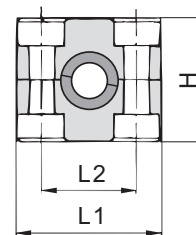
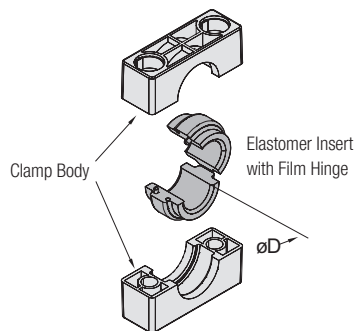
See pages 180 / 181 for material properties and technical information.

Product Features

- Proven, tested and trusted product in various markets
- Recommended for the safe installation of hoses and cables
- Chamfered edges avoid damaging of the hoses and cables
- Available for all commonly used hose and cable outside diameters
- Excellent weathering resistance, even under extreme conditions



Clamp Body with Elastomer Insert Type RI



A

Ordering Codes

Clamp Assembly *4*06-*PP-R

One assembly is consisting of one clamp body and one insert.

- * STAUFF Group **4**
- * Exact outside diameter Ø D (mm) **06**
- * Material code (see below) **PP**
- * Insert **R**
- * # = Special Number (only STAUFF Group) **410053**

Clamp Body *4-*PP-R

One clamp body is consisting of two clamp halves.

- * STAUFF Group **4**
- * Insert **R**
- * # = Special Number (only STAUFF Group) **410053**

Elastomer Insert *RI-*06-*4/4S-*SA73

- * Elastomer Insert **RI**
- * Exact outside diameter Ø D (mm) **06**
- * STAUFF Group **4 (DIN) 4/4S**
- 5 (STAUFF) 5**
- 6 (DIN) 6/5S**
- 6 (STAUFF) 6**
- * Material code (see below) **SA73**
- * # = Special Number (only STAUFF Group) **410053**

Group	STAUFF	DIN	Outside Diameter		Ordering Codes (* = Material)			Dimensions (mm/in)			
			Pipe / Tube / Hose	Ø D	Clamp Assembly	Clamp Body	Insert *	L1	L2	H	Width
4	4	4	6		406-*R	4-*R	RI-06-4/4S-*	59	40	41,2	30
			8	5/16	408-*R		RI-08-4/4S-*				
			10		410-*R		RI-10-4/4S-*				
			12		412-*R		RI-12-4/4S-*				
			12,7	1/2	412.7-*R		RI-12.7-4/4S-*				
			14		414-*R		RI-14-4/4S-*				
			15		415-*R		RI-15-4/4S-*				
			16	5/8	416-*R		RI-16-4/4S-*				
			17,2		417.2-*R		RI-17.2-4/4S-*				
			18		418-*R		RI-18-4/4S-*				
5	5	5	19	3/4	419-*R	5-*R-#	RI-19-4/4S-*	71	52	67	30
			20		520-*R-#		RI-20-5-*#				
			21,3		521.3-*R-#		RI-21.3-5-*#				
			22	7/8	522-*R-#		RI-22-5-*#				
			25		525-*R-#		RI-25-5-*#				
			26,9		526.9-*R-#		RI-26.9-5-*#				
			28		528-*R-#		RI-28-5-*#				
			30		530-*R-#		RI-30-5-*#				
6	6	6	32	1-1/4	532-*R-#	6-*R	RI-32-5-*#	86	66	64,5	30
			20		620-*R		RI-20-6/5S-*				
			21,3		621.3-*R		RI-21.3-6/5S-*				
			22	7/8	622-*R		RI-22-6/5S-*				
			25		625-*R		RI-25-6/5S-*				
			26,9		626.9-*R		RI-26.9-6/5S-*				
			28		628-*R		RI-28-6/5S-*				
			30		630-*R		RI-30-6/5S-*				
			32	1-1/4	632-*R		RI-32-6/5S-*				
			6	6	6		35				
38		638-*R-#				RI-38-6-*#					
40		640-*R-#				RI-40-6-*#					
42		642-*R-#				RI-42-6-*#					
42		642-*R-#				RI-42-6-*#					

Standard Materials



Polypropylene
Colour: Black
Material code: **PP-R**



Polyamide
Colour: Black
Material code: **PA-R**



Elastomer Insert
Thermoplastic Elastomer (73 Shore-A)
Colour: Black
Material code: **SA73**

See pages 178 / 179 for material properties and technical information.

Special Materials

Please contact STAUFF for further details on fire-proof clamp body materials, tested and approved according to several international fire-protection standards (such as BS 6853, EN 45545-2, UL 94 and many more).

See pages 180 / 181 for material properties and technical information.

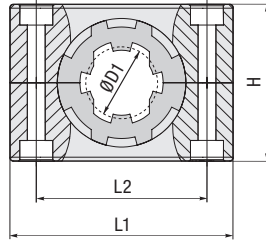
* Elastomer Inserts for Standard Series clamp bodies, STAUFF Group 4 also fit into Heavy Series clamp bodies, STAUFF Group 4S. Elastomer Inserts for Standard Series clamp bodies, STAUFF Group 6 also fit into Heavy Series clamp bodies, STAUFF Group 5S.

Additional outside diameters are available upon request. Please contact STAUFF for further information.

Product Features

- Proven, tested and trusted product in various markets
- Either for the extra vibration/noise reducing installation of pipes and tubes or the extra gentle installation of hoses and cables
- Available for all commonly used outside diameters
- Excellent weathering resistance, even under extreme conditions



Noise Reduction Clamp
Type NRC


A

Group	STAUFF	DIN	Outside Diameter Pipe / Tube		Ordering Codes (* = Material)			Dimensions (mm/in)			
			Ø D1 (mm)	(in)	Clamp Assembly (Clamp Body + NRC Insert)	Clamp Body (2 Clamp Halves)	NRC Insert (2 Insert Halves)	L1	L2	H	Width
2		2	6		206-**-NRC	2-**-RI-S/NRC	RI-NRC-6-2-*	42	26	32	30
			8	5/16	208-**-NRC		RI-NRC-8-2-*				
			10		210-**-NRC		RI-NRC-10-2-*				
			12		212-**-NRC		RI-NRC-12-2-*				
			12,7	1/2	212.7-**-NRC		RI-NRC-12.7-2-*				
3		3	14		314-**-NRC	3-**-RI-S/NRC	RI-NRC-14-3-*	50	33	35,5	30
			15		315-**-NRC		RI-NRC-15-3-*				
			16	5/8	316-**-NRC		RI-NRC-16-3-*				
4		4	18		418-**-NRC	4-**-RI-S/NRC	RI-NRC-18-4-*	59	40	41,5	30
			20		420-**-NRC		RI-NRC-20-4-*				
5		5	21,3		521.3-**-NRC	5-**-RI-S/NRC	RI-NRC-21.3-5-*	71	52	56,5	30
			22	7/8	522-**-NRC		RI-NRC-22-5-*				
			25		525-**-NRC		RI-NRC-25-5-*				
			26,9		526.9-**-NRC		RI-NRC-26.9-5-*				
			28		528-**-NRC		RI-NRC-28-5-*				
			30		530-**-NRC		RI-NRC-30-5-*				
			32	1-1/4	532-**-NRC		RI-NRC-32-5-*				
6		6	33,7		633.7-**-NRC	6-**-RI-S/NRC	RI-NRC-33.7-6-*	86	66	64,5	30
			35		635-**-NRC		RI-NRC-35-6-*				
			38	1-1/2	638-**-NRC		RI-NRC-38-6-*				
			40		640-**-NRC		RI-NRC-40-6-*				
			42		642-**-NRC		RI-NRC-42-6-*				
7M			45,5		745.5M-**-NRC	7M-**-RI-S/NRC	RI-NRC-45.5-7M-*	123	100	100	40
			48		748M-**-NRC		RI-NRC-48-7M-*				
			51		751M-**-NRC		RI-NRC-51-7M-*				
			53,4		753.4M-**-NRC		RI-NRC-53.4-7M-*				
			57		757M-**-NRC		RI-NRC-57-7M-*				
			60		760M-**-NRC		RI-NRC-60-7M-*				
			63,5		763.5M-**-NRC		RI-NRC-63.5-7M-*				
			65		765M-**-NRC		RI-NRC-65-7M-*				
8M			70		870M-**-NRC	8M-**-RI-S/NRC	RI-NRC-70-8M-*	165	140	135	45
			72		872M-**-NRC		RI-NRC-72-8M-*				
			76		876M-**-NRC		RI-NRC-76-8M-*				
			80		880M-**-NRC		RI-NRC-80-8M-*				
			88,9		888.9M-**-NRC		RI-NRC-88.9-8M-*				

Ordering Codes

Clamp Assembly *2*12-*PP-NRC

One assembly is consisting of one clamp body and one insert.

- * STAUFF Group 2
- * Exact outside diameter Ø D1 (mm) 12
- * Material code (see below) PP
- * Insert NRC

NRC Clamp Body *2-*PP-*RI-S/NRC

One NRC clamp body is consisting of two clamp halves.

- * STAUFF Group 2
- * Material code (see below) PP
- * Clamp Design RI-S/NRC

NRC Elastomer Insert
***RI-NRC-*12-*2-*SA73**

One NRC elastomer insert is consisting of two insert halves.

- * NRC Elastomer Insert RI-NRC
- * Exact outside diameter ØD1 (mm) 12
- * STAUFF Group 2
- * Material code SA73

Standard Materials

Polypropylene
 Colour: Black
 Material code: **PP**
Elastomer Insert
Thermoplastic Elastomer (73 Shore-A)
 Colour: Black
 Material code: **SA73**

See pages 178 / 179 for material properties and technical information.

Alternative materials are available upon request. Please contact STAUFF for further information.

Special Materials

Please contact STAUFF for further details on fire-proof clamp body materials, tested and approved according to several international fire-protection standards (such as BS 6853, EN 45545-2, UL 94 and many more).

See pages 180 / 181 for material properties and technical information.

Additional outside diameters are available upon request. Please contact STAUFF for further information.

Product Features

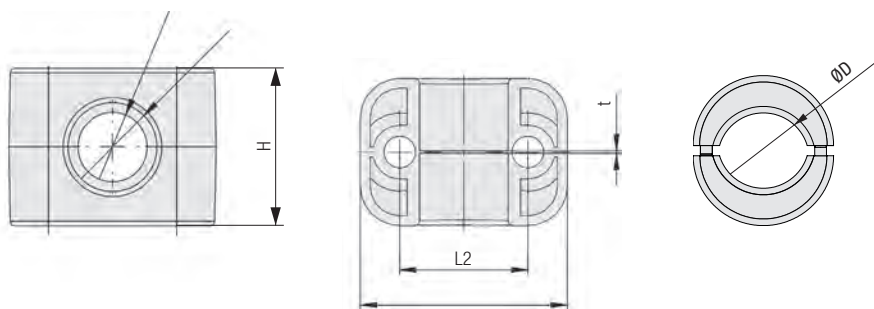
- Designed for the noise and vibration reducing installation of pipes and tubes
- Suitable for the most common outside diameters from 6 to 42 mm and from ¼ to 1 ½ inch respectively
- Working principle based on a specially shaped, two-part elastomer insert, which mechanically absorbs vibration in the pipe or tube and as a result reduces noises arising to a minimum
- Elastomer insert is in particular distinguished by how little of its surface is in contact with the pipe or tube as well as with the clamp body
- Light tension of the elastomer insert in mounted condition provides the necessary clamping force
- Tongue-groove contour of the elastomer insert and the clamp body (which is reversed and thus diverges from standard DIN 3015 clamps with elastomer insert) enables the system to be used for the maximum range of outside diameters per clamp size, which contributes to flexibility, versatility and optimisation of the required installation space



Clamp Body for Conduit Hoses and Cable Inserts

Type CHC

A



Ordering Codes

Clamp Assembly

***3*17-*10/14-*PA-CHC*SA80-VO**

One assembly is consisting of one clamp body and one insert. (consisting of two halves).

- * STAUFF Group **3**
- * Nominal Size of the Conduit Hose **17**
- * Diameter Range Cable ØD (mm) **10/14**
- * Material code clamp body (see below) **PA-CHC**
- * Material code insert (see below) **SA80-VO**

CHC Clamp Body

***3*17-*PA-CHC**

One CHC Clamp Body is consisting of two clamp halves.

- * STAUFF Group **3**
- * Nominal Size of the Conduit Hose **17**
- * Material code clamp body (see below) **PA-CHC**

CHC Elastomer Insert

***RI-CHC-*10/14*3*SA80-VO**

One CHC Elastomer Insert is consisting of two insert halves.

- * CHC Elastomer insert **RI-CHC**
- * Diameter Range Cable ØD (mm) **10/14**
- * STAUFF Group **3**
- * Material code insert (see below) **SA80-VO**

Group	Nominal Size	Nominal ØD (mm/m)	Ordering Codes (* = Material)	Dimensions (mm/m)											
				Clamp Assembly (Clamp Body + Insert)	Clamp Body (2 Halves)	CHC-Insert (2 Halves)	ØD1	ØD2	t	L1	L2	H	Width		
2	2	10	210-*												
			212-*	RI-CHC-6/8-2-*	13	11	0,5	42	26	32	30				
				RI-CHC-8/10-2-*	.51	.43	.02	1.65	1.02	1.26	1.18				
3	3	17	317-7/10-**-*												
			317-*	RI-CHC-7/10-3-*	7	10									
				RI-CHC-10/14-3-*	.28	.39									
4	4	23	423-14/18-**-*												
			423-*	RI-CHC-14/18-4-*	14	18									
				RI-CHC-18/20-4-*	.55	.71									
5	5	29	529-*												
			536-*	RI-CHC-20/26.9-5-*	20	26,9	1,0	71	52	56,5	30				
				RI-CHC-26.9/33.7-5-*	.79	1.06	.04	2.80	2.05	2.22	1.18				
6	6	48	648-*												
			536-*	RI-CHC-26.9/33.7-5-*	26,9	33,7									
				RI-CHC-33.7/42-5-*	1.06	1.33									
6	6	48	648-*	RI-CHC-33.7/42-5-*	33,7	42	1,0	86	66	64,5	30				
				RI-CHC-42/50-5-*	1.33	1.65	.51	3.39	2.60	2.54	1.18				

Additional outside diameters are available upon request. Please contact STAUFF for further information.

Product Features

- Design of the inside surface of the clamp body prevents corrugated conduit hoses from sliding
- Elastomer Insert for the safe and damage-free installation of single cables as an option
- Chamfered edges avoid damaging of the conduit hoses
- Available for all commonly used nominal sizes
- Excellent weathering resistance, even under extreme conditions

Materials



Polyamide
Colour: Black
Material code: **PA-CHC**



fire-proof clamp body material made of Polyamide
Colour: Black
Material code: **PA-VO-CHC-BK**



Elastomer Insert Thermoplastic Elastomer (73 Shore-A)
Colour: Black
Material code: **SA73**



Elastomer Insert fire-proof clamp body material made of Thermoplastic Elastomer (86 Shore-A)
Colour: White
Material code: **SA80-VO**

See pages 178 / 179 for material properties and technical information.

Alternative materials are available upon request. Please contact STAUFF for further information.

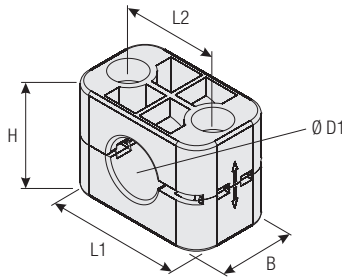
Recommended Bolt Lengths (Socket Cap Screw IS)

for use without Cover Plate DP, assembly with Weld Plate SP, Hexagon Rail Nut SM and Channel Rail Adaptor CRA.

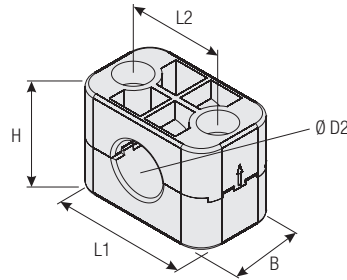
Group	STAUFF	DIN	Metric ISO thread	Unified coarse (UNC) thread
2		2	M6 x 25	1/4-20 UNC x 1
3		3	M6 x 30	1/4-20 UNC x 1-1/8
4		4	M6 x 35	1/4-20 UNC x 1-3/8
5		5	M6 x 50	1/4-20 UNC x 2
6		6	M6 x 60	1/4-20 UNC x 2-1/2

See page 30 for further information on ordering.





For Use with Regular Hose



For Use with Compact Hose
(Upper Clamp Half rotated by 180°)

Group	STAUFF	DIN	Outside Diameter Regular Hose		Outside Diameter Compact Hose		Ordering Codes (2 Clamp Halves) (*-*-* = Material)	Dimensions (mm/in)				
			Ø D1 (mm)	(in)	Ø D2 (mm)	(in)		L1	L2	H		B
3	3	19	.75	17,4	.69	319-***-CC-BK						
		22,2	.87	20,6	.81	322.2-***-CC-BK	50 1.97	33 1.30	35,5 1.40	34 1.34	30 1.18	
		25,4	1.00	23,7	.93	325.4-***-CC-BK						

Additional outside diameters are available upon request. Please contact STAUFF for further information.

Product Features

- Only one clamp body required for two different hose diameters (compact hose + regular hose)
- Rotate upper clamp half by 180° and use clamp body to fasten compact hoses instead of regular hoses
- Available for three different combinations of outside hose diameters
- Outer dimensions according to DIN 3015, Part 1
- Effective cost reduction due to lower inventories

Special Materials

Please contact STAUFF for further details on fire-proof clamp body materials, tested and approved according to several international fire-protection standards (such as BS 6853, EN 45545-2, UL 94 and many more).

See pages 180 / 181 for material properties and technical information.

Clamp Body - Compact Design Type CC



A

Ordering Codes

Clamp Body ***3*19-*PP-H-CC-BK**

One clamp body is consisting of two clamp halves.

- * STAUFF Group **3**
- * Outside diameter Ø D1 (mm) of regular hose **19**
- * Material code (see below) **PP-H-CC-BK**

Standard Materials

Polypropylene
Colour: Black
Material code: **PP-H-CC-BK**

See pages 178 / 179 for material properties and technical information.

Ordering Codes

One clamp body is consisting of two clamp halves.

Clamp Body 540-40-PP-VK
Rectangular design with a square of 40 mm x 40 mm / 1.57 in x 1.57 in

Clamp Body 540-36-PP-VK
Rectangular design with a square of 40 mm x 36 mm / 1.57 in x 1.42 in

Please replace PP by PA to order a clamp body made of Polyamide instead of Polypropylene.

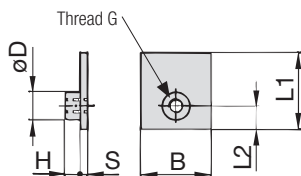
Product Features

- Outer dimensions of clamp body according to Standard Series, STAUFF Group 5
- For proximity switches according to DIN EN 60947-5-2 or similar, rectangular construction, with a square of 40 mm x 40 mm / 1.57 in x 1.57 in or 40 mm x 36 mm / 1.57 in x 1.42 in
- For proximity switches according to DIN EN 60947-5-2 or similar, round construction, please use Standard Series clamp body, STAUFF Group 4, with the diameter required (e.g. 430-PP)
- Use with Hexagon Rail Nut SM and Mounting Rail TS to provide axial and horizontal position adjustment by loosening the bolts

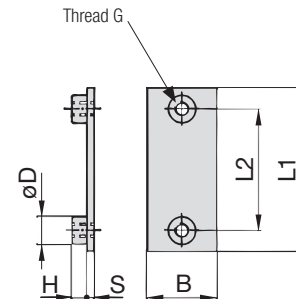
Clamp Body - Rectangular Design Type VK



Single Weld Plate Type SP



STAUFF Group 1



STAUFF Group 1A to 8 (7M / 8M)

Ordering Codes

Weld Plate

***SP-*1-*M-*W2**

* Single Weld Plate

SP

* STAUFF Group

1

* Thread code

Metric ISO thread
Unified coarse (UNC) thread

M

U

* Material code

Carbon Steel, phosphated
Carbon Steel, zinc/nickel-plated

Stainless Steel V2A
1.4301 / 1.4305 (AISI 304 / 303)
Stainless Steel V4A
1.4401 / 1.4571 (AISI 316 / 316 Ti)

Aluminium EN AW-6060
(Dimension S: 5 mm / .20 in)

W2

W3

W4

W5

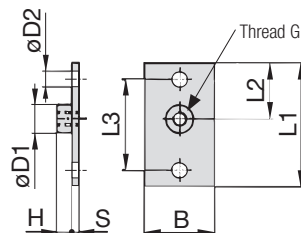
W85

Group	STAUFF	DIN	Dimensions (mm/in)	Thread G	L1	L2	B	S	H	øD	Ordering Codes (Standard Options)
1	0		M6	31,5	10	30	3	6,5	12		SP-1-M-W2
			1/4-20 UNC	1.24	0.39	1.18	.12	.26	.47		SP-1-U-W2
1A	1		M6	36	20	30	3	6,5	12		SP-1A-M-W2
			1/4-20 UNC	1.42	0.79	1.18	.12	.26	.47		SP-1A-U-W2
2	2		M6	42	26	30	3	6,5	12		SP-2-M-W2
			1/4-20 UNC	1.65	1.02	1.18	.12	.26	.47		SP-2-U-W2
3	3		M6	50	33	30	3	6,5	12		SP-3-M-W2
			1/4-20 UNC	1.97	1.30	1.18	.12	.26	.47		SP-3-U-W2
4	4		M6	60	40	30	3	6,5	12		SP-4-M-W2
			1/4-20 UNC	2.36	1.57	1.18	.12	.26	.47		SP-4-U-W2
5	5		M6	71	52	30	3	6,5	12		SP-5-M-W2
			1/4-20 UNC	2.80	2.05	1.18	.12	.26	.47		SP-5-U-W2
6	6		M6	88	66	30	3	6,5	12		SP-6-M-W2
			1/4-20 UNC	3.46	2.60	1.18	.12	.26	.47		SP-6-U-W2
7	7		M6	122	94	30	5	6,5	12		SP-7-M-W2
			1/4-20 UNC	4.80	3.70	1.18	.20	.26	.47		SP-7-U-W2
8	8		M6	148	120	30	5	6,5	12		SP-8-M-W2
			1/4-20 UNC	5.83	4.72	1.18	.20	.26	.47		SP-8-U-W2
7M			M10	125	100	40	8	5,3	14		SP-7M-M-W2
			3/8-16 UNC	4.92	3.94	1.58	.31	.21	.55		SP-7M-U-W2
8M			M10	165	140	45	8	5,3	14		SP-8M-M-W2
			3/8-16 UNC	6.50	5.51	1.77	.31	.21	.55		SP-8M-U-W2

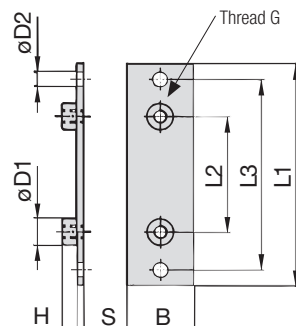
All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Elongated Weld Plate Type SPV



STAUFF Group 1



STAUFF Group 1A to 8 (7M / 8M)

Ordering Codes

Weld Plate

***SPV-*1-*M-*W2**

* Elongated Weld Plate

SPV

* STAUFF Group

1

* Thread code

Metric ISO thread
Unified coarse (UNC) thread

M

U

* Material code

Carbon Steel, phosphated
Carbon Steel, zinc/nickel-plated

Stainless Steel V2A
1.4301 / 1.4305 (AISI 304 / 303)
Stainless Steel V4A
1.4401 / 1.4571 (AISI 316 / 316 Ti)

W2

W3

W4

W5

Group	STAUFF	DIN	Dimensions (mm/in)	Thread G	L1	L2	L3	B	S	H	øD1	øD2	Ordering Codes (Standard Options)
1	0		M6	58	24,5	44	30	3	6,5	12	6,5		SPV-1-M-W2
			1/4-20 UNC	2.28	.96	1.73	1.18	.12	.26	.47	.26		SPV-1-U-W2
1A	1		M6	64	20	50	30	3	6,5	12	6,5		SPV-1A-M-W2
			1/4-20 UNC	2.52	.79	1.97	1.18	.12	.26	.47	.26		SPV-1A-U-W2
2	2		M6	70	26	56	30	3	6,5	12	6,5		SPV-2-M-W2
			1/4-20 UNC	2.76	1.02	2.20	1.18	.12	.26	.47	.26		SPV-2-U-W2
3	3		M6	78	33	64	30	3	6,5	12	6,5		SPV-3-M-W2
			1/4-20 UNC	3.07	1.30	2.52	1.18	.12	.26	.47	.26		SPV-3-U-W2
4	4		M6	87	40	73	30	3	6,5	12	6,5		SPV-4-M-W2
			1/4-20 UNC	3.43	1.57	2.87	1.18	.12	.26	.47	.26		SPV-4-U-W2
5	5		M6	100	52	86	30	3	6,5	12	6,5		SPV-5-M-W2
			1/4-20 UNC	3.94	2.05	3.39	1.18	.12	.26	.47	.26		SPV-5-U-W2
6	6		M6	115	66	100	30	3	6,5	12	6,5		SPV-6-M-W2
			1/4-20 UNC	4.53	2.60	3.94	1.18	.12	.26	.47	.26		SPV-6-U-W2
7	7		M6	150	94	136	30	5	6,5	12	6,5		SPV-7-M-W2
			1/4-20 UNC	5.91	3.70	5.35	1.18	.20	.26	.47	.26		SPV-7-U-W2
8	8		M6	178	120	162	30	5	6,5	12	6,5		SPV-8-M-W2
			1/4-20 UNC	7.01	4.72	6.38	1.18	.20	.26	.47	.26		SPV-8-U-W2
7M			M10	180	155	100	40	8	15,7	17,8	12		SPV-7M-M-W2
			3/8-16 UNC	7.09	6.10	3.94	1.57	.31	.62	.70	.47		SPV-7M-U-W2
8M			M10	220	195	140	45	8	15,7	17,8	12		SPV-8M-M-W2
			3/8-16 UNC	8.66	7.68	5.51	1.77	.31	.62	.70	.47		SPV-8M-U-W2

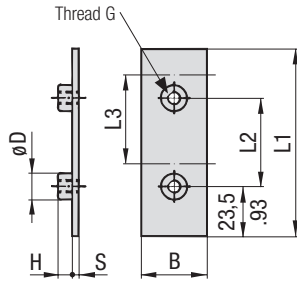
All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

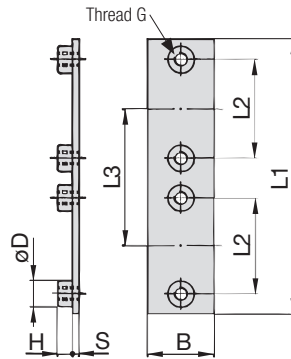


**Twin Weld Plate
for 2 Clamp Bodies
Type DSP**

A



STAUFF Group 1



STAUFF Group 1A to 8



Group STAUFF	DIN	Dimensions (mm/in)								Ordering Codes (Standard Options)
		Thread G	L1	L2	L3	B	S	H	ØD	
1	0	M6	87	40	40	30	3	6.5	12	DSP-1-40-M-W2
		1/4-20 UNC	3.43	1.57	1.57	1.18	.12	.26	.47	DSP-1-40-U-W2
1A	1	M6	77	20	37	30	3	6.5	12	DSP-1A-37-M-W2
		1/4-20 UNC	3.03	.79	1.46	1.18	.12	.26	.47	DSP-1A-37-U-W2
2	2	M6	86	26	44	30	3	6.5	12	DSP-2-44-M-W2
		1/4-20 UNC	3.39	1.02	1.73	1.18	.12	.26	.47	DSP-2-44-U-W2
3	3	M6	102	33	52	30	3	6.5	12	DSP-3-52-M-W2
		1/4-20 UNC	4.02	1.30	2.05	1.18	.12	.26	.47	DSP-3-52-U-W2
4	4	M6	120	40	60	30	3	6.5	12	DSP-4-60-M-W2
		1/4-20 UNC	4.72	1.57	2.36	1.18	.12	.26	.47	DSP-4-60-U-W2
5	5	M6	145	52	75	30	3	6.5	12	DSP-5-75-M-W2
		1/4-20 UNC	5.71	2.05	2.95	1.18	.12	.26	.47	DSP-5-75-U-W2
6	6	M6	178	66	90	30	3	6.5	12	DSP-6-90-M-W2
		1/4-20 UNC	7.01	2.60	3.54	1.18	.12	.26	.47	DSP-6-90-U-W2

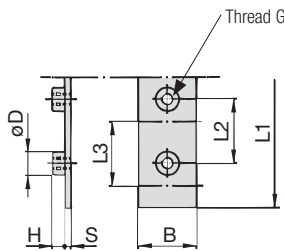
All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Ordering Codes

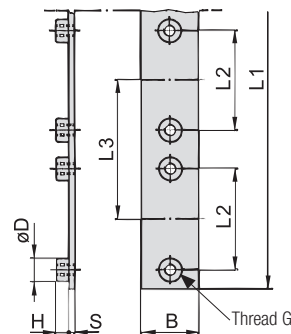
Weld Plate *DSP-*1-*40-*M-*W2

- * Twin Weld Plate for 2 Clamp Bodies **DSP**
- * STAUFF Group **1**
- * Pipe center spacing L3 (mm) **40**
- * Thread code Metric ISO thread **M**
Unified coarse (UNC) thread **U**
- * Material code Carbon Steel, phosphated **W2**
Carbon Steel, zinc/nickel-plated **W3**
Stainless Steel V2A **W4**
1.4301 / 1.4305 (AISI 304 / 303) **W4**
Stainless Steel V4A **W5**
1.4401 / 1.4571 (AISI 316 / 316 Ti) **W5**

**Group Weld Plate
for 5 or 10 Clamp Bodies
Type RAP**



STAUFF Group 1



STAUFF Group 1A to 8



Group STAUFF	DIN	Dimensions (mm/in)								Ordering Codes (Standard Options)
		Thread G	L1	L2	L3	B	S	H	ØD	
1	0	M6	314	31	31	30	4	6.5	12	RAP-1-31-10-M-W1
		1/4-20 UNC	12.36	1.22	1.22	1.18	.16	.26	.47	RAP-1-31-10-U-W1
1A	1	M6	373	20	37	30	4	6.5	12	RAP-1A-37-10-M-W1
		1/4-20 UNC	14.69	.79	1.46	1.18	.16	.26	.47	RAP-1A-37-10-U-W1
2	2	M6	442	26	44	30	4	6.5	12	RAP-2-44-10-M-W1
		1/4-20 UNC	17.40	1.02	1.73	1.18	.16	.26	.47	RAP-2-44-10-U-W1
3	3	M6	521	33	52	30	4	6.5	12	RAP-3-52-10-M-W1
		1/4-20 UNC	20.51	1.30	2.05	1.18	.16	.26	.47	RAP-3-52-10-U-W1
4	4	M6	300	40	60	30	4	6.5	12	RAP-4-60-5-M-W1
		1/4-20 UNC	11.81	1.57	2.36	1.18	.16	.26	.47	RAP-4-60-5-U-W1
5	5	M6	378	52	75	30	4	6.5	12	RAP-5-75-5-M-W1
		1/4-20 UNC	14.88	2.05	2.95	1.18	.16	.26	.47	RAP-5-75-5-U-W1
6	6	M6	450	66	90	30	4	6.5	12	RAP-6-90-5-M-W1
		1/4-20 UNC	17.72	2.60	3.54	1.18	.16	.26	.47	RAP-6-90-5-U-W1

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Ordering Codes

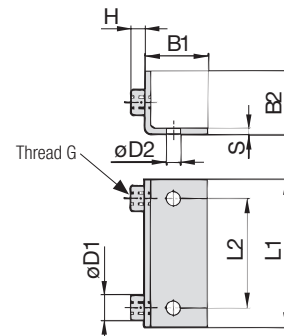
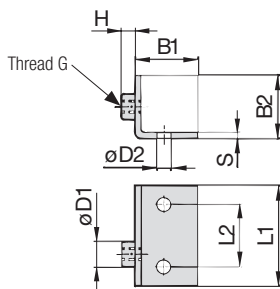
Weld Plate *RAP-*1-*31-*10-*M-*W1

- * Group Weld Plate for 5 or 10 Clamp Bodies **RAP**
- * STAUFF Group **1**
- * Pipe center spacing L3 (mm) **31**
- * Number of clamps **10**
- * Thread code Metric ISO thread **M**
Unified coarse (UNC) thread **U**
- * Material code Carbon Steel, phosphated **W2**
Carbon Steel, zinc/nickel-plated **W3**
Stainless Steel V2A **W4**
1.4301 / 1.4305 (AISI 304 / 303) **W4**
Stainless Steel V4A **W5**
1.4401 / 1.4571 (AISI 316 / 316 Ti) **W5**

Dimensional drawings: All dimensions in mm (in).



Angled Weld Plate Type WSP



STAUFF Group 1

STAUFF Group 1A to 6 (7M / 8M)

Ordering Codes

Weld Plate

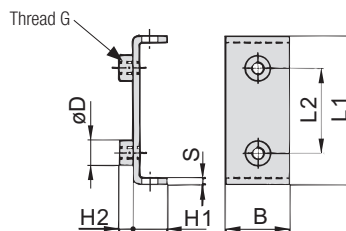
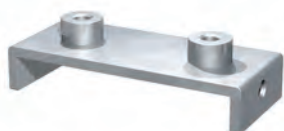
***WSP-*1-*M-*W2**

- * Angled Weld Plate **WSP**
- * STAUFF Group **1**
- * Thread code Metric ISO thread **M**
Unified coarse (UNC) thread **U**
- * Material code Carbon Steel, phosphated **W2**
Carbon Steel, zinc/nickel-plated **W3**
Stainless Steel V2A **W4**
1.4301 / 1.4305 (AISI 304 / 303) **W4**
Stainless Steel V4A **W5**
1.4401 / 1.4571 (AISI 316 / 316 Ti) **W5**

Group STAUFF	DIN	Dimensions (mm/in)								Ordering Codes (Standard Options)	
		Thread G	L1	L2	B1	B2	S	H	ØD1	ØD2	
1	0	M6	30	14	30	30	3	6,5	12	6,5	WSP-1-M-W2
		1/4-20 UNC	1.18	.55	1.18	1.18	.12	.26	.47	.26	WSP-1-U-W2
1A	1	M6	36	20	30	30	3	6,5	12	6,5	WSP-1A-M-W2
		1/4-20 UNC	1.26	.79	1.18	1.18	.12	.26	.47	.26	WSP-1A-U-W2
2	2	M6	42	26	30	30	3	6,5	12	6,5	WSP-2-M-W2
		1/4-20 UNC	1.65	1.02	1.18	1.18	.12	.26	.47	.26	WSP-2-U-W2
3	3	M6	50	33	30	30	3	6,5	12	6,5	WSP-3-M-W2
		1/4-20 UNC	1.97	1.30	1.18	1.18	.12	.26	.47	.26	WSP-3-U-W2
4	4	M6	60	40	30	30	3	6,5	12	6,5	WSP-4-M-W2
		1/4-20 UNC	2.36	1.57	1.18	1.18	.12	.26	.47	.26	WSP-4-U-W2
5	5	M6	70	52	30	30	3	6,5	12	6,5	WSP-5-M-W2
		1/4-20 UNC	2.76	2.05	1.18	1.18	.12	.26	.47	.26	WSP-5-U-W2
6	6	M6	88	66	30	30	3	6,5	12	6,5	WSP-6-M-W2
		1/4-20 UNC	3.46	2.60	1.18	1.18	.12	.26	.47	.26	WSP-6-U-W2
7M		M10	125	100	50	50	8	5,3	14	6,5	WSP-7M-M-W2
		3/8-16 UNC	4.92	3.94	1.97	1.97	.31	.21	.55	.26	WSP-7M-U-W2
8M		M10	165	140	50	50	8	5,3	14	6,5	WSP-8M-M-W2
		3/8-16 UNC	6.50	5.51	1.97	1.97	.31	.21	.55	.26	WSP-8M-U-W2

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Bridge Weld Plate Type BSP



Ordering Codes

Weld Plate

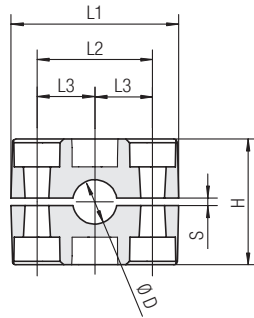
***BSP-*1A-*M-*W2**

- * Bridge Weld Plate **BSP**
- * STAUFF Group **1A**
- * Thread code Metric ISO thread **M**
Unified coarse (UNC) thread **U**
- * Material code Carbon Steel, phosphated **W2**
Carbon Steel, zinc/nickel-plated **W3**
Stainless Steel V2A **W4**
1.4301 / 1.4305 (AISI 304 / 303) **W4**
Stainless Steel V4A **W5**
1.4401 / 1.4571 (AISI 316 / 316 Ti) **W5**

Group STAUFF	DIN	Dimensions (mm/in)								Ordering Codes (Standard Options)	
		Thread G	L1	L2	B	S	H1	H2	ØD		
1A	1	M6	48	20	30	3	13	6,5	12	6,5	BSP-1A-M-W2
		1/4-20 UNC	1.89	.79	1.18	.12	.52	.26	.47	.26	BSP-1A-U-W2
2	2	M6	54	26	30	3	13	6,5	12	6,5	BSP-2-M-W2
		1/4-20 UNC	2.13	1.02	1.18	.12	.52	.26	.47	.26	BSP-2-U-W2
3	3	M6	62	33	30	3	13	6,5	12	6,5	BSP-3-M-W2
		1/4-20 UNC	2.44	1.30	1.18	.12	.52	.26	.47	.26	BSP-3-U-W2
4	4	M6	71	40	30	3	13	6,5	12	6,5	BSP-4-M-W2
		1/4-20 UNC	2.80	1.57	1.18	.12	.52	.26	.47	.26	BSP-4-U-W2
5	5	M6	85	52	30	3	13	6,5	12	6,5	BSP-5-M-W2
		1/4-20 UNC	3.35	2.05	1.18	.12	.52	.26	.47	.26	BSP-5-U-W2
6	6	M6	98	66	30	3	13	6,5	12	6,5	BSP-6-M-W2
		1/4-20 UNC	3.86	2.60	1.18	.12	.52	.26	.47	.26	BSP-6-U-W2

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



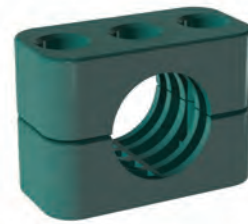


STAUFF Group 5

Group	Outside Diameter Pipe / Tube Ø D	Nominal Bore Pipe	Copper Tube ASTM B88	Ordering Codes (2 Clamp Halves) (** = Material)	Dimensions (mm/in)						
					L1	L2	L3	H	S min.	Width	
5	20	1/2	3/4	520-**-MGR	2.80	2.05	1.02	2.28	0.8	0.03	1.18
	21,3			521.3-**-MGR							
	22			522-**-MGR							
	23			523-**-MGR							
	25	525-**-MGR									
	26,9	3/4	526.9-**-MGR								
	28	528-**-MGR									
	30	530-**-MGR									
	32	1-1/4	532-**-MGR								
	33,7	1	533.7-**-MGR								
	35	1-1/4	535-**-MGR								
	38	1-1/2	538-**-MGR								
	40	540-**-MGR									
	42	1-1/4	542-**-MGR								

Additional outside diameters are available upon request. Please contact STAUFF for further information.

Clamp Body for Multi-Group Weld Plate Type MGR



Ordering Codes

Clamp Body ***5*20-PP-MGR**

One clamp body is consisting of two clamp halves.

- * STAUFF Group **5**
- * Exact outside diameter Ø D1 (mm) **20**
- * Material code (see below) **PP-MGR**

Standard Materials

Polypropylene
Colour: Green
Material code: **PP-MGR**

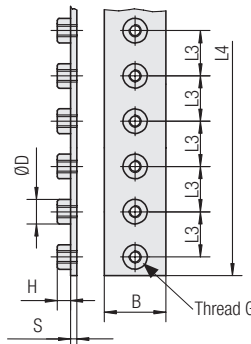
Polyamide
Colour: Black
Material code: **PA-MGR**

See pages 178 / 179 for properties and technical information.

Multi-Group Weld Plates (type RAP-MGR) are designed to be used in combination with Standard Series clamp bodies, STAUFF Group 2 (regular types, see pages 14 ff.) covering a diameter range from 8 mm / .31 in to 18 mm / .71 in, as well as Standard Series clamp bodies, STAUFF Group 5 (type MGR, see above) covering a diameter range from 20 mm / .79 in to 42 mm / 1.65 in. Thus, all Standard Series metal parts (bolts, cover plates) of these groups can be used.



Multi-Group Weld Plate RAP-MGR-25-312-M-W1



Number of Weld Nuts	Dimensions (mm/in)							Ordering Codes (Standard Options)
	Thread G	L3	L4	B	S	H	ØD	
6	M6	26	156	30	4	6,5	12	RAP-MGR-25-156-M-W1
	1/4-20 UNC	1.02	6.14	1.18	.16	.26	.47	RAP-MGR-25-156-U-W1
9	M6	26	234	30	4	6,5	12	RAP-MGR-25-234-M-W1
	1/4-20 UNC	1.02	9.21	1.18	.16	.26	.47	RAP-MGR-25-234-U-W1
12	M6	26	312	30	4	6,5	12	RAP-MGR-25-312-M-W1
	1/4-20 UNC	1.02	12.28	1.18	.16	.26	.47	RAP-MGR-25-312-U-W1
15	M6	26	390	30	4	6,5	12	RAP-MGR-25-390-M-W1
	1/4-20 UNC	1.02	15.35	1.18	.16	.26	.47	RAP-MGR-25-390-U-W1
20	M6	26	520	30	4	6,5	12	RAP-MGR-25-520-M-W1
	1/4-20 UNC	1.02	20.47	1.18	.16	.26	.47	RAP-MGR-25-520-U-W1
27	M6	26	700	30	4	6,5	12	RAP-MGR-25-700-M-W1
	1/4-20 UNC	1.02	27.55	1.18	.16	.26	.47	RAP-MGR-25-700-U-W1

Cover a diameter range from 8 mm (.31 in) to 42 mm (1.65 in) with only one Group Weld Plate!

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Multi-Group Weld Plate for Clamp Body Sizes 2 and 5 (Type MGR) Type RAP-MGR



Ordering Codes

Weld Plate ***RAP-MGR-25-156-M-W1**

- * Multi Group Weld Plate **RAP-MGR**
- * Suitable for STAUFF Group 2 and 5 (only type MGR) **25**
- * Length L4 (mm)

156 (with 6 weld nuts)	156
234 (with 9 weld nuts)	234
312 (with 12 weld nuts)	312
390 (with 15 weld nuts)	390
520 (with 20 weld nuts)	520
700 (with 27 weld nuts)	700
- * Thread code

Metric ISO thread	M
Unified coarse (UNC) thread	U
- * Material code

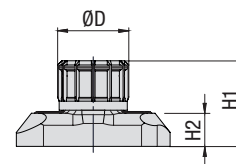
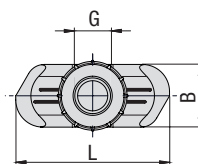
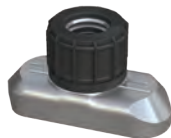
Carbon Steel, uncoated	W1
Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)	W5



Hexagon Rail Nut

(for Use with Mounting Rail TS)

Type SM



Ordering Codes

Hexagon Rail Nut *SM-*1-8/1D-*M-*W3

- * Hexagon Rail Nut **SM**
- * STAUFF Group 1 to 8 (DIN Group 0 to 8) **1-8/1D**
- * Thread code Metric ISO thread **M**
Unified coarse (UNC) thread **U**
- * Material code Carbon Steel, zinc/nickel-plated **W3**
Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303) **W4**
Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti) **W5**

Group STAUFF	DIN	Dimensions (mm/in)						Ordering Codes (Standard Options)
		Thread G	L	B	H1	H2	ØD	
1	0							
1A	1							
2	2							
3	3							
4	4	M6	25,5	10,4	14,2	5,5	12	SM-1-8/1D-M-W3
		1/4-20 UNC	1.00	.41	.56	.22	.47	SM-1-8/1D-U-W3
5	5							
6	6							
7	7							
8	8							

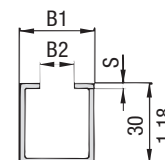
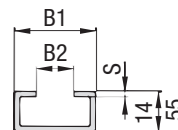
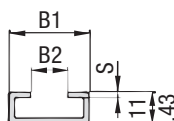
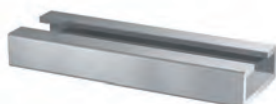
Hexagon Rail Nuts, type SM-1-8/1D are also suitable for Twin Series, STAUFF Group 1D.

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Mounting Rail

(for Use with Hexagon Rail Nut SM)

Type TS



Mounting Rail TS-11

Mounting Rail TS-14

Mounting Rail TS-30

Ordering Codes

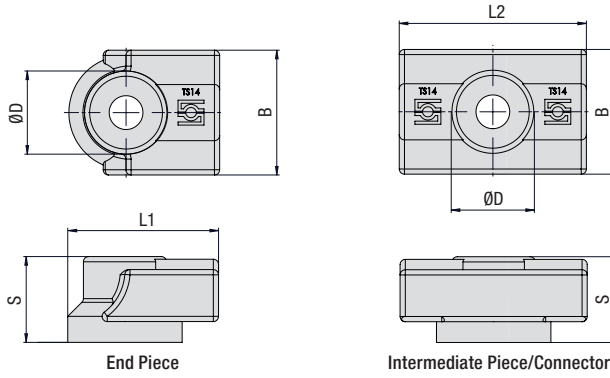
Mounting Rail *TS-*11-*1M-*W1

- * Mounting Rail **TS**
- * Height of rail 11 mm / .43 in **11**
14 mm / .55 in **14**
30 mm / 1.18 in **30**
- * Length of rail 1 m / 3.28 ft **1M**
2 m / 6.56 ft **2M**
Alternative lengths available upon request. Contact STAUFF for further information.
- * Material code Carbon Steel, uncoated **W1**
Carbon Steel, hot-dip galvanised **W98**
Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303) **W4**
Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti) **W5**

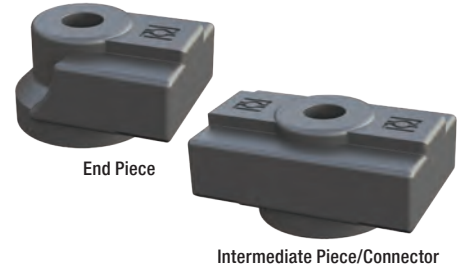
Group STAUFF	DIN	Dimensions (mm/in)			Ordering Codes (Standard Options)	
		B1	B2	S	Length of Rail: 1 m / 3.28ft	Length of Rail: 2 m / 6.56ft
1	0					
1A	1				Height 11 mm / .43 in TS-11-1M-W1	Height 11 mm / .43 in TS-11-2M-W1
2	2					
3	3					
4	4	28	11	2	Height 14 mm / .55 in TS-14-1M-W1	Height 14 mm / .55 in TS-14-2M-W1
		1.10	.43	.08		
5	5					
6	6					
7	7				Height 30 mm / 1.18 in TS-30-1M-W1	Height 30 mm / 1.18 in TS-30-2M-W1
8	8					

Mounting Rails, type TS-11/14/30 are suitable for all Standard Series and Twin Series group sizes. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.





Fastening Adaptor
(for Use with Mounting Rail TS)
Type SWG-MRA



A

Group STAUFF	DIN	Dimensions (mm/in)					Ordering Code (End Piece)	Ordering Code (Intermediate Piece/Connector)
		ØD	L1	L2	B	S		
1 bis 8	0 bis 8	16 .63	29 1.14	36 1.42	24 .94	16,5 .65	SWG-MRA-TS14-S-A	SWG-MRA-TS14-D-A

Fastening Adaptor, type SWG-MRA are also suitable for Twin Series.
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Ordering Code

Fastening Adaptor
***SWG-MRA-*TS14-*S-*A**

* Fastening Adaptor	SWG-MRA
* for Mounting Rail TS14	TS14
* End Piece	S
Intermediate Piece/Connector	D
* Version	A

Product Features

Fastening Adaptor for Direct Screw Mounting of STAUFF Mounting Rails Type TS-14 with Weld Studs M6 and Bolts M6 or 1/4–20 UNC (Support Sleeve / Washer Recommended)

Material: Polyamide

Instructions for Use

- Are pressed into the side of the Mounting Rail TS-14 and bolted to the installation
- Positioning of the mounting rail 2 mm above the installation
- Initially designed for use with weld studs with internal thread M6
- Can also be used with M6 bolts – depending on the load, an internal support sleeve (e.g. 1130023624 LBBU-HUE-1/1D-SP-M6/U1/4-W3) and/or washer may be required
- Maximum recommended distance between two fastening adaptors of 222 mm (corresponds to a length of the mounting rail of 200 mm)
- In case of doubt, please consult STAUFF for information on maximum static and dynamic loads

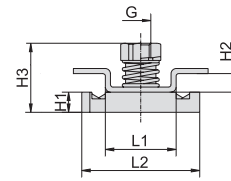
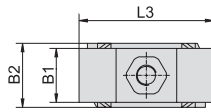


Channel Rail Adaptor

(for Use with Various Channel Rails)

Type CRA

A



Ordering Codes

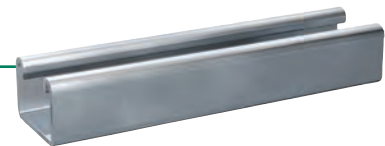
Adaptor *CRA-*1-8/1D-*M-*W3

- * Channel Rail Adaptor **CRA**
- * STAUFF Group 1 to 8 (DIN Group 0 to 8) **1-8/1D**
- * Thread code Metric ISO thread **M**
Unified coarse (UNC) thread **U**
- * Material code Carbon Steel, zinc/nickel-plated **W3**
Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti) **W5**

Group STAUFF	DIN	Dimensions (mm/in)										Ordering Codes (Standard Options)
		Thread G	L1	L2	L3	B1	B2	H1	H2	H3		
1	0											
1A	1											
2	2											
3	3											
4	4	M6 1/4-20 UNC	21 .83	35 1.38	40 1.57	16 .63	19 .75	6 .24	5,5 .22	20,5 .81		CRA-1-8/1D-M-W3 CRA-1-8/1D-U-W3
5	5											
6	6											
7	7											
8	8											
7M		M8	21	35	38	80	19	9	5,5	23,5		CRA-7-8ML-M-W3
8M		5/16-18 UNC	.83	1.38	1.50	3.15	.75	.3	.22	.93		CRA-7-8ML-U-W3

The Channel Rail Adaptor, type CRA 1-8/1D is also suitable for Twin Series, STAUFF Group 1D.

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

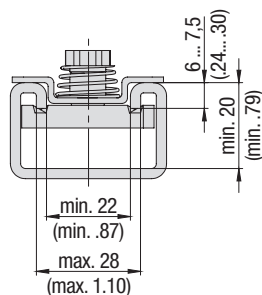


Compatibility with Channel Rails

The STAUFF Channel Rail Adaptor, type CRA, is suitable for various channel rails, including the following types:

HALFEN	HILTI	UNISTRUT®	STAUFF (Cushion Clamp Series)
HM 41/41	MQ-21, MQ-41, MQ-52, MQ-72	P1000, P1000T, P1000V, P1000VT, P1001	SCS-048-1-PL, SCS-048-1-GR
HZA 41/22	MQ-21U, MQ-41U, MQ-72U	P2000, P2000T	SCS-120-1-PL, SCS-120-1-GR
HZM 41/41	MQ-21D, MQ-41D, MQ-52-72D	P3003, P3003T, P3300V, P3300VT, P3301	See page 149 for technical information.
HZM 41/22		P4000, P4000T	
HL 41/41, HL 41/B2		P5000, P5000T, P5001, P5500, P5500T, P5501	

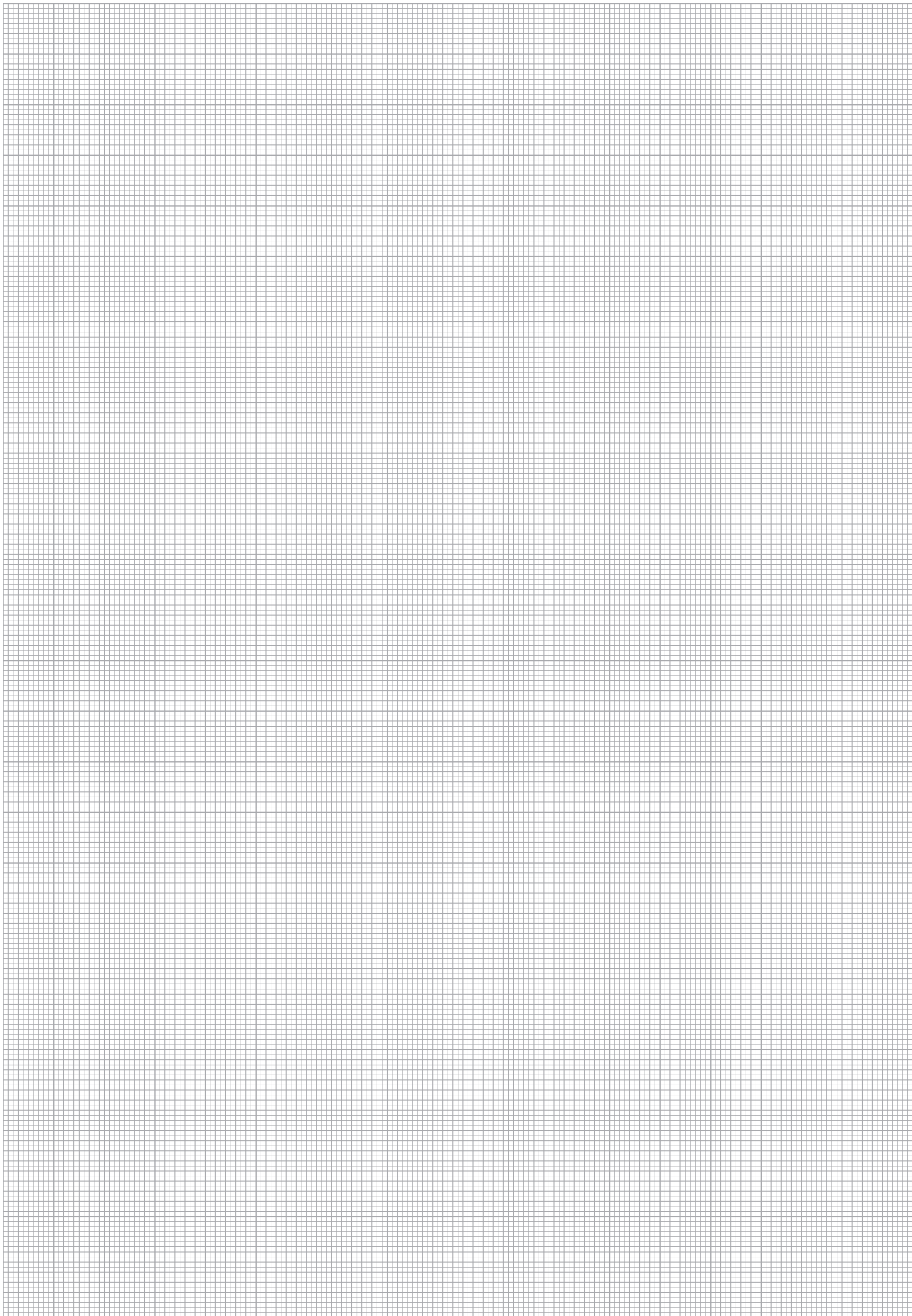
To check the compatibility with additional types of channel rail, please compare the dimensions with the following drawing before use.



Basic dimensional requirements for channel rails to be used with STAUFF Channel Rail Adaptors, type CRA

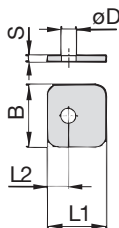
Dimensional drawings: All dimensions in mm (in).



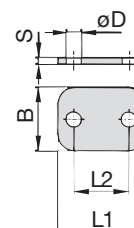


Cover Plate Type DP

A



STAUFF Group 1



STAUFF Group 1A to 8 (7M / 8M)

Ordering Codes

Cover Plate

***DP-*1-*W3**

* Cover Plate		DP
* STAUFF Group		1
* Material code	Carbon Steel, zinc/nickel-plated	W3
	Stainless Steel V2A	W4
	1.4301 / 1.4305 (AISI 304 / 303)	
	Stainless Steel V4A	W5
	1.4401 / 1.4571 (AISI 316 / 316 Ti)	
	Aluminium EN AW-6060	W85

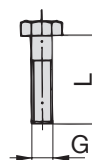
Group STAUFF	DIN	Dimensions (mm/in)					ØD	Ordering Codes (Standard Options)
		L1	L2	B	S			
1	0	28	9,5	30	3	7	DP-1-W3	
		1.10	.37	1.18	.12	.28		
1A	1	34	20	30	3	7	DP-1A-W3	
		1.34	.79	1.18	.12	.28		
2	2	40,5	26	30	3	7	DP-2-W3	
		1.59	1.02	1.18	.12	.28		
3	3	48	33	30	3	7	DP-3-W3	
		1.89	1.30	1.18	.12	.28		
4	4	57	40	30	3	7	DP-4-W3	
		2.24	1.57	1.18	.12	.28		
5	5	70	52	30	3	7	DP-5-W3	
		2.76	2.05	1.18	.12	.28		
6	6	86	66	30	3	7	DP-6-W3	
		3.39	2.60	1.18	.12	.28		
7	7	118	94	30	5	7	DP-7-W3	
		4.65	3.70	1.18	.20	.28		
8	8	144	120	30	5	7	DP-8-W3	
		5.67	4.72	1.18	.20	.28		
7M		125	100	40	8	11	DP-7M-W3	
		4.92	3.94	1.57	.31	.43		
8M		165	140	45	8	11	DP-8M-W3	
		6.50	5.51	1.77	.31	.43		

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Hexagon Head Bolt

(for Use with Cover Plate DP)

Type AS



Hexagon Head Bolt AS (according to DIN 931 / 933 or ANSI / ASME B18.2.1.)
Dimensions applicable only when used with Cover Plate DP

Ordering Codes

Hexagon Head Bolt

***AS-*M6x30-*W3**

* Type of bolt	Hexagon Head Bolt (according to DIN 931 / 933 or ANSI / ASME B18.2.1.)	AS
* Thread type and size acc. to dimension table	M6x30	
* Material code	Carbon Steel, zinc/nickel-plated	W3
	Stainless Steel V2A	W4
	1.4301 / 1.4305 (AISI 304 / 303)	
	Stainless Steel V4A	W5
	1.4401 / 1.4571 (AISI 316 / 316 Ti)	

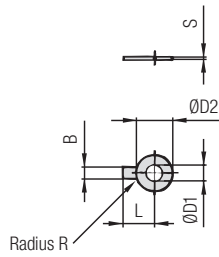
Group STAUFF	DIN	Dimensions (mm/in)		Ordering Codes (Standard Options)
		Thread G x L		
1	0	M6 x 30		AS-M6x30-W3
		1/4-20 UNC x 1-1/4		AS-1/4-20UNCx1-1/4-W3
1A	1	M6 x 30		AS-M6x30-W3
		1/4-20 UNC x 1-1/4		AS-1/4-20UNCx1-1/4-W3
2	2	M6 x 35		AS-M6x35-W3
		1/4-20 UNC x 1-3/8		AS-1/4-20UNCx1-3/8-W3
3	3	M6 x 40		AS-M6x40-W3
		1/4-20 UNC x 1-1/2		AS-1/4-20UNCx1-1/2-W3
4	4	M6 x 45		AS-M6x45-W3
		1/4-20 UNC x 1-7/8		AS-1/4-20UNCx1-7/8-W3
5	5	M6 x 60		AS-M6x60-W3
		1/4-20 UNC x 2-3/8		AS-1/4-20UNCx2-3/8-W3
6	6	M6 x 70		AS-M6x70-W3
		1/4-20 UNC x 2-3/4		AS-1/4-20UNCx2-3/4-W3
7	7	M6 x 100		AS-M6x100-W3
		1/4-20 UNC x 4		AS-1/4-20UNCx4-W3
8	8	M6 x 125		AS-M6x125-W3
		1/4-20 UNC x 4-7/8		AS-1/4-20UNCx4-7/8-W3
7M		M10 x 110		AS-M10x110-W3
		3/8-16 UNC x 4-1/3		AS-3/8-16 UNC x 4-1/3-W3
8M		M10 x 145		AS-M10x145-W3
		3/8-16 UNC x 5-6/8		AS-3/8-16 UNC x 5-6/8-W3

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



Safety Washer
(for Use with Hexagon Head Bolt AS)
Type SI (DIN 93)

A



Safety Washer SI

(Bend longer tab down towards the side of the clamp body and one side up towards one of the flats of the hexagon head bolt)

Group STAUFF	DIN	Dimensions (mm / in)						Ordering Codes (Standard Options)
		ØD1	B	ØD2	L	R	S	
1 to 8	0 to 8	6,4	7	19	18	4	0,5	SI-6.4-DIN93-W3
		.25	.28	.75	.71	.16	.02	

Safety Washers, type SI are used as locking devices to prevent Hexagon Head Bolts, type AS from loosening. Safety Washers, type SI are suitable for all Standard Series group sizes.

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

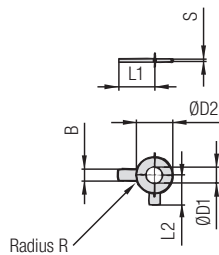
Ordering Codes

Safety Washer *SI-*6.4-*DIN93-*W3

* Type of washer Safety washer with 1 tab (according to DIN 93) **SI-6.4-DIN93**

* Material code Carbon Steel, zinc/nickel-plated **W3**
Stainless Steel V4A **W5**
1.4401 / 1.4571 (AISI 316 / 316 Ti)

Safety Washer
(for Use with Hexagon Head Bolt AS)
Type SI (DIN 463)



Safety Washer SI

(Bend longer tab down towards the side of the clamp body and shorter tab up towards one of the flats of the hexagon head bolt)

Group STAUFF	DIN	Dimensions (mm / in)						Ordering Codes (Standard Options)	
		ØD1	B	ØD2	L1	L2	R		S
1 to 8	0 to 8	6,4	7	12	18	9	4	0,5	SI-6.4-DIN463-W3
		.25	.28	.47	.71	.35	.16	.02	

Safety Washers, type SI are used as locking devices to prevent Hexagon Head Bolts, type AS from loosening. Safety Washers, type SI are suitable for all Standard Series group sizes.

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Ordering Codes

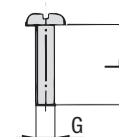
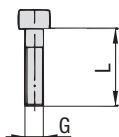
Safety Washer *SI-*6.4-*DIN463-*W3

* Type of washer Safety washer with 2 tabs (according to DIN 463) **SI-6.4-DIN463**

* Material code Carbon Steel, zinc/nickel-plated **W3**
Stainless Steel V4A **W5**
1.4401 / 1.4571 (AISI 316 / 316 Ti)



Socket Cap Screw **Slotted Head Screw**
Type IS **Type LI**



Socket Cap Screw IS

(according to ISO 4762 or ANSI / ASME B18.3)

Dimensions applicable only when used without Cover Plate DP

Slotted Head Screw LI

(according to ISO 1207 or ANSI / ASME B18.6.3)

Dimensions applicable only when used without Cover Plate DP

Ordering Codes

Socket Cap Screw ***IS-*M6x30-*W3**
Slotted Head Screw ***LI-*M6x30-*W3**

* Type of bolt Socket Cap Screw (according to ISO 4762 or ANSI / ASME B18.3) **IS**
Slotted Head Screw (according to ISO 1207 or ANSI / ASME B18.6.3) **LI**

Please note: Socket cap screws IS and slotted head screws LI have to be used in conjunction with washers US, which are available separately.

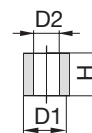
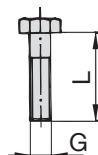
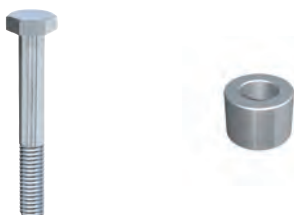
* Thread type and size acc. to dimension table **M6x30**

* Material code Carbon Steel, zinc/nickel-plated **W3**
Stainless Steel V2A **W4**
1.4301 / 1.4305 (AISI 304 / 303)
Stainless Steel V4A **W5**
1.4401 / 1.4571 (AISI 316 / 316 Ti)

Group STAUFF	DIN	Dimensions (mm/in) Thread G x L	Ordering Codes (Standard Options)	
			Socket Cap Screws	Slotted Head Screws
1	0	M6 x 20	IS-M6x20-W3	LI-M6x20-W3
		1/4-20 UNC x 3/4	IS-1/4-20UNCx3/4-W3	LI-1/4-20UNCx3/4-W3
1A	1	M6 x 20	IS-M6x20-W3	LI-M6x20-W3
		1/4-20 UNC x 3/4	IS-1/4-20UNCx3/4-W3	LI-1/4-20UNCx3/4-W3
2	2	M6 x 25	IS-M6x25-W3	LI-M6x25-W3
		1/4-20 UNC x 1	IS-1/4-20UNCx1-W3	LI-1/4-20UNCx1-W3
3	3	M6 x 30	IS-M6x30-W3	LI-M6x30-W3
		1/4-20 UNC x 1-1/8	IS-1/4-20UNCx1-1/8-W3	LI-1/4-20UNCx1-1/8-W3
4	4	M6 x 35	IS-M6x35-W3	LI-M6x35-W3
		1/4-20 UNC x 1-3/8	IS-1/4-20UNCx1-3/8-W3	LI-1/4-20UNCx1-3/8-W3
5	5	M6 x 50	IS-M6x50-W3	LI-M6x50-W3
		1/4-20 UNC x 2	IS-1/4-20UNCx2-W3	LI-1/4-20UNCx2-W3
6	6	M6 x 60	IS-M6x60-W3	LI-M6x60-W3
		1/4-20 UNC x 2-1/2	IS-1/4-20UNCx2-1/2-W3	LI-1/4-20UNCx2-1/2-W3
7	7	M6 x 90	IS-M6x90-W3	ON REQUEST ONLY
		1/4-20 UNC x 3-3/8	IS-1/4-20UNCx3-3/8-W3	
8	8	M6 x 110	IS-M6x110-W3	ON REQUEST ONLY
		1/4-20 UNC x 4-3/8	IS-1/4-20UNCx4-3/8-W3	

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Hexagon Head Bolt **Insert**
Type AS **Type ES / EP**



Hexagon Head Bolt AS

(according to DIN 931 / 933 or ANSI / ASME B18.2.1.)

Dimensions applicable only when used with Inserts EP / ES

Insert EP (Polypropylene)

Insert ES-W3 (Steel, zinc/nickel-plated)

Insert ES-W5 (Stainless Steel V4A)

Ordering Codes

Hexagon Head Bolt ***AS-*M6x27-*W3**

* Type of bolt Hexagon Head Bolt (according to DIN 931 / 933 or ANSI / ASME B18.2.1.) **AS**

* Thread type and size acc. to dimension table **M6x27**

* Material code Carbon Steel, zinc/nickel-plated **W3**
Stainless Steel V2A **W4**
1.4301 / 1.4305 (AISI 304 / 303)
Stainless Steel V4A **W5**
1.4401 / 1.4571 (AISI 316 / 316 Ti)

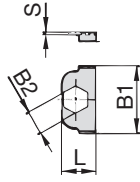
Group STAUFF	DIN	Dimensions (mm/in) Thread G x L	Ordering Codes (Standard Options)		Group STAUFF	DIN	Dimensions (mm/in)				Ordering Codes (Standard Options)	
			D1	D2			H ES	H EP	ES-W3	EP		
1	0	M6 x 27	AS-M6x27-W3		1 to 8	0 to 8	11,8 .46	6,5 .26	7,8 .31	8,6 .34	ES-W3	EP
		1/4-20 UNC x 1-1/8	AS-1/4-20UNCx1-1/8-W3									
1A	1	M6 x 27	AS-M6x27-W3									
		1/4-20 UNC x 1-1/8	AS-1/4-20UNCx1-1/8-W3									
2	2	M6 x 32	AS-M6x32-W3									
		1/4-20 UNC x 1-3/8	AS-1/4-20UNCx1-3/8-W3									
3	3	M6 x 35	AS-M6x35-W3									
		1/4-20 UNC x 1-3/8	AS-1/4-20UNCx1-3/8-W3									
4	4	M6 x 42	AS-M6x42-W3									
		1/4-20 UNC x 1-5/8	AS-1/4-20UNCx1-5/8-W3									
5	5	M6 x 57	AS-M6x57-W3									
		1/4-20 UNC x 2-3/8	AS-1/4-20UNC-2-3/8-W3									
6	6	M6 x 65	AS-M6x65-W3									
		1/4-20 UNC x 2-3/4	AS-1/4-20UNCx2-3/4-W3									
7	7	M6 x 95	AS-M6x95-W3									
		1/4-20 UNC x 4	AS-1/4-20UNCx4-W3									
8	8	M6 x 118	AS-M6x118-W3									
		1/4-20 UNC x 4-3/4	AS-1/4-20UNCx4-3/4-W3									

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

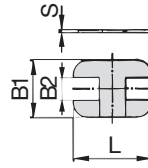


Safety Locking Plate
(for Use with Stacking Bolt AF)
Type SIG

A



STAUFF Group 1



STAUFF Group 1A to 8 (7M / 8M)



Group STAUFF	DIN	Dimensions (mm/in)				Ordering Codes (Standard Options)
		L	B1	B2	S	
1	0	16	32	11,2	1	SIG-1-W3
		.63	1.26	.44	.04	
1A	1	33	28	11,2	1	SIG-1A-W3
		1.30	1.10	.44	.04	
2	2	39	28	11,2	1	SIG-2-W3
		1.54	1.10	.44	.04	
3	3	47	28	11,2	1	SIG-3-W3
		1.85	1.10	.44	.04	
4	4	56	28	11,2	1	SIG-4-W3
		2.20	1.10	.44	.04	
5	5	69	28	11,2	1	SIG-5-W3
		2.72	1.10	.44	.04	
6	6	85	28	11,2	1	SIG-6-W3
		3.35	1.10	.44	.04	
7	7	117	28	11,2	1	SIG-7-W3
		4.61	1.10	.44	.04	
8	8	143	28	11,2	1	SIG-8-W3
		5.63	1.10	.44	.04	
7M		125	40	15,2	5	SIG-7M-W3
		4.92	1.57	.60	.20	
8M		160	45	15,2	5	SIG-8M-W3
		6.30	1.77	.60	.20	

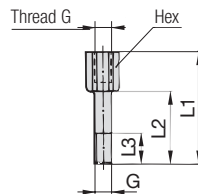
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Ordering Codes

Safety Locking Plate *SIG-*1-*W3

* Safety Locking Plate		SIG
* STAUFF Group		1
* Material code	Carbon Steel, zinc/nickel-plated	W3
	Stainless Steel V2A	W4
	1.4301 / 1.4305 (AISI 304 / 303)	
	Stainless Steel V4A	W5
	1.4401 / 1.4571 (AISI 316 / 316 Ti)	

Stacking Bolt
(for Use with Safety Locking Plate SIG)
Type AF



Group STAUFF	DIN	Dimensions (mm/in)					Ordering Codes (Standard Options)
		Thread G	L1	L2	L3 min.	Hex	
1	0	M6	34	20	12	11	AF-1/1A/1D-M-W3
		1/4-20 UNC	1.34	.79	.47	.43	AF-1/1A/1D-U-W3
1A	1	M6	34	20	12	11	AF-1/1A/1D-M-W3
		1/4-20 UNC	1.34	.79	.47	.43	AF-1/1A/1D-U-W3
2	2	M6	40	25	12	11	AF-2-M-W3
		1/4-20 UNC	1.57	.98	.47	.43	AF-2-U-W3
3	3	M6	44	30	12	11	AF-3-M-W3
		1/4-20 UNC	1.73	1.18	.47	.43	AF-3-U-W3
4	4	M6	49	35	12	11	AF-4-M-W3
		1/4-20 UNC	1.93	1.38	.47	.43	AF-4-U-W3
5	5	M6	64	50	12	11	AF-5-M-W3
		1/4-20 UNC	2.52	1.97	.47	.43	AF-5-U-W3
6	6	M6	74	60	12	11	AF-6-M-W3
		1/4-20 UNC	2.91	2.36	.47	.43	AF-6-U-W3
7	7	M6	99	85	12	11	AF-7-M-W3
		1/4-20 UNC	3.90	3.35	.47	.43	AF-7-U-W3
8	8	M6	124	110	12	11	AF-8-M-W3
		1/4-20 UNC	4.88	4.33	.47	.43	AF-8-U-W3
7M		M10	115	90	15	15	AF-7M-M-W3
		3/8-16 UNC	4.53	3.54	.59	.59	AF-7M-U-W3
8M		M10	150	125	15	15	AF-8M-M-W3
		3/8-16 UNC	5.91	4.92	.59	.59	AF-8M-U-W3

Ordering Codes

Stacking Bolt *AF-*1/1A/1D-*M-*W3

* Type of bolt	Stacking Bolt (according to STAUFF Standard)	AF
* STAUFF Group		1
* Thread code	Metric ISO thread	M
	Unified coarse (UNC) thread	U
* Material code	Carbon Steel, zinc/nickel-plated	W3
	Stainless Steel V2A	W4
	1.4301 / 1.4305 (AISI 304 / 303)	
	Stainless Steel V4A	W5
	1.4401 / 1.4571 (AISI 316 / 316 Ti)	

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



A



① Type of Installation

Please select the type of installation (e.g. Weld Plates, Rail Nuts etc.) and add the corresponding Code to position ① of the order code for your clamp assembly.

Without Installation Equipment
Code: **none**

Installation on Weld Plate

Single Weld Plate
Code: **SP**

Elongated Weld Plate
Code: **SPV**

Twin Weld Plate (for STAUFF Group 1 to 6 only)
Code: **DSP**

Group Weld Plate (for STAUFF Group 1 to 6 only)
Code: **RAP**

Angled Weld Plate (for STAUFF Group 1 to 6 only)
Code: **WSP**

Bridge Weld Plate (for STAUFF Group 1A to 6 only)
Code: **BSP**

Installation on Mounting / Channel Rail

Hexagon Rail Nut
Code: **SM**

Channel Rail Adaptor
Code: **CRA**

② Group Size & Diameter

Please select the required group size and diameter and add the corresponding Code to position ② of the order code for your clamp assembly.

Group STAUFF (DIN)	Outside Diameter P / T / H (mm)	Availability of Clamp Body Materials & Designs			Code
		Profiled Design	Type H	Type RI	
1 (0)	6	●	●	○	106
	6,4	●	●	○	106.4
	8	●	●	○	108
	9,5	●	●	○	109.5
	10	●	●	○	110
1A (1)	12	●	●	○	112
	6	●	●	○	106A
	6,4	●	●	○	106.4A
	8	●	●	○	108A
	9,5	●	●	○	109.5A
2 (2)	10	●	●	○	110A
	12	●	●	○	112A
	12,7	●	●	○	212.7
	13,5	●	●	○	213.5
	14	●	●	○	214
	15	●	●	○	215
	16	●	●	○	216
	17,2	●	●	○	217.2
	18	●	●	○	218
	19	●	●	○	319
3 (3)	20	●	●	○	320
	21,3	●	●	○	321.3
	22	●	●	○	322
	25	●	●	○	325
	25,4	●	●	○	325.4
4 (4)	6	○	○	●	406
	8	○	○	●	408
	10	○	○	●	410
	12	○	○	●	412
	12,7	○	○	●	412.7
	14	○	○	●	414
	15	○	○	●	415
	16	○	○	●	416
	17,2	○	○	●	417.2
	18	○	○	●	418
	19	○	○	●	419
	26,9	●	●	○	426.9
	28	●	●	○	428
	28,6	●	○	○	428.6
	30	●	●	○	430
32	●	●	○	432	

Group STAUFF (DIN)	Outside Diameter P / T / H (mm)	Availability of Clamp Body Materials & Designs			Code
		Profiled Design	Type H	Type RI	
5 (5)	32	●	●	○	532
	33,7	●	●	○	533.7
	35	●	●	○	535
	38	●	●	○	538
	40	●	●	○	540
	41,3	●	○	○	541.3
	42	●	●	○	542
	20	○	○	●	620
	21,3	○	○	●	621.3
	22	○	○	●	622
6 (6)	25	○	○	●	625
	26,9	○	○	●	626.9
	28	○	○	●	628
	30	○	○	●	630
	32	○	○	●	632
	44,5	●	●	○	644.5
	48,3	●	●	○	648.3
	50,8	●	●	○	650.8
	54	●	●	○	654
	57,2	●	●	○	757.2
7 (7)	60,3	●	●	○	760.3
	63,5	●	●	○	763.5
	70	●	●	○	770
	73	●	●	○	773
	76,1	●	●	○	776.1
8 (8)	88,9	●	●	○	888.9
	102	●	●	○	8102L

● Standard Option



Please see pages 34 and 35 with detailed order examples for some of the most popular Standard Series clamp assemblies.

③ Clamp Body Design & Material

Please select the design and material of your clamp body and add the corresponding **Code** to position ③ of the order code for your clamp assembly.

Please check the availability of the selected clamp body design and material according to the matrix table in ②.

Profiled Design



Polypropylene
Code: **PP**



Polypropylene (Colour: Black)
Code: **PP-BK**



Polyamide
Code: **PA**



Thermoplastic Elastomer (87 Shore-A)
Code: **SA87**



Aluminium
Code: **AL** (for STAUFF Group 1A to 6 only)

Type H (Smooth)



Polypropylene
Code: **PP-H**



Polypropylene (Colour: Black)
Code: **PP-H-BK**



Polyamide
Code: **PA-H**



Thermoplastic Elastomer (87 Shore-A)
Code: **SA87-H**

Type RI (with Elastomer Insert)



Polypropylene
Code: **PP-R** (for STAUFF Group 4 and 6 only)



Polyamide
Code: **PA-R** (for STAUFF Group 4 and 6 only)

See pages 178 / 179 for material properties and technical information.

Please contact STAUFF for further details on fire-proof clamp body materials, tested and approved according to several international fire-protection standards.

④ Mounting & Fitting Combination

Please select the mounting and fitting combination (e.g. bolts, screws, cover plates etc.) and add the corresponding **Code** to position ④ of the order code for your clamp assembly.

Installation with Cover Plate and Bolts

Cover Plate DP with
Hexagon Head Bolts AS
Code: **DP-AS**

Cover Plate DP with
Socket Cap Screws IS*
Code: **DP-IS**

Installation with Locking Plate and Bolts

Safety Locking Plate SIG with
Stacking Bolts AF
Code: **SIG-AF**

Installation with Inserts and Bolts

Inserts EP (Plastic) with
Hexagon Head Bolts AS
Code: **EP-AS**

Inserts ES (Steel) with
Hexagon Head Bolts AS
Code: **ES-AS**

Installation with Bolts only

Socket Cap Screws IS (Washers US included)
Code: **IS**

Slotted Head Screws LI (Washers US included)
Code: **LI** (for STAUFF Group 1 to 6 only)

* Special lengths of Socket Cap Screws IS required. For exact lengths, please see details of Hexagon Head Bolt, type AS (for use with Cover Plates DP) on page 28.

⑤ Thread Type

Please select the required thread type and add the corresponding **Code** to position ⑤ of the order code for your clamp assembly.

Metric ISO thread
Code: **M**

Unified coarse (UNC) thread
Code: **U**

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.

⑥ Material & Surface Finishing

Please select the required material & surface finishing of the metal parts and add the corresponding **Code** to position ⑥ of the order code for your clamp assembly.

Metal parts made of Carbon Steel, zinc/nickel-plated **W3**

Metal parts made of Stainless Steel V2A
1.4301 / 1.4305 (AISI 304 / 303) **W4**

Metal parts made of Stainless Steel V4A
1.4401 / 1.4571 (AISI 316 / 316 Ti) **W5**

Weld Plate made of Carbon Steel, phosphated; Other metal parts made of Carbon Steel, zinc/nickel-plated **W10**

Individual combinations of alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

⑦ Assembling & Kitting

If required, please select an additional assembling and kitting option and add the corresponding **Code** to the last position of the order code for your clamp assembly.

Components supplied separately
Code: **none** (standard option)

Components assembled
Code: **A** (special option)

Components packed in kits
Code: **K** (special option)



A



- 2x **Hexagon Head Bolt**
Surface: W3
Thread: Metric
- 1x **Cover Plate**
Surface: W3
- 1x **Clamp Body** (two halves)
STAUFF Group 2 (DIN 2)
O.D. 12,7 mm / .50 in
Material: Polypropylene
Profiled inside surface
with tension clearance
- 1x **Single Weld Plate**
Surface: W2
Thread: Metric

Order Code

SP-212.7-PP-DP-AS-M-W10

W10 is the standard option for this type of installation.



- 2x **Socket Cap Screw**
with Washer
Surface: W3
Thread: Metric
- 1x **Clamp Body** (two halves)
STAUFF Group 2 (DIN 2)
O.D. 12,7 mm / .50 in
Material: Polypropylene
Profiled inside surface
with tension clearance
- 1x **Single Weld Plate**
Surface: W2
Thread: Metric

Order Code

SP-212.7-PP-IS-M-W10

W10 is the standard option for this type of installation.



- 2x **Slotted Head Screw**
with Washer
Surface: W3
Thread: Metric
- 1x **Clamp Body** (two halves)
STAUFF Group 2 (DIN 2)
O.D. 12,7 mm / .50 in
Material: Polypropylene
Profiled inside surface
with tension clearance
- 1x **Single Weld Plate**
Surface: W2
Thread: Metric

Order Code

SP-212.7-PP-LI-M-W10

W10 is the standard option for this type of installation.
Available up to STAUFF Group 6 (DIN Group 6) only.



- 2x **Hexagon Head Bolt**
Surface: W3
Thread: Metric
- 1x **Cover Plate**
Surface: W3
- 1x **Clamp Body** (two halves)
STAUFF Group 2 (DIN 2)
O.D. 12,7 mm / .50 in
Material: Polypropylene
Profiled inside surface
with tension clearance
- 1x **Elongated Weld Plate**
Surface: W2
Thread: Metric

Order Code

SPV-212.7-PP-DP-AS-M-W10

W10 is the standard option for this type of installation.



- 2x **Socket Cap Screw**
with Washer
Surface: W3
Thread: Metric
- 1x **Clamp Body** (two halves)
STAUFF Group 2 (DIN 2)
O.D. 12,7 mm / .50 in
Material: Polypropylene
Profiled inside surface
with tension clearance
- 1x **Elongated Weld Plate**
Surface: W2
Thread: Metric

Order Code

SPV-212.7-PP-IS-M-W10

W10 is the standard option for this type of installation.



- 2x **Slotted Head Screw**
with Washer
Surface: W3
Thread: Metric
- 1x **Clamp Body** (two halves)
STAUFF Group 2 (DIN 2)
O.D. 12,7 mm / .50 in
Material: Polypropylene
Profiled inside surface
with tension clearance
- 1x **Elongated Weld Plate**
Surface: W2
Thread: Metric

Order Code

SPV-212.7-PP-LI-M-W10

W10 is the standard option for this type of installation.
Available up to STAUFF Group 6 (DIN Group 6) only.



- 2x **Hexagon Head Bolt**
Surface: W3
Thread: Metric
- 1x **Cover Plate**
Surface: W3
- 1x **Clamp Body** (two halves)
STAUFF Group 2 (DIN 2)
O.D. 12,7 mm / .50 in
Material: Polypropylene
Profiled inside surface
with tension clearance
- 2x **Hexagon Rail Nut**
Surface: W3
Thread: Metric

Order Code (Mounting Rail TS not included.)

SM-212.7-PP-DP-AS-M-W3

W3 is the standard option for this type of installation.



- 2x **Socket Cap Screw**
with Washer
Surface: W3
Thread: Metric
- 1x **Clamp Body** (two halves)
STAUFF Group 2 (DIN 2)
O.D. 12,7 mm / .50 in
Material: Polypropylene
Profiled inside surface
with tension clearance
- 2x **Hexagon Rail Nut**
Surface: W3
Thread: Metric

Order Code (Mounting Rail TS not included.)

SM-212.7-PP-IS-M-W3

W3 is the standard option for this type of installation.



- 2x **Slotted Head Screw**
with Washer
Surface: W3
Thread: Metric
- 1x **Clamp Body** (two halves)
STAUFF Group 2 (DIN 2)
O.D. 12,7 mm / .50 in
Material: Polypropylene
Profiled inside surface
with tension clearance
- 2x **Hexagon Rail Nut**
Surface: W3
Thread: Metric

Order Code (Mounting Rail TS not included.)

SM-212.7-PP-LI-M-W3

W3 is the standard option for this type of installation.
Available up to STAUFF Group 6 (DIN Group 6) only.





- 2x **Hexagon Head Bolt**
Surface: W3
Thread: Metric
- 1x **Cover Plate**
Surface: W3
- 1x **Clamp Body** (two halves)
STAUFF Group 2 (DIN 2)
O.D. 12,7 mm / .50 in
Material: Polypropylene
Profiled inside surface
with tension clearance

Order Code
212.7-PP-DP-AS-M-W3
W3 is the standard option for this type of installation.


- 2x **Socket Cap Screw**
with Washer
Surface: W3
Thread: Metric
- 1x **Clamp Body** (two halves)
STAUFF Group 2 (DIN 2)
O.D. 12,7 mm / .50 in
Material: Polypropylene
Profiled inside surface
with tension clearance

Order Code
212.7-PP-IS-M-W3
W3 is the standard option for this type of installation.


- 2x **Slotted Head Screw**
with Washer
Surface: W3
Thread: Metric
- 1x **Clamp Body** (two halves)
STAUFF Group 2 (DIN 2)
Tube-O.D. 12,7 mm / .50 in
Material: Polypropylene
Profiled inside surface
with tension clearance

Order Code
212.7-PP-LI-M-W3
W3 is the standard option for this type of installation.


- 2x **Stacking Bolt**
Surface: W3
Thread: Metric
- 1x **Safety Locking Plate**
Surface: W3
- 1x **Clamp Body** (two halves)
STAUFF Group 2 (DIN 2)
O.D. 12,7 mm / .50 in
Material: Polypropylene
Profiled inside surface
with tension clearance

Order Code
212.7-PP-SIG-AF-M-W3
W3 is the standard option for this type of installation.


- 1x **Socket Cap Screw**
with Washer
Surface: W3
Thread: Metric
- 1x **Clamp Body** (two halves)
STAUFF Group 1 (DIN 0)
O.D. 6 mm / .24 in
Material: Polypropylene
Profiled inside surface
with tension clearance
Thread: Metric

Order Code*
SP-106-PP-IS-M-W10
W10 is the standard option for this type of installation.

- 1x **Single Weld Plate**
Surface: W2
Thread: Metric

Thread codes

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.

Metric ISO thread	M
Unified coarse (UNC) thread	U

Material codes

The below listed material codes describe the materials and surface finishings of metal parts that are most relevant for Standard Series clamp assemblies. Individual combinations of alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Metal parts made of Carbon Steel, zinc/nickel-plated	W3
Metal parts made of Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303)	W4
Metal parts made of Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)	W5
Weld Plate made of Carbon Steel, phosphated; Other metal parts made of Carbon Steel, zinc/nickel-plated	W10

Technical Notes

* Because of their design, STAUFF Group 1 (DIN Group 0) clamp assemblies only include one single bolt / screw.



- 2x **Hexagon Head Bolt**
Surface: W3
Thread: Metric
- 2x **Insert**
Material: Plastic
- 1x **Clamp Body** (two halves)
STAUFF Group 2 (DIN 2)
O.D. 12,7 mm / .50 in
Material: Polypropylene
Profiled inside surface
with tension clearance
- 1x **Single Weld Plate**
Surface: W2
Thread: Metric

Order Code
SP-212.7-PP-EP-AS-M-W10
W10 is the standard option for this type of installation.


- 2x **Hexagon Head Bolt**
Surface: W3
Thread: Metric
- 2x **Insert**
Material: Plastic
- 1x **Clamp Body** (two halves)
STAUFF Group 2 (DIN 2)
O.D. 12,7 mm / .50 in
Material: Polypropylene
Profiled inside surface
with tension clearance
- 1x **Elongated Weld Plate**
Surface: W2
Thread: Metric

Order Code
SPV-212.7-PP-EP-AS-M-W10
W10 is the standard option for this type of installation.






Clamp Body
Profiled Inside Surface with Tension Clearance

38



Clamp Body
Smooth Inside Surface without Tension Clearance

40



Clamp Body with Elastomer Insert

42



Noise Reduction Clamp

43



Weld Plate for Single Clamps
SPAL

44



Weld Plate for Double Clamps
SPAS

44



Elongated Weld Plate for Single Clamps
SPAL-DUEB

45



Elongated Weld Plate for Double Clamps
SPAS-DUEB

45



Mounting Rail Nut
GMV

46



Mounting Rail
STSV

46



Channel Rail Adaptor
CRA

47



Cover Plate for Single Clamps
DPAL

50



Cover Plate for Double Clamps
DPAS

50



Hexagon Head Bolt
AS

51



Socket Cap Screw
IS

51



Safety Washer (DIN 93)
SI

52



Safety Washer (DIN 463)
SI

52



Safety Locking Plate
SIP

53



Stacking Bolt
AF

53

Clamp Assemblies

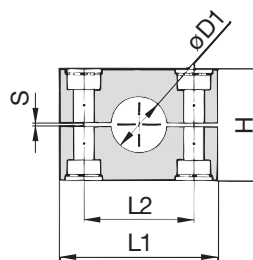
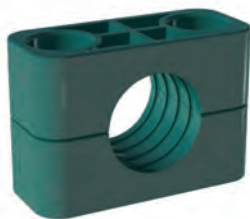
54

B



Clamp Body - Profiled Design

Profiled Inside Surface with Tension Clearance



B

Ordering Codes

Clamp Body

***3*006-*PP**

One clamp body is consisting of two clamp halves.

- * 1st part of STAUFF Group **3**
- * Exact outside diameter Ø D1 (mm) **006**
- * Material code (see below) **PP**

Standard Materials



Polypropylene
Colour: Green
Material code: **PP**



Polypropylene
Colour: Black
Material code: **PP-BK**



Polyamide
Colour: Black
Material code: **PA**



Thermoplastic Elastomer (87 Shore-A)
Colour: Black
Material code: **SA87**



Aluminium
Colour: Self-Colour
Material code: **AL**

See pages 178 / 179 for material properties and technical information.

Special Materials

Please contact STAUFF for further details on fire-proof clamp body materials, tested and approved according to several international fire-protection standards (such as BS 6853, EN 45545-2, UL 94 and many more).

See pages 180 / 181 for material properties and technical information.

Product Features

- Proven, tested and trusted product in various markets
- Recommended for the safe installation of rigid pipes and tubes
- Available for all commonly used pipe and tube outside diameters
- Environmental protection due to vibration/noise reducing design
- Excellent weathering resistance, even under extreme conditions

Group	STAUFF	DIN	Outside Diameter		Nominal Bore		Ordering Codes (2 Clamp Halves) (** = Material)	Dimensions (mm/in)					
			Pipe / Tube Ø D1 (mm)	(in)	Pipe (in)	Copper Tube ASTM B88 (in)		L1 PP/PA/SA	L1 AL	L2	H	S min.	Width
3S	1	6					3006-**-**	55	56	33	32	0,6	30,5
		6,4	1/4			3006.4-**-**							
		8	5/16			3008-**-**							
		9,5	3/8	1/4		3009.5-**-**							
		10		1/8		3010-**-**							
		12				3012-**-**							
		12,7	1/2	3/8		3012.7-**-**							
		13,5		1/4		3013.5-**-**							
		14				3014-**-**							
		15				3015-**-**							
		16	5/8	1/2		3016-**-**							
		17,2		3/8		3017.2-**-**							
		18				3018-**-**							
		20				3020-**-**							
4S	2	19	3/4			4019-**-**	70	70	45	48	0,6	30,5	
		20				4020-**-**							
		21,3		1/2		4021.3-**-**							
		22	7/8	3/4		4022-**-**							
		25				4025-**-**							
		25,4	1			4025.4-**-**							
		26,9		3/4		4026.9-**-**							
		28				4028-**-**							
		30				4030-**-**							
		30				5030-**-**							
5S	3	32	1-1/4			5032-**-**	85	85	60	60	0,6	30,5	
		33,7		1		5033.7-**-**							
		35			1-1/4	5035-**-**							
		38	1-1/2			5038-**-**							
		40				5040-**-**							
		41,3		1-1/2		5041.3-**-**							
		42		1-1/4		5042-**-**							
		38	1-1/2			6038-**-**							
		42		1-1/4		6042-**-**							
		44,5	1-3/4			6044.5-**-**							
6S	4	48,3		1-1/2		6048.3-**-**	115	120	90	89	2	45	
		50,8	2			6050.8-**-**							
		54			2	6054-**-**							
		55				6055-**-**							
		57				6057-**-**							
		57,2	2-1/4			6057.2-**-**							
		60,3		2		6060.3-**-**							
		63,5	2-1/2			6063.5-**-**							
		65				6065-**-**							
		70	2-3/4			6070-**-**							

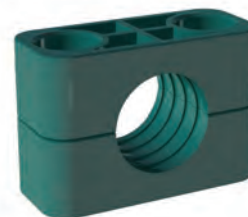
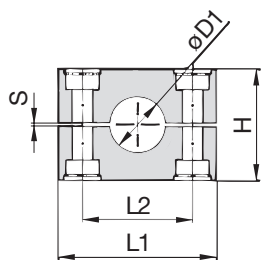
See page 39 for STAUFF Group 7S to 12S (DIN Group 5 to 10).

Additional outside diameters are available upon request. Please contact STAUFF for further information.



Clamp Body - Profiled Design

Profiled Inside Surface with Tension Clearance



B

Group	DIN	Outside Diameter		Nominal Bore	Ordering Codes (2 Clamp Halves) (** = Material)	Dimensions (mm/in)					
		Pipe / Tube Ø D1 (mm)	(in)			Pipe (in)	L1 PP/PA	L1 AL	L2	H	S min.
7S	5	60,3			7060.3-***	154	152	122	120	2	60
		65			7065-***						
		70	2-3/4		7070-***						
		73		2-1/2 (ANSI B 36-10)	7073-***						
		75			7075-***						
		76,1	3	2-1/2 (DIN EN 10220)	7076.1-***						
		80			7080-***						
		82,5			7082.5-***						
8S	6	88,9	3-1/2	3	7088.9-***	206	208	168	168	2	80
		88,9	3-1/2	3	8088.9-***						
		100			8100-***						
		102	4	3-1/2	8102-***						
		108			8108-***						
		114	4-1/2	4	8114-***						
		127	5		8127-***						
		133			8133-***						
9S	7	127	5		9127-***	251	255	205	200	3	91
		133			9133-***						
		140		5	9140-***						
		152	6		9152-***						
		159			9159-***						
		165			9165-***						
10S	8	168		6	9168-***	336	326	265	270	3	120
		177,8			10168-***						
		193,7			10177.8-***						
		203	8		10193.7-***						
		216			10203-***						
11S	9	219		8	10216-***	470	470	395	410	8	162
		219			10219-***						
		273		10	11219-***						
		324		12	11273-***						
12S	10	356		14	11324-***	630	630	534	530	20	182
		406		16	12356-***						
					12406-***	24.80	24.80	21.02	20.87	.79	7.16

Ordering Codes

Clamp Body *7*060.3-*PP

One clamp body is consisting of two clamp halves.

- * 1st part of STAUFF Group **7**
- * Exact outside diameter Ø D1 (mm) **060.3**
- * Material code (see below) **PP**

Standard Materials

- Polypropylene**
Colour: Green
Material code: **PP**
- Polypropylene**
Colour: Black
Material code: **PP-BK**
- Polyamide**
Colour: Black
Material code: **PA**
- Aluminium**
Colour: Self-Colour
Material code: **AL**

See pages 178 / 179 for material properties and technical information.

Special Materials

Please contact STAUFF for further details on fire-proof clamp body materials, tested and approved according to several international fire-protection standards (such as BS 6853, EN 45545-2, UL 94 and many more).

See pages 180 / 181 for material properties and technical information.

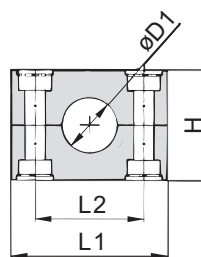
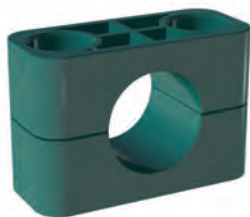
Product Features

- Proven, tested and trusted product in various markets
- Recommended for the safe installation of rigid pipes and tubes
- Available for all commonly used pipe and tube outside diameters
- Environmental protection due to vibration/noise reducing design
- Excellent weathering resistance, even under extreme conditions



Clamp Body - Type H

Smooth Inside Surface without Tension Clearance



B

Ordering Codes

Clamp Body

***3*006-*PP-H**

One clamp body is consisting of two clamp halves.

- * 1st part of STAUFF Group **3**
- * Exact outside diameter Ø D1 (mm) **006**
- * Material code (see below) **PP-H**

Standard Materials



Polypropylene

Colour: Green

Material code: **PP-H**



Polypropylene

Colour: Green

Material code: **PP-H-BK**



Polyamide

Colour: Black

Material code: **PA-H**



Thermoplastic Elastomer (87 Shore-A)

Colour: Black

Material code: **SA87-H**

See pages 178 / 179 for material properties and technical information.

Special Materials

Please contact STAUFF for further details on fire-proof clamp body materials, tested and approved according to several international fire-protection standards (such as BS 6853, EN 45545-2, UL 94 and many more).

See pages 180 / 181 for material properties and technical information.

Product Features

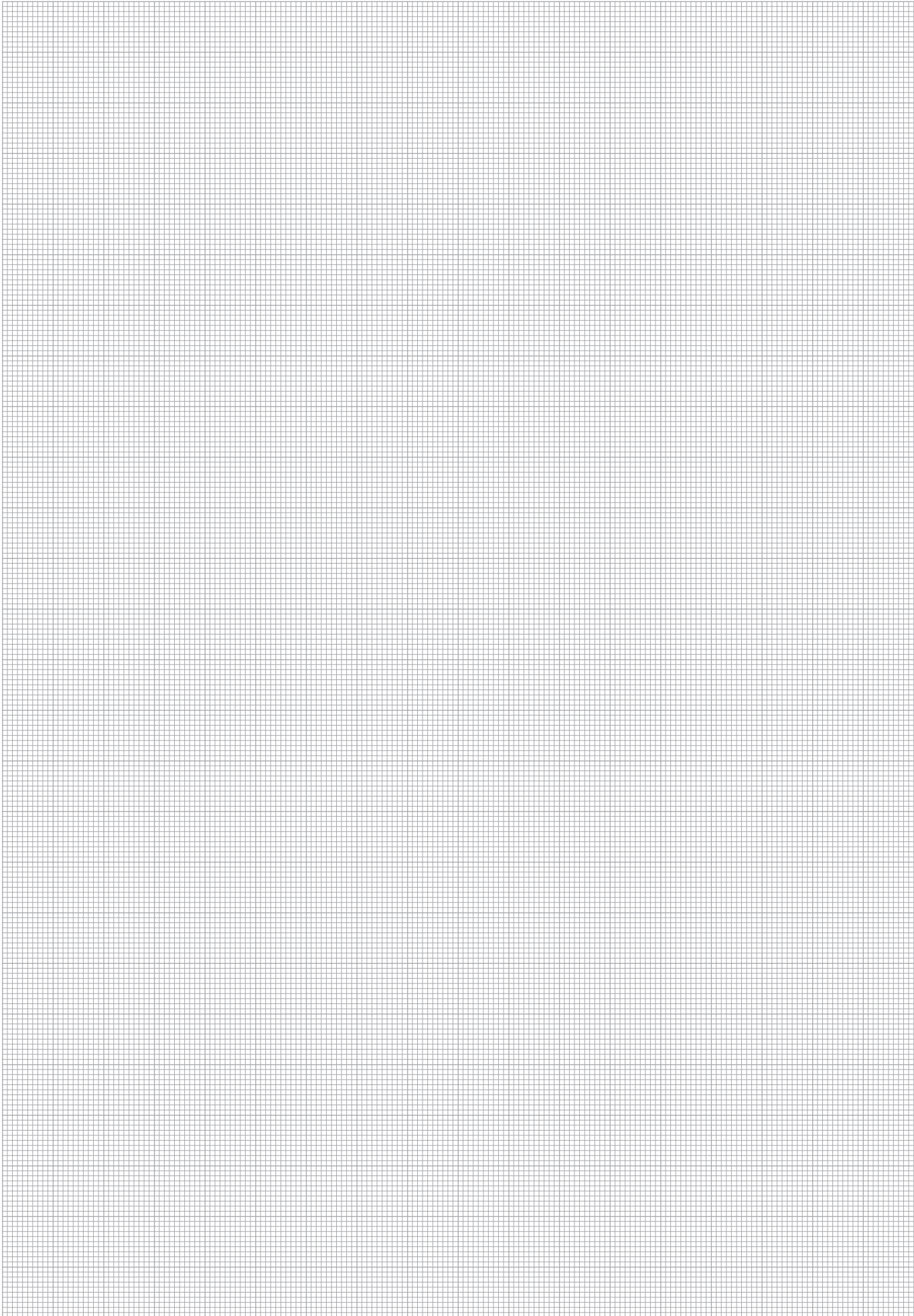
- Proven, tested and trusted product in various markets
- Recommended for the safe installation of hoses and cables
- Chamfered edges avoid damaging of the hose or cable
- Available for all commonly used hose and cable outside diameters
- Excellent weathering resistance, even under extreme conditions

Group	STAUFF	DIN	Outside Diameter		Ordering Codes (2 Clamp Halves) (*-*H = Material)	Dimensions (^{mm} / _{in})			
			Hose Ø D1 (mm)	(in)		L1	L2	H	Width
3S	1	6			3006-**-H	55 2.16	33 1.30	30,5 1.20	30,5 1.20
		6,4	1/4	3006.4-**-H					
		8	5/16	3008-**-H					
		9,5	3/8	3009.5-**-H					
		10		3010-**-H					
		12		3012-**-H					
		12,7	1/2	3012.7-**-H					
		13,5		3013.5-**-H					
		14		3014-**-H					
		15		3015-**-H					
		16	5/8	3016-**-H					
		17,2		3017.2-**-H					
		18		3018-**-H					
4S	2	19	3/4	4019-**-H	70 2.76	45 1.77	46,5 1.83	30,5 1.20	
		20		4020-**-H					
		21,3		4021.3-**-H					
		22	7/8	4022-**-H					
		25		4025-**-H					
		25,4	1	4025.4-**-H					
		26,9		4026.9-**-H					
28		4028-**-H							
30		4030-**-H							
5S	3	30		5030-**-H	85 3.35	60 2.36	58 2.28	30,5 1.20	
		32	1-1/4	5032-**-H					
		33,7		5033.7-**-H					
		35		5035-**-H					
		38	1-1/2	5038-**-H					
		40		5040-**-H					
6S	4	41,3		5041.3-**-H	115 4.53	90 3.54	87 3.43	45 1.77	
		42		5042-**-H					
		38	1-1/2	6038-**-H					
		42		6042-**-H					
		44,5	1-3/4	6044.5-**-H					
		48,3		6048.3-**-H					
		50,8	2	6050.8-**-H					
		55		6055-**-H					
		57		6057-**-H					
		57,2	2-1/4	6057.2-**-H					
60,3		6060.3-**-H							
63,5	2-1/2	6063.5-**-H							
65		6065-**-H							
70	2-3/4	6070-**-H							

Additional outside diameters are available upon request. Please contact STAUFF for further information.

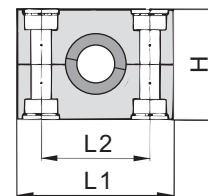
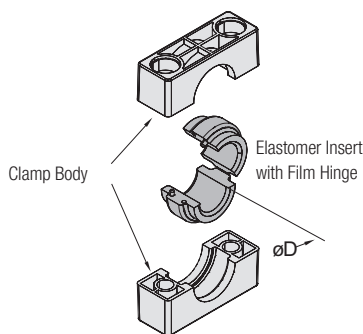


B



Clamp Body with Elastomer Insert Type RI

B



Ordering Codes

Clamp Assembly *4*006-*PP-R

One assembly is consisting of one clamp body and one insert.

- * 1st part of STAUFF Group **4**
- * Exact outside diameter Ø D (mm) **006**
- * Material code (see below) **PP-R**

Clamp Body *4S-*PP-R

One clamp body is consisting of two clamp halves.

- * STAUFF Group **4S**
- * Material code (see below) **PP-R**

Elastomer Insert *RI-*06-*4/4S-*SA73

- * Elastomer Insert **RI**
- * Exact outside diameter Ø D (mm) **06**
- * STAUFF Group 4S (Heavy) and 4 (Standard) **4/4S**
- 5S (Heavy) and 6 (Standard) **6/5S**
- 6S (Heavy) **6S**
- 7S (Heavy) **7S**
- 8S (Heavy) **8S**
- 9S (Heavy) **9S**
- 10S (Heavy) **10S**
- * Material code (see below) **SA73**

Standard Materials



Polypropylene
Colour: Black
Material code: **PP-R**



Polyamide
Colour: Black
Material code: **PA-R**



Elastomer Insert
4S to 6S: **Thermoplastic Elastomer** (73 Shore-A)
Material code: **SA73**
8S to 10S: **EPDM** (70 Shore-A)
Material code: **E70**
Colour: Black

See pages 178 / 179 for material properties and technical information.

Special Materials

Please contact STAUFF for further details on fire-proof clamp body materials, tested and approved according to several international fire-protection standards (such as BS 6853, EN 45545-2, UL 94 and many more).

See pages 180 / 181 for material properties and technical information.

Group	STAUFF	DIN	Outside Diameter		Ordering Codes (* = Material Clamp Assembly (Clamp Body + Insert)	(* = Material Clamp Body (2 Clamp Halves)	Insert *	Dimensions (mm/in)				
			Pipe / Tube / Hose Ø D (mm)	(in)				Ø D1	L1	L2	H	Width
4S	2	6			4006-*R	4S-*R	RI-06-4/4S-*	25.98	70.276	45.177	46.51.83	30.51.20
		8	5/16	4008-*R	RI-08-4/4S-*							
		10		4010-*R	RI-10-4/4S-*							
		12		4012-*R	RI-12-4/4S-*							
		12,7	1/2	4012.7-*R	RI-12.7-4/4S-*							
		14		4014-*R	RI-14-4/4S-*							
		15		4015-*R	RI-15-4/4S-*							
		16	5/8	4016-*R	RI-16-4/4S-*							
		17,2		4017.2-*R	RI-17.2-4/4S-*							
		18		4018-*R	RI-18-4/4S-*							
5S	3	20			5020-*R	5S-*R	RI-20-6/5S-*	38.150	85.335	60.236	58.228	30.51.20
		21,3		5021.3-*R	RI-21.3-6/5S-*							
		22	7/8	5022-*R	RI-22-6/5S-*							
		25		5025-*R	RI-25-6/5S-*							
		26,9		5026.9-*R	RI-26.9-6/5S-*							
		28		5028-*R	RI-28-6/5S-*							
		30		5030-*R	RI-30-6/5S-*							
		32	1-1/4	5032-*R	RI-32-6/5S-*							
		32	1-1/4	6032-*R	RI-32-6S-*							
		33,7		6033.7-*R	RI-33.7-6S-*							
6S	4	35			6035-*R	6S-*R	RI-35-6S-*	64.252	115.453	90.354	87.343	45.177
		38,7		6038.7-*R	RI-38.7-6S-*							
		40		6040-*R	RI-40-6S-*							
		42		6042-*R	RI-42-6S-*							
		45,5		6045.5-*R	RI-45.5-6S-*							
		48		6048-*R	RI-48-6S-*							
		51	2	6051-*R	RI-51-6S-*							
		53,4		6053.4-*R	RI-53.4-6S-*							
		56,4		6056.4-*R	RI-56.4-6S-*							
		7S	5	55								
57	2-1/4			7057-*R	RI-57-7S-*							
60				7060-*R	RI-60-7S-*							
63,5	2-1/2			7063.5-*R	RI-63.5-7S-*							
65				7065-*R	RI-65-7S-*							
70	2-3/4			7070-*R	RI-70-7S-*							
72				7072-*R	RI-72-7S-*							
76	3			7076-*R	RI-76-7S-*							
8S	6	80			8080-*R	8S-*R	RI-80-8S-*	114.449	208.811	168.661	168.661	80.315
		88,9	3-1/2	8088.9-*R	RI-88.9-8S-*							
		102		8102-*R	RI-102-8S-*							
9S	7	114			9114-*R	9S-*R	RI-114-9S-*	150.591	251.988	205.807	200.787	91.358
		133	5-1/4	9133-*R	RI-133-9S-*							
		140		9140-*R	RI-140-9S-*							
10S	8	150			10150-*R	10S-*R	RI-150-10S-*	200.787	336.1322	265.1043	270.1063	120.472
		165		10165-*R	RI-165-10S-*							
		168		10168-*R	RI-168-10S-*							
		172		10172-*R	RI-172-10S-*							

* Elastomer Inserts for Heavy Series clamp bodies, STAUFF Group 4S also fit into Standard Series clamp bodies, STAUFF Group 4. Elastomer Inserts for Heavy Series clamp bodies, STAUFF Group 5S also fit into Standard Series clamp bodies, STAUFF Group 6.

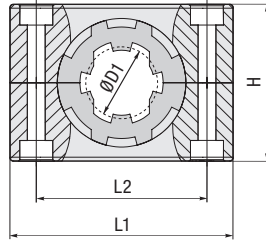
Additional outside diameters are available upon request. Please contact STAUFF for further information.

Product Features

- Proven, tested and trusted product in various markets
- Either for the extra vibration/noise reducing installation of pipes and tubes or the extra gentle installation of hoses and cables
- Available for all commonly used outside diameters
- Excellent weathering resistance, even under extreme conditions



Noise Reduction Clamp
Type NRC



B

Group	STAUFF	DIN	Outside Diameter		Ordering Codes (* = Material)	Dimensions (mm/in)		Width	Bolts
			Pipe / Tube Ø D1 (mm)	(in)		L1	L2		
3S	1	6		3006-PP-NRC	3S-PP-RI-S/NRC	RI-NRC-06-3S-*	55	33	30,5
		8	5/16	3008-PP-NRC		RI-NRC-08-3S-*			
		10		3010-PP-NRC		RI-NRC-10-3S-*			
		12		3012-PP-NRC		RI-NRC-12-3S-*			
4S	2	12,7	1/2	3012.7-PP-NRC	4S-PP-RI-S/NRC	RI-NRC-12.7-3S-*	2,17	1,30	1,20
		14		4014-PP-NRC		RI-NRC-14-4S-*			
		15		4015-PP-NRC		RI-NRC-15-4S-*			
		16	5/8	4016-PP-NRC		RI-NRC-16-4S-*			
		17,2		4017.2-PP-NRC		RI-NRC-17.2-4S-*			
		18		4018-PP-NRC		RI-NRC-18-4S-*			
		19	3/4	4019-PP-NRC		RI-NRC-19-4S-*			
		20		4020-PP-NRC		RI-NRC-20-4S-*			
		21,3		4021.3-PP-NRC		RI-NRC-21.3-4S-*			
		22	7/8	4022-PP-NRC		RI-NRC-22-4S-*			
5S	3	25		5025-PP-NRC	5S-PP-RI-S/NRC	RI-NRC-25-5S-*	70	45	48
		26,9		5026.9-PP-NRC		RI-NRC-26.9-5S-*			
		28		5028-PP-NRC		RI-NRC-28-5S-*			
		30		5030-PP-NRC		RI-NRC-30-5S-*			
		32	1-1/4	5032-PP-NRC		RI-NRC-32-5S-*			
		38	1-1/2	5038-PP-NRC		RI-NRC-38-5S-*			
6S	4	33,7		6033.7-PP-NRC	6S-PP-RI-S/NRC	RI-NRC-33.7-6S-*	85	60	58
		35		6035-PP-NRC		RI-NRC-35-6S-*			
		38	1-1/2	6038-PP-NRC		RI-NRC-38-6S-*			
		38,7		6038.7-PP-NRC		RI-NRC-38.7-6S-*			
		40		6040-PP-NRC		RI-NRC-40-6S-*			
		42		6042-PP-NRC		RI-NRC-42-6S-*			
		45,5		6045.5-PP-NRC		RI-NRC-45.5-6S-*			
		48		6048-PP-NRC		RI-NRC-48-6S-*			
		51		6051-PP-NRC		RI-NRC-51-6S-*			
		53,4		6053.4-PP-NRC		RI-NRC-53.4-6S-*			
		57		6057-PP-NRC		RI-NRC-57-6S-*			
		60		6060-PP-NRC		RI-NRC-60-7S-*			
7S	5	63,5		6063.5-PP-NRC	7S-PP-RI-S/NRC	RI-NRC-63,5-7S-*	115	90	85
		65		6065-PP-NRC		RI-NRC-65-7S-*			
		70	2-3/4	6070-PP-NRC		RI-NRC-70-7S-*			
		72		6072-PP-NRC		RI-NRC-72-8S-*			
8S	6	76		6076-PP-NRC	8S-PP-RI-S/NRC	RI-NRC-76-8S-*	4,53	3,54	3,35
		80		6080-PP-NRC		RI-NRC-80-8S-*			
		88,9	3-1/2	6088.9-PP-NRC		RI-NRC-88.9-8S-*			

Additional outside diameters are available upon request. Please contact STAUFF for further information.

Product Features

- Designed for the noise and vibration reducing installation of pipes and tubes
- Working principle based on a specially shaped, two-part elastomer insert, which mechanically absorbs vibration in the pipe or tube and as a result reduces noises arising to a minimum
- Elastomer insert is in particular distinguished by how little of its surface is in contact with the pipe or tube as well as with the clamp body
- Light tension of the elastomer insert in mounted condition provides the necessary clamping force
- Tongue-groove contour of the elastomer insert and the clamp body (which is reversed and thus diverges from heavy series DIN 3015 clamps with elastomer insert) enables the system to be used for the maximum range of outside diameters per clamp size

Elastomer Inserts for multi-spiral hydraulic hoses (on request)

- Designed for the noise and vibration reducing installation of multi-spiral hydraulic hoses
- Multi-spiral hydraulic hoses retains a certain defined "freedom of movement" in the radial direction, so that tolerance can be compensated and the outer diameter of the hose can change to the necessary extent due to the pressure pulsation
- Elastomer insert has been adapted to hydraulic hoses in terms of its contour (much larger outlet radii and longitudinal ribs) and elasticity
- Longitudinal ribs in the elastomer insert allow the compensation of changes in the diameter of the hose while at the same time ensuring gentle yet stable fixation

Ordering Codes

Clamp Assembly *3*006-*PP-*NRC

One assembly is consisting of one clamp body and one insert.

- * STAUFF Group **3**
- * Exact outside diameter Ø D1 (mm) **006**
- * Material code (siehe unten) **PP**
- * Insert **NRC**

NRC Clamp Body *3S-*PP-*RI-S/NRC

One NRC clamp body is consisting of two clamp halves.

- * STAUFF Group **3**
- * Material code (see below) **PP**
- * Clamp Design **RI-S/NRC**

NRC Elastomer Insert

*RI-NRC-*06-*3S-*SA73

One NRC elastomer insert is consisting of two insert halves.

- * NRC Elastomer Insert **RI-NRC**
- * Exact outside diameter ØD1 (mm) **06**
- * STAUFF Group **3S**
- * Material code (siehe unten) **SA73**

Standard Materials

- Polypropylene**
Colour: Black
Material code: **PP**
- Elastomer Insert**
Thermoplastic Elastomer (73 Shore-A)
Colour: Black
Material code: **SA73**

See pages 178 / 179 for material properties and technical information.

Alternative materials are available upon request. Please contact STAUFF for further information.

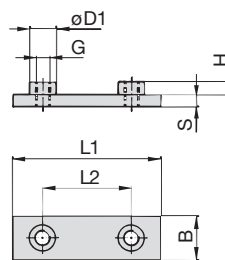
Special Materials

Please contact STAUFF for further details on fire-proof clamp body materials, tested and approved according to several international fire-protection standards (such as BS 6853, EN 45545-2, UL 94 and many more).

See pages 180 / 181 for material properties and technical information.



Weld Plate for Single Clamps Type SPAL



B

Ordering Codes

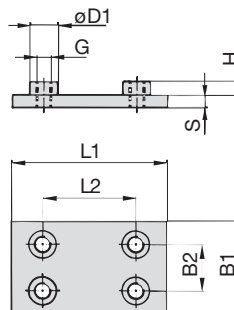
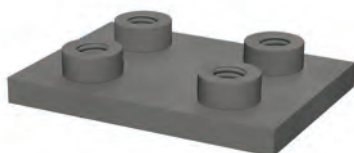
Weld Plate *SPAL-*3S-*M-*W2

* Weld Plate for Single Clamps		SPAL
* STAUFF Group		3S
* Thread code	Metric ISO thread	M
	Unified coarse (UNC) thread	U
* Material code	Carbon Steel, uncoated	W1
	Carbon Steel, phosphated	W2
	Carbon Steel, zinc/nickel-plated	W3
	Stainless Steel V2A	W4
	1.4301 / 1.4305 (AISI 304 / 303)	
	Stainless Steel V4A	W5
	1.4401 / 1.4571 (AISI 316 / 316 Ti)	

Group STAUFF	DIN	Dimensions (mm/m)						Thread G	ØD1	Ordering Codes (Standard Options)
		L1	L2	B	S	H				
3S	1	74	33	30	8	8	M10	18	SPAL-3S-M-W2	
		2.91	1.30	1.18	.31	.31	3/8-16 UNC	.71	SPAL-3S-U-W2	
4S	2	86	45	30	8	8	M10	18	SPAL-4S-M-W2	
		3.39	1.77	1.18	.31	.31	3/8-16 UNC	.71	SPAL-4S-U-W2	
5S	3	100	60	30	8	8	M10	18	SPAL-5S-M-W2	
		3.94	2.36	1.18	.31	.31	3/8-16 UNC	.71	SPAL-5S-U-W2	
6S	4	140	90	45	10	8	M12	20	SPAL-6S-M-W2	
		5.51	3.54	1.77	.39	.31	7/16-14 UNC	.78	SPAL-6S-U-W2	
7S	5	180	122	60	10	12	M16	24	SPAL-7S-M-W2	
		7.09	4.80	2.36	.39	.47	5/8-11 UNC	.94	SPAL-7S-U-W2	
8S	6	226	168	80	15	18	M20	30	SPAL-8S-M-W1	
		8.90	6.61	3.15	.59	.71	3/4-10 UNC	1.18	SPAL-8S-U-W1	
9S	7	270	205	90	15	21	M24	35	SPAL-9S-M-W1	
		10.63	8.07	3.54	.59	.83	7/8-9 UNC	1.38	SPAL-9S-U-W1	
10S	8	340	265	120	25	21	M30	45	SPAL-10S-M-W1	
		13.39	10.43	4.72	.98	.83	1-1/8-7 UNC	1.77	SPAL-10S-U-W1	
11S	9	520	395	160	30	38	M30	50	SPAL-11S-M-W1	
		20.47	15.55	6.30	1.18	1.50	1-1/4-7 UNC	1.97	SPAL-11S-U-W1	
12S	10	680	534	180	30	38	M30	50	SPAL-12S-M-W1	
		27.16	21.02	7.09	1.18	1.50	1-1/4-7 UNC	1.97	SPAL-12S-U-W1	

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Weld Plate for Double Clamps Type SPAS



Ordering Codes

Weld Plate *SPAS-*3S-*M-*W2

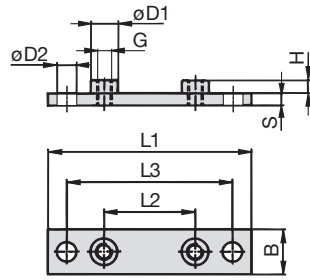
* Weld Plate for Double Clamps		SPAS
* STAUFF Group		3S
* Thread code	Metric ISO thread	M
	Unified coarse (UNC) thread	U
* Material code	Carbon Steel, uncoated	W1
	Carbon Steel, phosphated	W2
	Carbon Steel, zinc/nickel-plated	W3
	Stainless Steel V2A	W4
	1.4301 / 1.4305 (AISI 304 / 303)	
	Stainless Steel V4A	W5
	1.4401 / 1.4571 (AISI 316 / 316 Ti)	

Group STAUFF	DIN	Dimensions (mm/m)						Thread G	ØD1	Ordering Codes (Standard Options)
		L1	L2	B1	B2	S	H			
3S	1	74	33	60	30.5	8	8	M10	18	SPAS-3S-M-W2
		2.91	1.30	2.36	1.20	.31	.31	3/8-16 UNC	.71	SPAS-3S-U-W2
4S	2	86	45	60	30.5	8	8	M10	18	SPAS-4S-M-W2
		3.39	1.77	2.36	1.20	.31	.31	3/8-16 UNC	.71	SPAS-4S-U-W2
5S	3	100	60	60	30.5	8	8	M10	18	SPAS-5S-M-W2
		3.94	2.36	2.36	1.20	.31	.31	3/8-16 UNC	.71	SPAS-5S-U-W2
6S	4	140	90	90	46	10	8	M12	20	SPAS-6S-M-W2
		5.51	3.54	3.54	1.81	.39	.31	7/16-14 UNC	.78	SPAS-6S-U-W2
7S	5	180	122	120	61	10	12	M16	24	SPAS-7S-M-W2
		7.09	4.80	4.72	2.40	.39	.47	5/8-11 UNC	.94	SPAS-7S-U-W2
8S	6	226	168	160	81	15	18	M20	30	SPAS-8S-M-W1
		8.90	6.61	6.61	3.19	.59	.71	3/4-10 UNC	1.18	SPAS-8S-U-W1
9S	7	270	205	180	91	15	21	M24	35	SPAS-9S-M-W1
		10.63	8.07	7.09	3.58	.59	.83	7/8-9 UNC	1.38	SPAS-9S-U-W1
10S	8	340	265	240	121	25	21	M30	45	SPAS-10S-M-W1
		13.39	10.43	9.45	4.78	.98	.83	1-1/8-7 UNC	1.77	SPAS-10S-U-W1
11S	9	520	395	324	166	30	38	M30	50	SPAS-11S-M-W1
		20.47	15.55	12.76	6.54	1.18	1.50	1-1/4-7 UNC	1.97	SPAS-11S-U-W1
12S	10	680	534	364	186	30	38	M30	50	SPAS-12S-M-W1
		27.16	21.02	14.33	7.32	1.18	1.50	1-1/4-7 UNC	1.97	SPAS-12S-U-W1

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



Elongated Weld Plate for Single Clamps
Type SPAL-DUEB



B

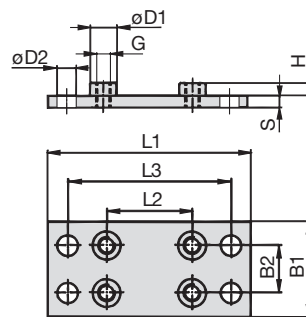
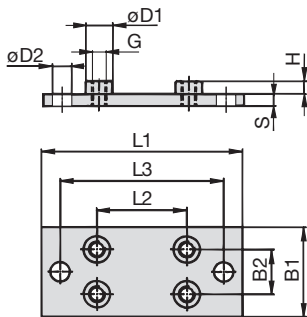
Group STAUFF	DIN	Dimensions (mm/m)							Ordering Codes (Standard Options)		
		L1	L2	L3	B	S	H	Thread G	ØD1	ØD2	
3S	1	113	33	85	30	8	8	M10	18	13	SPAL-DUEB-3S-M-W2
		4.45	1.30	3.35	1.18	.31	.31	3/8-16 UNC	.71	.51	SPAL-DUEB-3S-U-W2
4S	2	125	45	97	30	8	8	M10	18	13	SPAL-DUEB-4S-M-W2
		4.92	1.77	3.82	1.18	.31	.31	3/8-16 UNC	.71	.51	SPAL-DUEB-4S-U-W2
5S	3	140	60	112	30	8	8	M10	18	13	SPAL-DUEB-5S-M-W2
		5.51	2.36	4.41	1.18	.31	.31	3/8-16 UNC	.71	.51	SPAL-DUEB-5S-U-W2
6S	4	187	90	155	45	10	8	M12	20	16	SPAL-DUEB-6S-M-W2
		7.36	3.54	6.10	1.77	.39	.31	7/16-14 UNC	.78	.62	SPAL-DUEB-6S-U-W2
7S	5	238	122	198	60	10	12	M16	24	21	SPAL-DUEB-7S-M-W2
		9.37	4.80	7.80	2.36	.39	.47	5/8-11 UNC	.94	.83	SPAL-DUEB-7S-U-W2
8S	6	309	168	259	80	15	18	M20	30	26	SPAL-DUEB-8S-M-W1
		12.17	6.61	10.20	3.15	.59	.71	3/4-10 UNC	1.18	1.02	SPAL-DUEB-8S-U-W1
9S	7	370	205	310	90	15	21	M24	35	31	SPAL-DUEB-9S-M-W1
		14.57	8.07	12.20	3.54	.59	.83	7/8-9 UNC	1.38	1.22	SPAL-DUEB-9S-U-W1
10S	8	460	265	400	120	25	21	M30	45	31	SPAL-DUEB-10S-M-W1
		18.11	10.43	15.75	4.72	.98	.83	1-1/8-7 UNC	1.77	1.22	SPAL-DUEB-10S-U-W1
11S	9	590	395	530	160	30	38	M30	50	31	SPAL-DUEB-11S-M-W1
		23.23	15.55	20.87	6.30	1.18	1.50	1-1/4-7 UNC	1.97	1.22	SPAL-DUEB-11S-U-W1
12S	10	750	534	690	180	30	38	M30	50	31	SPAL-DUEB-12S-M-W1
		29.53	21.02	27.17	7.09	1.18	1.50	1-1/4-7 UNC	1.97	1.22	SPAL-DUEB-12S-U-W1

Ordering Codes

Weld Plate *SPAL-DUEB-*3S-*M-*W2

- * Elongated Weld Plate for Single Clamps **SPAL-DUEB**
- * STAUFF Group **3S**
- * Thread code Metric ISO thread **M**
Unified coarse (UNC) thread **U**
- * Material code Carbon Steel, uncoated **W1**
Carbon Steel, phosphated **W2**
Carbon Steel, zinc/nickel-plated **W3**
Stainless Steel V2A **W4**
1.4301 / 1.4305 (AISI 304 / 303)
Stainless Steel V4A **W5**
1.4401 / 1.4571 (AISI 316 / 316 Ti)

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



Elongated Weld Plate for Double Clamps
Type SPAS-DUEB



Design for STAUFF Group 10S to 12S

STAUFF Group 3S to 9S

STAUFF Group 10S to 12S

Group STAUFF	DIN	Dimensions (mm/m)							Ordering Codes (Standard Options)			
		L1	L2	L3	B1	B2	S	H	Thread G	ØD1	ØD2	
3S	1	113	33	85	60	30.5	8	8	M10	18	13	SPAS-DUEB-3S-M-W2
		4.45	1.30	3.35	2.36	1.20	.31	.31	3/8-16 UNC	.71	.51	SPAS-DUEB-3S-U-W2
4S	2	125	45	97	60	30.5	8	8	M10	18	13	SPAS-DUEB-4S-M-W2
		4.92	1.77	3.82	2.36	1.20	.31	.31	3/8-16 UNC	.71	.51	SPAS-DUEB-4S-U-W2
5S	3	140	60	112	60	30.5	8	8	M10	18	13	SPAS-DUEB-5S-M-W2
		5.51	2.36	4.41	2.36	1.20	.31	.31	3/8-16 UNC	.71	.51	SPAS-DUEB-5S-U-W2
6S	4	187	90	155	90	46	10	8	M12	20	16	SPAS-DUEB-6S-M-W2
		7.36	3.54	6.10	3.54	1.81	.39	.31	7/16-14 UNC	.78	.62	SPAS-DUEB-6S-U-W2
7S	5	238	122	198	120	61	10	12	M16	24	21	SPAS-DUEB-7S-M-W2
		9.37	4.80	7.80	4.72	2.40	.39	.47	5/8-11 UNC	.94	.83	SPAS-DUEB-7S-U-W2
8S	6	309	168	259	160	81	15	18	M20	30	26	SPAS-DUEB-8S-M-W1
		12.17	6.61	10.20	6.61	3.19	.59	.71	3/4-10 UNC	1.18	1.02	SPAS-DUEB-8S-U-W1
9S	7	370	205	310	180	91	15	21	M24	35	31	SPAS-DUEB-9S-M-W1
		14.57	8.07	12.20	7.09	3.58	.59	.83	7/8-9 UNC	1.38	1.22	SPAS-DUEB-9S-U-W1
10S	8	460	265	400	240	121	25	21	M30	45	31	SPAS-DUEB-10S-M-W1
		18.11	10.43	15.75	9.45	4.78	.98	.83	1-1/8-7 UNC	1.77	1.22	SPAS-DUEB-10S-U-W1
11S	9	590	395	530	324	166	30	38	M30	50	31	SPAS-DUEB-11S-M-W1
		23.23	15.55	20.87	12.76	6.54	1.18	1.50	1-1/4-7 UNC	1.97	1.22	SPAS-DUEB-11S-U-W1
12S	10	750	534	690	364	186	30	38	M30	50	31	SPAS-DUEB-12S-M-W1
		29.53	21.02	27.17	14.33	7.32	1.18	1.50	1-1/4-7 UNC	1.97	1.22	SPAS-DUEB-12S-U-W1

Ordering Codes

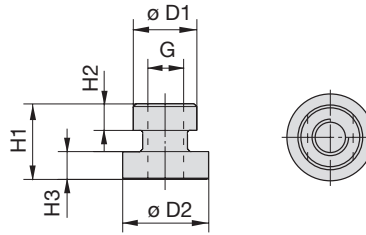
Weld Plate *SPAS-DUEB-*3S-*M-*W2

- * Elongated Weld Plate for Double Clamps **SPAS-DUEB**
- * STAUFF Group **3S**
- * Thread code Metric ISO thread **M**
Unified coarse (UNC) thread **U**
- * Material code Carbon Steel, uncoated **W1**
Carbon Steel, phosphated **W2**
Carbon Steel, zinc/nickel-plated **W3**
Stainless Steel V2A **W4**
1.4301 / 1.4305 (AISI 304 / 303)
Stainless Steel V4A **W5**
1.4401 / 1.4571 (AISI 316 / 316 Ti)

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



Mounting Rail Nut
(for Use with Mounting Rail STSV)
Type GMV



B

Ordering Codes

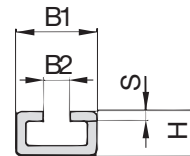
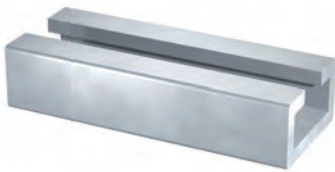
Mounting Rail Nut *GMV-*3-5S*M-*W3

- * Mounting Rail Nut **GMV**
- * STAUFF Group 3S to 5S (DIN Group 1 to 3) **3-5S**
6S (DIN Group 4) **6S**
- * Thread code Metric ISO thread **M**
Unified coarse (UNC) thread **U**
- * Material code Carbon Steel, zinc/nickel-plated **W3**
Stainless Steel V2A **W4**
1.4301 / 1.4305 (AISI 304 / 303)
Stainless Steel V4A **W5**
1.4401 / 1.4571 (AISI 316 / 316 Ti)

Group STAUFF	DIN	Dimensions (mm/in)					Thread G	Ordering Codes (Standard Options)
		ØD1	ØD2	H1	H2	H3		
3S	1							
4S	2	17,8 .70	24 .94	21 .83	7,6 .30	7,4 .29	M10 3/8-16 UNC	GMV-3-5S-M-W3 GMV-3-5S-U-W3
5S	3							
6S	4	19,8 .78	24 .94	23 .91	8,8 .35	8,8 .35	M12 7/16-14 UNC	GMV-6S-M-W3 GMV-6S-U-W3

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Mounting Rail
(for Use with Mounting Rail Nut GMV)
Type STSV



Ordering Codes

Mounting Rail *STSV-*1M-*W1

- * Mounting Rail **STSV**
- * Length of rail 1 m / 3.28 ft **1M**
2 m / 6.56 ft **2M**
Alternative lengths available upon request. Contact STAUFF for further information.
- * Material code Carbon Steel, uncoated **W1**
Carbon Steel, zinc-plated, blue-chromated **W32**
Stainless Steel V4A **W5**
1.4401 / 1.4571 (AISI 316 / 316 Ti)

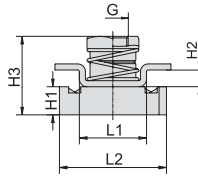
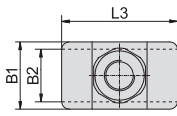
Group STAUFF	DIN	Dimensions (mm/in)				Ordering Codes (Standard Options)	
		B1	B2	H	S	Length of Rail: 1 m / 3.28ft	Length of Rail: 2 m / 6.56ft
3S	1						
4S	2	40	13	22	5	STSV -1M-W1	STSV -2M-W1
5S	3	1.57	.51	.86	.19		
6S	4						

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



Channel Rail Adaptor
(for Use with Various Channel Rails)
Type CRA

B



Group STAUFF	DIN	Dimensions (mm/m)									Ordering Codes (Standard Options)		
		Thread G	L1	L2	L3	B1	B2	H1	H2	H3			
3S	1												
4S	2	M10	22	35	38	22	20,5	9,2	5,5	27,5	CRA-3-5S-M-W3		
		3/8-16 UNC	.87	1.38	1.50	.87	.81	.36	.22	1.08	CRA-3-5S-U-W3		
5S	3												
6S	4	M12	21,5	35	45	25	19	9,2	5	24,5	CRA-6S-M-W3		
		7/16-14 UNC	.85	1.38	1.77	.98	.75	.36	.20	.57	CRA-6S-U-W3		

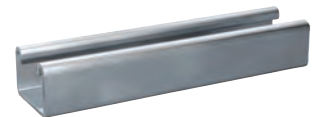
Ordering Codes

Adaptor ***CRA-*3-5S-*M-*W3**

- * Channel Rail Adaptor **CRA**
- * STAUFF Group 3S to 5S (DIN Group 1 to 3) **3-5S**
6S (DIN Group 4) **6S**
- * Thread code Metric ISO thread **M**
Unified coarse (UNC) thread **U**
- * Material code Carbon Steel, zinc/nickel-plated **W3**
Stainless Steel V4A **W5**
1.4401 / 1.4571 (AISI 316 / 316 Ti)

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

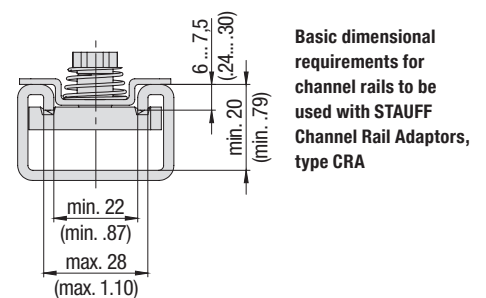
Compatibility with Channel Rails



The STAUFF Channel Rail Adaptor, type CRA is suitable for various channel rails, including the following types:

HALFEN	HILTI	UNISTRUT®	STAUFF (Cushion Clamp Series)
HM 41/41	MQ-21, MQ-41, MQ-52, MQ-72	P1000, P1000T, P1000V, P1000VT, P1001	SCS-048-1-PL, SCS-048-1-GR
HZA 41/22	MQ-21U, MQ-41U, MQ-72U	P2000, P2000T	SCS-120-1-PL, SCS-120-1-GR
HZM 41/41	MQ-21D, MQ-41D, MQ-52-72D	P3003, P3003T, P3300V, P3300VT, P3301	See page 149 for technical information.
HZM 41/22		P4000, P4000T	
HL 41/41, HL 41/B2		P5000, P5000T, P5001, P5500, P5500T, P5501	

Contact STAUFF to check compatibility with additional types of channel rails.



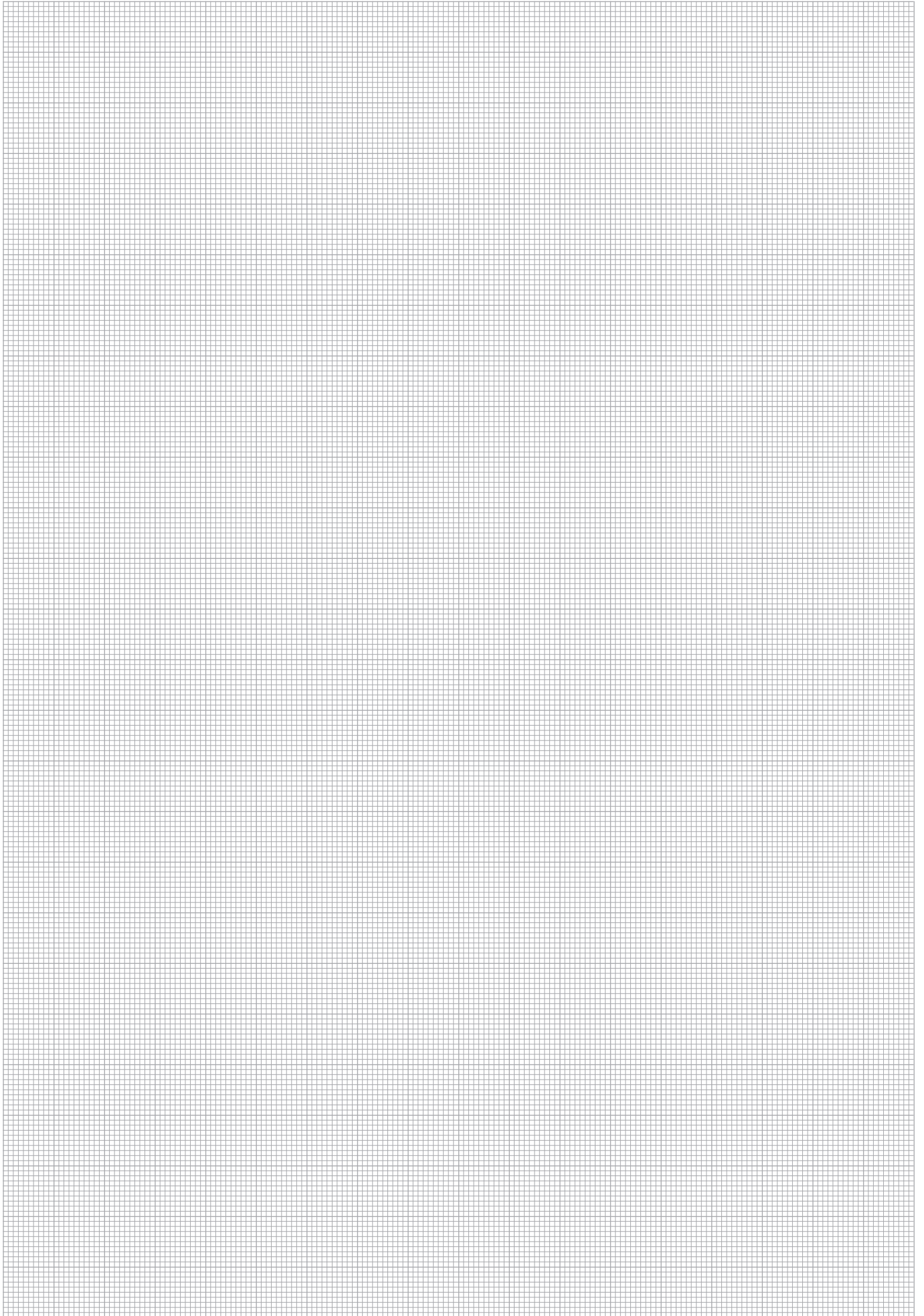
Recommended Bolt Lengths when using the Channel Rail Adaptor, Type CRA

Group STAUFF	DIN	Hexagon Head Bolts AS (used with Cover Plates DPAL or DPAS)		Socket Cap Screws IS (used without Cover Plates DPAL or DPAS)	
		Metric ISO thread	Unified coarse (UNC) thread	Metric ISO thread	Unified coarse (UNC) thread
3S	1	M10 x 40	3/8-16 UNC x 1-1/2	M10 x 25	3/8-16 UNC x 1
4S	2	M10 x 55	3/8-16 UNC x 2-1/4	M10 x 40	3/8-16 UNC x 1-1/2
5S	3	M10 x 65	3/8-16 UNC x 2-3/4	M10 x 50	3/8-16 UNC x 2
6S	4	M12 x 100	7/16-14 UNC x 3-3/4	M12 x 75	7/16-14 UNC x 3

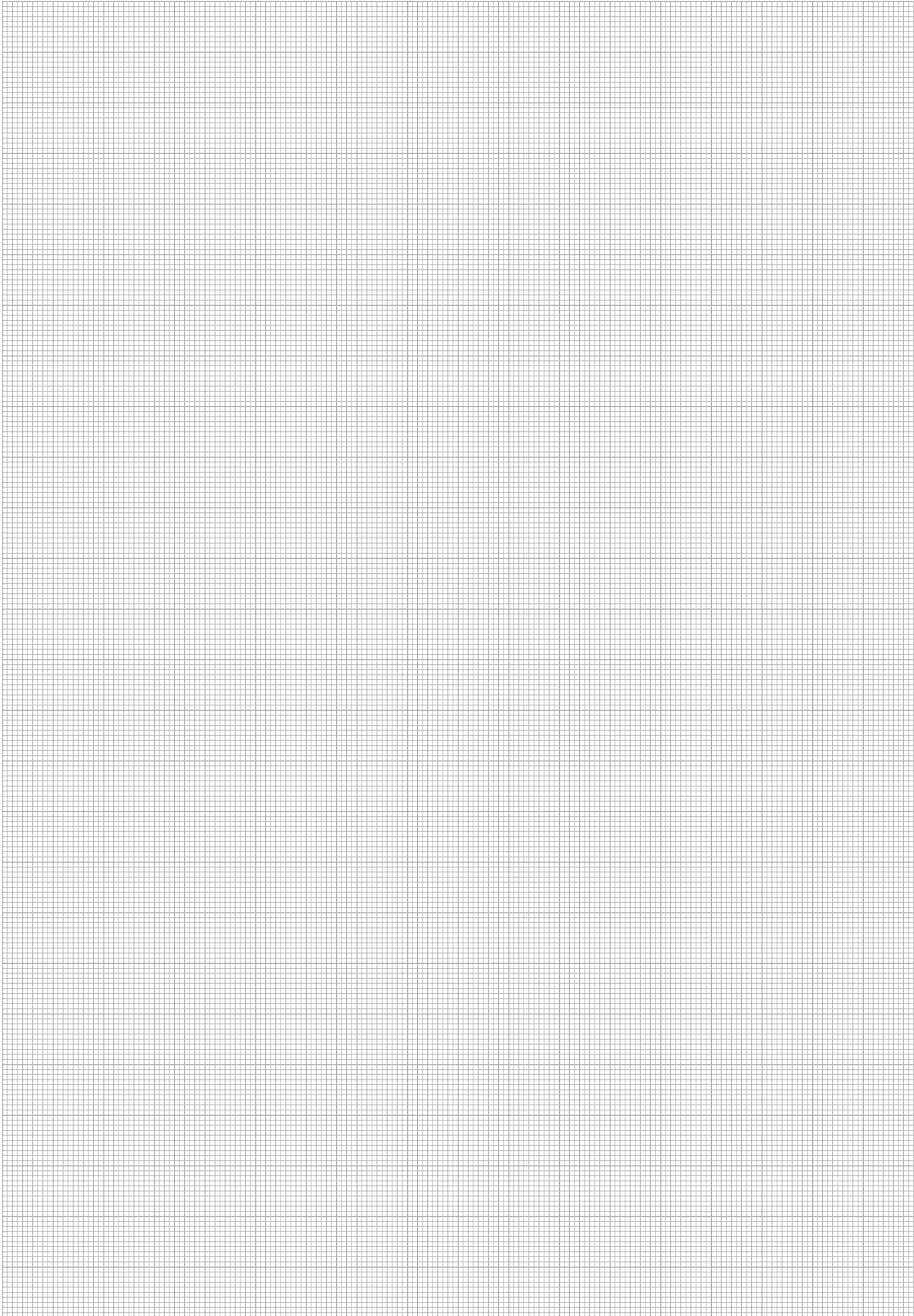
Clamp assemblies including Channel Rail Adaptors, type CRA are supplied with the recommended bolt lengths by default. See page 48 for further information on ordering.



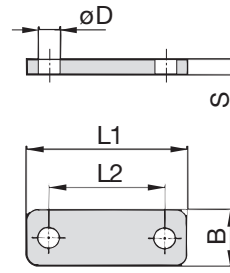
B



B



Cover Plate for Single Clamps Type DPAL



B

Ordering Codes

Cover Plate

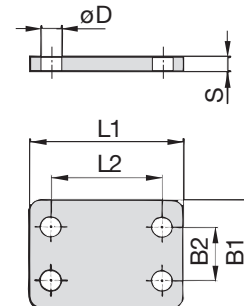
***DPAL-*3S-*W2**

* Cover Plate for Single Clamps	DPAL
* STAUFF Group	3S
* Material code	
Carbon Steel, uncoated	W1
Carbon Steel, phosphated	W2
Carbon Steel, zinc/nickel-plated	W3
Stainless Steel V2A	W4
1.4301 / 1.4305 (AISI 304 / 303)	
Stainless Steel V4A	W5
1.4401 / 1.4571 (AISI 316 / 316 Ti)	
Aluminium EN AW-6060	W85
(for group sizes 3S to 5S only)	

Group STAUFF	DIN	Dimensions (mm/in)					Ordering Codes (Standard Options)
		L1	L2	B	S	ØD	
3S	1	55	33	30	8	11	DPAL-3S-W2
		2.16	1.30	1.18	.31	.43	
4S	2	70	45	30	8	11	DPAL-4S-W2
		2.76	1.77	1.18	.31	.43	
5S	3	85	60	30	8	11	DPAL-5S-W2
		3.35	2.36	1.18	.31	.43	
6S	4	115	90	45	10	14	DPAL-6S-W2
		4.53	3.54	1.77	.39	.55	
7S	5	152	122	60	10	19	DPAL-7S-W2
		5.98	4.80	2.36	.39	.75	
8S	6	206	168	80	15	22	DPAL-8S-W1
		8.11	6.61	3.15	.59	.87	
9S	7	251	205	90	15	26	DPAL-9S-W1
		9.88	8.07	3.54	.59	1.02	
10S	8	320	265	120	25	35	DPAL-10S-W1
		12.60	10.43	4.72	.98	1.38	
11S	9	470	395	160	30	35	DPAL-11S-W1
		18.50	15.55	6.30	1.18	1.38	
12S	10	630	534	180	30	35	DPAL-12S-W1
		24.80	21.02	7.09	1.18	1.38	

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Cover Plate for Double Clamps Type DPAS



Ordering Codes

Cover Plate

***DPAS-*3S-*W2**

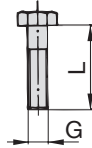
* Cover Plate for Double Clamps	DPAS
* STAUFF Group	3S
* Material code	
Carbon Steel, uncoated	W1
Carbon Steel, phosphated	W2
Carbon Steel, zinc/nickel-plated	W3
Stainless Steel V2A	W4
1.4301 / 1.4305 (AISI 304 / 303)	
Stainless Steel V4A	W5
1.4401 / 1.4571 (AISI 316 / 316 Ti)	

Group STAUFF	DIN	Dimensions (mm/in)					Ordering Codes (Standard Options)	
		L1	L2	B1	B2	S		
3S	1	55	33	60	30,5	8	11	DPAS-3S-W2
		2.16	1.30	2.36	1.20	.31	.43	
4S	2	70	45	60	30,5	8	11	DPAS-4S-W2
		2.76	1.77	2.36	1.20	.31	.43	
5S	3	83	60	60	30,5	8	11	DPAS-5S-W2
		3.27	2.36	2.36	1.20	.31	.43	
6S	4	115	90	90	46	10	14	DPAS-6S-W2
		4.53	3.54	3.54	1.81	.39	.55	
7S	5	152	122	120	61	10	19	DPAS-7S-W2
		5.98	4.80	4.72	2.40	.39	.75	
8S	6	206	168	160	81	15	22	DPAS-8S-W1
		8.11	6.61	6.61	3.19	.59	.87	
9S	7	251	205	180	91	15	26	DPAS-9S-W1
		9.88	8.07	7.09	3.58	.59	1.02	
10S	8	320	265	240	121	25	35	DPAS-10S-W1
		12.60	10.43	9.45	4.78	.98	1.38	
11S	9	470	395	321	166	30	35	DPAS-11S-W1
		18.50	15.55	12.64	6.54	1.18	1.38	
12S	10	630	534	361	186	30	35	DPAS-12S-W1
		24.80	21.02	14.21	7.32	1.18	1.38	

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



Hexagon Head Bolt
Type AS



B

Hexagon Head Bolt AS

(according to DIN 931 / 933 or ANSI / ASME B18.2.1.)

Dimensions applicable only when used with Cover Plates DPAL or DPAS

Group STAUFF	DIN	Dimensions (mm/m) Thread G x L	Ordering Codes (Standard Options)
3S	1	M10 x 45	AS-M10x45-W1
		3/8-16 UNC x 1-3/4	AS-3/8-16UNCx1-3/4-W3*
4S	2	M10 x 60	AS-M10x60-W1
		3/8-16 UNC x 2-1/4	AS-3/8-16UNCx2-1/4-W3*
5S	3	M10 x 70	AS-M10x70-W1
		3/8-16 UNC x 2-3/4	AS-3/8-16UNCx2-3/4-W3*
6S	4	M12 x 100	AS-M12x100-W1
		7/16-14 UNC x 4	AS-7/16-14UNCx4-W3*
7S	5	M16 x 130	AS-M16x130-W1
		5/8-11 UNC x 5-1/4	AS-5/8-11UNCx5-1/4-W3*
8S	6	M20 x 190	AS-M20x190-W1
		3/4-10 UNC x 7-1/2	AS-3/4-10UNCx7-1/2-W1
9S	7	M24 x 220	AS-M24x220-W1
		7/8-9 UNC x 8-3/4	AS-7/8-9UNCx8-3/4-W1
10S	8	M30 x 300	AS-M30x300-W1
		1-1/8-7 UNC x 12	AS-1-1/8-7UNCx12-W1
11S	9	M30 x 450	AS-M30x450-W1
		1-1/4-7 UNC x 17-1/2	AS-1-1/4-7UNCx17-1/2-W1
12S	10	M30 x 560	AS-M30x560-W1
		1-1/4-7 UNC x 22	AS-1-1/4-7UNCx22-W1

Ordering Codes

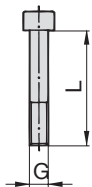
Hexagon Head Bolt *AS-*M10x70-*W1

- * Type of bolt: Hexagon Head Bolt (according to DIN 931 / 933 or ANSI / ASME B18.2.1.) **AS**
- * Thread type and size acc. to dimension table **M10x70**
- * Material code: Carbon Steel, uncoated **W1**
Carbon Steel, zinc/nickel-plated **W3**
Stainless Steel V2A **W4**
1.4301 / 1.4305 (AISI 304 / 303)
Stainless Steel V4A **W5**
1.4401 / 1.4571 (AISI 316 / 316 Ti)

* Standard finishing option for Heavy Series group sizes 3S to 7S in North America is W3 (Carbon Steel, zinc/nickel-plated).

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Socket Cap Screw
Type IS



Socket Cap Screw IS

(according to ISO 4762 or ANSI / ASME B18.3)

Dimensions applicable only when used without Cover Plates

Group STAUFF	DIN	Dimensions (mm/m) Thread G x L	Ordering Codes (Standard Options)
3S	1	M10 x 30	IS-M10x30-W1
		3/8-16 UNC x 1	IS-3/8-16UNCx1-W3*
4S	2	M10 x 40	IS-M10x40-W1
		3/8-16 UNC x 1-3/4	IS-3/8-16UNCx1-3/4-W3*
5S	3	M10 x 50	IS-M10x50-W1
		3/8-16 UNC x 2	IS-3/8-16UNCx2-W3*
6S	4	M12 x 80	ISM12x80-W1
		7/16-14 UNC x 3-1/4	IS-7/16-14UNCx3-1/4-W3*

Ordering Codes

Socket Cap Screw *IS-*M10x50-*W1

- * Type of Bolt: Socket Cap Screw (according to ISO 4762 or ANSI / ASME B18.3) **IS**
- * Thread type and size acc. to dimension table **M10x50**
- * Material code: Carbon Steel, uncoated **W1**
Carbon Steel, zinc/nickel-plated **W3**
Stainless Steel V2A **W4**
1.4301 / 1.4305 (AISI 304 / 303)
Stainless Steel V4A **W5**
1.4401 / 1.4571 (AISI 316 / 316 Ti)

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

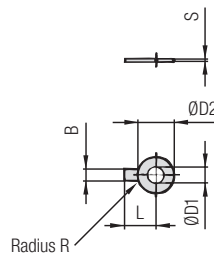
* Standard finishing option in North America is W3 (Carbon Steel, zinc/nickel-plated).



Safety Washer

(for Use with Hexagon Head Bolt AS)

Type SI (DIN 93)



Safety Washer SI

(Bend longer tab down towards the side of the clamp body and one side up towards one of the flats of the hexagon head bolt)

Ordering Codes

Safety Washer *SI-*10.5-*DIN93-*W3

- * Safety Washer **SI**
- * Exact inner diameter ØD1 (mm) **10.5**
- * Type of washer Safety washer with 1 tab (according to DIN 93) **DIN 93**
- * Material code Carbon Steel, zinc/nickel-plated **W3**
 Stainless Steel V4A **W5**
 1.4401 / 1.4571 (AISI 316 / 316 Ti)

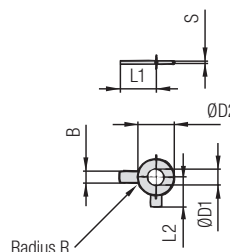
Group STAUFF	DIN	Dimensions (mm / in)						Ordering Codes (Standard Options)
		ØD1	B	ØD2	L	R	S	
3S	1	10,5	10	26	22	4	0,75	SI-10.5-DIN93-W3
		.41	.39	1.02	.87	.16	.03	
4S	2	10,5	10	26	22	4	0,75	SI-10.5-DIN93-W3
		.41	.39	1.02	.87	.16	.03	
5S	3	10,5	10	26	22	4	0,75	SI-10.5-DIN93-W3
		.41	.39	1.02	.87	.16	.03	
6S	4	13	12	30	28	6	1	SI-13-DIN93-W3
		.51	.47	1.18	1.10	.24	.04	
7S	5	17	15	36	32	6	1	SI-17-DIN93-W3
		.67	.59	1.42	1.26	.24	.04	
8S	6	21	18	42	36	6	1	SI-21-DIN93-W3
		.83	.71	1.65	1.42	.24	.04	
9S	7	25	20	50	42	6	1	SI-25-DIN93-W3
		.98	.79	1.97	1.65	.24	.04	
10S	8	31	26	63	52	10	1,6	SI-31-DIN93-W3
		1.22	1.02	2.48	2.05	.39	.06	
11S	9	31	26	63	52	10	1,6	SI-31-DIN93-W3
		1.22	1.02	2.48	2.05	.39	.06	
12S	10	31	26	63	52	10	1,6	SI-31-DIN93-W3
		1.22	1.02	2.48	2.05	.39	.06	

Safety Washers, type SI are used as locking devices to prevent Hexagon Head Bolts, type AS from loosening. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Safety Washer

(for Use with Hexagon Head Bolt AS)

Type SI (DIN 463)



Safety Washer SI

(Bend longer tab down towards the side of the clamp body and shorter tab up towards one of the flats of the hexagon head bolt)

Ordering Codes

Safety Washer *SI-*10.5-*DIN463-*W3

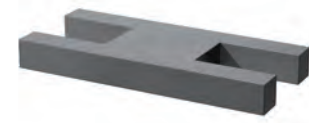
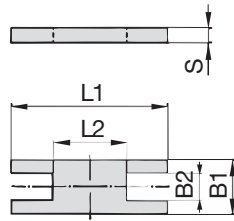
- * Safety Washer **SI**
- * Exact inner diameter ØD1 (mm) **10.5**
- * Type of washer Safety washer with 2 tabs (according to DIN 463) **DIN 463**
- * Material code Carbon Steel, zinc/nickel-plated **W3**
 Stainless Steel V4A **W5**
 1.4401 / 1.4571 (AISI 316 / 316 Ti)

Group STAUFF	DIN	Dimensions (mm / in)						Ordering Codes (Standard Options)	
		ØD1	B	ØD2	L1	L2	R		S
3S	1	10,5	10	21	22	13	4	0,75	SI-10.5-DIN463-W3
		.41	.39	.83	.87	.51	.16	.03	
4S	2	10,5	10	21	22	13	4	1	SI-10.5-DIN463-W3
		.41	.39	.83	.87	.51	.16	.04	
5S	3	10,5	10	21	22	13	4	1	SI-10.5-DIN463-W3
		.41	.39	.83	.87	.51	.16	.04	
6S	4	13	12	24	28	15	6	1	SI-13-DIN463-W3
		.51	.47	.94	1.10	.59	.24	.04	
7S	5	17	15	30	32	18	6	1	SI-17-DIN463-W3
		.67	.59	1.18	1.26	.71	.24	.04	
8S	6	21	18	37	36	21	6	1	SI-21-DIN463-W3
		.83	.71	1.46	1.42	.83	.24	.04	
9S	7	25	20	44	42	25	6	1	SI-25-DIN463-W3
		.98	.79	1.73	1.65	.98	.24	.04	
10S	8	31	26	56	52	32	10	1,6	SI-31-DIN463-W3
		1.22	1.02	2.20	2.05	1.26	.39	.06	
11S	9	31	26	56	52	32	10	1,6	SI-31-DIN463-W3
		1.22	1.02	2.20	2.05	1.26	.39	.06	
12S	10	31	26	56	52	32	10	1,6	SI-31-DIN463-W3
		1.22	1.02	2.20	2.05	1.26	.39	.06	

Safety Washers, type SI are used as locking devices to prevent Hexagon Head Bolts, type AS from loosening. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



Safety Locking Plate
(for Use with Stacking Bolt AF)
Type SIP



B

Group STAUFF	DIN	Dimensions (mm/in)					Ordering Codes (Standard Options)
		L1	L2	B1	B2	S	
3S	1	57	13	30	15,2	8	SIP-3S-W2
		2.24	.51	1.18	.60	.31	
4S	2	70	26	30	15,2	8	SIP-4S-W2
		2.76	1.02	1.18	.60	.31	
5S	3	85	40	30	15,2	8	SIP-5S-W2
		3.35	1.57	1.18	.60	.31	
6S	4	116	68	45	17,2	10	SIP-6S-W2
		4.57	2.68	1.77	.68	.39	
7S	5	153	96	60	22	10	SIP-7S-W2
		6.02	3.78	2.36	.87	.39	
8S	6	206	130	80	28	15	SIP-8S-W1
		8.11	5.12	3.15	1.10	.59	
9S	7	251	166	90	31	15	SIP-9S-W1
		9.88	6.54	3.54	1.22	.59	
10S	8	317	205	120	49	25	SIP-10-S-W1
		12.48	8.07	4.72	1.93	.98	

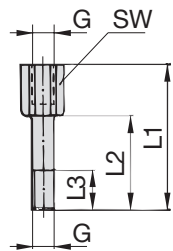
Ordering Codes

Safety Locking Plate *SIP-*3S-*W2

* Safety Locking Plate		SIP
* STAUFF Group		3S
* Material code	Carbon Steel, uncoated	W1
	Carbon Steel, phosphated	W2
	Carbon Steel, zinc/nickel-plated	W3
	Stainless Steel V2A	W4
	1.4301 / 1.4305 (AISI 304 / 303)	
	Stainless Steel V4A	W5
	1.4401 / 1.4571 (AISI 316 / 316 Ti)	

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Stacking Bolt
(for Use with Safety Locking Plate SIP)
Type AF



Group STAUFF	DIN	Dimensions (mm/in)					Ordering Codes (Standard Options)
		L1	L2	L3 min.	Hex	Thread G	
3S	1	49	25	15	15	M10	AF-3S-M-W2
		1.93	.98	.59	.59	3/8-16 UNC	AF-3S-U-W3*
4S	2	65	40	15	15	M10	AF-4S-M-W2
		2.56	1.57	.59	.59	3/8-16 UNC	AF-4S-U-W3*
5S	3	77	51	15	15	M10	AF-5S-M-W2
		3.03	2.01	.59	.59	3/8-16 UNC	AF-5S-U-W3*
6S	4	110	82	18	17	M12	AF-6S-M-W2
		4.33	3.23	.71	.67	7/16-14 UNC	AF-6S-U-W3*
7S	5	144	110	24	22	M16	AF-7S-M-W2
		5.67	4.33	.94	.87	5/8-11 UNC	AF-7S-U-W3*
8S	6	200	150	30	27	M20	AF-8S-M-W2
		7.87	5.91	1.18	1.06	3/4-10 UNC	AF-8S-U-W1*
9S	7	240	180	50	30	M24	AF-9S-M-W2
		9.45	7.09	1.97	1.18	7/8-9 UNC	AF-9S-U-W1*
10S	8	331	256	62	46	M30	AF-10S-M-W2
		13.03	10.08	2.44	1.81	1-1/8-7 UNC	AF-10S-U-W1*

Ordering Codes

Stacking Bolt *AF-*3S-*M-*W2

* Stacking Bolt		AF
* STAUFF Group		3S
* Thread code	Metric ISO thread	M
	Unified coarse (UNC) thread	U
* Material code	Carbon Steel, uncoated	W1
	Carbon Steel, phosphated	W2
	Carbon Steel, zinc/nickel-plated	W3
	Stainless Steel V2A	W4
	1.4301 / 1.4305 (AISI 304 / 303)	
	Stainless Steel V4A	W5
	1.4401 / 1.4571 (AISI 316 / 316 Ti)	

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

* Standard finishing option for Heavy Series group sizes 3S to 7S in North America is W3 (Carbon Steel, zinc/nickel-plated). Standard finishing option for Heavy Series group sizes 8S to 10S in North America is W1 (Carbon Steel, uncoated).





B

① Type of Installation

Please select the type of installation (e.g. Weld Plates, Rail Nuts etc.) and add the corresponding Code to position ① of the order code for your clamp assembly.

Without Installation Equipment
Code: **none**

Installation on Weld Plate

Weld Plate for Single Clamps
Code: **SPAL**

Weld Plate for Double Clamps
Code: **SPAS**

Elongated Weld Plate for Single Clamps
Code: **SPAL-DUEB**

Elongated Weld Plate for Double Clamps
Code: **SPAS-DUEB**

Installation on Mounting / Channel Rail

Mounting Rail Nut
Code: **GMV** (for STAUFF Group 3S to 6S only)

Channel Rail Adaptor
Code: **CRA** (for STAUFF Group 3S to 6S only)

② Group Size & Diameter

Please select the required group size and diameter and add the corresponding Code to position ② of the order code for your clamp assembly.

Group STAUFF (DIN)	Outside Diameter P / T / H (mm)	Availability of Clamp Body Materials & Designs			Code
		Profiled Design	Type H	Type RI	
3S (1)	6	●	●	○	3006
	6,4	●	●	○	3006.4
	8	●	●	○	3008
	9,5	●	●	○	3009.5
	10	●	●	○	3010
	12	●	●	○	3012
	12,7	●	●	○	3012.7
	13,5	●	●	○	3013.5
	14	●	●	○	3014
	15	●	●	○	3015
	16	●	●	○	3016
	17,2	●	●	○	3017.2
	18	●	●	○	3018
20	●	○	○	3020	

② Group Size & Diameter CONTINUATION

Group STAUFF (DIN)	Outside Diameter P / T / H (mm)	Availability of Clamp Body Materials & Designs			Code
		Profiled Design	Type H	Type RI	
4S (2)	6	○	○	●	4006
	8	○	○	●	4008
	10	○	○	●	4010
	12	○	○	●	4012
	12,7	○	○	●	4012.7
	14	○	○	●	4014
	15	○	○	●	4015
	16	○	○	●	4016
	17,2	○	○	●	4017.2
	18	○	○	●	4018
	19	●	●	●	4019
	20	●	●	○	4020
	21,3	●	●	○	4021.3
	22	●	●	○	4022
	25	●	●	○	4025
	25,4	●	●	○	4025.4
	26,9	●	●	○	4026.9
	28	●	●	○	4028
30	●	●	○	4030	
5S (3)	20	○	○	●	5020
	21,3	○	○	●	5021.3
	22	○	○	●	5022
	25	○	○	●	5025
	26,9	○	○	●	5026.9
	28	○	○	●	5028
	30	●	●	●	5030
	32	●	●	●	5032
	33,7	●	●	○	5033.7
	35	●	●	○	5035
	38	●	●	○	5038
	40	●	●	○	5040
41,3	●	●	○	5041.3	
42	●	●	○	5042	
6S (4)	32	○	○	●	6032
	33,7	○	○	●	6033.7
	35	○	○	●	6035
	38	●	●	○	6038
	38,7	○	○	●	6038.7
	40	○	○	●	6040
	42	●	●	●	6042
	44,5	●	●	○	6044.5
	45,5	○	○	●	6045.5
	48	○	○	●	6048
	48,3	●	●	○	6048.3
	50,8	●	●	○	6050.8
	51	○	○	●	6051
	53,4	○	○	●	6053.4
54	●	○	○	6054	

② Group Size & Diameter CONTINUATION

Group STAUFF (DIN)	Outside Diameter P / T / H (mm)	Availability of Clamp Body Materials & Designs			Code	
		Profiled Design	Type H	Type RI		
6S (4)	55	●	●	○	6055	
	56,4	○	○	●	6056.4	
	57	●	●	○	6057	
	57,2	●	●	○	6057.2	
	60,3	●	●	○	6060.3	
	63,5	●	●	○	6063.5	
	65	●	●	○	6065	
	70	●	●	○	6070	
	7S (5)	55	○	○	●	7055
		57	○	○	●	7057
60		○	○	●	7060	
60,3		●	○	○	7060.3	
63,5		○	○	●	7063.5	
65		●	○	●	7065	
70		●	○	●	7070	
72		○	○	●	7072	
73		●	○	○	7073	
75		●	○	○	7075	
76		○	○	●	7076	
76,1		●	○	○	7076.1	
8S (6)	80	●	○	○	7080	
	82,5	●	○	○	7082.5	
	88,9	●	○	○	7088.9	
	80	○	○	●	8080	
	88,9	●	○	●	8088.9	
	100	●	○	○	8100	
	102	●	○	●	8102	
	108	●	○	○	8108	
	114	●	○	○	8114	
	127	●	○	○	8127	
9S (7)	133	●	○	○	8133	
	114	○	○	●	9114	
	127	●	○	○	9127	
	133	●	○	●	9133	
	140	●	○	●	9140	
	152	●	○	○	9152	
	159	●	○	○	9159	
	165	●	○	○	9165	
	168	●	○	○	9168	
	10S (8)	150	○	○	●	10150
165		○	○	●	10165	
168		●	○	●	10168	
172		○	○	●	10172	
177,8		●	○	○	10177.8	
193,7		●	○	○	10193.7	
203		●	○	○	10203	
216		●	○	○	10216	
219		●	○	○	10219	
11S (9)		219	●	○	○	11219
	273	●	○	○	11273	
12S (10)	324	●	○	○	11324	
	356	●	○	○	12356	
406	●	○	○	12406		

● Standard Option



Please see pages 56 and 57 with detailed order examples for some of the most popular Heavy Series clamp assemblies.

③ Clamp Body Design & Material

Please select the design and material of your clamp body and add the corresponding **Code** to position ③ of the order code for your clamp assembly.

Please check the availability of the selected clamp body design and material according to the matrix table in ②.

Profiled Design

Polypropylene
Code: **PP**

Polypropylene (Colour: Black)
Code: **PP-BK**

Polyamide
Code: **PA**

Thermoplastic Elastomer (87 Shore-A)
Code: **SA87** (for STAUFF Group 3S to 6S only)

Aluminium
Code: **AL**

Type H (Smooth)

Polypropylene
Code: **PP-H** (for STAUFF Group 3S to 6S only)

Polypropylene (Colour: Black; 3S to 6S only)
Code: **PP-H-BK**

Polyamide
Code: **PA-H** (for STAUFF Group 3S to 6S only)

Thermoplastic Elastomer (87 Shore-A)
Code: **SA87-H** (for STAUFF Group 3S to 6S only)

Type RI (with Elastomer Insert)

Polypropylene
Code: **PP-R** (for STAUFF Group 4S to 10S only)

Polyamide
Code: **PA-R** (for STAUFF Group 4S to 10S only)

See pages 178 / 179 for material properties and technical information.

Please contact STAUFF for further details on fire-proof clamp body materials, tested and approved according to several international fire-protection standards.

④ Mounting & Fitting Combination

Please select the mounting and fitting combination (e.g. bolts, screws, cover plates etc.) and add the corresponding **Code** to position ④ of the order code for your clamp assembly.

Installation with Cover Plate and Bolts

Cover Plate for Single Clamps DPAL with Hexagon Head Bolts AS
Code: **DPAL-AS**

Cover Plate for Double Clamps DPAS with Hexagon Head Bolts AS
Code: **DPAS-AS**

Cover Plate for Single Clamps DPAL with Socket Cap Screws IS*
Code: **DPAL-IS** (for STAUFF Group 3S to 6S only)

Installation with Locking Plate and Bolts

Safety Locking Plate SIP with Stacking Bolts AF
Code: **SIP-AF**

Installation with Bolts only

Socket Cap Screws IS
Code: **IS**

* Special lengths of Socket Cap Screws IS required. For exact lengths, please see details of Hexagon Head Bolt, type AS (for use with Cover Plates DPAL or DPAS) on page 51.

⑤ Thread Type

Please select the required thread type and add the corresponding **Code** to position ⑤ of the order code for your clamp assembly.

Metric ISO thread
Code: **M**

Unified coarse (UNC) thread
Code: **U**

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.

⑥ Material & Surface Finishing

Please select the required material & surface finishing of the metal parts and add the corresponding **Code** to position ⑥ of the order code for your clamp assembly.

Metal parts made of Carbon Steel, uncoated **W1**

Metal parts made of Carbon Steel, phosphated **W2**

Metal parts made of Carbon Steel, zinc/nickel-plated **W3**

Metal parts made of Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303) **W4**

Metal parts made of Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti) **W5**

Weld Plate made of Carbon Steel, phosphated; Other metal parts made of Carbon Steel, zinc/nickel-plated **W10**

Weld Plate and Cover Plate made of Carbon Steel, phosphated; Bolts made of Carbon Steel, uncoated **W12**

Mounting Rail Nuts made of Carbon Steel, zinc/nickel-plated; Cover Plate made of Carbon Steel, phosphated; Bolts made of Carbon Steel, uncoated **W13**

Weld Plate / Cover Plate made of Carbon Steel, phosphated; Bolts made of Carbon Steel, zinc/nickel-plated **W15**

Mounting Rail Nuts made of Carbon Steel, zinc/nickel-plated; Cover Plate made of Carbon Steel, phosphated; Bolts made of Carbon Steel, zinc/nickel-plated **W16**

Safety Locking Plate made of Carbon Steel, phosphated; Stacking Bolts made of Carbon Steel, zinc/nickel-plated **W17**

Safety Locking Plate made of Carbon Steel, uncoated; Stacking Bolts made of Carbon Steel, phosphated **W18**

Cover Plate made of Carbon Steel, phosphated; Bolts made of Carbon Steel, uncoated **W19**

Individual combinations of alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

⑦ Assembling & Kitting

If required, please select an additional assembling and kitting option and add the corresponding **Code** to the last position of the order code for your clamp assembly.

Components supplied separately
Code: **none** (standard option)

Components assembled
Code: **A** (special option)

Components packed in kits
Code: **K** (special option)



B



- 2x **Hexagon Head Bolt**
Surface: W1
Thread: Metric
- 1x **Cover Plate for Single Clamps**
Surface: W2
- 1x **Clamp Body** (two halves)
STAUFF Group 3S (DIN 1)
O.D. 6 mm / .24 in
Material: Polypropylene
Profiled inside surface with tension clearance
- 1x **Weld Plate for Single Clamps**
Surface: W2
Thread: Metric

Order Code

SPAL-3006-PP-DPAL-AS-M-W12

W12 (STAUFF Group 3S to 7S) and W1 (STAUFF Group 8S to 12S) are the standard options for this type of installation.



- 4x **Hexagon Head Bolt**
Surface: W1
Thread: Metric
- 1x **Cover Plate for Double Clamps**
Surface: W2
- 2x **Clamp Body** (four halves)
STAUFF Group 3S (DIN 1)
O.D. 6 mm / .24 in
Material: Polypropylene
Profiled inside surface with tension clearance
- 1x **Weld Plate for Double Clamps**
Surface: W2
Thread: Metric

Order Code

SPAS-3006-PP-DPAS-AS-M-W12

W12 (STAUFF Group 3S to 7S) and W1 (STAUFF Group 8S to 12S) are the standard options for this type of installation.



- 2x **Hexagon Head Bolt**
Surface: W1
Thread: Metric
- 1x **Cover Plate for Single Clamps**
Surface: W2
- 1x **Clamp Body** (two halves)
STAUFF Group 3S (DIN 1)
O.D. 6 mm / .24 in
Material: Polypropylene
Profiled inside surface with tension clearance
- 1x **Elongated Weld Plate for Single Clamps**
Surface: W2
Thread: Metric

Order Code

SPAL-DUEB-3006-PP-DPAL-AS-M-W12

W12 (STAUFF Group 3S to 7S) and W1 (STAUFF Group 8S to 12S) are the standard options for this type of installation.



- 4x **Hexagon Head Bolt**
Surface: W1
Thread: Metric
- 1x **Cover Plate for Double Clamps**
Surface: W2
- 2x **Clamp Body** (four halves)
STAUFF Group 3S (DIN 1)
O.D. 6 mm / .24 in
Material: Polypropylene
Profiled inside surface with tension clearance
- 1x **Elongated Weld Plate for Double Clamps**
Surface: W2
Thread: Metric

Order Code

SPAS-DUEB-3006-PP-DPAS-AS-M-W12

W12 (STAUFF Group 3S to 7S) and W1 (STAUFF Group 8S to 12S) are the standard options for this type of installation.



- 2x **Socket Cap Screw**
Surface: W1
Thread: Metric
- 1x **Clamp Body** (two halves)
STAUFF Group 3S (DIN 1)
O.D. 6 mm / .24 in
Material: Polypropylene
Profiled inside surface with tension clearance
- 1x **Weld Plate for Single Clamps**
Surface: W2
Thread: Metric

Order Code

SPAL-3006-PP-IS-M-W12

W12 is the standard option for this type of installation. Available up to STAUFF Group 6S (DIN Group 4) only.



- 2x **Socket Cap Screw**
Surface: W1
Thread: Metric
- 1x **Clamp Body** (two halves)
STAUFF Group 3S (DIN 1)
O.D. 6 mm / .24 in
Material: Polypropylene
Profiled inside surface with tension clearance
- 1x **Elongated Weld Plate for Single Clamps**
Surface: W2
Thread: Metric

Order Code

SPAL-DUEB-3006-PP-IS-M-W12

W12 is the standard option for this type of installation. Available up to STAUFF Group 6S (DIN Group 4) only.





- 2x **Hexagon Head Bolt**
Surface: W1
Thread: Metric
- 1x **Cover Plate for Single Clamps**
Surface: W2
- 1x **Clamp Body** (two halves)
STAUFF Group 3S (DIN 1)
O.D. 6 mm / .24 in
Material: Polypropylene
Profiled inside surface with tension clearance
- 2x **Mounting Rail Nut**
Surface: W3
Thread: Metric

Order Code (Mounting Rail STSV not included.)

GMV-3006-PP-DPAL-AS-M-W13

W13 is the standard option for this type of installation. Available up to STAUFF Group 6S (DIN Group 4) only.



- 2x **Socket Cap Screw**
Surface: W1
Thread: Metric
- 1x **Clamp Body** (two halves)
STAUFF Group 3S (DIN 1)
O.D. 6 mm / .24 in
Material: Polypropylene
Profiled inside surface with tension clearance
- 2x **Mounting Rail Nut**
Surface: W3
Thread: Metric

Order Code (Mounting Rail STSV not included.)

GMV-3006-PP-IS-M-W13

W13 is the standard option for this type of installation. Available up to STAUFF Group 6S (DIN Group 4) only.



- 2x **Hexagon Head Bolt**
Surface: W1
Thread: Metric
- 1x **Cover Plate for Single Clamps**
Surface: W2
- 1x **Clamp Body** (two halves)
STAUFF Group 3S (DIN 1)
O.D. 6 mm / .24 in
Material: Polypropylene
Profiled inside surface with tension clearance

Order Code

3006-PP-DPAL-AS-M-W19

W19 (STAUFF Group 3S to 7S) and W1 (STAUFF Group 8S to 12S) are the standard options for this type of installation.



- 2x **Stacking Bolt**
Surface: W2
Thread: Metric
- 1x **Safety Locking Plate**
Surface: W2
- 1x **Clamp Body** (two halves)
STAUFF Group 3S (DIN 1)
O.D. 6 mm / .24 in
Material: Polypropylene
Profiled inside surface with tension clearance

Order Code

3006-PP-SIP-AF-M-W2

W2 (STAUFF Group 3S to 7S) and W18 (STAUFF Group 8S to 10S) are the standard options for this type of installation. Available up to STAUFF Group 10S (DIN Group 8) only.

Thread codes

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.

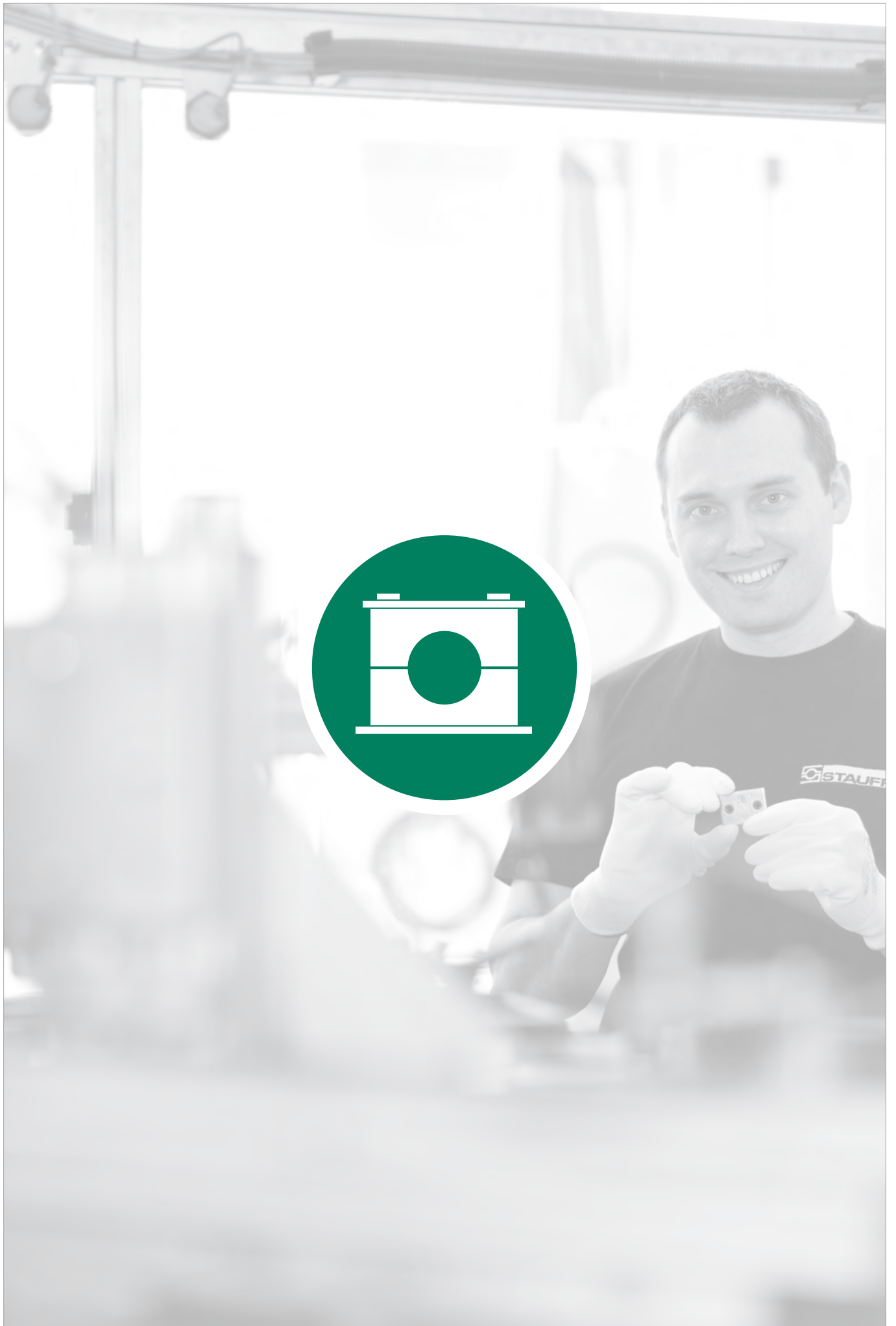
Metric ISO thread	M
Unified coarse (UNC) thread	U
















Material codes

The below listed material codes describe the materials and surface finishings of metal parts that are most relevant for Heavy Series clamp assemblies. Individual combinations of alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Metal parts made of Carbon Steel, uncoated	W1
Metal parts made of Carbon Steel, phosphated	W2
Metal parts made of Carbon Steel, zinc/nickel-plated	W3
Metal parts made of Stainless Steel V2A: 1.4301 / 1.4305 (AISI 304 / 303)	W4
Metal parts made of Stainless Steel V4A: 1.4401 / 1.4571 (AISI 316 / 316 Ti)	W5
Weld Plate made of Carbon Steel, phosphated; Other metal parts made of Carbon Steel, zinc/nickel-plated	W10
Weld Plate and Cover Plate made of Carbon Steel, phosphated; Bolts made of Carbon Steel, uncoated	W12
Mounting Rails Nut made of Carbon Steel, zinc/nickel-plated; Cover Plate made of Carbon Steel, phosphated; Bolts made of Carbon Steel, uncoated	W13
Weld Plate and Cover Plate made of Carbon Steel, phosphated; Bolts made of Carbon Steel, zinc/nickel-plated	W15
Mounting Rail Nuts made of Carbon Steel, zinc/nickel-plated; Cover Plate made of Carbon Steel, phosphated; Bolts made of Carbon Steel, zinc/nickel-plated	W16
Safety Locking Plate made of Carbon Steel, phosphated; Bolts made of Carbon Steel, zinc/nickel-plated	W17
Safety Locking Plate made of Carbon Steel, uncoated; Bolts made of Carbon Steel, phosphated	W18
Cover Plate made of Carbon Steel, phosphated; Bolts made of Carbon Steel, uncoated	W19





	Clamp Body Profiled Inside Surface with Tension Clearance	60		Single Weld Plate SP	61
	Clamp Body Smooth Inside Surface without Tension Clearance	60		Elongated Weld Plate SPV	61
				Group Weld Plate RAP	62
				Hexagon Rail Nut SM	63
				Mounting Rail TS	63
				Fastening Adaptor SWG-MRA	64
				Channel Rail Adaptor CRA	65
				Cover Plate GD	68
				Hexagon Head Bolt AS	68
				Socket Cap Screw IS	69
				Safety Locking Plate SI	70
				Safety Locking Plate SIV	70
				Stacking Bolt AF	71
				Clamp Assemblies	72

C

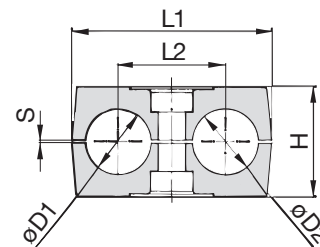
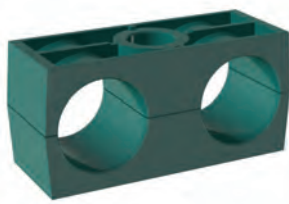


Clamp Body - Profiled Design

Profiled Inside Surface with Tension Clearance

Clamp Body - Type H

Smooth Inside Surface w/o Tension Clearance



Ordering Codes

Clamp Body

***1*06/06*-PP**

One clamp body is consisting of two clamp halves.

- * 1st Part of STAUFF Group 1
- * Exact outside diameters Ø D1 / Ø D2 (mm) 06/06
- * Material code (see below) PP

Designs & Standard Materials

Polypropylene - Profiled Design
 Profiled inside surface with tension clearance
 Colour: Green
 Material code: **PP**

Polypropylene - Profiled Design
 Profiled inside surface with tension clearance
 Colour: Black
 Material code: **PP-BK**

Polypropylene - Type H
 Smooth inside surface without tension clearance
 Colour: Green
 Material code: **PP-H**

Polypropylene - Type H
 Smooth inside surface without tension clearance
 Colour: Black
 Material code: **PP-H-BK**

Polyamide - Profiled Design
 Profiled inside surface with tension clearance
 Colour: Black
 Material code: **PA**

Polyamide - Type H
 Smooth inside surface without tension clearance
 Colour: Black
 Material code: **PA-H**

See pages 178 / 179 for properties and technical information.

Special Materials

Please contact STAUFF for further details on fire-proof clamp body materials, tested and approved according to several international fire-protection standards (such as BS 6853, EN 45545-2, UL 94 and many more).

See pages 180 / 181 for material properties and technical information.

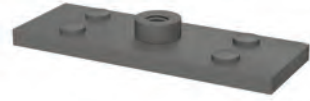
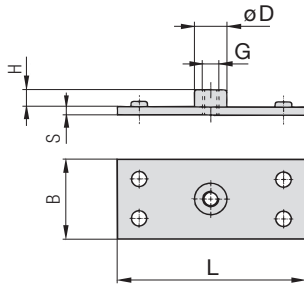
Product Features

- Proven, tested and trusted product in various markets
- Profiled design recommended for the safe installation of rigid pipes and tubes; type H recommended for the safe installation of hoses and cables
- Available for all commonly used pipe and tube outside diameters
- Environmental protection due to vibration/noise reducing design
- Excellent weathering resistance, even under extreme conditions

Group	STAUFF	DIN	Outside Diameter		Nominal Bore	Copper Tube	Ordering Codes	Dimensions (mm/in)								
			Pipe / Tube / Hose	Pipe				Ø D1 / Ø D2 (mm) (in)	Pipe (in)	ASTM B88 (in)	(**-*- = Material)	L1	L2	H	S min.	TypeH
1D	1	6					106/06-**-*									
		6,4	1/4				106.4/06.4-**-*									
		8	5/16				108/08-**-*	36	20	27	0,6	26,5	30			
		9,5	3/8		1/4		109.5/09.5-**-*	1.42	.79	1.06	.02	1.04	1.18			
		10			1/8		110/10-**-*									
		12					112/12-**-*									
2D	2	12,7	1/2		3/8		212.7/12.7-**-*									
		13,5			1/4		213.5/13.5-**-*									
		14					214/14-**-*									
		15					215/15-**-*	53	29	27	0,7	26	30			
		16	5/8		1/2		216/16-**-*	2.09	1.14	1.06	.03	1.02	1.18			
		17,2			3/8		217.2/17.2-**-*									
3D	3	18					218/18-**-*									
		19	3/4				319/19-**-*									
		20					320/20-**-*									
		21,3			1/2		321.3/21.3-**-*	67	36	37	0,7	36,5	30			
		22	7/8		3/4		322/22-**-*	2.64	1.42	1.46	.03	1.44	1.18			
		25					325/25-**-*									
4D	4	25,4	1				325.4/25.4-**-*									
		26,9			3/4		426.9/26.9-**-*									
		28					428/28-**-*	80	45	40	0,7	38	30			
5D	5	30					430/30-**-*	3.15	1.77	1.57	.03	1.46	1.18			
		32	1-1/4				532/32-**-*									
		33,7			1		533.7/33.7-**-*									
		35			1-1/4		535/35-**-*	106	56	53	0,7	52	30			
		38	1-1/2				538/38-**-*	4.17	2.20	2.09	.03	2.04	1.18			
		40					540/40-**-*									
42			1-1/4		542/42-**-*											

Additional outside diameters and combinations of different outside diameters are available upon request. Please contact STAUFF for further information.



Single Weld Plate
Type SP


Group STAUFF	DIN	Dimensions (mm/in)						Ordering Codes (Standard Options)	
		L	B	S	H	ØD	Thread G		
1D	1	37	30	3	6,5	12	M6	SP-1D-M-W2	
		1.46	1.18	.12	.26	.47	1/4-20 UNC	SP-1D-U-W2	
2D	2	55	30	5	6	14	M8	SP-2D-M-W2	
		2.17	1.18	.20	.24	.55	5/16-18 UNC	SP-2D-U-W2	
3D	3	70	30	5	6	14	M8	SP-3D-M-W2	
		2.76	1.18	.20	.24	.55	5/16-18 UNC	SP-3D-U-W2	
4D	4	85	30	5	6	14	M8	SP-4D-M-W2	
		3.35	1.18	.20	.24	.55	5/16-18 UNC	SP-4D-U-W2	
5D	5	110	30	5	6	14	M8	SP-5D-M-W2	
		4.33	1.18	.20	.24	.55	5/16-18 UNC	SP-5D-U-W2	

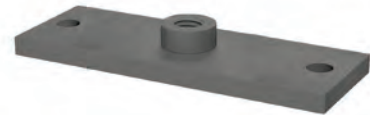
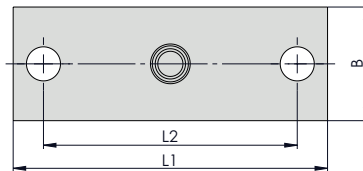
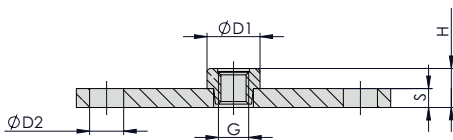
Ordering Codes

Weld Plate

***SP-*1D-*M-*W2**

* Single Weld Plate		SP
* STAUFF Group		1D
* Thread code	Metric ISO thread	M
	Unified coarse (UNC) thread	U
* Material code	Carbon Steel, phosphated	W2
	Carbon Steel, zinc/nickel-plated	W3
	Stainless Steel V2A	W4
	1.4301 / 1.4305 (AISI 304 / 303)	
	Stainless Steel V4A	W5
	1.4401 / 1.4571 (AISI 316 / 316 Ti)	

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

 Elongated Weld Plate
Type SPV


Group STAUFF	DIN	Dimensions (mm/in)								Ordering Codes (Standard Options)	
		Thread G	L1	L2	B	S	H	ØD1	ØD2		
1D	1	M6	64	50	30	3	8,3	11,8	6,5	SPV-1D-M-W3	
		1/4-20 UNC	2.52	1.97	1.18	.12	.33	.46	.26	SPV-1D-U-W3	
2D	2	M8	83	67	30	5	10,3	14	9	SPV-2D-M-W3	
		5/16-18 UNC	3.27	2.64	1.18	.20	.41	.55	.35	SPV-2D-U-W3	
3D	3	M8	97	81	30	5	10,3	14	9	SPV-3D-M-W3	
		5/16-18 UNC	3.82	3.19	1.18	.20	.41	.55	.35	SPV-3D-U-W3	
4D	4	M8	110	94	30	5	10,3	14	9	SPV-4D-M-W3	
		5/16-18 UNC	4.33	3.70	1.18	.20	.41	.55	.35	SPV-4D-U-W3	
5D	5	M8	136	120	30	5	10,3	14	9	SPV-5D-M-W3	
		5/16-18 UNC	5.35	4.72	1.18	.20	.41	.55	.35	SPV-5D-U-W3	

Ordering Codes

Weld Plate

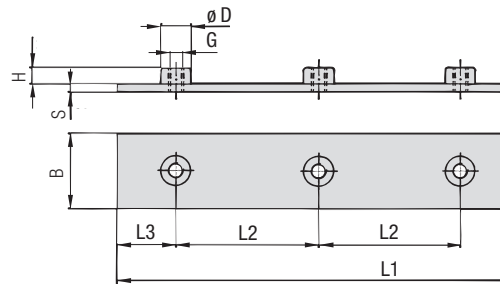
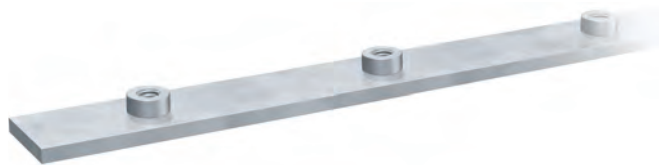
***SPV-*1D-*M-*W2**

* Elongated Weld Plate		SPV
* STAUFF Group		1D
* Thread code	Metric ISO thread	M
	Unified coarse (UNC) thread	U
* Material code	Carbon Steel, zinc/nickel-plated	W3
	Stainless Steel V4A	W5
	1.4401 / 1.4571 (AISI 316 / 316 Ti)	

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



**Group Weld Plate
for 5 Clamp Bodies
Type RAP**



C

Ordering Codes

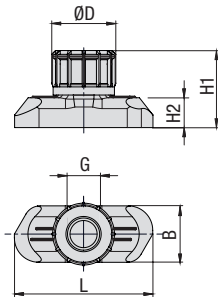
Weld Plate *RAP-*1D-*40-*5-*M-*W1

* Group Weld Plate		RAP
* STAUFF Group		1D
* Pipe Center Spacing L2 (mm)		40
* Number of Clamps		5
* Thread code	Metric ISO thread	M
	Unified coarse (UNC) thread	U
* Material code	Carbon Steel, uncoated	W1
	Carbon Steel, phosphated	W2
	Carbon Steel, zinc/nickel-plated	W3
	Stainless Steel V2A	W4
	1.4301 / 1.4305 (AISI 304 / 303)	
	Stainless Steel V4A	W5
	1.4401 / 1.4571 (AISI 316 / 316 Ti)	

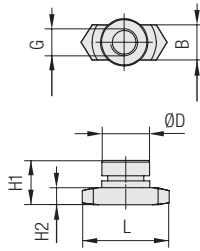
Group STAUFF	DIN	Dimensions (mm / in)								Thread G	Ordering Codes (Standard Options)
		L1	L2	L3	B	S	H	ØD			
1D	1	196	40	18	30	3	6,5	12	M6	RAP-1D-40-5-M-W1	
		7.72	1.57	.71	1.18	.12	.26	.47	1/4-20 UNC	RAP-1D-40-5-U-W1	
2D	2	288	58	28	30	5	6	14	M8	RAP-2D-58-5-M-W1	
		11.34	2.28	1.10	1.18	.20	.24	.55	5/16-18 UNC	RAP-2D-58-5-U-W1	
3D	3	358	72	35	30	5	6	14	M8	RAP-3D-72-5-M-W1	
		14.09	2.83	1.37	1.18	.20	.24	.55	5/16-18 UNC	RAP-3D-72-5-U-W1	
4D	4	444	90	42	30	5	6	14	M8	RAP-4D-90-5-M-W1	
		17.48	3.54	1.65	1.18	.20	.24	.55	5/16-18 UNC	RAP-4D-90-5-U-W1	
5D	5	558	112	55	30	5	6	14	M8	RAP-5D-112-5-M-W1	
		21.97	4.41	2.16	1.18	.20	.24	.55	5/16-18 UNC	RAP-5D-112-5-U-W1	

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

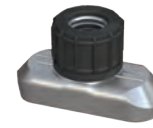




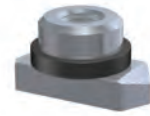
STAUFF Group 1D



STAUFF Group 2D to 5D



STAUFF Group 1D



STAUFF Group 2D to 5D

Hexagon Rail Nut
(for Use with Mounting Rail TS)
Type SM

Group STAUFF	DIN	Dimensions (mm/in)						Ordering Codes (Standard Options)
		Thread G	L	B	H1	H2	ØD	
1D	1	M6	25,5	10,4	14,2	5,5	12	SM-1-8/1D-M-W3
		1/4-20 UNC	1.00	.41	.56	.22	.47	SM-1-8/1D-U-W3
2D	2	M8	25,5	10,4	13	5	14	SM-2-5D-M-W3 SM-2-5D-U-W3
3D	3							
4D	4							
5D	5							

Ordering Codes

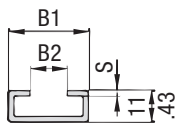
Hexagon Rail Nut *SM-*1-8/1D-*M-*W3

* Hexagon Rail Nut		SM
* STAUFF Group	1D (DIN Group 1) 2D to 5D (DIN Group 2 to 5)	1-8/1D 2-5D
* Thread code	Metric ISO thread Unified coarse (UNC) thread	M U
* Material code	Carbon Steel, zinc/nickel-plated Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303) Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)	W3 W4 W5

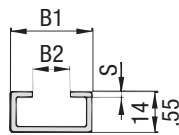
The Hexagon Rail Nut, type SM-1-8/1D is also suitable for Standard Series, STAUFF Group 1 to 8.

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

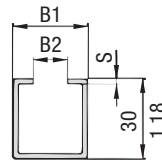
Mounting Rail
(for Use with Hexagon Rail Nut SM)
Type TS



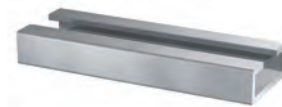
Mounting Rail TS-11



Mounting Rail TS-14



Mounting Rail TS-30



Group STAUFF	DIN	Dimensions (mm/in)			Ordering Codes (Standard Options)	
		B1	B2	S	Length of Rail: 1 m / 3.28ft	Length of Rail: 2 m / 6.56ft
1D	1	28 1.10	11 .43	2 .08	Height 11 mm / .43 in TS-11-1M-W1	Height 11 mm / .43 in TS-11-2M-W1
2D	2					
3D	3				Height 14 mm / .55 in TS-14-1M-W1	Height 14 mm / .55 in TS-14-2M-W1
4D	4					
5D	5				Height 30 mm / 1.18 in TS-30-1M-W1	Height 30 mm / 1.18 in TS-30-2M-W1

Ordering Codes

Mounting Rail *TS-*11-*1M-*W1

* Mounting Rail		TS
* Height of rail	11 mm / .43 in 14 mm / .55 in 30 mm / 1.18 in	11 14 30
* Length of rail	1 m / 3.28 ft 2 m / 6.56 ft	1M 2M
Alternative lengths available upon request. Contact STAUFF for further information.		
* Material code	Carbon Steel, uncoated Carbon Steel, hot-dip galvanised Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303) Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)	W1 W98 W4 W5

Mounting Rails, type TS-11/14/30 are suitable for all Twin Series and Standard Series group sizes.

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

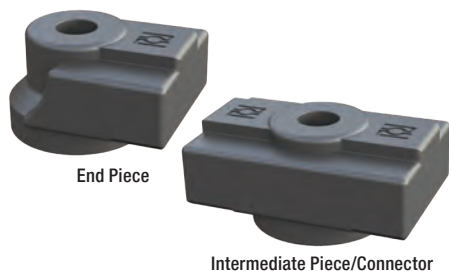
Dimensional drawings: All dimensions in mm (in).



Fastening Adaptor

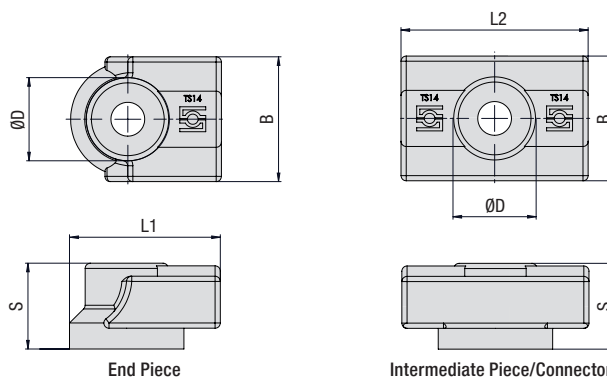
(for Use with Mounting Rail TS)

Type SWG-MRA



End Piece

Intermediate Piece/Connector



End Piece

Intermediate Piece/Connector

Ordering Code

Fastening Adaptor

***SWG-MRA-*TS14-*S-*A**

* Fastening Adaptor	SWG-MRA
* for Mounting Rail TS14	TS14
* End Piece	S
Intermediate Piece/Connector	D
* Version	A

Group STAUFF	DIN	Dimensions (mm/in)					Ordering Code (End Piece)	Ordering Code (Intermediate Piece/Connector)
		ØD	L1	L2	B	S		
1D	0 bis 8	16	29	36	24	16,5	SWG-MRA-TS14-S-A	SWG-MRA-TS14-D-A
5D		.63	1.14	1.42	.94	.65		

Fastening Adaptor, type SWG-MRA are also suitable for Twin Series.

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Product Features

Fastening Adaptor for Direct Screw Mounting of STAUFF Mounting Rails Type TS-14 with Weld Studs M6 and Bolts M6 or 1/4-20 UNC (Support Sleeve / Washer Recommended)

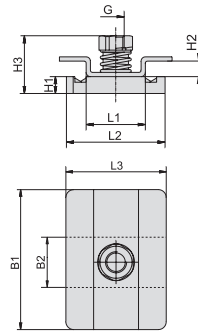
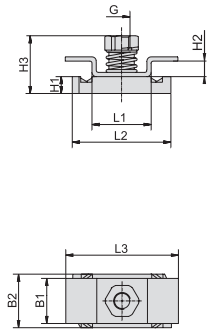
Material: Polyamide

Instructions for Use

- Are pressed into the side of the Mounting Rail TS-14 and bolted to the installation
- Positioning of the mounting rail 2 mm above the installation
- Initially designed for use with weld studs with internal thread M6
- Can also be used with M6 bolts – depending on the load, an internal support sleeve (e.g. 1130023624 LBBU-HUE-1/1D-SP-M6/U1/4-W3) and/or washer may be required
- Maximum recommended distance between two fastening adaptors of 222 mm (corresponds to a length of the mounting rail of 200 mm)
- In case of doubt, please consult STAUFF for information on maximum static and dynamic loads



Channel Rail Adaptor
(for Use with Various Channel Rails)
Type CRA



STAUFF Group 1D

STAUFF Group 2-3D / 4-5D

Group STAUFF	DIN	Dimensions (mm/in)									Ordering Codes (Standard Options)
		Thread G	L1	L2	L3	B1	B2	H1	H2	H3	
1D	1	M6	21	35	40	16	19	6	5,5	20,5	CRA-1-8/1D-M-W3
		1/4-20 UNC	.83	1.38	1.57	.63	.75	.24	.22	.81	CRA-1-8/1D-U-W3
2D	2	M8	21	35	38	53	19	9	5,5	23,5	CRA-2-3D-M-W3
		5/16-18 UNC	.83	1.38	1.50	2.09	.75	.35	.22	.93	CRA-2-3D-U-W3
3D	3										
4D	4										
5D	5	M8	21	35	38	80	19	9	5,5	23,5	CRA-4-5D-M-W3
		5/16-18 UNC	.83	1.38	1.50	3.15	.75	.3	.22	.93	CRA-4-5D-U-W3

Ordering Codes

Adaptor *CRA-*1-8/1D-*M-*W3

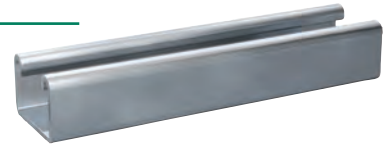
* Channel Rail Adaptor		CRA
* STAUFF Group	1D (DIN Group 1)	1-8/1D
	2D to 3D (DIN Group 2 to 3)	2-3D
	4D to 5D (DIN Group 4 to 5)	4-5D
* Thread code	Metric ISO thread	M
	Unified coarse (UNC) thread	U
* Material code	Carbon Steel, zinc/nickel-plated	W3
	Stainless Steel V4A	W5
	1.4401 / 1.4571 (AISI 316 / 316 Ti)	

The Channel Rail Adaptor, type CRA 1-8/1D is also suitable for Standard Series, STAUFF Group 1 to 8.

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

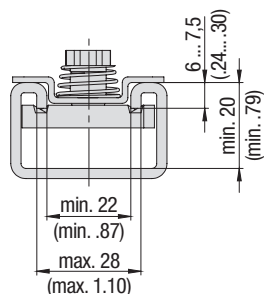
Compatibility with Channel Rails

The STAUFF Channel Rail Adaptor, type CRA, is suitable for various channel rails, including the following types:



HALFEN	HILTI	UNISTRUT®	STAUFF (Cushion Clamp Series)
HM 41/41	MQ-21, MQ-41, MQ-52, MQ-72	P1000, P1000T, P1000V, P1000VT, P1001	SCS-048-1-PL, SCS-048-1-GR
HZA 41/22	MQ-21U, MQ-41U, MQ-72U	P2000, P2000T	SCS-120-1-PL, SCS-120-1-GR
HZM 41/41	MQ-21D, MQ-41D, MQ-52-72D	P3003, P3003T, P3300V, P3300VT, P3301	See page 149 for technical information.
HZM 41/22		P4000, P4000T	
HL 41/41, HL 41/B2		P5000, P5000T, P5001, P5500, P5500T, P5501	

Contact STAUFF to check compatibility with additional types of channel rails.

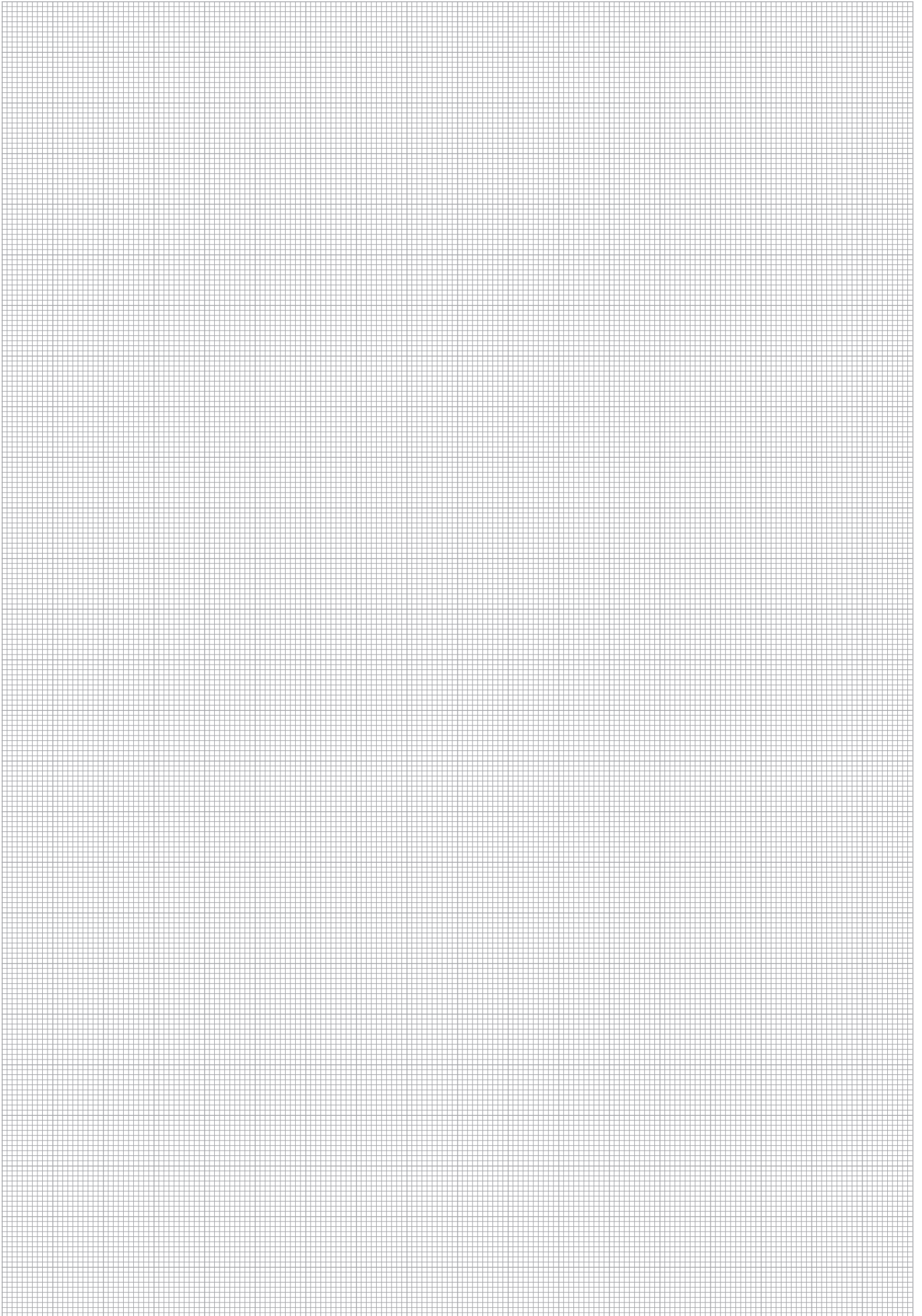


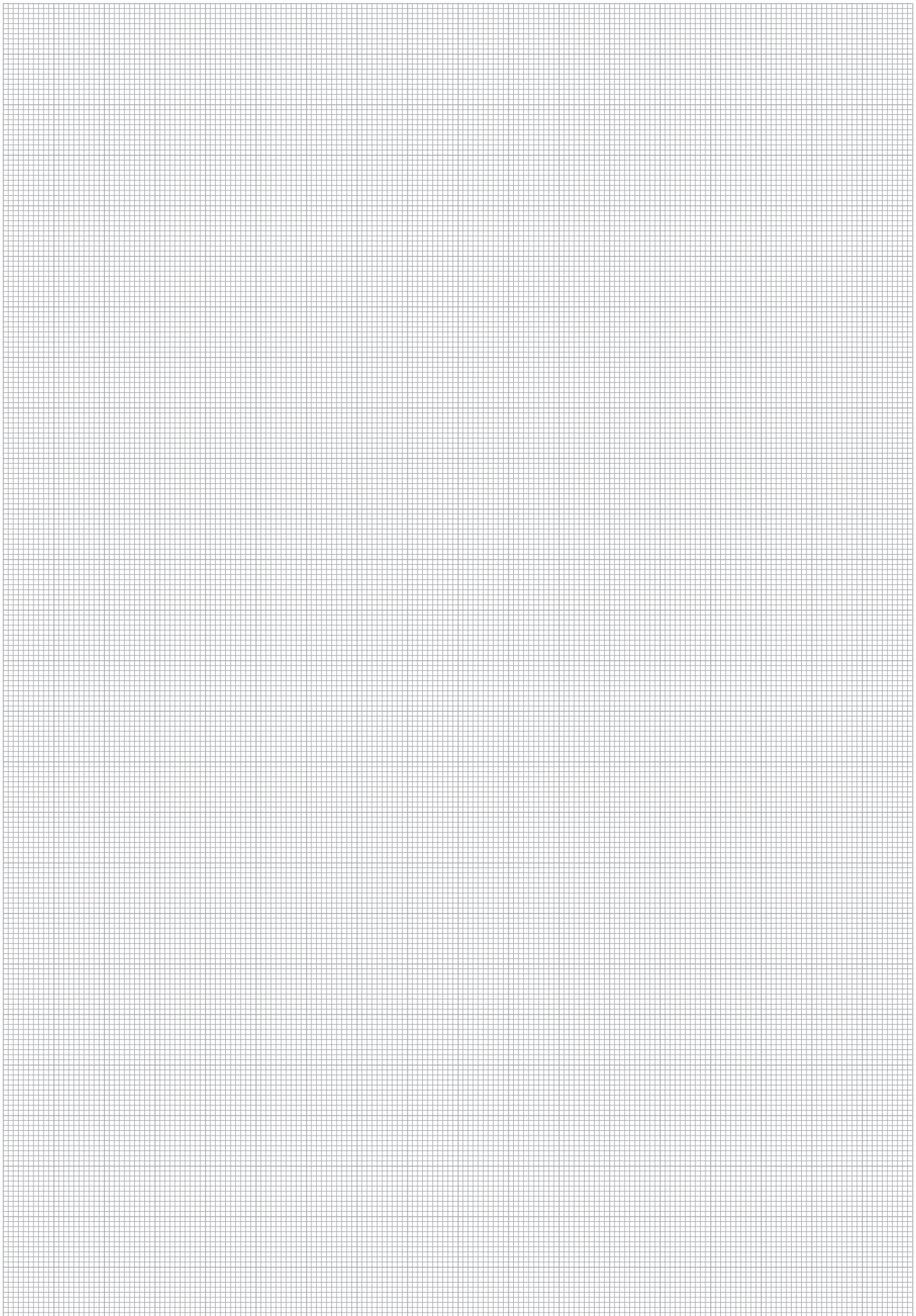
Basic dimensional requirements for channel rails to be used with STAUFF Channel Rail Adaptors, type CRA

Dimensional drawings: All dimensions in mm (in).

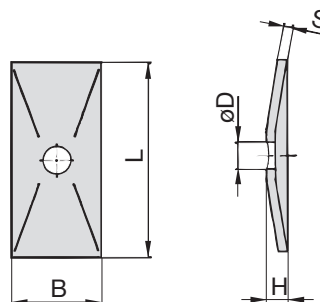


C





Cover Plate Type GD



Ordering Codes

Cover Plate

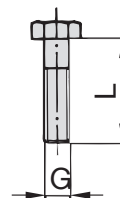
***GD-*1D-*W3**

* Cover Plate		GD
* STAUFF Group		1D
* Material code	Carbon Steel, zinc/nickel-plated	W3
	Stainless Steel V2A	W4
	1.4301 / 1.4305 (AISI 304 / 303)	W4
	Stainless Steel V4A	W5
	1.4401 / 1.4571 (AISI 316 / 316 Ti)	W5

Group STAUFF	DIN	Dimensions (mm/in)					Ordering Codes (Standard Options)
		L	B	H	S	ØD	
1D	1	34	30	7	3	7	GD-1D-W3
		1.34	1.18	.28	.12	.28	
2D	2	52	30	7	3	9	GD-2D-W3
		2.05	1.18	.28	.12	.35	
3D	3	65	30	7	3	9	GD-3D-W3
		2.56	1.18	.28	.12	.35	
4D	4	79	30	7	3	9	GD-4D-W3
		3.11	1.18	.28	.12	.35	
5D	5	102	30	7	3	9	GD-5D-W3
		4.02	1.18	.28	.12	.35	

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Hexagon Head Bolt Type AS



Hexagon Head Bolt AS

(according to DIN 931 / 933 or ANSI / ASME B18.2.1.)

Dimensions applicable only when used with Cover Plate GD

Ordering Codes

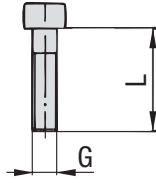
Hexagon Head Bolt *AS-*M8x35-*W3

* Type of bolt	Hexagon Head Bolt (according to DIN 931 / 933 or ANSI / ASME B18.2.1.)	AS
* Thread type and size acc. to dimension table	M8x35	
* Material code	Carbon Steel, zinc/nickel-plated	W3
	Stainless Steel V2A	W4
	1.4301 / 1.4305 (AISI 304 / 303)	W4
	Stainless Steel V4A	W5
	1.4401 / 1.4571 (AISI 316 / 316 Ti)	W5

Group STAUFF	DIN	Dimensions (mm/in)		Ordering Codes (Standard Options)
		Thread G x L		
1D	1	M6 x 35		AS-M6x35-W3
		1/4-20 UNC x 1-3/8		AS-1/4-20UNCx1-3/8-W3
2D	2	M8 x 35		AS-M8x35-W3
		5/16-18 UNC x 1-3/8		AS-5/16-18UNCx1-3/8-W3
3D	3	M8 x 45		AS-M8x45-W3
		5/16-18 UNC x 1-3/4		AS-5/16-18UNCx1-3/4-W3
4D	4	M8 x 50		AS-M8x50-W3
		5/16-18 UNC x 2		AS-5/16-18UNCx2-W3
5D	5	M8 x 60		AS-M8x60-W3
		5/16-18 UNC x 2-1/2		AS-5/16-18UNCx2-1/2-W3

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



**Socket Cap Screw
Type IS**


Socket Cap Screw IS
(according to ISO 4762 or ANSI / ASME B18.3)
Dimensions applicable only when used with Cover Plate GD


C

Group STAUFF	DIN	Dimensions (mm/in) Thread G x L	Ordering Codes (Standard Options)
1D	1	M6 x 35	IS-M6x35-W3
		1/4-20 UNC x 1-3/8	IS-1/4-20UNCx1-3/8-W3
2D	2	M8 x 35	IS-M8x35-W3
		5/16-18 UNC x 1-3/8	IS-5/16-18UNCx1-3/8-W3
3D	3	M8 x 45	IS-M8x45-W3
		5/16-18 UNC x 1-3/4	IS-5/16-18UNCx1-3/4-W3
4D	4	M8 x 50	IS-M8x50-W3
		5/16-18 UNC x 2	IS-5/16-18UNCx2-W3
5D	5	M8 x 60	IS-M8x60-W3
		5/16-18 UNC x 2-1/2	IS-5/16-18UNCx2-1/2-W3

Ordering Codes
Socket Cap Screw *IS-*M8x35-*W3

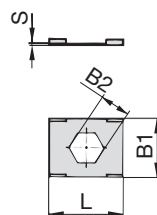
* Type of bolt	Socket Cap Screw (according to ISO 4762 or ANSI / ASME B18.3)	IS
* Thread type and size acc. to dimension table	M8x35	
* Material code	Carbon Steel, zinc/nickel-plated	W3
	Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303)	W4
	Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)	W5

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



Safety Locking Plate

Type SI (for Use with Stacking Bolt AF)



Safety Locking Plate SI
(Prevents Stacking Bolt from Loosening)

Ordering Codes

Safety Locking Plate ***SI-*1D-*W3**

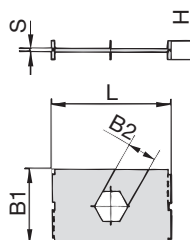
- * Safety Locking Plate **SI**
- * STAUFF Group 1D (DIN Group 1) **1D**
2D to 5D (DIN Group 2 to 5) **2-5D**
- * Material code Carbon Steel, zinc/nickel-plated **W3**
Stainless Steel V2A **W4**
1.4301 / 1.4305 (AISI 304 / 303)
Stainless Steel V4A **W5**
1.4401 / 1.4571 (AISI 316 / 316 Ti)

Group STAUFF	DIN	Dimensions (mm/in)				Ordering Codes (Standard Options)
		L	B1	B2	S	
1D	1	27	22	11,2	0,5	SI-1D-W3
		1.06	.86	.44	.02	
2D	2	27	22	12,2	0,5	SI-2-5D-W3
3D	3					
4D	4	1.06	.86	.48	.02	
5D	5					

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Safety Locking Plate

Type SIV (for Use with Stacking Bolt AF)



Safety Locking Plate SIV
(Prevents Stacking Bolt from Loosening and Upper Clamp from Turning)

Ordering Codes

Safety Locking Plate ***SIV-*1D-*W3**

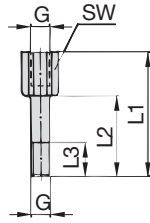
- * Safety Locking Plate **SIV**
- * STAUFF Group 1D (DIN Group 1) **1D**
2D to 3D (DIN Group 2 to 3) **2-3D**
- * Material code Carbon Steel, zinc/nickel-plated **W3**
Stainless Steel V4A **W5**
1.4401 / 1.4571 (AISI 316 / 316 Ti)

Group STAUFF	DIN	Dimensions (mm/in)					Ordering Codes (Standard Options)
		L	B1	B2	S	H	
1D	1	27	28	11,1	1	7	SIV-1D-W3
		1.06	1.10	.44	.04	.27	
2D	2	45	28	12,1	1	7	SIV-2-3D-W3
3D	3	1.77	1.10	.48	.04	.27	

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



Stacking Bolt
(for Use with Safety Locking Plates SI / SIV) **Type AF**



C

Group STAUFF	DIN	Dimensions (mm / in)					Hex	Ordering Codes (Standard Options)
		Thread G	L1	L2	L3 min.			
1D	1	M6	34	20	12	11	AF-1/1A/1D-M-W3	
		1/4-20 UNC	1.33	.78	.47	.43	AF-1/1A/1D-U-W3	
2D	2	M8	33	20	12	12	AF-2D-M-W3	
		5/16-18 UNC	1.30	.78	.47	.47	AF-2D-U-W3	
3D	3	M8	44	29	12	12	AF-3D-M-W3	
		5/16-18 UNC	1.73	1.14	.47	.47	AF-3D-U-W3	
4D	4	M8	49	34	12	12	AF-4D-M-W3	
		5/16-18 UNC	1.92	1.33	.47	.47	AF-4D-U-W3	
5D	5	M8	61	46	12	12	AF-5D-M-W3	
		5/16-18 UNC	2.40	1.81	.47	.47	AF-5D-U-W3	

Ordering Codes

Stacking Bolt *AF-*1/1A/1D-*M-*W3

- * Stacking Bolt AF
- * STAUFF Group 1D
- * Thread code Metric ISO thread M
 Unified coarse (UNC) thread U
- * Material code Carbon Steel, zinc/nickel-plated W3
 Stainless Steel V2A W4
 1.4301 / 1.4305 (AISI 304 / 303)
 Stainless Steel V4A W5
 1.4401 / 1.4571 (AISI 316 / 316 Ti)

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.





Please see page 73 with detailed order examples for some of the most popular Twin Series clamp assemblies.

1 Type of Installation

Please select the type of installation (e.g. weld plates, rail nuts, etc.) and add the corresponding Code to position ① of the order code for your clamp assembly.

Without Installation Equipment
Code: **none**

Installation on Weld Plate

Single Weld Plate
Code: **SP**

Group Weld Plate
Code: **RAP**

Installation on Mounting / Channel Rail

Mounting Rail Nut
Code: **SM**

Channel Rail Adaptor
Code: **CRA**

2 Group Size & Diameters

Please select the required group size and diameter and add the corresponding Code to position ② of the order code for your clamp assembly.

Group	Outside Diameter	Availability of Clamp Body Materials & Designs		Code
		P / T / H	Type H	
STAUFF (DIN)	(mm)	Design	H	
1D (1)	6	●	●	106/06
	6,4	●	●	106.4/06.4
	8	●	●	108/08
	9,5	●	●	109.5/09.5
	10	●	●	110/10
	12	●	●	112/12
2D (2)	12,7	●	●	212.7/12.7
	13,5	●	●	213.5/13.5
	14	●	●	214/14
	15	●	●	215/15
	16	●	●	216/16
	17,2	●	●	217.2/17.2
3D (3)	18	●	●	218/18
	19	●	●	319/19
	20	●	●	320/20
	21,3	●	●	321.3/21.3
	22	●	●	322/22
	25	●	●	325/25
4D (4)	25,4	●	●	325.4/25.4
	26,9	●	●	426.9/26.9
	28	●	●	428/28
	30	●	●	430/30
	32	●	●	532/32
	33,7	●	●	533.7/33.7
5D (5)	35	●	●	535/35
	38	●	●	538/38
	40	●	●	540/40
	42	●	●	542/42

● Standard Option

3 Clamp Body Design & Material

Please select the design and material of your clamp body and add the corresponding Code to position ③ of the order code for your clamp assembly.

Please check the availability of the selected clamp body design and material according to the matrix table in ②.

Profiled Design

Polypropylene
Code: **PP**

Polypropylene (Colour: Black)
Code: **PP-BK**

Polyamide
Code: **PA**

Type H (Smooth)

Polypropylene
Code: **PP-H**

Polypropylene (Colour: Black)
Code: **PP-H-BK**

Polyamide
Code: **PA-H**

See pages 178 / 179 for material properties and technical information.

Please contact STAUFF for further details on fire-proof clamp body materials, tested and approved according to several international fire-protection standards.

4 Mounting & Fitting Combination

Please select the mounting and fitting combination (e.g. Bolts, Cover Plates, etc.) and add the corresponding Code to position ④ of the order code for your clamp assembly.

Installation with Cover Plate and Bolt

Cover Plate GD with Hexagon Head Bolt AS
Code: **GD-AS**

Cover Plate GD with Socket Cap Screw IS
Code: **GD-IS**

Installation with Locking Plate and Bolt

Safety Locking Plate SI with Stacking Bolt AF
Code: **SI-AF**

Safety Locking Plate SIV with Stacking Bolt AF
Code: **SIV-AF** (for STAUFF Group 1D to 3D only)

5 Thread Type

Please select the required thread type and add the corresponding Code to position ⑤ of the order code for your clamp assembly.

Metric ISO thread
Code: **M**

Unified coarse (UNC) thread
Code: **U**

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.

6 Material & Surface Finishing

Please select the required material & surface finishing of the metal parts and add the corresponding Code to position ⑥ of the order code for your clamp assembly.

Metal parts made of Carbon Steel, zinc/nickel-plated **W3**

Metal parts made of Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303) **W4**

Metal parts made of Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti) **W5**

Weld Plate made of Carbon Steel, phosphated; Other metal parts made of Carbon Steel, zinc/nickel-plated **W10**

Individual combinations of alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

7 Assembling & Kitting

If required, please select an additional assembling and kitting option and add the corresponding Code to the last position of the order code for your clamp assembly.

Components supplied separately
Code: **none** (standard option)

Components assembled
Code: **A** (special option)

Components packed in kits
Code: **K** (special option)



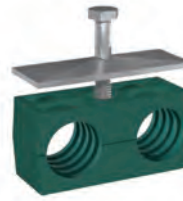


- 1x **Hexagon Head Bolt**
Surface: W3
Thread: Metric
- 1x **Cover Plate**
Surface: W3
- 1x **Clamp Body** (two halves)
STAUFF Group 1D (DIN 1)
both O.D. 6 mm / .24 in
Material: Polypropylene
Profiled inside surface
with tension clearance
- 1x **Weld Plate**
Surface: W2
Thread: Metric

Order Code

SP-106/06-PP-GD-AS-M-W10

W10 is the standard option for this type of installation.



- 1x **Hexagon Head Bolt**
Surface: W3
Thread: Metric
- 1x **Cover Plate**
Surface: W3
- 1x **Clamp Body** (two halves)
STAUFF Group 1D (DIN 1)
both O.D. 6 mm / .24 in
Material: Polypropylene
Profiled inside surface
with tension clearance

Order Code

106/06-PP-GD-AS-M-W3

W3 is the standard option for this type of installation.



- 1x **Stacking Bolt**
Surface: W3
Thread: Metric
- 1x **Safety Locking Plate (Type SI)**
Surface: W3
Thread: Metric
- 1x **Clamp Body** (two halves)
STAUFF Group 1D (DIN 1)
both O.D. 6 mm / .24 in
Material: Polypropylene
Profiled inside surface
with tension clearance

Order Code

106/06-PP-SI-AF-M-W3

W3 is the standard option for this type of installation.

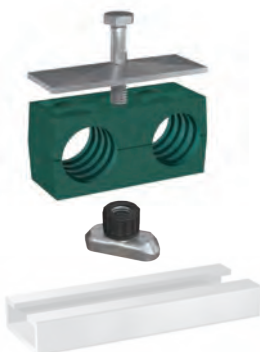


- 1x **Stacking Bolt**
Surface: W3
Thread: Metric
- 1x **Safety Locking Plate (Type SIV)**
Surface: W3
Thread: Metric
- 1x **Clamp Body** (two halves)
STAUFF Group 1D (DIN 1)
both O.D. 6 mm / .24 in
Material: Polypropylene
Profiled inside surface
with tension clearance

Order Code

106/06-PP-SIV-AF-M-W3

W3 is the standard option for this type of installation.
This type of installation is available up to STAUFF Group 3D only.



- 1x **Hexagon Head Bolt**
Surface: W3
Thread: Metric
- 1x **Cover Plate**
Surface: W3
- 1x **Clamp Body** (two halves)
STAUFF Group 1D (DIN 1)
both O.D. 6 mm / .24 in
Material: Polypropylene
Profiled inside surface
with tension clearance
- 1x **Hexagon Rail Nut**
Surface: W3
Thread: Metric

Order Code (Mounting Rail TS not included.)

SM-106/06-PP-GD-AS-M-W3

W3 is the standard option for this type of installation.

Thread Codes

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.

Metric ISO thread	M
Unified coarse (UNC) thread	U

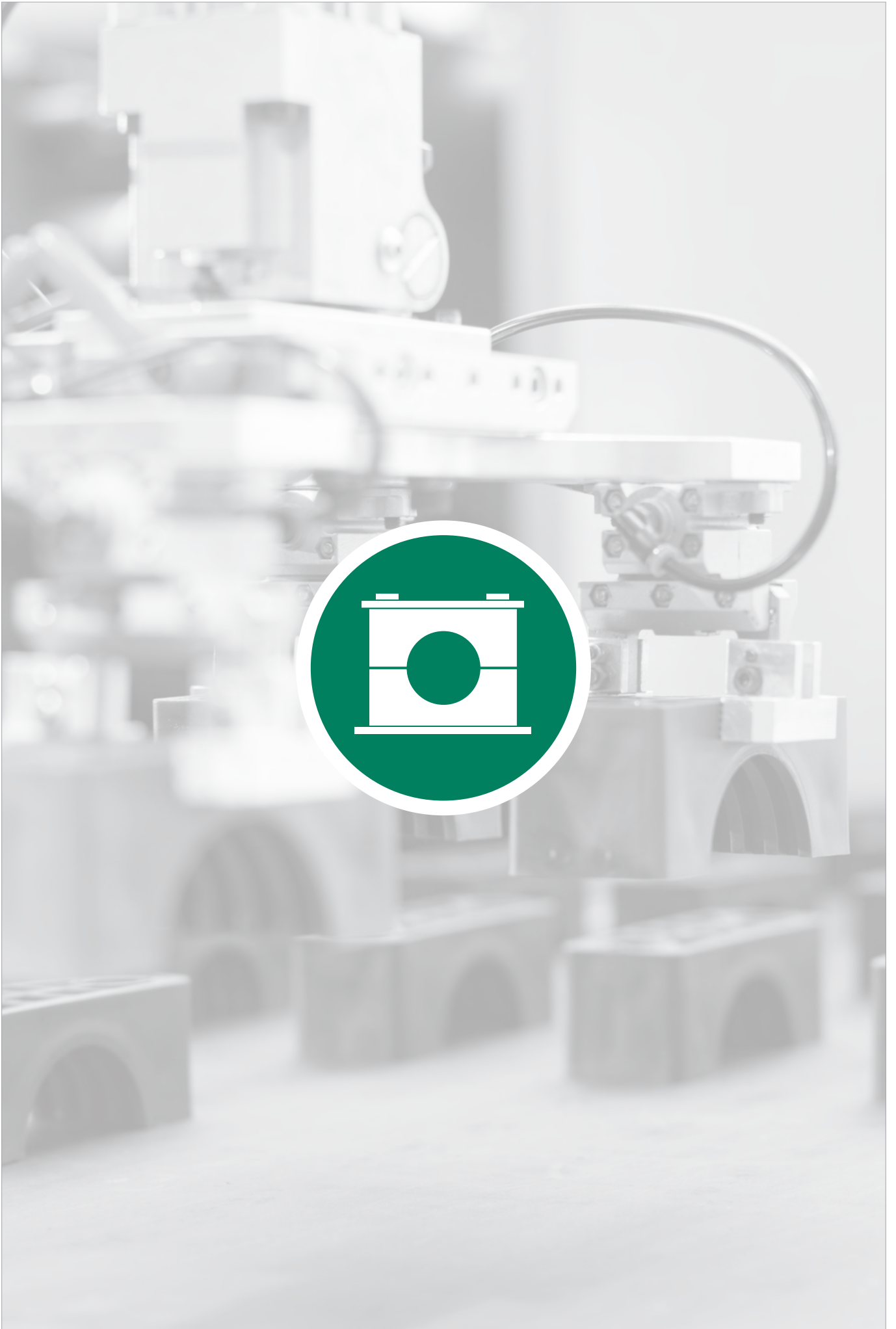
Material Codes












The below listed material codes describe the materials and surface finishings of metal parts that are most relevant for Twin Series clamp assemblies. Individual combinations of alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Metal parts made of Carbon Steel, zinc/nickel-plated	W3
Metal parts made of Stainless Steel V2A: 1.4301 / 1.4305 (AISI 304 / 303)	W4
Metal parts made of Stainless Steel V4A: 1.4401 / 1.4571 (AISI 316 / 316 Ti)	W5
Weld Plate made of Carbon Steel, phosphated	W10
Other metal parts made of Carbon Steel, zinc/nickel-plated	W10

C



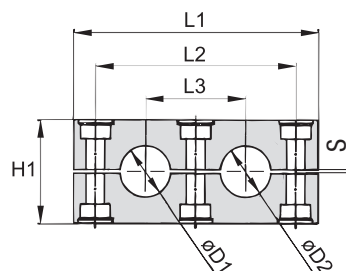
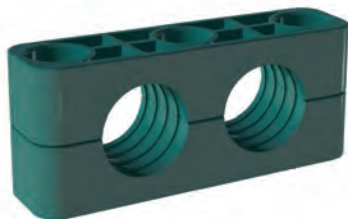


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Clamp Body - Profiled Design

Profiled Inside Surface with Tension Clearance



D

Ordering Codes

Clamp Body *4*012.7/12.7-*PP

One clamp body is consisting of two clamp halves.

- * 1st part of STAUFF Group **4**
- * Exact outside diameters Ø D1 / Ø D2 (mm) **012.7/12.7**
- * Material code (see below) **PP**

Standard Materials



Polypropylene
Colour: Green
Material code: **PP**



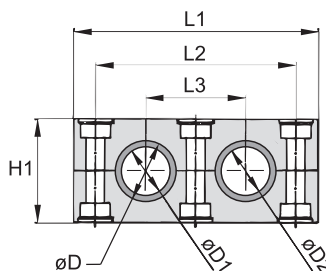
Polyamide
Colour: Black
Material code: **PA**

See pages 178 / 179 for material properties and technical information.

Group	Outside Diameter Pipe / Tube Ø D1 / Ø D2		Nominal Bore Pipe (in)	Copper Tube ASTM B88 (in)	Ordering Codes (2 Clamp Halves) (** = Material)	Dimensions (mm/in)					
	(mm)	(in)				L1	L2	L3	H1	S	Width
4S-D	12,7	1/2		3/8	4012.7/12.7-**-*	115 4.53	90 3.54	45 1.77	48 1.89	1,2 .05	30 1.18
	19	3/4			4019/19-**-*						
	20				4020/20-**-*						
	21,3		1/2		4021.3/21.3-**-*						
	22			3/4	4022/22-**-*						
	25,4	1			4025.4/25.4-**-*						
5S-D	26,9		3/4		4026.9/26.9-**-*	145 5.71	120 4.72	60 2.36	60 2.36	2,0 .08	30 1.18
	32	1-1/4			5032/32-**-*						
	33,7		1		5033.7/33.7-**-*						
	38	1-1/2			5038/38-**-*						
	42		1-1/4		5042/42-**-*						

Additional outside diameters and Clamp Bodies, type H (smooth inside surface without tension clearance) are available upon request. Please contact STAUFF for further information.

Clamp Body with Elastomer Inserts Type RI



For use with Elastomer Inserts of the Heavy Series, STAUFF Group 4S and 5S (see page 42 for details)

Ordering Codes

Clamp Assembly *4*006/06-*PP-R

One assembly is consisting of one clamp body and two inserts.

- * 1st part of STAUFF Group **4**
- * Exact outside diameters Ø D1 / Ø D2 (mm) **006/06**
- * Material code (see below) **PP-R**

Standard Materials



Polypropylene
Colour: Black
Material code: **PP-R**



Polyamide
Colour: Black
Material code: **PA-R**



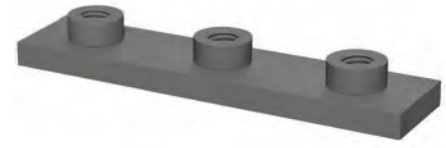
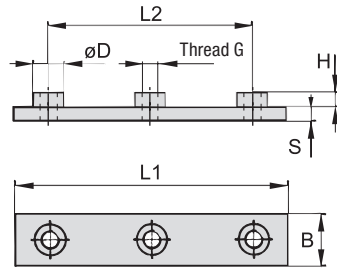
Elastomer Inserts
Thermoplastic Elastomer (73 Shore-A)
Colour: Black

Group	Outside Diameter Pipe / Tube / Hose Ø D1 / Ø D2		Ordering Codes (Clamp Assembly) (**R = Material)	Dimensions (mm/in)					
	(mm)	(in)		Ø D	L1	L2	L3	H1	Width
4S-D	6		4006/06-**-R	25 .98	115 4.53	90 3.54	45 1.77	48 1.89	30 1.18
	8	5/16	4008/08-**-R						
	10		4010/10-**-R						
	12		4012/12-**-R						
	12,7	1/2	4012.7/12.7-**-R						
	14		4014/14-**-R						
	15		4015/15-**-R						
	16	5/8	4016/16-**-R						
	17,2		4017.2/17.2-**-R						
	18		4018/18-**-R						
	19	3/4	4019/19-**-R						
5S-D	20		5020/20-**-R	38 1.50	145 5.71	120 4.72	60 2.36	60 2.36	30 1.18
	21,3		5021.3/21.3-**-R						
	22	7/8	5022/22-**-R						
	25		5025/25-**-R						
	26,9		5026.9/26.9-**-R						
	28		5028/28-**-R						
	30		5030/30-**-R						
	32	1-1/4	5032/32-**-R						

See pages 178 / 179 for properties and technical information.

Additional outside diameters are available upon request. Please contact STAUFF for further information.



**Weld Plate
Type SPAD**


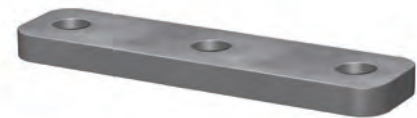
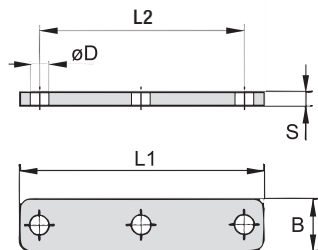
Group STAUFF	Dimensions (mm/in)		B	S	H	Thread G	ØD	Ordering Codes (Standard Options)
	L1	L2						
4S-D	130	90	30	8	8,5	M10	18	SPAD-4S-M-W1
	5.12	3.54	1.18	.31	.33	3/8-16 UNC	.71	SPAD-4S-U-W2*
5S-D	160	120	30	8	8,5	M10	18	SPAD-5S-M-W1
	6.30	4.72	1.18	.31	.33	3/8-16 UNC	.71	SPAD-5S-U-W2*

All threaded parts are available with Metric ISO thread or unified Coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

* Standard finishing option in North America is W2 (Carbon Steel, phosphated).

Ordering Codes
Weld Plate
***SPAD-*4S-*M-*W1**

* Weld Plate		SPAD
* STAUFF Group	4S-D	4S
	5S-D	5S
* Thread code	Metric ISO thread	M
	Unified coarse (UNC) thread	U
* Material code	Carbon Steel, uncoated	W1
	Carbon Steel, phosphated	W2
	Carbon Steel, zinc/nickel-plated	W3
	Stainless Steel V2A	
	1.4301 / 1.4305 (AISI 304 / 303)	W4
	Stainless Steel V4A	
	1.4401 / 1.4571 (AISI 316 / 316 Ti)	W5

**Cover Plate
Type DPAD**


Group STAUFF	Dimensions (mm/in)		B	S	ØD	Ordering Codes (Standard Options)
	L1	L2				
4S	115	90	30	8	11	DPAD-4S-W1*
	4.53	3.54	1.18	.31	.43	
5S	145	120	30	8	11	DPAD-5S-W1*
	5.71	4.72	1.18	.31	.43	

All threaded parts are available with Metric ISO thread or unified Coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

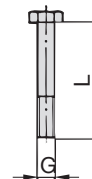
* Standard finishing option in North America is W3 (Carbon Steel, phosphated).

Ordering Codes
Cover Plate
***DPAD-*4S-*W1**

* Cover Plate		DPAD
* STAUFF Group	4S-D	4S
	5S-D	5S
* Material code	Carbon Steel, uncoated	W1
	Carbon Steel, phosphated	W2
	Carbon Steel, zinc/nickel-plated	W3
	Stainless Steel V2A	
	1.4301 / 1.4305 (AISI 304 / 303)	W4
	Stainless Steel V4A	
	1.4401 / 1.4571 (AISI 316 / 316 Ti)	W5



Hexagon Head Bolt Type AS



Hexagon Head Bolt AS

(according to DIN 931 / 933 or ANSI / ASME B18.2.1.)
Dimensions applicable only when used with Cover Plate DPAD

D

Ordering Codes

Hexagon Head Bolt *AS-*M10x70-*W1

* Type of bolt	Hexagon Head Bolt (according to DIN 931 / 933 or ANSI / ASME B18.2.1.)	AS
* Thread type and size acc. to dimension table	M10x70	
* Material code	Carbon Steel, uncoated	W1
	Carbon Steel, zinc/nickel-plated	W3
	Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303)	W4
	Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)	W5

Group STAUFF	DIN	Dimensions (mm / in) Thread G x L	Ordering Codes (Standard Options)
4S	2	M10 x 60	AS-M10x60-W1
		3/8-16 UNC x 2-1/4	AS-3/8-16UNCx2-1/4-W3*
5S	3	M10 x 70	AS-M10x70-W1
		3/8-16 UNC x 2-3/4	AS-3/8-16UNCx2-3/4-W3*

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

If required, use Safety Washers, type SI as locking devices to prevent Hexagon Head Bolts, type AS from loosening. See page 52 for details.

* Standard finishing option in North America is W3 (Carbon Steel, zinc/nickel-plated).

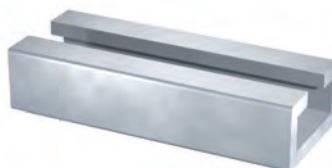
Further Metal Hardware

For Use with the Heavy Twin Series



**Mounting Rail Nut
Type GMV**

Heavy Series, STAUFF Group 4S and 5S
(See page 46 for details)



**Mounting Rail
Type STSV**

Heavy Series
(See page 46 for details)



**Channel Rail Adaptor
Type CRA**

Heavy Series, STAUFF Group 4S and 5S
(See page 47 for details)



**Socket Cap Screw
Type IS**

Heavy Series, STAUFF Group 4S and 5S
(See page 51 for details)



**Safety Locking Plate
Type SIPD**

Heavy Twin Series, STAUFF Group 4S-D and 5S-D
(Contact STAUFF for details)



**Stacking Bolt
Type AF**

Heavy Series, STAUFF Group 4S and 5S
(See page 53 for details)





① Type of Installation

Please select the type of installation (e.g. Weld Plates, Rail Nuts etc.) and add the corresponding **Code** to position ① of the order code for your clamp assembly.

Without Installation Equipment
Code: **none**

Installation on Weld Plate

Single Weld Plate
Code: **SPAD**

Installation on Mounting / Channel Rail

Mounting Rail Nut
Code: **GMV**

Channel Rail Adaptor
Code: **CRA**

② Group Size & Diameters

Please select the required group size and diameter and add the corresponding **Code** to position ② of the order code for your clamp assembly.

Group	Outside Diameter P / T / H (mm)	Availability of Clamp Body Materials & Designs		Code
		Profiled Design	Type RI	
4S-D	6	○	●	4006/06
	8	○	●	4008/08
	10	○	●	4010/10
	12	○	●	4012/12
	12.7	●	●	4012.7/12.7
	14	○	●	4014/14
	15	○	●	4015/15
	16	○	●	4016/16
	17.2	○	●	4017.2/17.2
	18	○	●	4018/18
	19	●	●	4019/19
	20	●	○	4020/20
	21.3	●	○	4021.3/21.3
	22	●	○	4022/22
	25.4	●	○	4025.4/25.4
26.9	●	○	4026.9/26.9	
5S-D	20	○	●	5020/20
	21.3	○	●	5021.3/21.3
	22	○	●	5022/22
	25	○	●	5025/25
	26.9	○	●	5026.9/26.9
	28	○	●	5028/28
	30	○	●	5030/30
	32	●	●	5032/32
	33.7	●	○	5033.7/33.7
	38	●	○	5038/38
42	●	○	5042/42	

● Standard Option

③ Clamp Body Design & Material

Please select the design and material of your clamp body and add the corresponding **Code** to position ③ of the order code for your clamp assembly.

Please check the availability of the selected clamp body design and material according to the matrix table in ②.

Profiled Design

Polypropylene
Code: **PP**

Polyamide
Code: **PA**

Type RI (with Elastomer Insert)

Polypropylene
Code: **PP-R**

Polyamide
Code: **PA-R**

Clamp Bodies, Type H (smooth Inside surface without tension clearance) are available upon request. Please contact STAUFF for further information.

④ Mounting & Fitting Combination

Please select the mounting and fitting combination (e.g. Bolts, Cover Plates etc.) and add the corresponding **Code** to position ④ of the order code for your clamp assembly.

Installation with Cover Plate and Bolts

Cover Plate DPAD with Hexagon Head Bolt AS
Code: **DPAD-AS**

Installation with Locking Plate and Bolts

Safety Locking Plate SIPD with Stacking Bolt AF
Code: **SIPD-AF**

⑤ Thread Type

Please select the required thread type and add the corresponding **Code** to position ⑤ of the order code for your clamp assembly.

Metric ISO thread
Code: **M**

Unified coarse (UNC) thread
Code: **U**

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.

⑥ Material & Surface Finishing

Please select the required material & surface finishing of the metal parts and add the corresponding **Code** to position ⑥ of the order code for your clamp assembly.

Metal parts made of Carbon Steel, uncoated **W1**

Metal parts made of Carbon Steel, phosphated **W2**

Metal parts made of Carbon Steel, zinc/nickel-plated **W3**

Metal parts made of Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303) **W4**

Metal parts made of Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti) **W5**

Weld Plate made of Carbon Steel, phosphated; Other metal parts made of Carbon Steel, zinc/nickel-plated **W10**

Weld Plate and Cover Plate made of Carbon Steel, phosphated; Bolts made of Carbon Steel, uncoated **W12**

Mounting Rail Nuts made of Carbon Steel, zinc/nickel-plated; Cover Plate made of Carbon Steel, phosphated; Bolts made of Carbon Steel, uncoated **W13**

Weld Plate / Cover Plate made of Carbon Steel, phosphated; Bolts made of Carbon Steel, zinc/nickel-plated **W15**

Mounting Rail Nuts made of Carbon Steel, zinc/nickel-plated; Cover Plate made of Carbon Steel, phosphated; Bolts made of Carbon Steel, zinc/nickel-plated **W16**

Safety Locking Plate made of Carbon Steel, phosphated; Bolts made of Carbon Steel, zinc/nickel-plated **W17**

Safety Locking Plate made of Carbon Steel, uncoated; Bolts made of Carbon Steel, phosphated **W18**

Cover Plate made of Carbon Steel, phosphated; Bolts made of Carbon Steel, uncoated **W19**

Individual combinations of alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

⑦ Assembling & Kitting

If required, please select an additional assembling and kitting option and add the corresponding **Code** to the last position of the order code for your clamp assembly.



Components Supplied Separately
Code: **none** (Standard Option)

Components Assembled
Code: **A** (Special Option)

Components Packed in Kits
Code: **K** (Special Option)



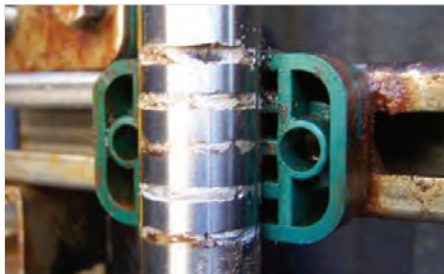


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E


STAUFF ACT
Anti-Corrosion Technology

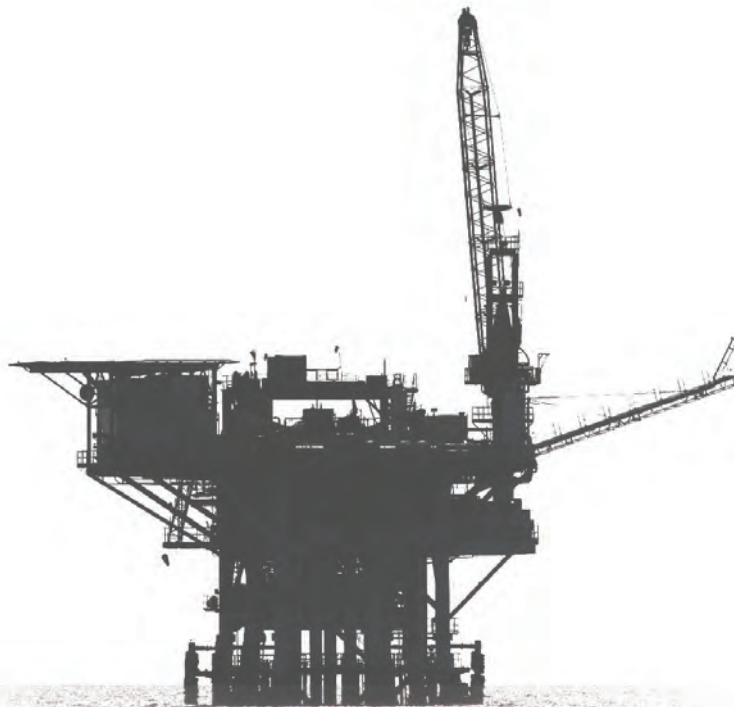
E



Crevice corrosion formed under a regular plastic clamp



Crevice corrosion formed under a regular plastic clamp



Stainless Steel Pipework

Stainless steel pipework on oil and gas platform and processing plants (that are located offshore and up to 50 km inland) is used over a wide range of temperature, flow and pressure conditions, e.g. for process instrumentation and sensing, as well as for chemical inhibition, hydraulic or utility lines.

The typical tubing material selected for these particular applications is AISI 316 stainless steel, although in more recent times other tube materials have been utilized to try and counteract the offshore corrosion issue.

In all major offshore oil and gas regions – including the Gulf of Mexico, the North Sea, the Gulf of Guinea and the China Sea – corrosion of AISI 316 stainless steel pipework can be observed, and has been a researched and well documented problem as well as a costly and time consuming issue with regard to maintenance processes for many years.

Pitting Corrosion

One of the most prevalent forms of localised corrosion is pitting corrosion: Under certain specific conditions – particularly involving chlorides (such as sodium chloride in seawater) and exacerbated by elevated temperatures – small pits can form in a stainless steel surface.

Dependent upon both the environment and the stainless steel itself, these pits may continue to grow and eventually lead to perforation of tubing walls and leaks, while the majority of the surface may still be totally unaffected.

Pitting corrosion is often quite easy to recognise: small individual pits and – in later stages – sometimes deeper and connected pits can be observed by visual inspection with the unaided eye.

Crevice Corrosion

Another dominant type is crevice corrosion, which is a lot more difficult to observe: It usually tends to occur in shielded areas such as crevices, formed under gaskets, washers, fastener heads, insulating material, surface deposits, disbanded coatings, threads and lap joints.

Pipe clamps made of plastic in particular have also been prone to inducing crevice corrosion in the past, because the plastic deforms around the tubing and creates even tighter crevices.

Crevice corrosion is always initiated by changes in the local chemistry within the shielded area, usually associated with a stagnant solution on the micro-environmental level:

- Trapped seawater becomes stagnant
- Depletion of inhibitor and oxygen
- A shift to acid conditions
- Build-up of aggressive ion species (such as sodium chloride in seawater)
- Accelerated corrosion process

Crevice corrosion can have serious and adverse consequences eventually leading to perforation of tubing walls and the escape of highly flammable and hazardous fluids and chemicals.

Material Selection

Hence, the selection of proper materials and the use of robust design and safe construction practices are mandatory, even if crevices are sometimes difficult or even impossible to avoid in tubing installations when using regular types of tubing supports and clamps.

This is where STAUFF ACT Clamps come into play ...

Corrosion Facts

Corrosion in general is a naturally occurring phenomenon commonly defined as the deterioration of a substance (usually a metal) or its properties because of a reaction with its environment. Like other natural hazards, corrosion can cause not only expensive but also dangerous damage to almost everything from automobiles, home appliances and drinking water systems to pipelines, bridges and public buildings.

Figures provided by the U.S. National Climatic Data Center underline that major weather related disasters the U.S. incurred total losses of averaging USD 17 billion annually (1980 – 2001). According to U.S. corrosion studies, the estimated direct cost of metallic corrosion in general was USD 276 billion on an annual basis in 1998. This represented 3,1% of the U.S. Gross Domestic Product.

Direct corrosion costs associated with the domestic oil and gas production activities in the U.S. were determined to be about USD 1,4 billion annually, with USD 0,6 billion attributed to surface piping and facility costs, USD 0,5 billion to downhole tubing, and USD 0,3 billion to capital expenditures related to corrosion.

The U.S. refineries represent approximately 23% of the world's petroleum production in 1996 supplying more than 18 million barrels of refined petroleum products per day, with a total corrosion related direct cost of USD 3,7 billion. Maintenance expenses make up USD 1,8 billion of this total, vessel expenses are USD 1,4 billion and fouling costs are approximately USD 0,5 billion annually.

Source of Information: Report No. FHWA-RD-01-156, September 2001 **Corrosion Costs and Preventive Strategies in the United States** Report by CC Technologies Laboratories, Inc. to Federal Highway Administration Office of Infrastructure Research and Development



Main Features

Efficient Prevention of Crevice Corrosion under Pipe Clamps on Stainless Steel Pipework
Middle- and Long-Term Cost Savings due to Extended Service and Maintenance Intervals

Technology protected
by utility model patent



Construction based on STAUFF Clamps

- Design based on Original STAUFF Clamps according to DIN 3015, Parts 1 and 3 (Standard Series and Twin Series), the tried and tested industry standard for several decades
- Covering the most commonly used metric and imperial pipe diameters from 6 mm to 42 mm (from 1/4 inch to 1 1/2 inch)
- Alternative configurations and pipe diameters on request
- Installation time reduction (compared to alternative designs)

Independent Testing and Approval

- Subject to stringent testing at the STAUFF in-house laboratories located in Werdohl (Germany)
- Salt spray tests according to ASTM B117 applied in controlled laboratory environments
- Long-term field tested on a rig in the Dutch sector of the North Sea
- Tests results independently assessed by Centre for Corrosion Technology at Sheffield Hallam University
- Fully detailed, independent test reports available on request

Innovative Design and Materials

- Material and design in compliance with section 7.3 (Tubing Installation) of the Norwegian offshore standard Norsok Z-010 (Revision 3, published in October 2000), API RP 552 and NACE SP 0108-2008 (section 13)
- ① Clamp body made of flame-retardant PP-V0 plastic material; tested and V0 classified according to UL 94
- ② Integrated ACE anti-corrosion elastomer strips avoid the accumulation of seawater between clamp body and pipe
- ③ Drainage channels aid the dispersal of seawater (self-draining)

- ④ ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling (delivered in hermetically-sealed quality storage bags with 25 pieces each to avoid contamination during transport)
- High UV stability of the clamp body material; resistant against seawater, rain and oil
- Suitable for continuous exposure to temperatures from -25 °C to +80 °C (from -13 °F to +176 °F)
- To be used in sub-sea and top-side environments; alleviating the requirement for two different products



Salt-spray testing of ACT Mounting Hardware (above of the picture) compared to contaminated hardware made of Stainless Steel V4A (below of the picture)

Design

STAUFF ACT Clamps are an innovatively designed solution for the installation of instrumentation pipework where anti-corrosion properties are of paramount importance (e.g. in the fields of offshore oil and gas exploration and processing).

The design – based on the tried and tested STAUFF Clamps according to DIN 3015 – offers installation time reduction and long term cost savings due to extended service intervals.

The STAUFF ACT clamp body design is available for the Standard Series (DIN 3015, Part 1) and the Twin Series (DIN 3015, Part 3) to cover the most commonly used metric and imperial pipe diameters from 6 mm to 42 mm (1/4 inch to 1 1/2 inch).

Development

Throughout their development, STAUFF ACT Clamps have been subject to stringent testing at the STAUFF in-house laboratories located in Werdohl, Germany.

In order to ensure credibility of the product, the development process has also involved independent testing.

In a controlled laboratory environment, continuous hot salt spray tests according to ASTM B117 have been applied for periods of 2000 hours to various clamp configurations holding AISI 316 stainless steel tubing.



In addition to that, independent field test samples – located on an oil rig in the Dutch sector of the North Sea – have also been assessed at the Sheffield Hallam University facilities.

Both independent tests have recorded positive results in favour of the anti-corrosion attributes of the STAUFF ACT Clamp. Fully detailed test reports are available upon request.

The Norsok Organisation



Norsok is a Norwegian industry initiative to add value, reduce cost and lead time and remove unnecessary activities in offshore field developments and operations.

The Norsok standards are developed by the Norwegian petroleum industry and are jointly issued by the Norwegian Oil Industry Association (OLF) and the Federation of Norwegian Engineering Industries (TBL). They are administered by the Norwegian Technology Standards Institution (NTS).

The purpose of the Norsok industry standards is to replace the individual oil company specifications for use in existing and future petroleum industry developments, subject to the individual company's review and application.



To achieve this, the services of the Centre for Corrosion Technology at Sheffield Hallam University's Materials and Engineering Research Institute have been utilized, applying advanced techniques with equipment such as high resolution surface metrology and form measurement systems.

Conformity

Using flame-retardant PP-V0 plastic material for the clamp body and ACE anti-corrosion elastomer material for the rubber strips, STAUFF ACT Clamps have been constructed in compliance with section 7.3 (Tubing Installation) of the Norwegian offshore standard Norsok Z-010 (Revision 3, published in October 2000). They also comply with Norsok I-001 (Revision 4, published in January 2010), API RP 552 and NACE SP 0108-2008 (section 13).





ACT Mounting Hardware Installation on Single Weld Plates

Required components (for use with single weld plate):

- 2 ACT Hexagon Head Bolts AS...W55
- 1 ACT Cover Plate DP...W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 ACT Single Weld Plate SP...W55

Before welding, always make sure that the designated position of the ACT Weld Plate is suitable for the expected loads.

Material Code **W55** ACT Mounting Hardware Material Properties and Handling Instructions

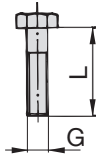
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

ACT Mounting Hardware is always delivered in hermetically-sealed quality storage bags with 25 pieces each to avoid contamination during transport.

Always make sure that ACT Mounting Hardware is stored separately from carbon steel and any other metals, and that appropriate tools are used to assemble the clamps.

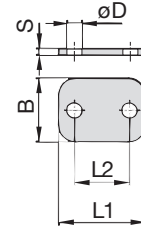
Details: www.stauff.com/act/assembly

ACT Hexagon Head Bolt Type AS ... W55 (according to DIN 931 / 933)



Dimensions applicable only when used with Cover Plate DP and Weld Plate SP

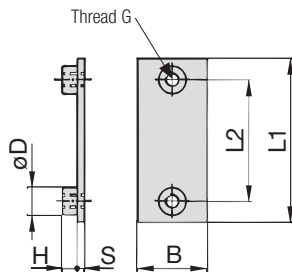
ACT Cover Plate Type DP ... W55



Group STAUFF	DIN	Dimensions (mm/in) Thread G x L	Ordering Code	Packaging Unit (in pieces / bag)
1A	1	M6 x 30	AS-M6x30-W55	25
		M6 x 1.18		
2	2	M6 x 35	AS-M6x35-W55	25
		M6 x 1.38		
3	3	M6 x 40	AS-M6x40-W55	25
		M6 x 1.57		
4	4	M6 x 45	AS-M6x45-W55	25
		M6 x 1.77		
5	5	M6 x 60	AS-M6x60-W55	25
		M6 x 2.36		
7M		M10 x 110 M10 x 4.33	AS-M10x110-W55	25
8M		M10 x 145 M10 x 5.71	AS-M10x145-W55	25

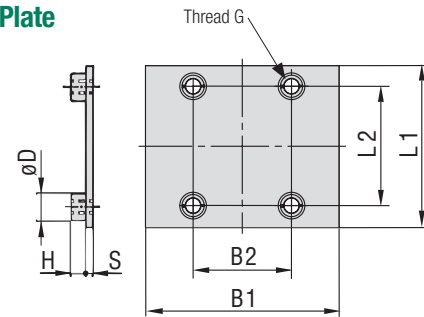
Group STAUFF	DIN	Dimensions (mm/in)					Ordering Code	Packaging Unit (in pieces / bag)
		L1	L2	B	S	ØD		
1A	1	34	20	30	3	7	DP-1A-W55	25
		1.34	.79	1.18	.12	.28		
2	2	40.5	26	30	3	7	DP-2-W55	25
		1.59	1.02	1.18	.12	.28		
3	3	48	33	30	3	7	DP-3-W55	25
		1.89	1.30	1.18	.12	.28		
4	4	57	40	30	3	7	DP-4-W55	25
		2.24	1.57	1.18	.12	.28		
5	5	70	52	30	3	7	DP-5-W55	25
		2.76	2.05	1.18	.12	.28		
7M		125	100	40	8	11	DP-7M-W55	25
		4.92	3.94	1.57	.31	.43		
8M		165	140	45	8	11	DP-8M-W55	25
		6.50	5.51	1.77	.31	.43		

ACT Single Weld Plate Type SP ... W55



Group STAUFF	DIN	Dimensions (mm/in)	Ordering Code	Packaging Unit (in pieces / bag)
		G L1 L2 B S H ØD		
1A	1	M6 36 20 30 3 6,5 12	SP-1A-M-W55	25
		1.42 0.79 1.18 .12 .26 .47		
2	2	M6 42 26 30 3 6,5 12	SP-2-M-W55	25
		1.65 1.02 1.18 .12 .26 .47		
3	3	M6 50 33 30 3 6,5 12	SP-3-M-W55	25
		1.97 1.30 1.18 .12 .26 .47		
4	4	M6 60 40 30 3 6,5 12	SP-4-M-W55	25
		2.36 1.57 1.18 .12 .26 .47		
5	5	M6 71 52 30 3 6,5 12	SP-5-M-W55	25
		2.80 2.05 1.18 .12 .26 .47		
7M		M10 125 100 40 8 5,3 14	SP-7M-M-W55	25
		4.92 3.94 1.58 .31 .21 .55		
8M		M10 165 140 45 8 5,3 14	SP-8M-M-W55	25
		6.50 5.51 1.77 .31 .21 .55		

ACT Double Weld Plate Type SPD ... W55



Group STAUFF	DIN	Dimensions (mm/in)							Ordering Code	Packaging Unit (in pieces / bag)
		G	L1	L2	B1	B2	S	H	ØD	
1A	1	M6 36 20 60 30,5 3 6,5 12	SPD-1A-M-W55	25						
		1.42 0.79 2.36 1.20 .12 .26 .47								
2	2	M6 42 26 60 30,5 3 6,5 12	SPD-2-M-W55	25						
		1.65 1.02 2.36 1.20 .12 .26 .47								
3	3	M6 50 33 60 30,5 3 6,5 12	SPD-3-M-W55	25						
		1.97 1.30 2.36 1.20 .12 .26 .47								

Alternative types of weld plates are available upon request. Please contact STAUFF for further information.





ACT Mounting Hardware Installation on Mounting Rails

Required components (for use with single weld plate):

- 2 ACT Hexagon Head Bolts AS...W55
- 1 ACT Cover Plate DP...W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 2 ACT Hexagon Rail Nuts, SM...W55
- 1 ACT Mounting Rail, TS...W55

Before welding, always make sure that the designated position of the ACT Weld Plate is suitable for the expected loads.

Material Code **W55** ACT Mounting Hardware Material Properties and Handling Instructions

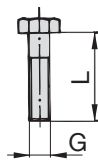
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

ACT Mounting Hardware is always delivered in hermetically-sealed quality storage bags with 25 pieces each to avoid contamination during transport.

Always make sure that ACT Mounting Hardware is stored separately from carbon steel and any other metals, and that appropriate tools are used to assemble the clamps.

Details: www.stauff.com/act/assembly

ACT Hexagon Head Bolt Type AS ... W55 (according to DIN 931 / 933)

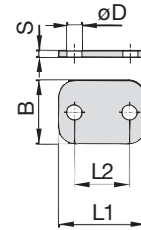


Dimensions applicable only when used with Cover Plate DP and Weld Plate SP



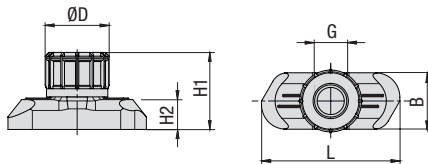
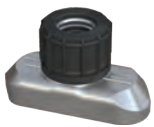
Group STAUFF	DIN	Dimensions (mm/in) Thread G x L	Ordering Code	Packaging Unit (in pieces / bag)
1A	1	M6 x 30 M6 x 1.18	AS-M6x30-W55	25
2	2	M6 x 35 M6 x 1.38	AS-M6x35-W55	25
3	3	M6 x 40 M6 x 1.57	AS-M6x40-W55	25
4	4	M6 x 45 M6 x 1.77	AS-M6x45-W55	25
5	5	M6 x 60 M6 x 2.36	AS-M6x60-W55	25

ACT Cover Plate Type DP ... W55



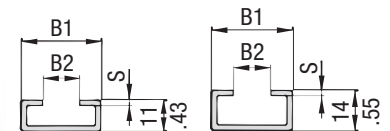
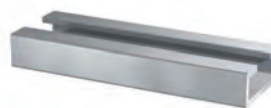
Group STAUFF	DIN	Dimensions (mm/in)					Ordering Code	Packaging Unit (in pieces / bag)
		L1	L2	B	S	ØD		
1A	1	34 1.34	20 .79	30 1.18	3 .12	7 .28	DP-1A-W55	25
2	2	40,5 1.59	26 1.02	30 1.18	3 .12	7 .28	DP-2-W55	25
3	3	48 1.89	33 1.30	30 1.18	3 .12	7 .28	DP-3-W55	25
4	4	57 2.24	40 1.57	30 1.18	3 .12	7 .28	DP-4-W55	25
5	5	70 2.76	52 2.05	30 1.18	3 .12	7 .28	DP-5-W55	25

Hexagon Rail Nut (for Use with Mounting Rail TS) Type SM



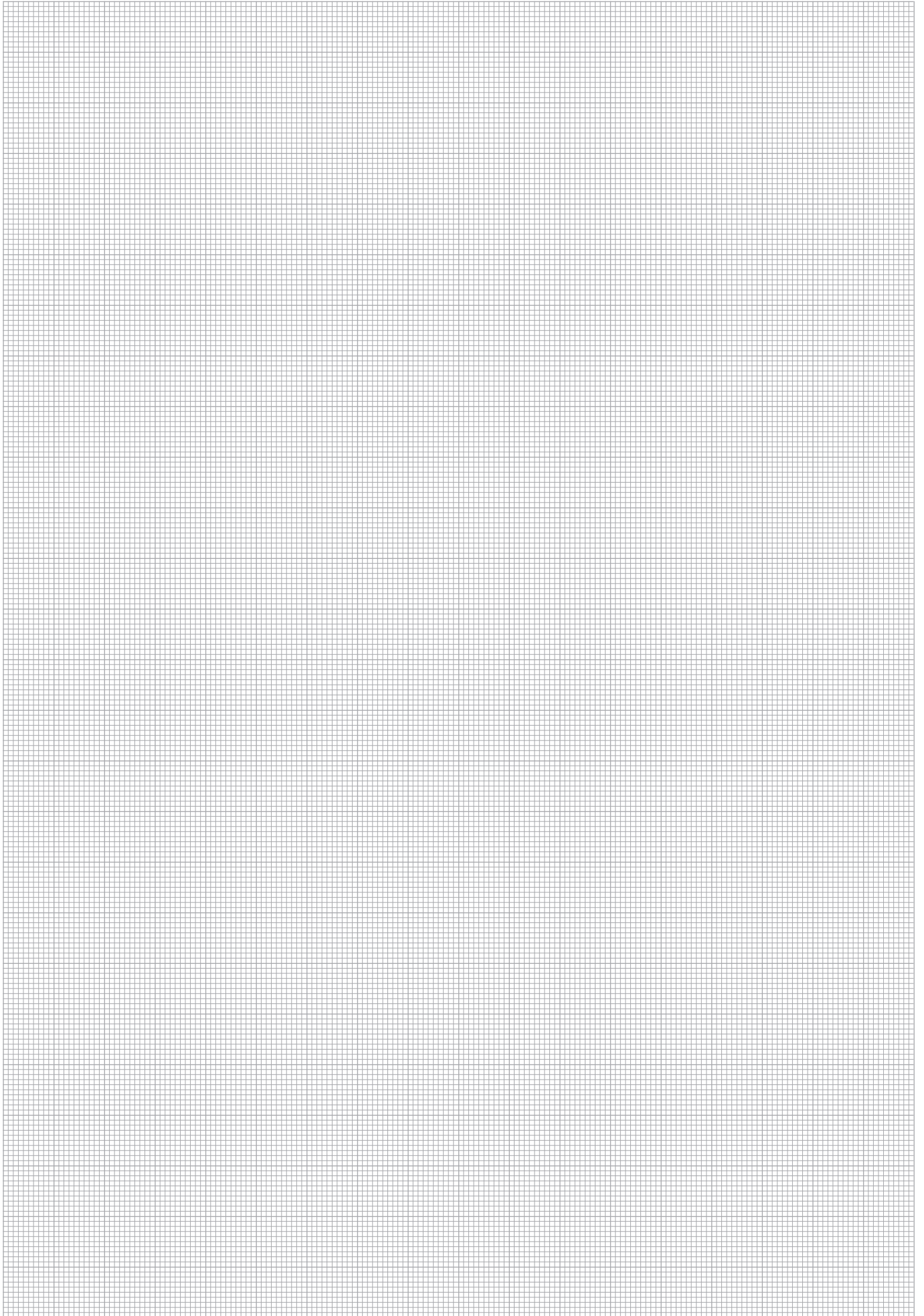
Group STAUFF	DIN	Dimensions (mm/in)						Ordering Codes (Standard Options)
		Thread	G	L	B	H1	H2	ØD
1A	1	M6	25,5 1.00	10,4 .41	14,2 .56	5,5 .22	12 .47	SM-1-8/1D-M-W55
2	2							
3	3							
4	4							
5	5							

Mounting Rail (for Use with Hexagon Rail Nut SM) Type TS



Group STAUFF	DIN	Dimensions (mm/in)			Ordering Codes (Standard Options)			
		B1	B2	S				
1A	1	28 1.10	11 .43	2 .08	Length of Rail 1 m / 3.28ft	Length of Rail 2 m / 6.56ft		
2	2				Height 11 mm / .43 in TS-11-1M-W55	Height 11 mm / .43 in TS-11-2M-W55		
3	3				Length of Rail 1 m / 3.28ft	Height 14 mm / .55 in TS-14-1M-W55	Length of Rail 2 m / 6.56ft	Height 14 mm / .55 in TS-14-2M-W55
4	4							
5	5							







ACT Mounting Hardware Multi-Level Installation (with Weld Plate)

Required components for each level:

- 2 ACT Stacking Bolt AF...W55
- 1 ACT Safety Locking Plate SIG...ACT-W55
- 1 ACT Clamp Body (2 Clamp Halves)

The upper layer is secured by a cover plate and hexagon head bolts. The lower layer has to be mounted to a weld plate (with a recommended maximum of two levels in total).

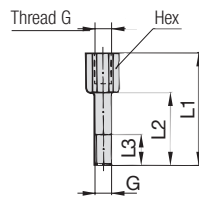
Material Code **W55** ACT Mounting Hardware Material Properties and Handling Instructions

ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

ACT Mounting Hardware is always delivered in hermetically-sealed quality storage bags with 25 pieces each to avoid contamination during transport.

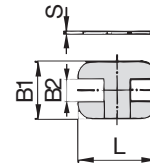
Always make sure that ACT Mounting Hardware is stored separately from carbon steel and any other metals, and that appropriate tools are used to assemble the clamps.
Details: www.stauff.com/act/assembly

ACT Stacking Bolt Type AF ... W55



Group	STAUFF	DIN	Dimensions (mm /in)				Ordering Code	Packaging Unit (in pieces / bag)
			G	L1	L2	L3 min. Hex		
1A	1	M6	34	20	12	11	AF-1/1A/1D-M-W55	25
			1.34	.79	.47	.43		
2	2	M6	40	26	12	11	AF-2-M-W55	25
			1.57	1.24	.47	.43		
3	3	M6	44	30	12	11	AF-3/AF-HKSK-1A-M-W55	25
			1.73	1.18	.47	.43		
4	4	M6	49	35	12	11	AF-4/AF-HKSK-1D-M-W55	25
			1.93	1.38	.47	.43		
5	5	M6	64	50	12	11	AF-5-M-W55	25
			2.52	1.97	.47	.43		

ACT Safety Locking Plate Type SIG ... ACT-W55



Group	STAUFF	DIN	Dimensions (mm /in)				Ordering Code	Packaging Unit (in pieces / bag)
			L	B1	B2	S		
1A	1		33	28	11,2	2	SIG-1A-ACT-W55	25
			1.30	1.10	.44	.08		
2	2		39	28	11,2	2	SIG-2-ACT-W55	25
			1.54	1.10	.44	.08		
3	3		47	28	11,2	2	SIG-3-ACT-W55	25
			1.85	1.10	.44	.08		
4	4		56	28	11,2	2	SIG-4-ACT-W55	25
			2.20	1.10	.44	.08		
5	5		69	28	11,2	2	SIG-5-ACT-W55	25
			2.72	1.10	.44	.08		

E





ACT Mounting Hardware

Installation with Channel Rail Adaptors

Required components:

- 2 ACT Hexagon Head Bolts AS...W55
- 1 ACT Cover Plate DP...W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 2 ACT Channel Rail Adaptors CRA...W55

Suitable for various brands and types of channel rails (including Halfen, Hilti, Unistrut® etc.).

Material Code W55 ACT Mounting Hardware

Material Properties and Handling Instructions

ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

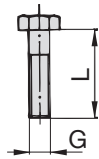
ACT Mounting Hardware is always delivered in hermetically-sealed quality storage bags with 25 pieces each to avoid contamination during transport.

Always make sure that ACT Mounting Hardware is stored separately from carbon steel and any other metals, and that appropriate tools are used to assemble the clamps.

Details: www.stauff.com/act/assembly

ACT Hexagon Head Bolt

Type AS ... W55 (according to DIN 931 / 933)



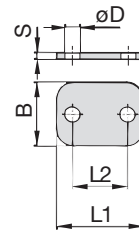
Dimensions applicable only when used with Cover Plate DP and Weld Plate SP



Group STAUFF	DIN	Dimensions (mm/in) Thread G x L	Ordering Code	Packaging Unit (in pieces / bag)
1A	1	M6 x 30	AS-M6x30-W55	25
		M6 x 1.18		
2	2	M6 x 35	AS-M6x35-W55	25
		M6 x 1.38		
3	3	M6 x 40	AS-M6x40-W55	25
		M6 x 1.57		
4	4	M6 x 45	AS-M6x45-W55	25
		M6 x 1.77		
5	5	M6 x 60	AS-M6x60-W55	25
		M6 x 2.36		

ACT Cover Plate

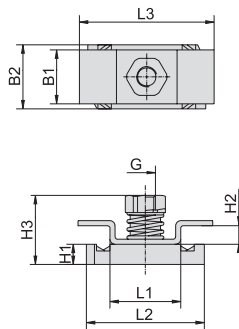
Type DP ... W55



Group STAUFF	DIN	Dimensions (mm/in)					Ordering Code	Packaging Unit (in pieces / bag)
		L1	L2	B	S	ØD		
1A	1	34	20	30	3	7	DP-1A-W55	25
		1.34	.79	1.18	.12	.28		
2	2	40,5	26	30	3	7	DP-2-W55	25
		1.59	1.02	1.18	.12	.28		
3	3	48	33	30	3	7	DP-3-W55	25
		1.89	1.30	1.18	.12	.28		
4	4	57	40	30	3	7	DP-4-W55	25
		2.24	1.57	1.18	.12	.28		
5	5	70	52	30	3	7	DP-5-W55	25
		2.76	2.05	1.18	.12	.28		

ACT Channel Rail Adaptor

Type CRA ... W55

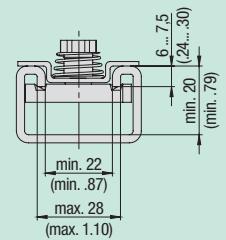


Group STAUFF	DIN	Dimensions (mm/in)									Ordering Code	Packaging Unit (in pieces / bag)
		G	L1	L2	L3	B1	B2	H1	H2	H3		
1A	1	M6	21	35	40	16	19	6	5,5	20,5	CRA-1-8/1D-M-W55	25
2	2											
3	3											
4	4											
5	5											

Suitability Chart for ACT Channel Adaptors in the Standard Series

The STAUFF Channel Rail Adaptor, type CRA, is suitable for various brands and types of channel rails (including Halfen, Hilti, Unistrut® etc.). The drawing describes the basic dimensional requirements for channel rails to be used with STAUFF Channel Rail Adaptors, type CRA.

In case of doubt, please do not hesitate to contact STAUFF prior to field application.



ACT Mounting Hardware Installation in Field Trays / Cable Ladders



Required components:

- 2 ACT Self-Locking Nuts MUS-HKS ... W55
- 1 ACT Cover Plate DP ... W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 2 ACT Hammerhead Bolts HKS ... W55

Suitable for commonly used field trays and cable ladders with diagonal, lengthwise and/or crosswise slots and perforations.

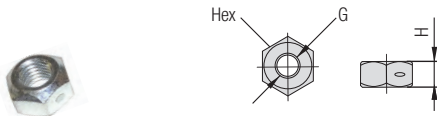
Material Code **W55** ACT Mounting Hardware Material Properties and Handling Instructions

ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

ACT Mounting Hardware is always delivered in hermetically-sealed quality storage bags with 25 pieces each to avoid contamination during transport.

Always make sure that ACT Mounting Hardware is stored separately from carbon steel and any other metals, and that appropriate tools are used to assemble the clamps.
Details: www.stauff.com/act/assembly

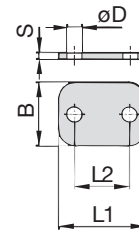
All-Metal Self-Locking ACT Nut Type MUS-HKS ... W55 (similar to DIN 980 / Biloc)



For use with ACT Hammerhead Bolts HKS ... W55

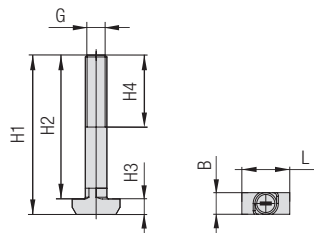
Group	STAUFF	DIN	Dimensions (mm/in)			Ordering Code	Packaging Unit
			Thread G	H	Hex		(in pieces / bag)
1A	1		M6	5	10	MUS-HKS-M6-W55	25
2	2						
3	3						
4	4						
5	5						

ACT Cover Plate Type DP ... W55



Group	STAUFF	DIN	Dimensions (mm/in)					Ordering Code	Packaging Unit
			L1	L2	B	S	ØD		(in pieces / bag)
1A	1		34	20	30	3	7	DP-1A-W55	25
			1.34	.79	1.18	.12	.28		
2	2		40,5	26	30	3	7	DP-2-W55	25
			1.59	1.02	1.18	.12	.28		
3	3		48	33	30	3	7	DP-3-W55	25
			1.89	1.30	1.18	.12	.28		
4	4		57	40	30	3	7	DP-4-W55	25
			2.24	1.57	1.18	.12	.28		
5	5		70	52	30	3	7	DP-5-W55	25
			2.76	2.05	1.18	.12	.28		

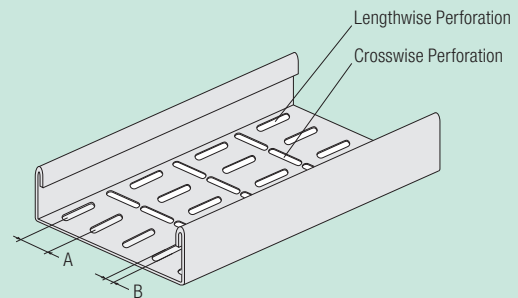
ACT Hammerhead Bolt Type HKS ... W55



For use with Self-Locking ACT Nuts MUS-HKS ... W55

Group	STAUFF	DIN	Dimensions (mm/in)							Ordering Code	Packaging Unit
			G	H1	H2	H3	H4 min	B	L		(in pcs. / bag)
1A	1	M6	44,3	40	4,3	20	6,1	13,3	HKS-M6x40-W55	25	
			1.74	1.57	.17	.79	.24	.52			
2	2	M6	49,3	45	4,3	20	6,1	13,3	HKS-M6x45-W55	25	
			1.94	1.77	.17	.79	.24	.52			
3	3	M6	54,3	50	4,3	20	6,1	13,3	HKS-M6x50-W55	25	
			2.14	1.97	.17	.79	.24	.52			
4	4	M6	59,3	55	4,3	20	6,1	13,3	HKS-M6x55-W55	25	
			2.33	2.17	.17	.79	.24	.52			
5	5	M6	74,3	70	4,3	20	6,1	13,3	HKS-M6x70-W55	25	
			2.93	2.76	.17	.79	.24	.52			

Suitability Chart for ACT Hammerhead Bolts in the Standard Series



ACT Hammerhead Bolts are suitable for field trays and cable ladders with diagonal, lengthwise and/or crosswise slots and perforations that meet the following requirements:

- **Dimension A:** Equal to the bolt center spacing of the clamp assembly
- **Dimension B:** 6,2 mm ... 7,0 mm / .24 in28 in (Min ... Max)

In case of doubt, please do not hesitate to contact STAUFF prior to field application.





ACT Mounting Hardware Multi-Level Installation (with Stacking & Hammerhead Bolts)

Required components (for a recommended maximum of two levels in total):

- 2 ACT Self-Locking Nuts MUS-HKS ... W55
- 1 ACT Cover Plate DP ... W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 ACT Safety Locking Plate SIG...ACT-W55
- 2 ACT Stacking Bolts AF-HKSK...W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 2 ACT Hammerhead Bolts HKSK ... W55

Material Code
W55

ACT Mounting Hardware Material Properties and Handling Instructions

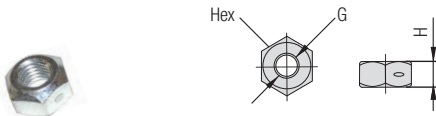
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

ACT Mounting Hardware is always delivered in hermetically-sealed quality storage bags with 25 pieces each to avoid contamination during transport.

Always make sure that ACT Mounting Hardware is stored separately from carbon steel and any other metals, and that appropriate tools are used to assemble the clamps.

Details: www.stauff.com/act/assembly

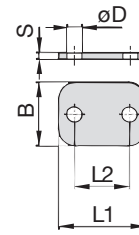
All-Metal Self-Locking ACT Nut Type MUS-HKS ... W55 (similar to DIN 980 / Biloc)



For use with ACT Stacking Bolts AF-HKS ... W55

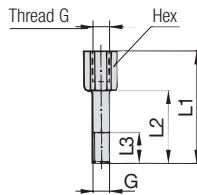
Group	STAUFF	DIN	Dimensions (mm/in)			Ordering Code	Packaging Unit
			Thread G	H	Hex		(in pieces / bag)
1A	1		M6	5 .20	10 .39	MUS-HKS-M6-W55	25
2	2						
3	3						

ACT Cover Plate Type DP ... W55



Group	STAUFF	DIN	Dimensions (mm/in)					Ordering Code	Packaging Unit
			L1	L2	B	S	øD		(in pieces / bag)
1A	1		34	20	30	3	7	DP-1A-W55	25
			1.34	.79	1.18	.12	.28		
2	2		40,5	26	30	3	7	DP-2-W55	25
			1.59	1.02	1.18	.12	.28		
3	3		48	33	30	3	7	DP-3-W55	25
			1.89	1.30	1.18	.12	.28		

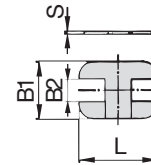
ACT Stacking Bolt Type AF-HKSK ... W55



For use with Self-Locking ACT Nuts MUS-HKS ... W55

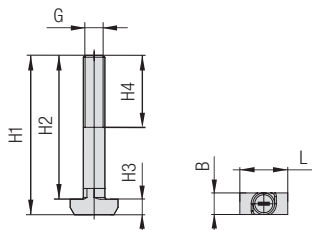
Group	STAUFF	DIN	Dimensions (mm/in)					Ordering Code	Packaging Unit
			G	L1	L2	L3 min.	Hex		(in pieces / bag)
1A	1	M6	44	30	12	11	.43	AF-3/AF-HKSK-1A-M-W55	25
			1.73	1.18	.47	.43			
2	2	M6	54	40	12	11	.43	AF-HKSK-2/3-M-W55	25
			2.13	1.57	.47	.43			
3	3	M6	54	40	12	11	.43	AF-HKSK-2/3-M-W55	25
			2.13	1.57	.47	.43			

ACT Safety Locking Plate Type SIG ... ACT-W55



Group	STAUFF	DIN	Dimensions (mm/in)				Ordering Code	Packaging Unit
			L	B1	B2	S		(in pieces / bag)
1A	1	M6	33	28	11,2	2	SIG-1A-ACT-W55	25
			1.30	1.10	.44	.08		
2	2	M6	39	28	11,2	2	SIG-2-ACT-W55	25
			1.54	1.10	.44	.08		
3	3	M6	47	28	11,2	2	SIG-3-ACT-W55	25
			1.85	1.10	.44	.08		

ACT Hammerhead Bolt Type HKSK ... W55



Group	STAUFF	DIN	Dimensions (mm/in)						Ordering Code	Packaging Unit	
			G	H1	H2	H3	H4 min	B	L		(in pcs. / bag)
1A	1	M6	29,3	25	4,3	20	6,1	13,3	HKSK-M6x25-W55	25	
			1.15	.98	.17	.79	.24	.52			
2	2	M6	36,3	32	4,3	20	6,1	13,3	HKSK-M6x32-W55	25	
			1.43	1.26	.17	.79	.24	.52			
3	3	M6	39,3	35	4,3	20	6,1	13,3	HKSK-M6x35-W55	25	
			1.55	1.38	.17	.79	.24	.52			





ACT Mounting Hardware Multi-Level Installation in Field Trays / Cable Ladders (with Hammerhead Bolts)

Required components (for a recommended maximum of two levels in total):

- 2 ACT Self-Locking Nuts MUS-HKS ... W55
- 1 ACT Cover Plate DP ... W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 ACT Clamp Body (2 Clamp Halves)
- 2 ACT Hammerhead Bolts HKS ... W55

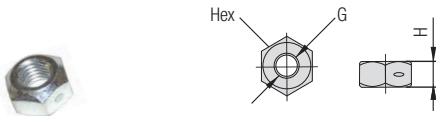
Material Code **W55** ACT Mounting Hardware Material Properties and Handling Instructions

ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

ACT Mounting Hardware is always delivered in hermetically-sealed quality storage bags with 25 pieces each to avoid contamination during transport.

Always make sure that ACT Mounting Hardware is stored separately from carbon steel and any other metals, and that appropriate tools are used to assemble the clamps.
Details: www.stauff.com/act/assembly

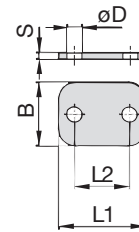
All-Metal Self-Locking ACT Nut Type MUS-HKS ... W55 (similar to DIN 980 / Biloc)



For use with ACT Hammerhead Bolts HKS ... W55

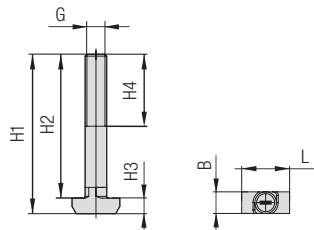
Group	STAUFF	DIN	Dimensions (mm/in)			Ordering Code	Packaging Unit
			Thread G	H	Hex		(in pieces / bag)
1A	1		M6	5 .20	10 .39	MUS-HKS-M6-W55	25
2	2						
3	3						

ACT Cover Plate Type DP ... W55



Group	STAUFF	DIN	Dimensions (mm/in)					Ordering Code	Packaging Unit
			L1	L2	B	S	ØD		(in pieces / bag)
1A	1		34 1.34	20 .79	30 1.18	3 .12	7 .28	DP-1A-W55	25
2	2		40,5 1.59	26 1.02	30 1.18	3 .12	7 .28	DP-2-W55	25
3	3		48 1.89	33 1.30	30 1.18	3 .12	7 .28	DP-3-W55	25

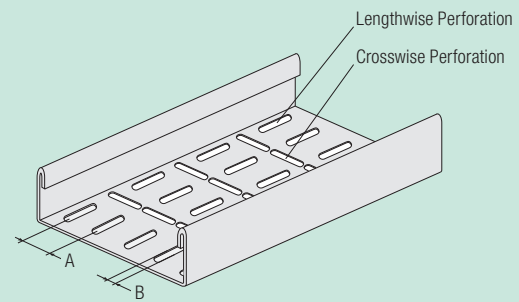
ACT Hammerhead Bolt Type HKS ... W55



For use with Self-Locking ACT Nuts MUS-HKS ... W55

Group	STAUFF	DIN	Dimensions (mm/in)							Ordering Code	Packaging Unit
			G	H1	H2	H3	H4 min	B	L		(in pcs. / bag)
1A	1	M6	68,3 2.69	64 2.52	4,3 .17	20 .79	6,1 .24	13,3 .52	HKSV-M6x64-W55	25	
2	2	M6	80,3 3.16	76 2.99	4,3 .17	20 .79	6,1 .24	13,3 .52	HKSV-M6x76-W55	25	
3	3	M6	87,3 3.44	83 3.27	4,3 .17	20 .79	6,1 .24	13,3 .52	HKSV-M6x83-W55	25	

Suitability Chart for ACT Hammerhead Bolts in the Standard Series



ACT Hammerhead Bolts are suitable for field trays and cable ladders with diagonal, lengthwise and/or crosswise slots and perforations that meet the following requirements:

- **Dimension A:** Equal to the bolt center spacing of the clamp assembly
- **Dimension B:** 6,2 mm ... 7,0 mm / .24 in28 in (Min ... Max)

In case of doubt, please do not hesitate to contact STAUFF prior to field application.



Installation on Weld Plate

Required components:

- 2 Hexagon Head Bolts AS...W55
- 1 Cover Plate DP...W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 Single Weld Plate SP...W55

Before welding, always make sure that the designated position of the weld plate is suitable for the expected loads.

Multi-Level Installation (with Weld Plate)

Required components (for each level)
for a maximum of two levels in total:

- 2 Stacking Bolt AF...W55
- 1 Safety Locking Plate SIG...ACT-W55
- 1 ACT Clamp Body (2 Clamp Halves)

The upper layer has to be secured by a cover plate and hexagon head bolts. The lower level has to be mounted to a weld plate.

Order Code
SP-110a-ACT-DP-AS-M-W55

W55 is the recommended option for metal hardware to be used with STAUFF ACT Clamps.

Order Code
110a-ACT-SIG-AF-M-W55

W55 is the recommended option for metal hardware to be used with STAUFF ACT Clamps.

Installation with Channel Rail Adaptors

Required components:

- 2 Hexagon Head Bolts AS...W55
- 1 Cover Plate DP...W55
- 1 Clamp Body (2 Clamp Halves)
- 2 Channel Rail Adaptors CRA...W55

Suitable for various brands and types of channel rails (including Halfen, Hiiti, Unistrut® etc.).

Installation in Field Trays / Cable Ladders

Required components:

- 2 Self-Locking Nuts MUS-HKS ... W55
- 1 Cover Plate DP ... W55
- 1 Clamp Body (2 Clamp Halves)
- 2 Hammerhead Bolts HKS ... W55

Suitable for commonly used field trays and cable ladders with diagonal, lengthwise and/or crosswise slots and perforations.

Order Code
CRA-110a-ACT-DP-AS-M-W55

W55 is the recommended option for metal hardware to be used with STAUFF ACT Clamps.

Order Code
HKS-110a-ACT-DP-MUS-M-W55

W55 is the recommended option for metal hardware to be used with STAUFF ACT Clamps.

**Multi-Level Installation
in Field Trays / Cable Ladders**

Required components
(for a maximum of two levels in total):

- 2 Self-Locking Nuts MUS-HKS ... W55
- 1 Cover Plate DP ... W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 Safety Locking Plate SIG...ACT-W55
- 2 Stacking Bolts AF-HKSK...W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 2 Hammerhead Bolts HKSK ... W55

Suitable for commonly used field trays and cable ladders with diagonal, lengthwise and/or crosswise slots and perforations.

**Multi-Level Installation
in Field Trays / Cable Ladders**

Required components
(for a maximum of two levels in total):

- 2 Self-Locking Nuts MUS-HKS ... W55
- 1 Cover Plate DP ... W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 ACT Clamp Body (2 Clamp Halves)
- 2 Hammerhead Bolts HKSV ... W55

Suitable for commonly used field trays and cable ladders with diagonal, lengthwise and/or crosswise slots and perforations.

Order Codes

Upper Level: **HKSK-212.7-ACT-DP-MUS-M-W55**
Lower Level: **212.7-ACT-SIG-AF-HKSK-M-W55**

W55 is the recommended option for metal hardware to be used with STAUFF ACT Clamps.

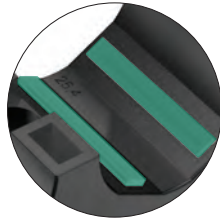
Order Codes

Upper Level: **212.7-ACT** (Clamp Body only)
Lower Level: **HKSV-212.7-ACT-DP-MUS-M-W55**

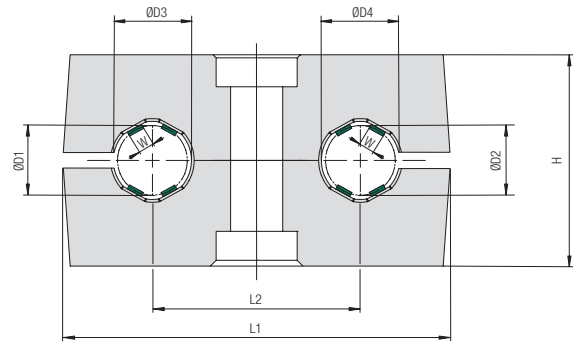
W55 is the recommended option for metal hardware to be used with STAUFF ACT Clamps.

E


Twin Series according to DIN 3015, Part 3
ACT Clamp Body



Integrated Rubber Strips
made of Anti-Corrosion Elastomer (ACE)



Ordering Codes

Clamp Body ***2*12.7/12.7-*ACT**

One clamp body consists of two identical clamp halves, each with four integrated rubber strips.

- * 1st Part of STAUFF Group **2**
- * Exact outside diameters Ø D1 / Ø D2 (mm) **12.7/12.7**
- * Material code **ACT**

Group Size		Outside Diameters Ø D1 / Ø D2		Ordering Code	Packaging Unit	Dimensions (mm/in)						
STAUFF	DIN	(mm)	(in)	(2 Clamp Halves)	(in pieces / bag)	ØD3 / ØD4	W	L1	L2	H	Width	
1D	1	6		106/06-ACT	25	9 .35	1,4 .06					
		6,4	1/4	106.4/06.4-ACT	25	9,4 .37	1,5 .06					
		9,5	3/8	109.5/09.5-ACT	25	12,5 .49	2,2 .09	36 1.42	20 .79	26,6 1.05	30 1.18	
		10		110/10-ACT	25	13 .51	2,3 .09					
		12		112/12-ACT	25	15 .59	2,8 .11					
2D	2	12,7	1/2	212.7/12.7-ACT	25	15,7 .62	3,5 .14					
		14		214/14-ACT	25	17 .67	3,5 .14	53 2.09	29 1.14	26,6 1.05	30 1.18	
		16		216/16-ACT	25	19 .75	3,5 .14					
3D	3	18		318/18-ACT	25	21 .83	3,5 .14					
		19	3/4	319/19-ACT	25	22 .87	3,5 .14					
		20		320/20-ACT	25	23 .91	3,5 .14	67 2.64	36 1.42	36,6 1.44	30 1.18	
		21,3		321.3/21.3-ACT	25	24,3 .96	3,5 .14					
		25,4	1	325.4/25.4-ACT	25	28,4 1.12	3,5 .14					

Additional outside diameters and combinations of different outside diameters are available upon request. Please contact STAUFF for further information.



ACT Mounting Hardware Installation on Single Weld Plates



Required components:

- 1 ACT Hexagon Head Bolt AS...W55
- 1 ACT Cover Plate GD...W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 ACT Single Weld Plate SP...W55

Before welding, always make sure that the designated position of the ACT Weld Plate is suitable for the expected loads.

Material Code **W55** ACT Mounting Hardware Material Properties and Handling Instructions

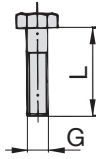
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

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Always make sure that ACT Mounting Hardware is stored separately from carbon steel and any other metals, and that appropriate tools are used to assemble the clamps.

Details: www.stauff.com/act/assembly

ACT Hexagon Head Bolt Type AS ... W55 (according to DIN 931 / 933)

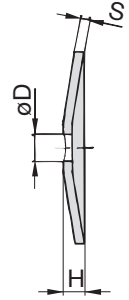
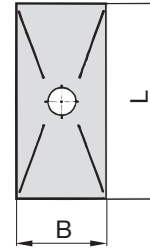


Dimensions applicable only when used with Cover Plate GD and Weld Plate SP



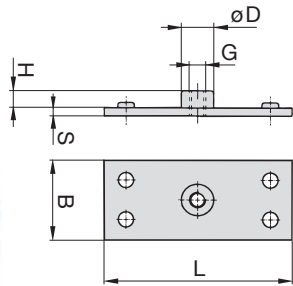
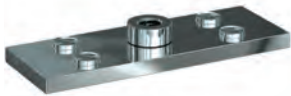
Group	STAUFF	DIN	Dimensions (mm/in) Thread G x L	Ordering Code	Packaging Unit (in pieces / bag)
1D	1		M6 x 35	AS-M6x35-W55	25
			M6 x 1.38		
2D	2		M8 x 35	AS-M8x35-W55	25
			M8 x 1.38		
3D	3		M8 x 45	AS-M8x45-W55	25
			M8 x 1.77		

ACT Cover Plate Type GD ... W55



Group	STAUFF	DIN	Dimensions (mm/in)					Ordering Code	Packaging Unit (in pieces / bag)
			L	B	H	S	ØD		
1D	1		34	30	7	3	7	GD-1D-W55	25
			1.34	1.18	.28	.12	.28		
2D	2		52	30	7	3	9	GD-2D-W55	25
			2.05	1.18	.28	.12	.35		
3D	3		65	30	7	3	9	GD-3D-W55	25
			2.56	1.18	.28	.12	.35		

ACT Single Weld Plate Type SP ... W55



Group	STAUFF	DIN	Dimensions (mm/in)						Ordering Code	Packaging Unit (in pieces / bag)
			G	L	B	S	H	ØD		
1D	1	M6	37	30	3	6.5	12	SP-1D-M-W55	25	
			1.46	1.18	.12	.26	.47			
2D	2	M8	55	30	5	6	14	SP-2D-M-W55	25	
			2.17	1.18	.20	.24	.55			
3D	3	M8	70	30	5	6	14	SP-3D-M-W55	25	
			2.76	1.18	.20	.24	.55			



ACT Mounting Hardware Installation on Mounting Rails



Required components:

- 1 ACT Hexagon Head Bolt AS...W55
- 1 ACT Cover Plate GD...W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 ACT Hexagon Rail Nuts, SM...W55
- 1 ACT Mounting Rail, TS...W55

Before welding, always make sure that the designated position of the ACT Weld Plate is suitable for the expected loads.

Material Code **W55** ACT Mounting Hardware Material Properties and Handling Instructions

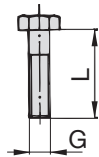
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

ACT Mounting Hardware is always delivered in hermetically-sealed quality storage bags with 25 pieces each to avoid contamination during transport.

Always make sure that ACT Mounting Hardware is stored separately from carbon steel and any other metals, and that appropriate tools are used to assemble the clamps.

Details: www.stauff.com/act/assembly

ACT Hexagon Head Bolt Type AS ... W55 (according to DIN 931 / 933)

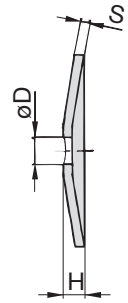
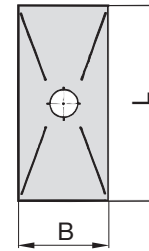


Dimensions applicable only when used with Cover Plate GD and Weld Plate SP



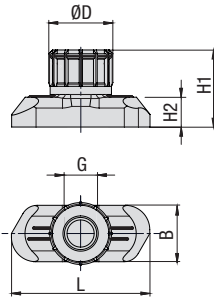
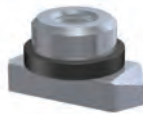
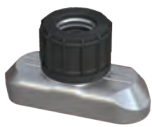
Group STAUFF	DIN	Dimensions (mm/in) Thread G x L	Ordering Code	Packaging Unit (in pieces / bag)
1D	1	M6 x 35	AS-M6x35-W55	25
		M6 x 1.38		
2D	2	M8 x 35	AS-M8x35-W55	25
		M8 x 1.38		
3D	3	M8 x 45	AS-M8x45-W55	25
		M8 x 1.77		

ACT Cover Plate Type GD ... W55



Group STAUFF	DIN	Dimensions (mm/in)					Ordering Code	Packaging Unit (in pieces / bag)
		L	B	H	S	ØD		
1D	1	34	30	7	3	7	GD-1D-W55	25
		1.34	1.18	.28	.12	.28		
2D	2	52	30	7	3	9	GD-2D-W55	25
		2.05	1.18	.28	.12	.35		
3D	3	65	30	7	3	9	GD-3D-W55	25
		2.56	1.18	.28	.12	.35		

Hexagon Rail Nut (for Use with Mounting Rail TS) Type SM



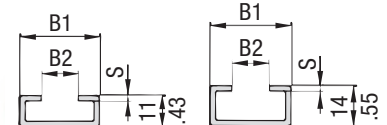
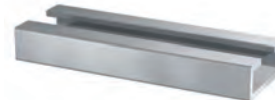
STAUFF Group 1D

STAUFF Group 2D to 5D



Group STAUFF	DIN	Thread G	Dimensions (mm/in)				ØD	Ordering Codes (Standard Options)
			L	B	H1	H2		
1D	1	M6	25,5	10,4	14,2	5,5	12	SM-1-8/1D-M-W55
			1.00	.41	.56	.22	.47	
2D	2	M8	25,5	10,4	13	5	14	SM-2-5D-M-W55
			1.00	.41	.51	.20	.55	
3D	3	M8	25,5	10,4	13	5	14	SM-2-5D-M-W55
			1.00	.41	.51	.20	.55	

Mounting Rail (for Use with Hexagon Rail Nut SM) Type TS

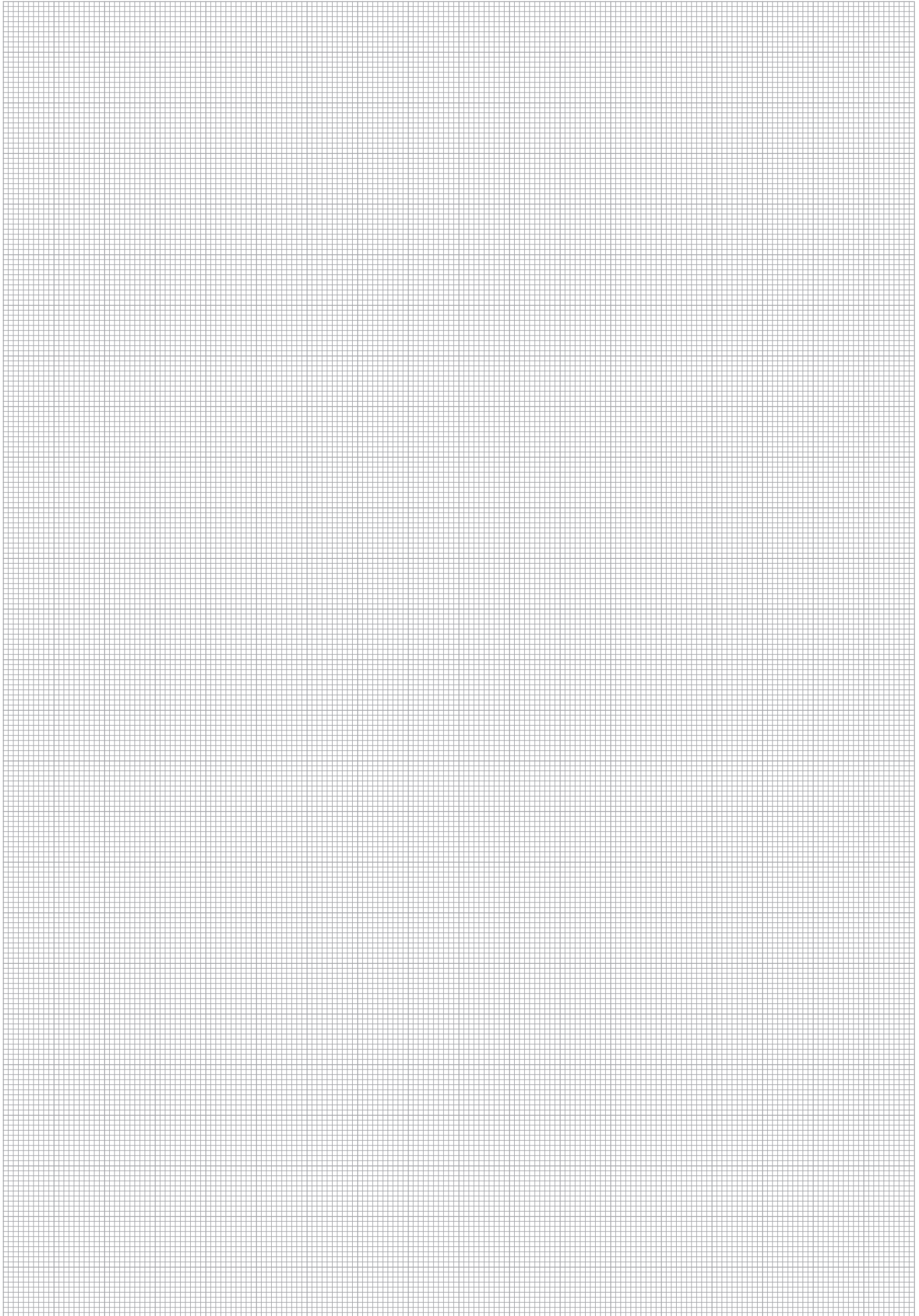


Mounting Rail TS-11

Mounting Rail TS-14

Group STAUFF	DIN	Dimensions (mm/in)			Ordering Codes (Standard Options)	
		B1	B2	S		
1D	1	28	11	2	Length of Rail 1 m / 3.28ft	Length of Rail 2m / 6.56ft
					Height 11 mm / .43 in TS-11-1M-W55	Height 11 mm / .43 in TS-11-2M-W55
2D	2	1.10	.43	.08	Length of Rail 1 m / 3.28ft	Length of Rail 2m / 6.56ft
					Height 14 mm / .55 in TS-14-1M-W55	Height 14 mm / .55 in TS-14-2M-W55
3D	3					





ACT Mounting Hardware Multi-Level Installation (with Weld Plate)



Required components for each level:

- 1 ACT Stacking Bolt AF...W55
- 1 ACT Safety Locking Plate SIV...ACT
- 1 ACT Clamp Body (2 Clamp Halves)

The upper layer is secured by a cover plate and hexagon head bolts. The lower layer has to be mounted to a weld plate (with a recommended maximum of two levels in total).

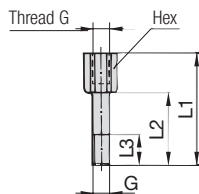
Material Code **W55** ACT Mounting Hardware Material Properties and Handling Instructions

ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

ACT Mounting Hardware is always delivered in hermetically-sealed quality storage bags with 25 pieces each to avoid contamination during transport.

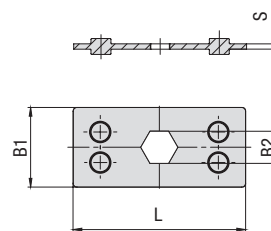
Always make sure that ACT Mounting Hardware is stored separately from carbon steel and any other metals, and that appropriate tools are used to assemble the clamps.
Details: www.stauff.com/act/assembly

ACT Stacking Bolt Type AF ... W55



Group	STAUFF	DIN	Dimensions (mm/in)					Order Code	Packaging Unit (in pieces / bag)
			G	L1	L2	L3 min.	Hex		
1D	1	M6	34	20	12	11	AF-1/1A/1D-M-W55	25	
			1.33	.78	.47	.43			
2D	2	M8	33	20	11	12	AF-2D-M-W55	25	
			1.30	.78	.43	.47			
			44	29	15	12			
3D	3	M8	44	29	15	12	AF-3D-M-W55	25	
			1.73	1.14	.59	.47			

ACT Safety Locking Plate Type SIV ... ACT



Made of flame-retardant PP-V0 plastic material; tested and V0 classified according to UL 94

Group	STAUFF	DIN	Dimensions (mm/in)				Order Code	Packaging Unit (in pieces / bag)
			L	B1	B2	S		
1D	1		34	30	11,2	2	SIV-1D-PP-V0-ACT	25
			1.39	1.18	.44	.08		
2D	2		52	30	12,1	2	SIV-2D-PP-V0-ACT	25
			2.05	1.18	.48	.08		
			65	30	12,1	2		
3D	3		65	30	12,1	2	SIV-3D-PP-V0-ACT	25
			2.56	1.18	.48	.08		

E



ACT Mounting Hardware Installation with Channel Rail Adaptors



Required components:

- 1 ACT Hexagon Head Bolt AS...W55
- 1 ACT Cover Plate GD...W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 ACT Channel Rail Adaptor CRA...W55

Suitable for various brands and types of channel rails (including Halfen, Hilti, Unistrut® etc.).

Material Code **W55** ACT Mounting Hardware Material Properties and Handling Instructions

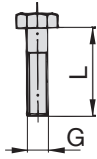
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

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Details: www.stauff.com/act/assembly

ACT Hexagon Head Bolt Type AS ... W55 (according to DIN 931 / 933)

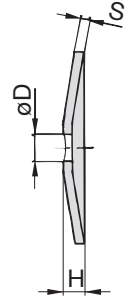
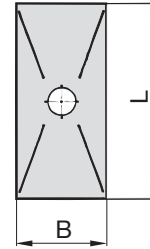


Dimensions applicable only when used with Cover Plate GD and Weld Plate SP



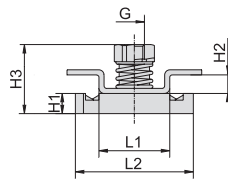
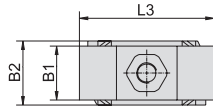
Group	STAUFF	DIN	Dimensions (mm/in) Thread G x L	Ordering Code	Packaging Unit (in pieces / bag)
1D	1		M6 x 35	AS-M6x35-W55	25
			M6 x 1.38		
2D	2		M8 x 35	AS-M8x35-W55	25
			M8 x 1.38		
3D	3		M8 x 45	AS-M8x45-W55	25
			M8 x 1.77		

ACT Cover Plate Type GD ... W55



Group	STAUFF	DIN	Dimensions (mm/in)					Ordering Code	Packaging Unit (in pieces / bag)
			L	B	H	S	ØD		
1D	1		34	30	7	3	7	GD-1D-W55	25
			1.34	1.18	.28	.12	.28		
2D	2		52	30	7	3	9	GD-2D-W55	25
			2.05	1.18	.28	.12	.35		
3D	3		65	30	7	3	9	GD-3D-W55	25
			2.56	1.18	.28	.12	.35		

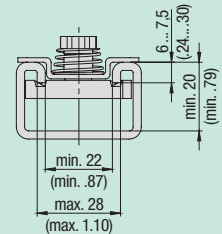
Channel Rail Adaptor Type CRA ... W55



Group	STAUFF	DIN	Dimensions (mm/in)							Order Code	Packaging Unit (in pieces / bag)		
			G	L1	L2	L3	B1	B2	H1	H2	H3		
1D	1		M6	21	35	40	16	19	6	5,5	20,5	CRA-1-8/1D-M-W55	25
				.83	1.38	1.57	.63	.75	.24	.22	.81		
2D	2		M8	21	35	38	53	19	9	5,5	23,5	CRA-2-3D-M-W55	25
3D	3			.83	1.38	1.50	2.09	.75	.35	.22	.93		

Suitability Chart for ACT Channel Rail Adaptors in the Twin Series

The STAUFF Channel Rail Adaptor, type CRA, is suitable for various brands and types of channel rails (including Halfen, Hilti, Unistrut® etc.). The drawing describes the basic dimensional requirements for channel rails to be used with STAUFF Channel Rail Adaptors, type CRA.

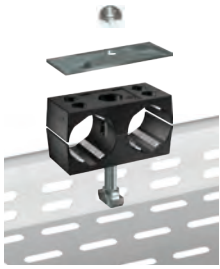


In case of doubt, please do not hesitate to contact STAUFF prior to field application.



ACT Mounting Hardware Installation in Field Trays / Cable Ladders

Material Code **W55** ACT Mounting Hardware Material Properties and Handling Instructions



Required components:

- 1 ACT Self-Locking Nut MUS-HKS ... W55
- 1 ACT Cover Plate GD ... W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 ACT Hammerhead Bolt HKS ... W55

Suitable for commonly used field trays and cable ladders with diagonal, lengthwise and/or crosswise slots and perforations.

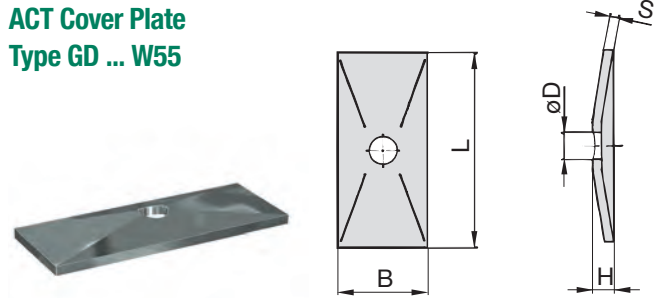
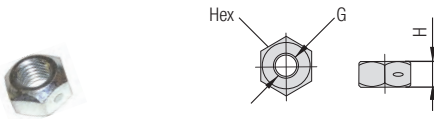
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

ACT Mounting Hardware is always delivered in hermetically-sealed quality storage bags with 25 pieces each to avoid contamination during transport.

Always make sure that ACT Mounting Hardware is stored separately from carbon steel and any other metals, and that appropriate tools are used to assemble the clamps.
Details: www.stauff.com/act/assembly

All-Metal Self-Locking ACT Nut Type MUS-HKS ... W55 (similar to DIN 980 / Biloc)

ACT Cover Plate Type GD ... W55



For use with ACT Hammerhead Bolts HKS ... W55

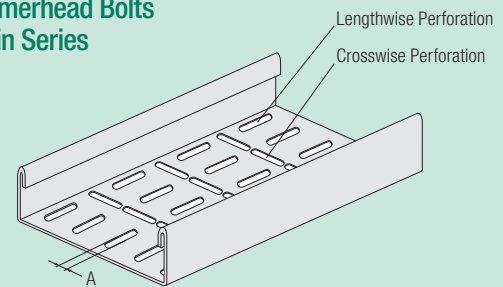
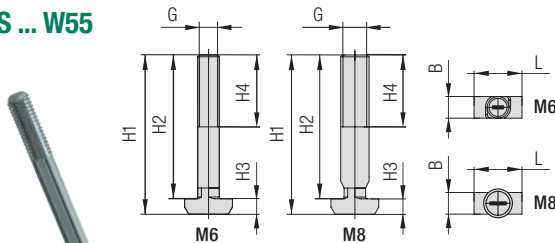


Group STAUFF	DIN	Dimensions (mm/in)			Ordering Code	Packaging Unit (in pieces / bag)
		Thread G	H	Hex		
1D	1	M6	5	10	MUS-HKS-M6-W55	25
			.20	.39		
2D	2	M8	6,5	13	MUS-HKS-M8-W55	25
			.26	.51		
3D	3					

Group STAUFF	DIN	Dimensions (mm/in)					Ordering Code	Packaging Unit (in pieces / bag)
		L	B	H	S	ØD		
1D	1	34	30	7	3	7	GD-1D-W55	25
		1.34	1.18	.28	.12	.28		
2D	2	52	30	7	3	9	GD-2D-W55	25
		2.05	1.18	.28	.12	.35		
3D	3	65	30	7	3	9	GD-3D-W55	25
		2.56	1.18	.28	.12	.35		

ACT Hammerhead Bolt Type HKS ... W55

Suitability Chart for ACT Hammerhead Bolts in the Twin Series



For use with Self-Locking ACT Nuts MUS-HKS ... W55

Group STAUFF	DIN	G	Dimensions (mm/in)				Ordering Code	Packaging Unit (in pcs. / bag)		
			H1	H2	H3	H4 min				
1D	1	M6	49,3	45	4,3	20	6,1	13,3	HKS-M6x45-W55	25
			1.94	1.77	.17	.79	.24	.52		
2D	2	M8	49,3	45	4,3	20	6	13,3	HKS-M8x45-W55	25
			1.94	1.77	.17	.79	.24	.52		
3D	3	M8	59,3	55	4,3	20	6	13,3	HKS-M8x55-W55	25
			2.33	2.17	.17	.79	.24	.52		

ACT Hammerhead Bolts are suitable for field trays and cable ladders with diagonal, lengthwise and/or crosswise slots and perforations that meet the following requirements:

- **Dimension A:** 6,2 mm ... 7,0 mm / .24 in28 in (Min ... Max)

In case of doubt, please do not hesitate to contact STAUFF prior to field application.





ACT Mounting Hardware Multi-Level Installation (with Stacking & Hammerhead Bolts)

Required components (for a recommended maximum of two levels in total):

- 1 ACT Self-Locking Nut MUS-HKS ... W55
- 1 ACT Cover Plate GD ... W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 ACT Stacking Bolt AF-HKSK...W55
- 1 ACT Safety Locking Plate SIV...ACT
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 ACT Hammerhead Bolt HKS ... W55

Material Code
W55

ACT Mounting Hardware Material Properties and Handling Instructions

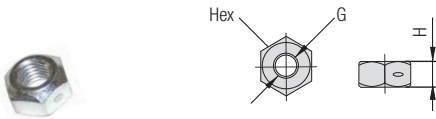
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Always make sure that ACT Mounting Hardware is stored separately from carbon steel and any other metals, and that appropriate tools are used to assemble the clamps.

Details: www.stauff.com/act/assembly

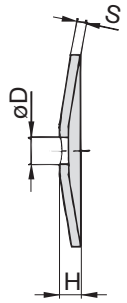
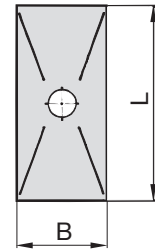
All-Metal Self-Locking ACT Nut Type MUS-HKS ... W55 (similar to DIN 980 / Biloc)



For use with ACT Stacking Bolts AF-HKS ... W55

Group	STAUFF	DIN	Dimensions (mm/in)			Ordering Code	Packaging Unit
			Thread G	H	Hex		(in pieces / bag)
1D	1	M6	5 .20	10	.39	MUS-HKS-M6-W55	25
2D	2	M8	6.5 .26	13	.51	MUS-HKS-M8-W55	25
3D	3						

ACT Cover Plate Type GD ... W55



Group	STAUFF	DIN	Dimensions (mm/in)					Ordering Code	Packaging Unit
			L	B	H	S	ØD		(in pieces / bag)
1D	1		34 1.34	30 1.18	7 .28	3 .12	7 .28	GD-1D-W55	25
2D	2		52 2.05	30 1.18	7 .28	3 .12	9 .35	GD-2D-W55	25
3D	3		65 2.56	30 1.18	7 .28	3 .12	9 .35	GD-3D-W55	25

ACT Stacking Bolt Type AF-HKSK ... W55



For use with Self-Locking ACT Nuts MUS-HKS ... W55

Group	STAUFF	DIN	Dimensions (mm/in)				Order Code	Packaging Unit
			G	L1	L2	L3 min. Hex		(in pieces / bag)
1D	1	M6	49 1.93	35 1.38	12 .47	11 .43	AF-4/AF-HKSK-1D-M-W55	25
2D	2	M8	50 1.97	37 1.47	11 .43	12 .47	AF-HKSK-2D-M-W55	25
3D	3	M8	61 2.40	46 1.81	15 .59	12 .47	AF-5D/AF-HKSK-3D-M-W55	25

ACT Safety Locking Plate Type SIV ... ACT



Made of flame-retardant PP-V0 plastic material; tested and V0 classified according to UL 94

Group	STAUFF	DIN	Dimensions (mm/in)				Order Code	Packaging Unit
			L	B1	B2	S		(in pieces / bag)
1D	1		34 1.39	30 1.18	11,2 .44	2 .08	SIV-1D-PP-V0-ACT	25
2D	2		52 2.05	30 1.18	12,1 .48	2 .08	SIV-2D-PP-V0-ACT	25
3D	3		65 2.56	30 1.18	12,1 .48	2 .08	SIV-3D-PP-V0-ACT	25

ACT Hammerhead Bolt Type HKS ... W55



Group	STAUFF	DIN	Dimensions (mm/in)					Ordering Code	Packaging Unit	
			G	H1	H2	H3	H4 min B	L	(in pcs. / bag)	
1D	1	M6	29,3 1.15	25 .98	4,3 .17	20 .79	6,1 .24	13,3 .52	HKSK-M6x25-W55	25
2D	2	M8	32,3 1.27	28 1.10	4,3 .17	20 .79	6 .24	13,3 .52	HKSK-M8x28-W55	25
3D	3	M8	42,3 1.67	38 1.50	4,3 .17	20 .79	6 .24	13,3 .52	HKSK-M8x38-W55	25





ACT Mounting Hardware Multi-Level Installation in Field Trays / Cable Ladders (with Hammerhead Bolts)

Required components (for a recommended maximum of two levels in total):

- 1 ACT Self-Locking Nut MUS-HKS ... W55
- 1 ACT Cover Plate GD ... W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 ACT Safety Locking Plate SIV-ACT
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 ACT Hammerhead Bolt HKSV ... W55

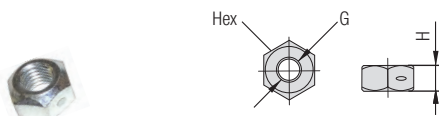
Material Code **W55** ACT Mounting Hardware Material Properties and Handling Instructions

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Details: www.stauff.com/act/assembly

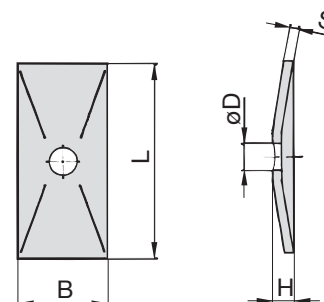
All-Metal Self-Locking ACT Nut Type MUS-HKS ... W55 (similar to DIN 980 / Biloc)



For use with ACT Hammerhead Bolts HKS ... W55

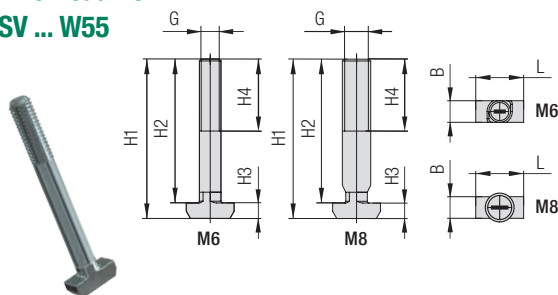
Group STAUFF	DIN	Dimensions (mm/in)			Ordering Code	Packaging Unit (in pieces / bag)
		Thread G	H	Hex		
1D	1	M6	5 .20	10 .39	MUS-HKS-M6-W55	25
2D	2	M8	6,5 .26	13 .51	MUS-HKS-M8-W55	25
3D	3					

ACT Cover Plate Type GD ... W55



Group STAUFF	DIN	Dimensions (mm/in)					Ordering Code	Packaging Unit (in pieces / bag)
		L	B	H	S	ØD		
1D	1	34	30	7	3	7	GD-1D-W55	25
		1.34	1.18	.28	.12	.28		
2D	2	52	30	7	3	9	GD-2D-W55	25
		2.05	1.18	.28	.12	.35		
3D	3	65	30	7	3	9	GD-3D-W55	25
		2.56	1.18	.28	.12	.35		

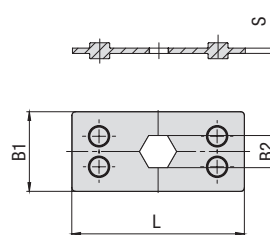
ACT Hammerhead Bolt Type HKSV ... W55



For use with Self-Locking ACT Nuts MUS-HKS ... W55

Group STAUFF	DIN	Dimensions (mm/in)							Ordering Code	Packaging Unit (in pcs. / bag)
		G	H1	H2	H3	H4 min	B	L		
1D	1	M6	76,3	72	4,3	20	6,1	13,3	HKSV-M6x72-W55	25
			3.00	2.83	.17	.79	.24	.52		
2D	2	M8	77,3	73	4,3	20	6	13,3	HKSV-M8x73-W55	25
			3.04	2.87	.17	.79	.24	.52		
3D	3	M8	97,3	93	4,3	20	6	13,3	HKSV-M8x93-W55	25
			3.83	3.66	.17	.79	.24	.52		

ACT Safety Locking Plate Type SIV ... ACT



Made of flame-retardant PP-V0 plastic material; tested and V0 classified according to UL 94

Group STAUFF	DIN	Dimensions (mm/in)				Order Code	Packaging Unit (in pieces / bag)
		L	B1	B2	S		
1D	1	34	30	11,2	2	SIV-1D-PP-V0-ACT	25
		1.39	1.18	.44	.08		
2D	2	52	30	12,1	2	SIV-2D-PP-V0-ACT	25
		2.05	1.18	.48	.08		
3D	3	65	30	12,1	2	SIV-3D-PP-V0-ACT	25
		2.56	1.18	.48	.08		



Installation on Weld Plate
Required components:

- 1 Hexagon Head Bolt AS...W55
- 1 Cover Plate GD...W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 Single Weld Plate SP...W55

Before welding, always make sure that the designated position of the weld plate is suitable for the expected loads.


Multi-Level Installation (with Weld Plate)
Required components (for each level)
for a maximum of two levels in total:

- 1 Stacking Bolt AF...W55
- 1 Safety Locking Plate SIG...W55
- 1 ACT Clamp Body (2 Clamp Halves)

The upper layer has to be secured by a cover plate and hexagon head bolts. The lower level has to be mounted to a weld plate.


Order Code
SP-110/10-ACT-GD-AS-M-W55

W55 is the recommended option for metal hardware to be used with STAUFF ACT Clamps.

Order Code
110/10-ACT-SIV-ACT-AF-M-W55

W55 is the recommended option for metal hardware to be used with STAUFF ACT Clamps.

Installation with Channel Rail Adaptors
Required components:

- 1 Hexagon Head Bolt AS...W55
- 1 Cover Plate GD...W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 Channel Rail Adaptor CRA...W55

Suitable for various brands and types of channel rails (including Halfen, Hiiti, Unistrut® etc.).


Installation in Field Trays / Cable Ladders
Required components:

- 1 Self-Locking Nut MUS-HKS ... W55
- 1 Cover Plate GD ... W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 Hammerhead Bolt HKS ... W55

Suitable for commonly used field trays and cable ladders with diagonal, lengthwise and/or crosswise slots and perforations.


Order Code
CRA-110/10-ACT-GD-AS-M-W55

W55 is the recommended option for metal hardware to be used with STAUFF ACT Clamps.

Order Code
HKS-110/10-ACT-GD-MUS-M-W55

W55 is the recommended option for metal hardware to be used with STAUFF ACT Clamps.

**Multi-Level Installation
in Field Trays / Cable Ladders**
Required components
(for a maximum of two levels in total):

- 1 Self-Locking Nut MUS-HKS ... W55
- 1 Cover Plate GD ... W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 Stacking Bolt AF-HKSK...W55
- 1 Safety Locking Plate SIV...ACT
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 Hammerhead Bolt HKSK ... W55

Suitable for commonly used field trays and cable ladders with diagonal, lengthwise and/or crosswise slots and perforations.


**Multi-Level Installation
in Field Trays / Cable Ladders**
Required components
(for a maximum of two levels in total):

- 1 Self-Locking Nut MUS-HKS ... W55
- 1 Cover Plate GD ... W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 Safety Locking Plate SIV-ACT
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 Hammerhead Bolt HKSV ... W55

Suitable for commonly used field trays and cable ladders with diagonal, lengthwise and/or crosswise slots and perforations.


Order Codes

Upper Level: **HKSK-212.7/12.7-ACT-GD-MUS-M-W55**
Lower Level: **212.7/12.7-ACT-SIV-ACT-AF-HKSK-M-W55**

W55 is the recommended option for metal hardware to be used with STAUFF ACT Clamps.













Order Codes

Upper Level: **HKSV-212.7/12.7-ACT-GD-MUS-M-W55**
Lower Level: **212.7/12.7-ACT-SIV-ACT**

W55 is the recommended option for metal hardware to be used with STAUFF ACT Clamps.


E



	Introduction	106
	Weld Stud with Female Thread SWG-SF	106
	Distance Plate for DIN 3015 Clamps SWG-DIP	107
	Cable Tie Holder SWG-CTH-11-M6	107
	Cable Tie / Tension Belt Holder SWG-CTH-30-M6-1	107
	Cable Tie / Tension Belt Holder SWG-CTH-30-M6-2	107
	Fastening Adaptor SWG-MRA	108
	Starterkit Kit-SWG-WI06-Starter	108
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STAUFF SWG Stud Welding System

In many areas, stud welding is considered to be the most economic fastening method for components and is sometimes even the only technically feasible solution. Because the stud is joined with the substructure over the entire surface of the stud, a high strength of the joint can be achieved.

STAUFF is now using this proven principle for the installation of pipe, tube, hose and cable clamps in the Standard Series (according to DIN 3015, part 1) as well as in the Twin Series (according to DIN 3015, part 3) with M6 mounting thread, where female threaded weld studs replace the regular weld plates; distance plates made from plastic provide the necessary spacing between the clamp bodies and the substructure.

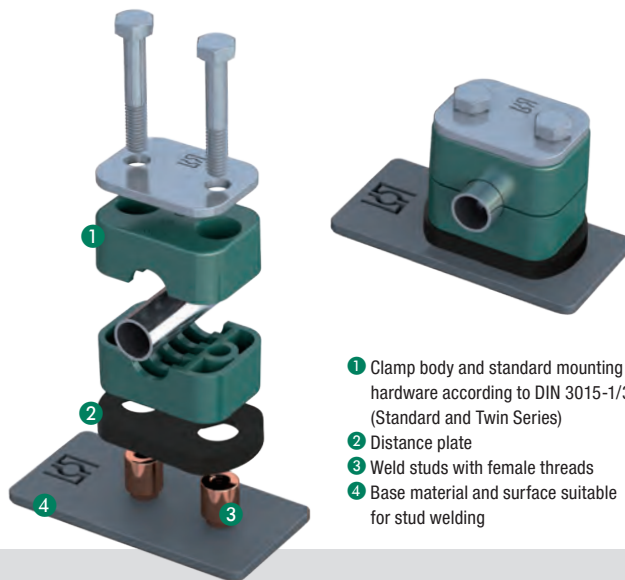
If required, the system can also be adopted for alternative fastening methods, e.g. for clamping belts, cable ties or conduit hoses.

In addition to the individual components – weld studs, distance plates, clamp bodies and metal hardware required – STAUFF also provides the correspondingly designed assembly tools such as the weld inverter and the weld gun with distance tube, stud retainer and distance adaptor for DIN 3015 clamps. The lightweight and compact weld inverter works without high-voltage current.

Thanks to increased productivity and flexibility for the installation of clamps, the system offers considerable savings potentials for users with significant processing volumes, especially when working in horizontal or overhead position. The amount of rework on welding locations can be significantly decreased, and material distortion is reduced to a minimum through low thermal stress.

The joint of the weld stud with the substructure impresses in particular with a high degree of strength and safety, which is at least at the same level as for regular weld plates.

- Developed and optimised to the functions of original STAUFF Clamps in the Standard Series (DIN 3015, Part 1)
- Versatile combination and adaptation options available (e.g. fastening elements for conduit hoses, clamping belts and cable ties)
- All installation options are fully covered by only one weld stud
- Significant time and cost savings by a quicker welding process and reduced rework on welding locations
- Material distortion reduced to a minimum through low thermal stress (particularly significant when handling thin metal sheets)
- High degree of safety and protection against corrosion due to a welded joint over the whole surface
- Lightweight and compact designed welding inverter
- By default no shielding gas or ceramic ferrule required
- Works without high-voltage current



- 1 Clamp body and standard mounting hardware according to DIN 3015-1/3 (Standard and Twin Series)
- 2 Distance plate
- 3 Weld studs with female threads
- 4 Base material and surface suitable for stud welding

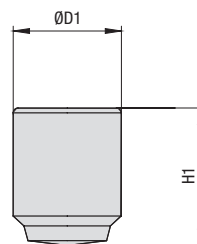
Assembly using weld plates
100%

Reduction of the assembly time per clamp*

Assembly using the stud welding system
23%

*For a typical assembly procedure in production environments.

Weld Stud with Female Thread Type SWG-SF



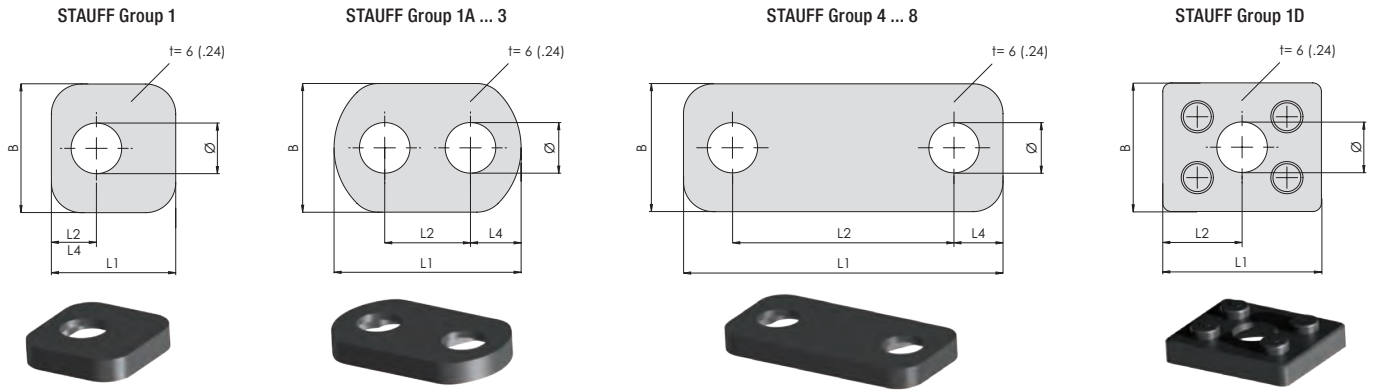
Ordering Codes	
Weld Stud	*SWG-SF-*M6x11x14-*W124
* Weld Stud with Female Thread	SWG-SF
* Thread code	Metric ISO thread M6x11x14 Unified coarse (UNC) thread UNC1/4-20x11x14
* Material code	Steel 4.8 with galvanised copper coating C1E (DIN EN ISO 4042) W124

Group	Dimensions (mm/in)	Order Codes (Standard Options)	Packaging Units (in pcs. / per bag)			
STAUFF	DIN	Thread G	ØD1	H1		
1 ... 8	0 ... 8	M6	11	14	SWG-SF-M6x11x14-W124	100
			.43	.55		
		1/4-20 UNC	11	14	SWG-SF-UNC1/4-20x11x14-W124	
			.43	.55		

Alternative materials are available upon request. Please contact STAUFF for further information.

Maximum torque rating: 6 N-m / 4.43 ft-lb. Specific series can further limit the torque rating. The maximum loads in pipe direction listed on page 185 reduce accordingly. In case of doubt, please contact STAUFF in advance.



**Distance Plate for DIN 3015 Clamps
Type SWG-DIP**


Group STAUFF	DIN	Pipe/Tube-Ø (mm/in)	Dimensions (mm/in)					Order Codes (Standard Options)	Packaging Units (in pcs. / per bag)
		Clamp Body	L1	L2*	L4	B	Ø		
1	0	6 ... 12	29	10,5	10,5	30	11,8	SWG-DIP-1-PP-BK	25
		.2448	1.14	.41	.41	1.18	.46		
1A	1	6 ... 12	43,5	20	11,8	30	11,8	SWG-DIP-1A-PP-BK	25
		.2448	1.71	.79	.46	1.18	.46		
2	2	12,7 ... 18	48,5	26	11,3	30	11,8	SWG-DIP-2-PP-BK	25
		.5071	1.90	1.02	.44	1.18	.46		
3	3	19 ... 25,4	56,5	33	11,8	30	11,8	SWG-DIP-3-PP-BK	25
		.75 ... 1.00	2.22	1.30	.46	1.18	.46		
4	4	26,9 ... 32	62	40	11	30	11,8	SWG-DIP-4-PP-BK	25
		1.06 ... 1.26	2.44	1.57	.43	1.18	.46		
5	5	32 ... 42	75	52	11,5	30	11,8	SWG-DIP-5-PP-BK	25
		1.26 ... 1.65	2.95	2.05	.45	1.18	.46		
6	6	44,5 ... 54	88	66	11	30	11,8	SWG-DIP-6-PP-BK	25
		1.75 ... 2.12	3.46	2.60	.43	1.18	.46		
7	7	57,2 ... 76,1	121	94	13,5	30	11,8	SWG-DIP-7-PP-BK	10
		2.25 ... 3.00	4.76	3.70	.53	1.18	.46		
8	8	88,9 ... 102	147	120	13,5	30	11,8	SWG-DIP-8-PP-BK	10
		3.50 ... 4.00	5.78	4.72	.53	1.18	.46		
1D	1	6 ... 12	37	18,5	-	30	11,8	SWG-DIP-1D-PP-BK	25
		.2448	1.45	.73	-	1.18	.46		

Ordering Codes
Distance Plate
***SWG-DIP*2*PP-BK**

* Distance Plate

SWG-DIP

* STAUFF Group

2

* Material code Polypropylene (Colour: Black) PP-BK

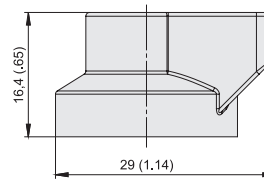
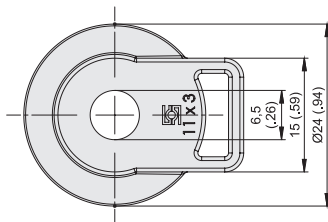
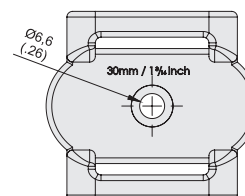
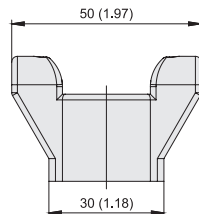
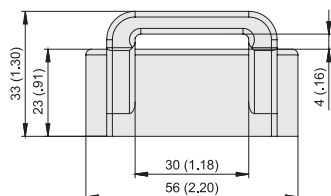
Alternative materials are available upon request. Please contact STAUFF for further information.

* ±0,1(.003)

Material: Polyamide (reinforced)

Suitable for hexagon socket button cap screws M6x12 (ISO 7380-1)

Standard packaging unit: 25 pcs.

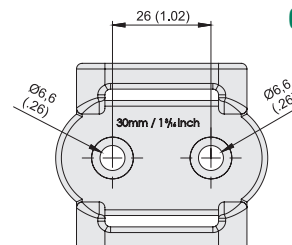

**Cable Tie Holder
Type SWG-CTH-11-M6**


Material: Polyamide (reinforced)

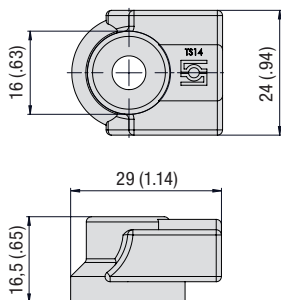
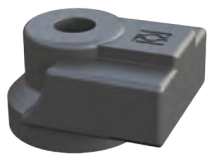
Suitable for socket cap screws M6x12 (ISO 4762) or hexagon socket button cap screws M6x12 (ISO 7380-1)

Standard packaging unit: 25 pcs.

Dimensional drawings: All dimensions in mm (in).

**Cable Tie / Tension Belt Holder
Type SWG-CTH-30-M6-1**

**Cable Tie / Tension Belt Holder
Type SWG-CTH-30-M6-2**


Fastening Adaptor
(for Use with Mounting Rail TS)
Type SWG-MRA-TS14-S-A

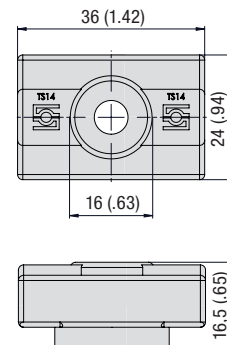


Product Features

Fastening Adaptor for Direct Screw Mounting of STAUFF Mounting Rails Type TS-14 with Weld Studs M6 and Bolts M6 or 1/4-20 UNC (Support Sleeve / Washer Recommended). For more information, please see Page 25.

Material: Polyamide

Fastening Adaptor
(for Use with Mounting Rail TS)
Type SWG-MRA-TS14-D-A



Product Features

Fastening Adaptor for Direct Screw Mounting of STAUFF Mounting Rails Type TS-14 with Weld Studs M6 and Bolts M6 or 1/4-20 UNC (Support Sleeve / Washer Recommended). For more information, please see Page 25.

Material: Polyamide

F

Starterkit
Type Kit-SWG-WI06-Starter



Starterkit including:

- 1 Weld Inverter **SWG-WI06**
- 1 Weld Gun **SWG-WG**
- 1 Ground Cable **SWG-GC**
- 1 Distance Tube **DIT-SR6-SWG-WG30** (for STAUFF Groups 2 to 8)
- 5 Stud Retainer **SWG-SR6**
- 1 Toolkit (Box Spanner/Hex Wrench)
- Operating Manual (English / German)

Required Accessories:

- Distance Adaptor **SWG-AGS-...** for DIN 3015 Clamps
- Weld Stud **SWG-SF**
- Distance Tube **DIT-SR6-SWG-WG25** (for STAUFF Group 1A, if required)

Weld Inverter
Type SWG-WI06



Characteristics

- Works without high-voltage current
- No heavy extension cords required
- Extremely powerful and robust
- Compact in design
- Lightweight with only 18 kg / 40 lbs
- Welding current: 100 ... 650 A (stepless control)
- Welding time: 5 ... 200 ms (stepless control)
- Connection Cable: 3 m / 9.84 ft

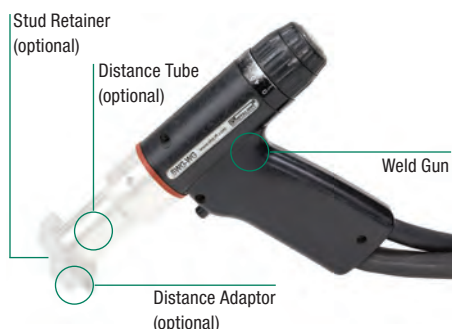
Required Accessories

- Weld Gun **SWG-WG** and Accessories
- Ground Cable **SWG-GC**

Technical Data

- Primary Power**
 - 100 V to 240 V, 1 phase, 50/60 Hz, 16 AT
- Primary Plug**
 - 16 A 2-pin grounded safety plug (plug type F CEE 7/4)
- IP Code**
 - IP 44 (also permits operation outdoors)
- Ambient Temperature Limits**
 - ±0 °C ... +40 °C / +32 °F ... +104 °F
- Dimensions (L x W x H)**
 - 474 x 337 x 351 mm / 18.66 x 13.27 x 13.82 in

Weld Gun - Arc Ignition
Type SWG-WG



Characteristics

- Compact in design
- Lightweight with only 0,8 kg / 1.8 lbs (without cable)
- Ergonomic handle
- Comfortable setup
- Connection Cable: 5 m / 16.40 ft

Required Accessories

- Distance Adaptor **SWG-AGS-...** for DIN 3015 Clamps
- Distance Tube **DIT-SR6-SWG-WG30** (for STAUFF Groups 2 to 8)
- Distance Tube **DIT-SR6-SWG-WG25** (for STAUFF Group 1A)
- Stud Retainer **SWG-SR6**

Technical Data

- Lift**
 - Adjustment range 3 mm / .11 in, lockable
- Workplace noise level**
 - Up to 90 dB (A) may occur during welding
- Dimensions (L x W x H)**
 - 200 x 65 x 140 mm / 7.87 x 2.56 x 5.51 in (without cable, without distance tube)



**Distance Adaptor
Type SWG-AGS**

Group STAUFF	DIN	for use with	Ordering Codes
1	0	Distance Tube Type A	NO DISTANCE ADAPTOR REQUIRED
1A	1	Distance Tube Type A	SWG-AGS-1A
2	2	Distance Tube Type B	SWG-AGS-2
3	3	Distance Tube Type B	SWG-AGS-3
4	4	Distance Tube Type B	SWG-AGS-4
5	5	Distance Tube Type B	SWG-AGS-5
6	6	Distance Tube Type B	SWG-AGS-6
7	7	Distance Tube Type B	SWG-AGS-7
8	8	Distance Tube Type B	SWG-AGS-8
1D	1D	Distance Tube Type A	NO DISTANCE ADAPTOR REQUIRED


**Distance Tube
Type DIT-SR6-SWG**

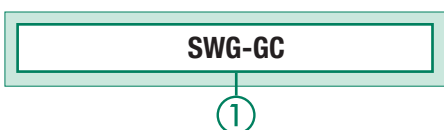
Type	for use with	Ordering Codes
A	Distance Adaptor SWG-AGS-1A	DIT-SR6-SWG-WG25
B	Distance Adaptor SWG-AGS-2...8	DIT-SR6-SWG-WG30


F
**Stud Retainer
Type SWG-SR6**
Order Code

① Type

 Stud Retainer **SWG-SR6**

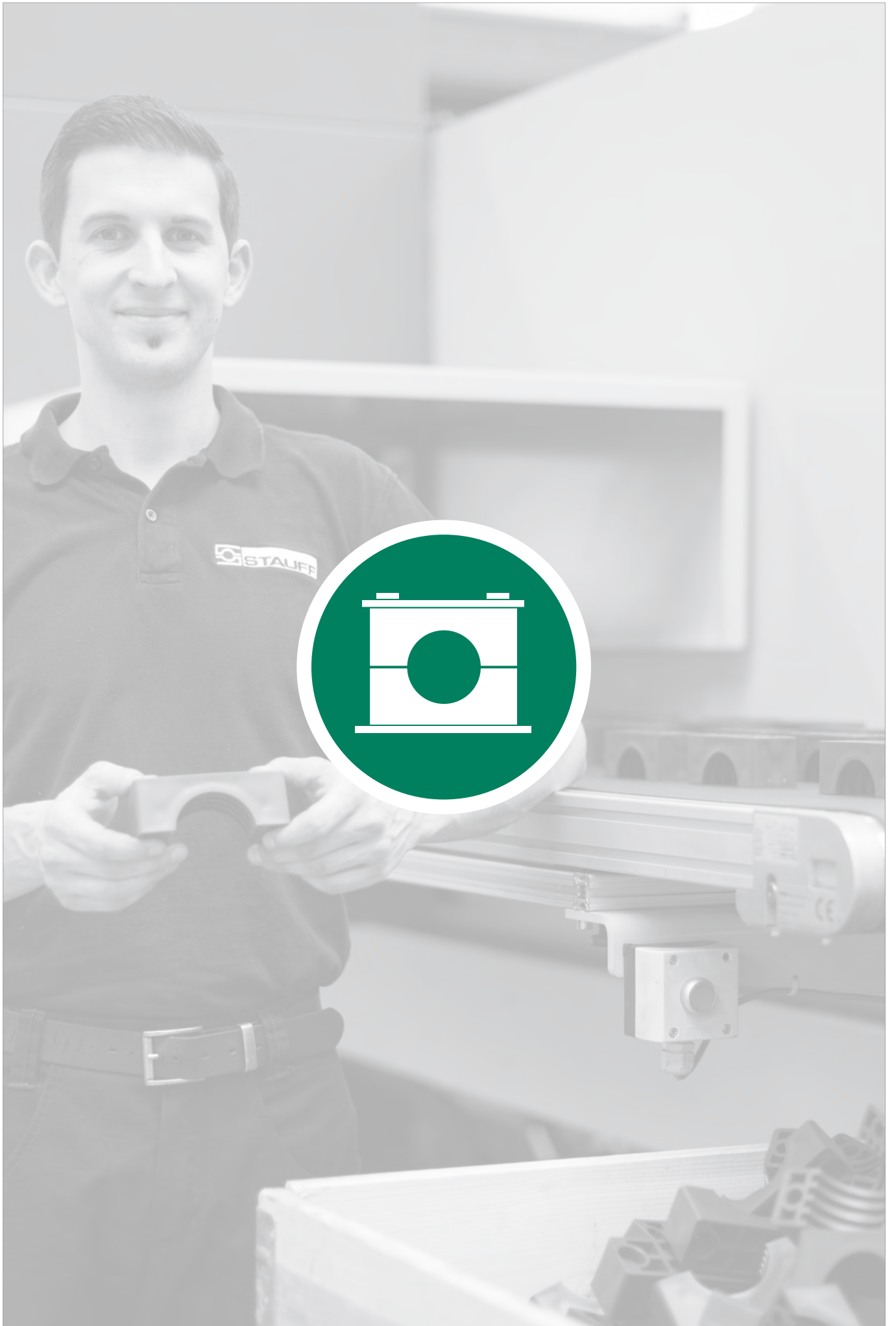
Standard packaging unit: 5 pcs.


Order Code

① Type

 Ground Cable **SWG-GC**
Characteristics

- Cable length: 5 m / 16.40 ft
- Equipped with 2 vice grips 10"

**Ground Cable
Type SWG-GC**

	Introduction	112
	Clamp Body Multi-Line Clamps MLC (2 Lines)	114
	Clamp Body Multi-Line Clamps MLC (3 Lines)	115
	Clamp Body Multi-Line Clamps MLC (4 Lines)	116
	Clamp Body Multi-Line Clamps MLC (6 Lines)	117
	Single Weld Plate for Multi-Line Clamps SP-MLC	118
	Cover Plate for Multi-Line Clamps DP-MLC	119
	Hexagon Head Bolt AS	120
	Stacking Bolt AF	120
	Safety Locking Plate SIG	121
	Hexagon Rail Nut SM	122
	Mounting Rail TS	122
	Channel Rail Adaptor CRA	123
	Examples of Assembly	124



G



Product Description

Multi-Line Clamps of the Type MLC from STAUFF enable the simple and at the same time safe fastening of either 2, 3, 4 or 6 individual lines with only one clamp body.

Based on the Original STAUFF Clamps of the Standard Series according to DIN 3015 (Part 1), they are available in 3 different sizes for all common metric and imperial diameters from 6 mm to 25,4 mm (1/4" to 1"). Alternative outside diameters and various diameter combinations are available on request.

Clamp bodies are made of Polypropylene (PP), Polyamide (PA) or Polyamide with preventive fire protection (PA-V0) as standard.

In addition to Carbon Steel (phosphated, STAUFF material code W2 or Zinc/Nickel-plated, STAUFF material code W3), Stainless Steel V4A - 1.4401 / 1.4571 or AISI 316 / 316 Ti (STAUFF material code W5) is used as material for metal parts such as cover plates and welding plates. Alternative materials and surface finishings are available upon request.

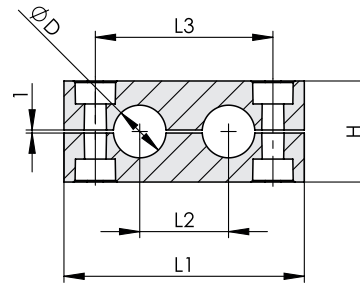
All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread.

Features

- For the safe fastening of tubes, pipes, hoses, cables and other components
- Vibration- and noise reduction as an important contribution to preventive environmental protection, health and safety
- Orderly and clear installation of lines
- Quick and easy assembly
- Reduced assembly times due to fewer individual components
- Compact and thus space-saving and weight-reducing design
- Can be combined with selected metal parts of the Standard Series according to DIN 3015 (Part 1), including:
 - Hexagon Head Bolts Type AS
 - Stacking Bolts Type AF and Safety Locking Plates Type SIG
 - Hexagon Rail Nuts Type SM and Mounting Rails Type TS
 - Channel Rail Adaptors Type CRA
 - and more

G


Clamp Body Multi-Line Clamps
 Smooth Inside Surface with Tension Clearance
 Type MLC (for 2 lines)



Ordering Codes

Clamp Body (with identical diameters)

*MLC-*1-*02B-*06-*PP-*HV

One clamp body is consisting of two clamp halves.

- * Clamp Type **MLC**
- * STAUFF Group **1**
- * Number of lines and bolts **02B**
- * Exact outside diameter Ø D (mm) **06**
- * Material code (see below) **PP**
- * Inside Surface Type **HV**
 Smooth Inside Surface (Standard Option)
 Profiled Inside Surface (Upon Request) **without**

Clamp Body (with different diameters)

*MLC-*1-*02B-*06/12-*PP-*HV

Standard Materials



Polypropylene
 Colour: Black
 Material code: **PP**



Polyamide
 Colour: Black
 Material code: **PA**



Fire-Proof Clamp Body Material made of Polyamide
 Colour: Black
 Material code: **PA-VO**

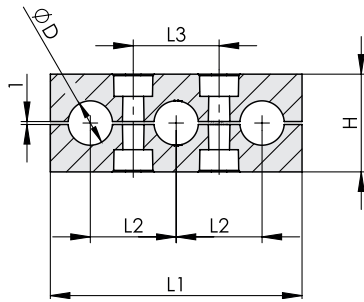
See pages 178 / 179 for material properties and technical information.

Alternative materials are available upon request. Please contact STAUFF for further information.

Group	Outside Diameter Pipe / Tube Ø D		Dimensions (mm / in)				Number of Bolts (B)	Ordering Code Standard Option (2 Clamp Halves) (** = Material)
	(mm)	(in)	L1	L2	L3	H		
1	6						2	MLC-1-02B-06-**-HV
	6,4							MLC-1-02B-06.4-**-HV
	8		60,5	20	40	27		MLC-1-02B-08-**-HV
	9,5		2.38	.79	1.57	1.06		MLC-1-02B-09.5-**-HV
	10	1/8						MLC-1-02B-10-**-HV
	12							MLC-1-02B-12-**-HV
2	10						2	MLC-2-02B-10-**-HV
	12							MLC-2-02B-12-**-HV
	12,7							MLC-2-02B-12.7-**-HV
	13,5	1/4						MLC-2-02B-13.5-**-HV
	14		78,5	29	58	33		MLC-2-02B-14-**-HV
	15		3.09	1.14	2.28	1.30		MLC-2-02B-15-**-HV
	16							MLC-2-02B-16-**-HV
	17,2							MLC-2-02B-17.2-**-HV
	18							MLC-2-02B-18-**-HV
	15							MLC-2-02B-15-**-HV
3	16						2	MLC-3-02B-16-**-HV
	17,2	3/8						MLC-3-02B-17.2-**-HV
	18							MLC-3-02B-18-**-HV
	19							MLC-3-02B-19-**-HV
	20		92,5	36	72	37		MLC-3-02B-20-**-HV
	21,3	1/2	3.64	1.42	2.83	1.46		MLC-3-02B-21.3-**-HV
	22							MLC-3-02B-22-**-HV
	23							MLC-3-02B-23-**-HV
	25							MLC-3-02B-25-**-HV
	25,4							MLC-3-02B-25.4-**-HV

Additional outside diameters and various diameter combinations are available upon request. Please contact STAUFF for further information.



Clamp Body Multi-Line Clamps
 Smooth Inside Surface with Tension Clearance
 Type MLC (for 3 lines)


Group	Outside Diameter Pipe / Tube		Dimensions (mm/in)				Number of Bolts (B)	Ordering Code Standard Option (2 Clamp Halves) (** = Material)
	Ø D (mm)	(in)	L1	L2	L3	H		
1	6		56	20	20	27	2	MLC-1-03B-06-**-HV
	6,4							MLC-1-03B-06.4-**-HV
	8							MLC-1-03B-08-**-HV
	9,5	1/8						MLC-1-03B-09.5-**-HV
	10							MLC-1-03B-10-**-HV
	12							MLC-1-03B-12-**-HV
2	10		85	29	29	33	2	MLC-2-03B-10-**-HV
	12							MLC-2-03B-12-**-HV
	12,7							MLC-2-03B-12.7-**-HV
	13,5	1/4						MLC-2-03B-13.5-**-HV
	14							MLC-2-03B-14-**-HV
	15							MLC-2-03B-15-**-HV
	16							MLC-2-03B-16-**-HV
	17,2	3/8						MLC-2-03B-17.2-**-HV
	18							MLC-2-03B-18-**-HV
	15							106
16		MLC-3-03B-16-**-HV						
17,2		MLC-3-03B-17.2-**-HV						
18		MLC-3-03B-18-**-HV						
19		MLC-3-03B-19-**-HV						
20		MLC-3-03B-20-**-HV						
21,3	1/2	MLC-3-03B-21.3-**-HV						
22		MLC-3-03B-22-**-HV						
23		MLC-3-03B-23-**-HV						
25		MLC-3-03B-25-**-HV						
25,4		MLC-3-03B-25.4-**-HV						

Additional outside diameters and various diameter combinations are available upon request. Please contact STAUFF for further information.

Ordering Codes
Clamp Body (with identical diameters)

*MLC-*1-*03B-*06-*PP-*HV

One clamp body is consisting of two clamp halves.

- * Clamp Type MLC
- * STAUFF Group 1
- * Number of lines and bolts 03B
- * Exact outside diameter Ø D (mm) 06
- * Material code (see below) PP
- * Inside Surface Type
 - Smooth Inside Surface (Standard Option) HV
 - Profiled Inside Surface (Upon Request) without

Clamp Body (with different diameters)

*MLC-*1-*03B-*06/12/08-*PP-*HV

Standard Materials

Polypropylene
 Colour: Black
 Material code: **PP**

Polyamide
 Colour: Black
 Material code: **PA**

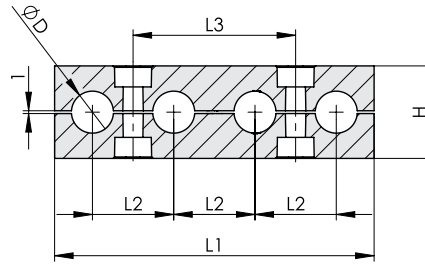
Fire-Proof Clamp Body Material made of Polyamide
 Colour: Black
 Material code: **PA-VO**

See pages 178 / 179 for material properties and technical information.

Alternative materials are available upon request. Please contact STAUFF for further information.



Clamp Body Multi-Line Clamps
Smooth Inside Surface with Tension Clearance
Type MLC (for 4 lines)



Ordering Codes

Clamp Body (with identical diameters)

***MLC-*1-*04B-*06-*PP-*HV**

One clamp body is consisting of two clamp halves.

- * Clamp Type **MLC**
- * STAUFF Group **1**
- * Number of lines and bolts **04B**
- * Exact outside diameter Ø D (mm) **06**
- * Material code (see below) **PP**
- * Inside Surface Type **HV**
 Smooth Inside Surface (Standard Option)
 Profiled Inside Surface (Upon Request) **without**

Clamp Body (with different diameters)

***MLC-*1-*04B-*06/12/08/10-*PP-*HV**

Standard Materials

Polypropylene
 Colour: Black
 Material code: **PP**

Polyamide
 Colour: Black
 Material code: **PA**

Fire-Proof Clamp Body Material
made of Polyamide
 Colour: Black
 Material code: **PA-V0**

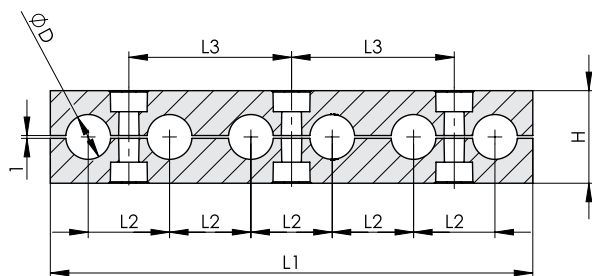
See pages 178 / 179 for material properties and technical information.

Alternative materials are available upon request. Please contact STAUFF for further information.

Group	Outside Diameter Pipe / Tube Ø D		Dimensions (mm / in)				Number of Bolts (B)	Ordering Code Standard Option (2 Clamp Halves) (** = Material)
	(mm)	(in)	L1	L2	L3	H		
1	6						2	MLC-1-04B-06-**-HV
	6,4							MLC-1-04B-06.4-**-HV
	8		76	20	40	27		MLC-1-04B-08-**-HV
	9,5		2.99	.79	1.57	1.06		MLC-1-04B-09.5-**-HV
	10	1/8						MLC-1-04B-10-**-HV
	12							MLC-1-04B-12-**-HV
2	10						2	MLC-2-04B-10-**-HV
	12							MLC-2-04B-12-**-HV
	12,7							MLC-2-04B-12.7-**-HV
	13,5	1/4	114	29	58	33		MLC-2-04B-13.5-**-HV
	14		4.49	1.14	2.28	1.30		MLC-2-04B-14-**-HV
	15							MLC-2-04B-15-**-HV
	16							MLC-2-04B-16-**-HV
	17,2	3/8						MLC-2-04B-17.2-**-HV
	18							MLC-2-04B-18-**-HV
	15							MLC-3-04B-15-**-HV
3	16						2	MLC-3-04B-16-**-HV
	17,2							MLC-3-04B-17.2-**-HV
	18							MLC-3-04B-18-**-HV
	19							MLC-3-04B-19-**-HV
	20		142	36	72	37		MLC-3-04B-20-**-HV
	21,3	1/2	5.59	1.42	2.83	1.46		MLC-3-04B-21.3-**-HV
	22							MLC-3-04B-22-**-HV
	23							MLC-3-04B-23-**-HV
	25							MLC-3-04B-25-**-HV
	25,4							MLC-3-04B-25.4-**-HV

Additional outside diameters and various diameter combinations are available upon request. Please contact STAUFF for further information.



Clamp Body Multi-Line Clamps
 Smooth Inside Surface with Tension Clearance
 Type MLC (for 6 lines)


Group	Outside Diameter Pipe / Tube		Dimensions (mm/in)				Number of Bolts (C)	Ordering Code Standard Option (2 Clamp Halves) (** = Material)
	$\varnothing D$ (mm)	(in)	L1	L2	L3	H		
1	6		116	20	40	27	3	MLC-1-06C-06-**-HV
	6,4							MLC-1-06C-06.4-**-HV
	8							MLC-1-06C-08-**-HV
	9,5	1/8						MLC-1-06C-09.5-**-HV
	10							MLC-1-06C-10-**-HV
	12							MLC-1-06C-12-**-HV
2	10		172	29	58	33	3	MLC-2-06C-10-**-HV
	12							MLC-2-06C-12-**-HV
	12,7							MLC-2-06C-12.7-**-HV
	13,5	1/4						MLC-2-06C-13.5-**-HV
	14							MLC-2-06C-14-**-HV
	15							MLC-2-06C-15-**-HV
	16							MLC-2-06C-16-**-HV
	17,2	3/8						MLC-2-06C-17.2-**-HV
	18							MLC-2-06C-18-**-HV
	19							MLC-2-06C-19-**-HV
3	15		214	36	72	37	3	MLC-3-06C-15-**-HV
	16							MLC-3-06C-16-**-HV
	17,2							MLC-3-06C-17.2-**-HV
	18							MLC-3-06C-18-**-HV
	19							MLC-3-06C-19-**-HV
	20							MLC-3-06C-20-**-HV
	21,3	1/2						MLC-3-06C-21.3-**-HV
	22							MLC-3-06C-22-**-HV
	23							MLC-3-06C-23-**-HV
	25							MLC-3-06C-25-**-HV
25,4		MLC-3-06C-25.4-**-HV						

Additional outside diameters and various diameter combinations are available upon request. Please contact STAUFF for further information.

Ordering Codes
Clamp Body (with identical diameters)

*MLC-*1-*06C-*06-*PP-*HV

One clamp body is consisting of two clamp halves.

- * Clamp Type MLC
- * STAUFF Group 1
- * Number of lines and bolts 06C
- * Exact outside diameter $\varnothing D$ (mm) 06
- * Material code (see below) PP
- * Inside Surface Type
 - Smooth Inside Surface (Standard Option) HV
 - Profiled Inside Surface (Upon Request) without

Clamp Body (with different diameters)

*MLC-*1-*06C-*06/12/08/10/12/12-*PP-*HV

Standard Materials

Polypropylene
 Colour: Black
 Material code: **PP**

Polyamide
 Colour: Black
 Material code: **PA**

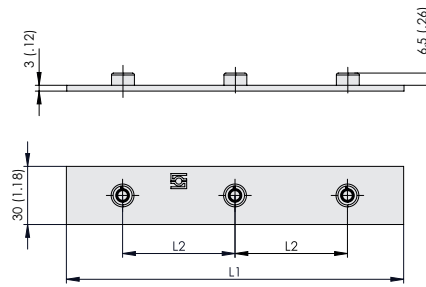
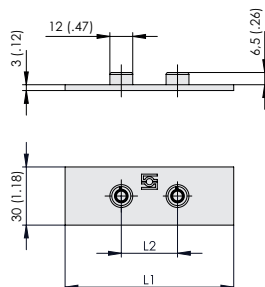
Fire-Proof Clamp Body Material made of Polyamide
 Colour: Black
 Material code: **PA-VO**

See pages 178 / 179 for material properties and technical information.

Alternative materials are available upon request. Please contact STAUFF for further information.



Single Weld Plate for Multi-Line Clamps Type SP-MLC



2 Welding Nuts (B)

3 Welding Nuts (C)

Ordering Codes

Single Weld Plate

*SP-MLC-*1-*04B-*M-*78-*W2

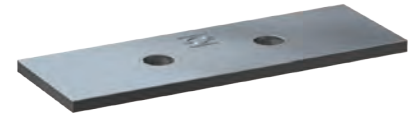
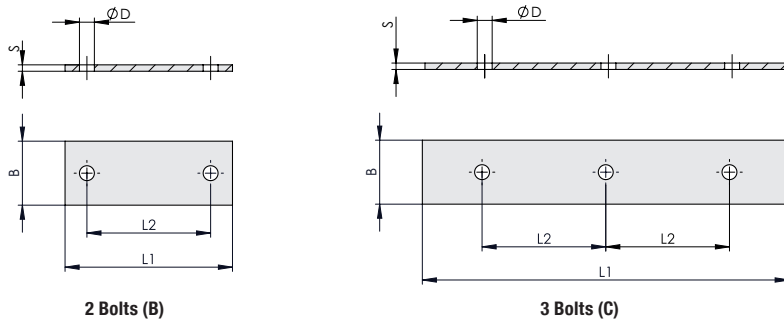
- * Single Weld Plate for Multi-Line Clamps **SP-MLC**
- * STAUFF Group **1**
- * Number of lines and bolts in Clamp Body **04B**
- * Thread code Metric ISO thread **M**
Unified coarse (UNC) thread **U**
- * Length **78**
- * Material code Carbon Steel, phosphated **W2**
Stainless Steel V4A **W5**
1.4401 / 1.4571 (AISI 316 / 316 Ti)

Group STAUFF	Number of Lines in Clamp Body	Number of Welding Nuts	Dimensions (mm/in)			Ordering Codes (Standard Options)		
			Thread G	L1	L2			
1	2	2	M6	62,5	40	SP-MLC-1-02B-M-62.5-W2		
			1/4-20 UNC	2.46	1.57	SP-MLC-1-02B-U-62.5-W2		
	3		M6	58	20	SP-MLC-1-03B-M-58-W2		
			1/4-20 UNC	2.28	.79	SP-MLC-1-03B-U-58-W2		
	4		M6	78	40	SP-MLC-1-04B-M-78-W2		
			1/4-20 UNC	3.07	1.57	SP-MLC-1-04B-U-78-W2		
2	2	3	M6	118	40	SP-MLC-1-06C-M-118-W2		
			1/4-20 UNC	4.46	1.57	SP-MLC-1-06C-U-118-W2		
	3		M6	80	58	SP-MLC-2-02B-M-80-W2		
			1/4-20 UNC	3.15	2.28	SP-MLC-2-02B-U-80-W2		
	4		M6	87	29	SP-MLC-2-03B-M-87-W2		
			1/4-20 UNC	3.43	1.14	SP-MLC-2-03B-U-87-W2		
3	2	2	M6	116	58	SP-MLC-2-04B-M-116-W2		
			1/4-20 UNC	4.57	2.28	SP-MLC-2-04B-U-116-W2		
	3		M6	174	58	SP-MLC-2-06C-M-174-W2		
			1/4-20 UNC	6.85	2.28	SP-MLC-2-06C-U-174-W2		
	3		2	3	M6	94,5	72	SP-MLC-3-02B-M-94.5-W2
					1/4-20 UNC	3.72	2.83	SP-MLC-3-02B-U-94.5-W2
3		M6	108		36	SP-MLC-3-03B-M-108-W2		
		1/4-20 UNC	4.25		1.41	SP-MLC-3-03B-U-108-W2		
4		M6	144		72	SP-MLC-3-04B-M-144-W2		
		1/4-20 UNC	5.67		2.83	SP-MLC-3-04B-U-144-W2		
6	M6	216	72	SP-MLC-3-06C-M-216-W2				
	1/4-20 UNC	8.50	2.83	SP-MLC-3-06C-U-216-W2				

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

G



**Cover Plate for Multi-Line Clamps
Type DP-MLC**


Group STAUFF	Number of Lines in Clamp Body	Number of Bolts	Dimensions (mm/in)					Ordering Codes (Standard Options)
			L1	L2	B	D	S	
1	2	2	60,5	40	30	7	3	DP-MLC-1-02B-60.5-W3
			2.38	1.57				DP-MLC-1-03B-56-W3
	3		56	20				DP-MLC-1-04B-76-W3
			2.20	.79				DP-MLC-1-06C-116-W3
	4	76	40	DP-MLC-2-02B-78.5-W3				
	2.99	1.57	DP-MLC-2-03B-85-W3					
2	6	3	116	40				DP-MLC-2-04B-114-W3
		4.57	1.57	DP-MLC-2-06C-172-W3				
	2	2	78,5	58				DP-MLC-3-02B-92.5-W3
			3.09	2.28				DP-MLC-3-03B-106-W3
	3		85	29				DP-MLC-3-04B-142-W3
	3.35		1.14	DP-MLC-3-06C-214-W3				
3	4	3	114	58	DP-MLC-1-02B-60.5-W3			
			4.49	2.28	DP-MLC-1-03B-56-W3			
	6		172	58	DP-MLC-1-04B-76-W3			
			6.77	2.28	DP-MLC-1-06C-116-W3			
	2	2	92,5	72	DP-MLC-2-02B-78.5-W3			
	3.64		2.83	DP-MLC-2-03B-85-W3				
3	106		36	DP-MLC-2-04B-114-W3				
	4.17		1.42	DP-MLC-2-06C-172-W3				
3	4	3	142	72	DP-MLC-3-02B-92.5-W3			
			5.59	2.83	DP-MLC-3-03B-106-W3			
	6		214	72	DP-MLC-3-04B-142-W3			
			8.43	2.83	DP-MLC-3-06C-214-W3			

Ordering Codes
Cover Plate
***DP-MLC-*1-*04B-*76-*W3**

* Cover Plate for Multi-Line Clamps	DP-MLC
* STAUFF Group	1
* Number of lines and bolts in Clamp Body	04B
* Length	76
* Material code	W3
Carbon Steel, zinc/nickel-plated	
Stainless Steel V4A	W5
1.4401 / 1.4571 (AISI 316 / 316 Ti)	

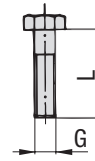
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



Hexagon Head Bolt

(for Use with Cover Plate DP-MLC)

Type AS



Hexagon Head Bolt AS (according to DIN 931 / 933 or ANSI / ASME B18.2.1.)
Dimensions applicable only when used with Cover Plate DP-MLC

Ordering Codes

Hexagon Head Bolt

***AS-*M6x30-*W3**

- * Hexagon Head Bolt (according to DIN 931 / 933 or ANSI / ASME B18.2.1.) **AS**
- * Thread type and size acc. to dimension table **M6x30**
- * Material code Carbon Steel, zinc/nickel-plated **W3**
Stainless Steel V4A **W5**
1.4401 / 1.4571 (AISI 316 / 316 Ti)

Group STAUFF	Dimensions (mm/in) Thread G x L	Ordering Codes (Standard Options)
1	M6 x 30	AS-M6x30-W3
	1/4-20 UNC x 1-1/4	AS-1/4-20UNCx1-1/4-W3
2	M6 x 35	AS-M6x35-W3
	1/4-20 UNC x 1-3/8	AS-1/4-20UNCx1-3/8-W3
3	M6 x 40	AS-M6x40-W3
	1/4-20 UNC x 1-1/2	AS-1/4-20UNCx1-1/2-W3

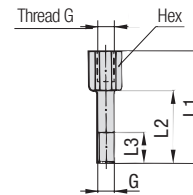
All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

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Stacking Bolt

(for Use with Safety Locking Plate SIG)

Type AF



Ordering Codes

Stacking Bolt

***AF-*1/1A/1D-*M-*W3**

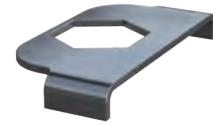
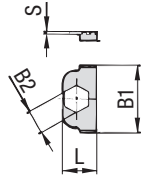
- * Stacking Bolt (according to STAUFF Standard-Series) **AF**
- * STAUFF Group **1**
- * Thread code Metric ISO thread **M**
Unified coarse (UNC) thread **U**
- * Material code Carbon Steel, zinc/nickel-plated **W3**
Stainless Steel V4A **W5**
1.4401 / 1.4571 (AISI 316 / 316 Ti)

Group STAUFF	Dimensions (mm/in)					Ordering Codes (Standard Options)
	Thread G	L1	L2	L3 min.	Hex	
1	M6	34	20	12	11	AF-1/1A/1D-M-W3
	1/4-20 UNC	1.34	.79	.47	.43	AF-1/1A/1D-U-W3
2	M6	40	25	12	11	AF-2-M-W3
	1/4-20 UNC	1.57	.98	.47	.43	AF-2-U-W3
3	M6	44	30	12	11	AF-3-M-W3
	1/4-20 UNC	1.73	1.18	.47	.43	AF-3-U-W3

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



Safety Locking Plate
 (for Use with Stacking Bolt AF)
Type SIG


STAUFF Group 1

Group STAUFF	Dimensions (mm/in)				Ordering Code (Standard Option)
	L	B1	B2	S	
1					SIG-1-W3
2	16 .63	32 1.26	11,2 .44	1 .04	
3					

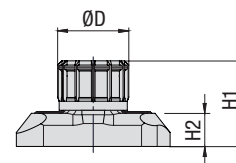
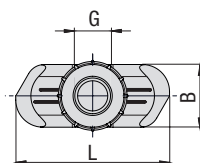
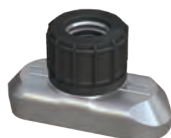
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Ordering Codes
Safety Locking Plate
***SIG-*1-*W3**

* Safety Locking Plate (according to STAUFF Standard-Series)	SIG
* STAUFF Group	1
* Material code Carbon Steel, zinc/nickel-plated	W3
Stainless Steel V4A	W5
1.4401 / 1.4571 (AISI 316 / 316 Ti)	



Hexagon Rail Nut
(for Use with Mounting Rail TS)
Type SM



Ordering Codes

Hexagon Rail Nut

***SM-*1-8/1D-*M-*W3**

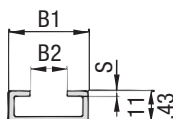
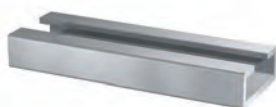
- * Hexagon Rail Nut (according to STAUFF Standard-Series) **SM**
- * STAUFF Group 1 to 8 **1-8/1D**
- * Thread code Metric ISO thread **M**
Unified coarse (UNC) thread **U**
- * Material code Carbon Steel, zinc/nickel-plated **W3**
Stainless Steel V4A **W5**
1.4401 / 1.4571 (AISI 316 / 316 Ti)

Group STAUFF	Dimensions (mm/in)						Ordering Codes (Standard Options)
	Thread G	L	B	H1	H2	ØD	
1							
2	M6	25,5	10,4	14,2	5,5	12	SM-1-8/1D-M-W3
	1/4-20 UNC	1.00	.41	.56	.22	.47	SM-1-8/1D-U-W3
3							

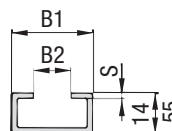
All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

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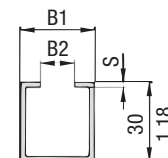
Mounting Rail
(for Use with Hexagon Rail Nut SM)
Type TS



Mounting Rail TS-11



Mounting Rail TS-14



Mounting Rail TS-30

Ordering Codes

Mounting Rail

***TS-*11-*1M-*W98**

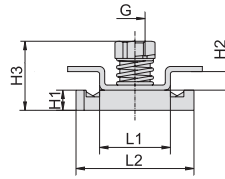
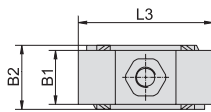
- * Mounting Rail (according to STAUFF Standard-Series) **TS**
- * Height of rail 11 mm / .43 in **11**
14 mm / .55 in **14**
30 mm / 1.18 in **30**
- * Length of rail 1 m / 3.28 ft **1M**
2 m / 6.56 ft **2M**
Alternative lengths available upon request. Contact STAUFF for further information.
- * Werkstoff Carbon Steel, hot-dip galvanised **W98**
Stainless Steel V4A **W5**
1.4401 / 1.4571 (AISI 316 / 316 Ti)

Group STAUFF	Dimensions (mm/in)			Ordering Codes (Standard Options)	
	B1	B2	S	Length of rail: 1 m / 3.28 ft	Length of rail: 2 m / 6.56 ft
1				Height 11 mm / .43 in TS-11-1M-W98	Height 11 mm / .43 in TS-11-2M-W98
2	28	11	2	Height 14 mm / .55 in TS-14-1M-W98	Height 14 mm / .55 in TS-14-2M-W98
	1.10	.43	.08		
3				Height 30 mm / 1.18 in TS-30-1M-W98	Height 30 mm / 1.18 in TS-30-2M-W98

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



Channel Rail Adaptor (for Use with Various Channel Rails) Type CRA



Group STAUFF	DIN	Dimensions (mm/in)									Ordering Codes (Standard Options)	
		Thread G	L1	L2	L3	B1	B2	H1	H2	H3		
1	0											
2	2	M6	21	35	40	16	19	6	5,5	20,5	CRA-1-8/1D-M-W3 CRA-1-8/1D-U-W3	
		1/4-20 UNC	.83	1.38	1.57	.63	.75	.24	.22	.81		
3	3											

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Ordering Codes

Adaptor ***CRA-*1-8/1D-*M-*W3**

* Channel Rail Adaptor	CRA
* STAUFF Group	1 to 8
* Thread code	M
	U
* Material code	W3
	W5
	1.4401 / 1.4571 (AISI 316 / 316 Ti)

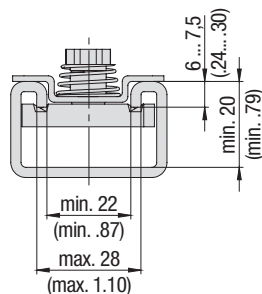
Compatibility with Channel Rails



The STAUFF Channel Rail Adaptor, type CRA, is suitable for various channel rails, including the following types:

HALFEN	HILTI	UNISTRUT®	STAUFF (Cushion Clamp Series)
HM 41/41	MQ-21, MQ-41, MQ-52, MQ-72	P1000, P1000T, P1000V, P1000VT, P1001	SCS-048-1-PL, SCS-048-1-GR
HZA 41/22	MQ-21U, MQ-41U, MQ-72U	P2000, P2000T	SCS-120-1-PL, SCS-120-1-GR
HZM 41/41	MQ-21D, MQ-41D, MQ-52-72D	P3003, P3003T, P3300V, P3300VT, P3301	See page 149 for technical information.
HZM 41/22		P4000, P4000T	
HL 41/41, HL 41/B2		P5000, P5000T, P5001, P5500, P5500T, P5501	

To check the compatibility with additional types of channel rail, please compare the dimensions with the following drawing before use.



**Basic dimensional requirements for channel rails
to be used with STAUFF Channel Rail Adaptors, type CRA**



Examples of Assembly

Direct Assembly



2x **Hexagon Head Bolt**
Material code: W3 / W5
Thread: Metric / UNC

1x **Cover Plate**
Material code: W3 / W5

1x **Clamp Body** (2 Clamp Halves)
STAUFF Group 1 / 2 / 3
Material code: PP / PA / PA-V0
Smooth Inside Surface
with Tension Clearance

Single Weld Plate Assembly



2x **Hexagon Head Bolt**
Material code: W3 / W5
Thread: Metric / UNC

1x **Cover Plate**
Material code: W3 / W5

1x **Clamp Body** (2 Clamp Halves)
STAUFF Group 1 / 2 / 3
Material code: PP / PA / PA-V0
Smooth Inside Surface
with Tension Clearance

1x **Single Weld Plate**
Material code: W2 / W5
Thread: Metric / UNC

G

Mounting Rail Assembly



2x **Hexagon Head Bolt**
Material code: W3 / W5
Thread: Metric / UNC

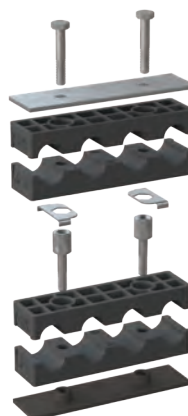
1x **Cover Plate**
Material code: W3 / W5

1x **Clamp Body** (2 Clamp Halves)
STAUFF Group 1 / 2 / 3
Material code: PP / PA / PA-V0
Smooth Inside Surface
with Tension Clearance

2x **Hexagon Rail Nut**
Material code: W3 / W5
Thread: Metric / UNC

Mounting Rail
Material code: W98 / W5
Height: 11 mm (.43 in) /
14 mm (.55 in) /
30 mm (1.18 in)
Length: 1 m (3.28 ft) /
2 m (6.56 ft)

Stacking Assembly



2x **Hexagon Head Bolt**
Material code: W3 / W5
Thread: Metric / UNC

1x **Cover Plate**
Material code: W3 / W5

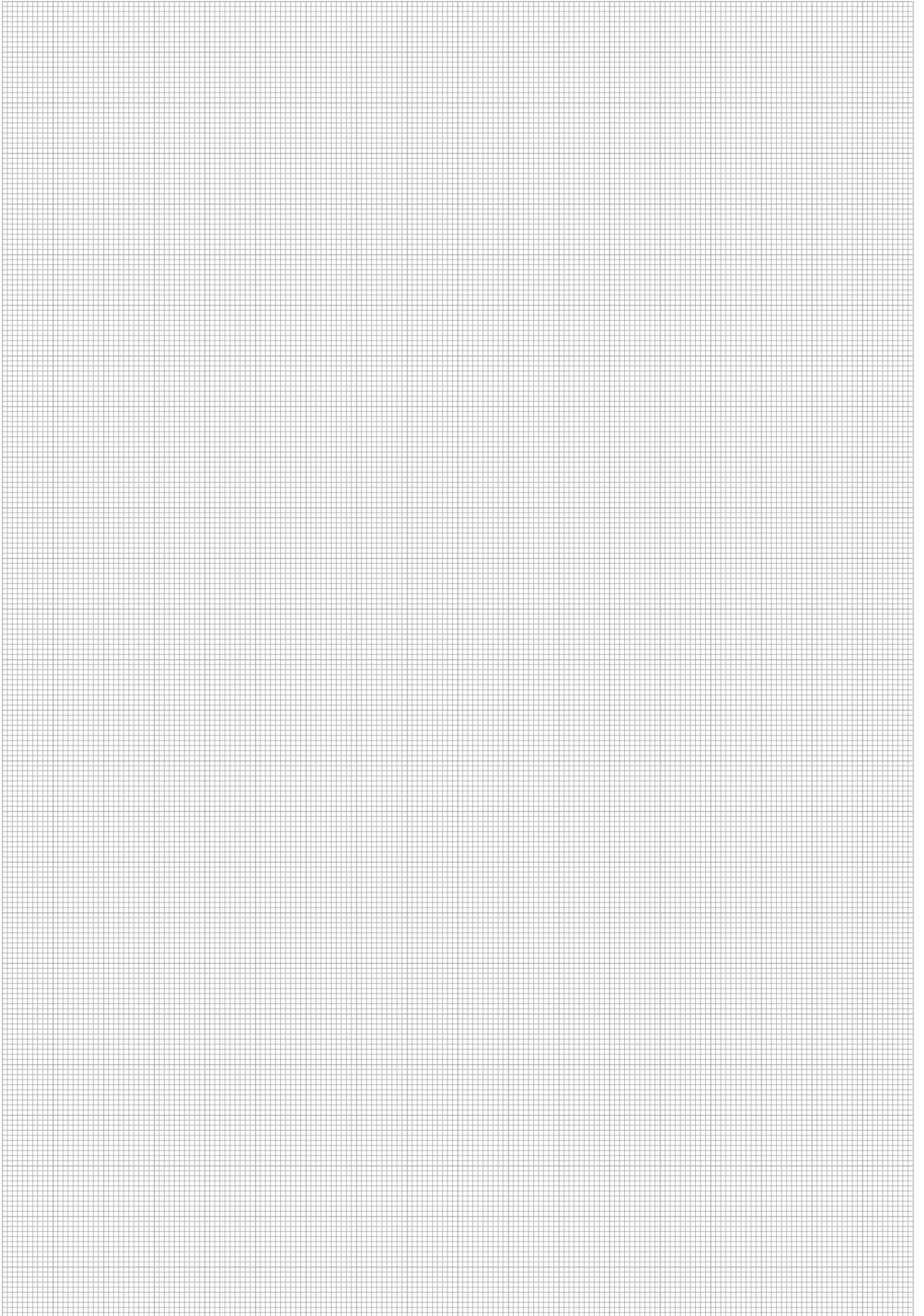
2x **Clamp Body** (4 Clamp Halves)
STAUFF Group 1 / 2 / 3
Material code: PP / PA / PA-V0
Smooth Inside Surface
with Tension Clearance

2x **Safety Locking Plate**
Material code: W3 / W5

2x **Stacking Bolt**
Material code: W3 / W5
Thread: Metric / UNC

1x **Single Weld Plate**
Material code: W2 / W5
Thread: Metric / UNC









G



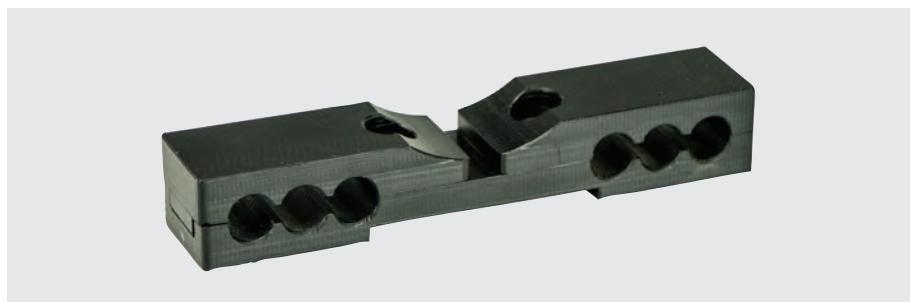
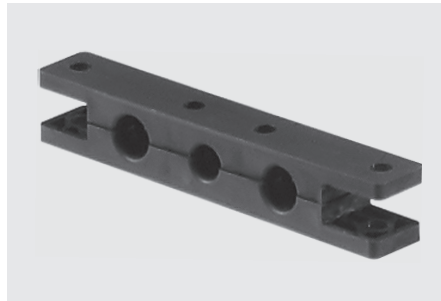
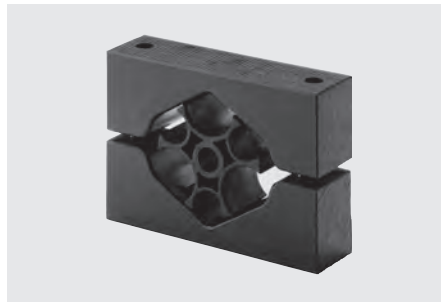


	Machined Versions	128
	Injection Moulded Version	130
	Metal Versions and Accessories	131
	3D-Printed Special Clamps	132
	Enquiry Form for Custom-Designed Special Clamps	133



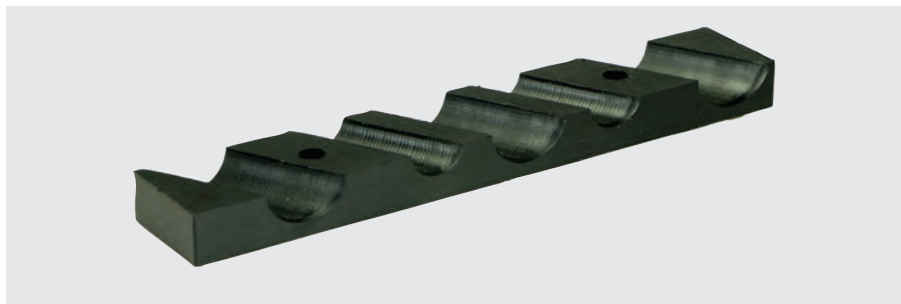
Machined Versions

Custom-designed clamping systems for pipes, tubes, hoses, cables and other components according to customer's specifications or based on STAUFF developments, made of thermoplastics, metals and non-ferrous metals.

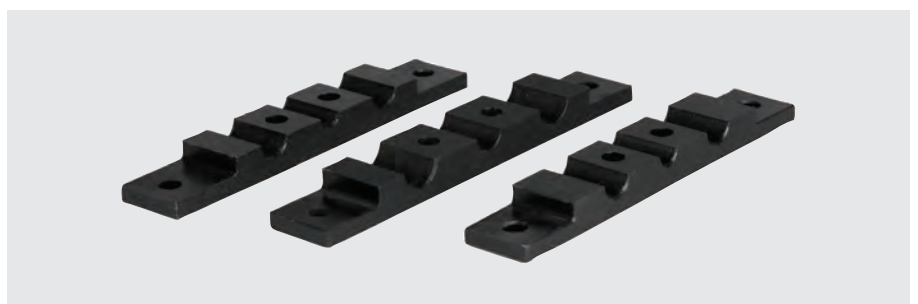


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Injection Moulded Versions (Flexi Clamps)

Custom-designed clamping systems for pipes, tubes, hoses, cables and other components according to customer's specifications or based on STAUFF developments, made of Polypropylene, Polyamide and other thermoplastics.

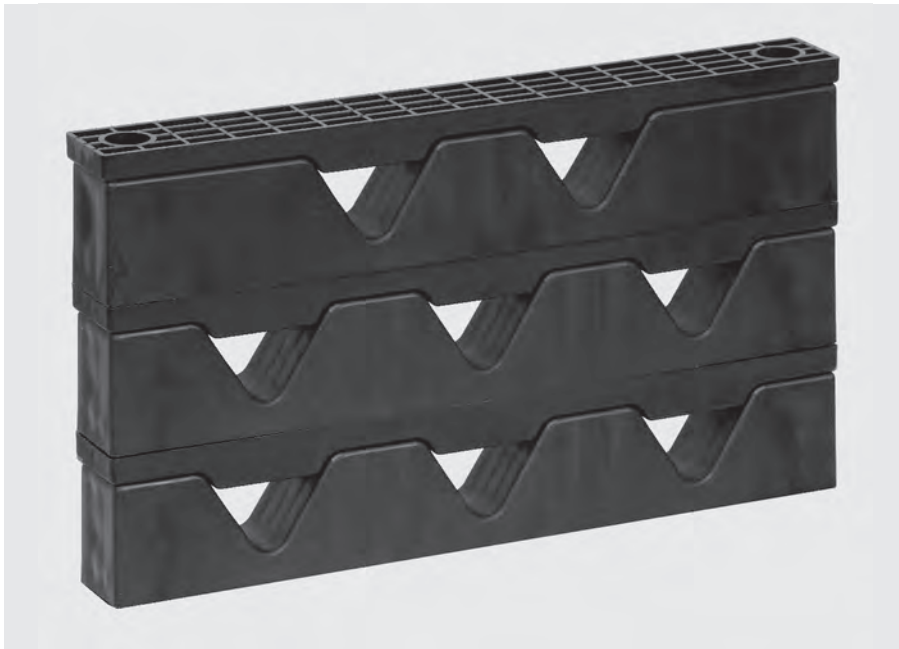


Photo Source: mm-fotowerbung.de

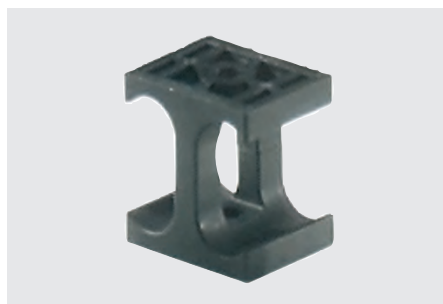
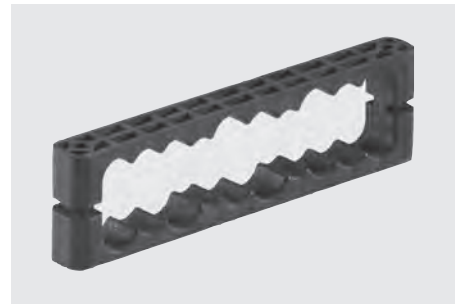
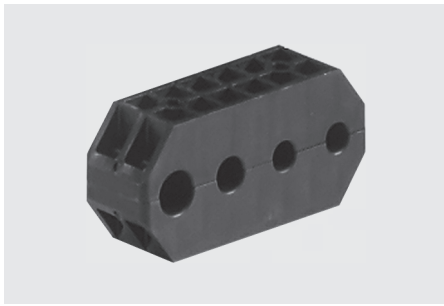


Photo Source: mm-fotowerbung.de



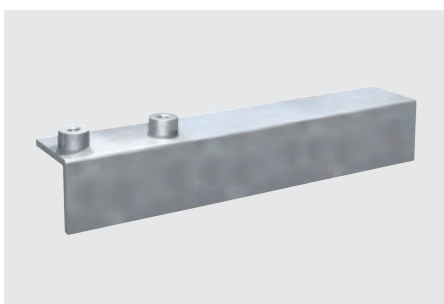
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Metal Versions and Accessories

Metal versions of custom-designed clamping systems for pipes, tubes, hoses, cables and other components as well as accessories such as weld plates, cover plates, bolts as well as elastomer inserts.



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3D-Printed Special Clamps

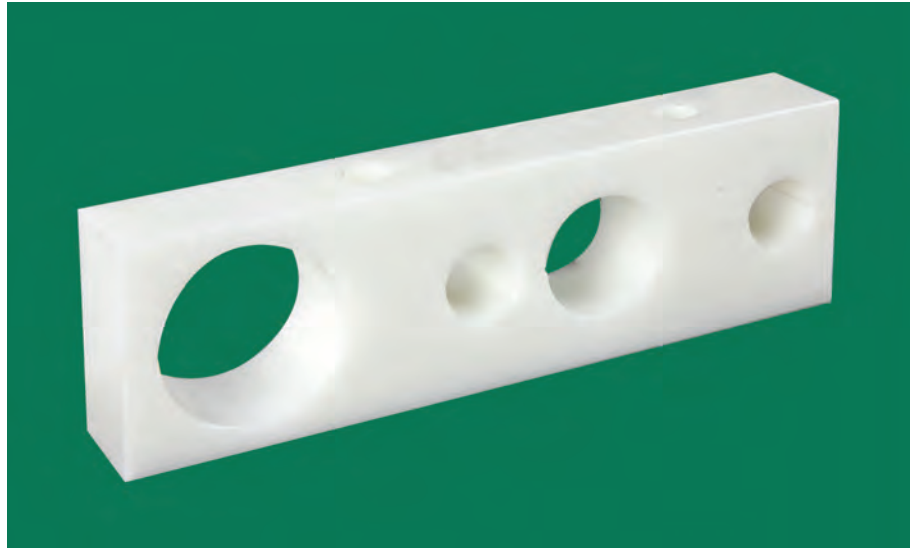
Rapid online quoting and unrivalled fast production and delivery of prototypes and components in small batches

STAUFF offers rapid online quoting and unrivalled fast production and delivery of fully functional and durable prototypes and small batches of STAUFF clamps for the secure fastening of pipes, tubes, hoses, cables and other components in hydraulics and other industrial applications.

And that's how simple it works: Upload the CAD model, select options such as material and colour, get your individual price per piece immediately, specify the quantity, and place the order online. You will typically receive your components within a few working days and pay conveniently by invoice.

STAUFF product specialists will be happy to advise you free of charge on the design optimisation of components and provide support in transferring prototypes to large-batch production.

www.stauff.protiq.com



Enquiry Form for Custom-Designed Special Clamps

Please use the following form as a guideline when preparing an enquiry for a custom-designed special clamp. Scan or copy the page from the catalogue, print and complete it with

as much information as possible, before sending it by email or fax to the closest STAUFF branch office. If possible, please also provide a sketch / drawing and let us know the quanti-

ties required, and if the enquiry is for a one-time or recurring demand. We look forward to hearing from you, and are always available for consultation, when required.

Application Information

Area of use Indoor Outdoor

Ambient temperature Lowest _____ °C / °F Highest _____ °C / °F

Resistance against particular media No Yes Mineral oils
 Other oils _____
 Benzine
 Weak acids
 Solvents
 Alcohols
 Seawater
 Other media _____

Fire protection requirements No Yes UL94
 BS 6853
 Other standard _____

Material preference for the clamp body Polypropylene Polyamide
 Aluminium Steel
 Stainless Steel V2A V4A Other material _____

Design Information

Type of line Pipe / tube (fixed installation) Pipe / tube (sliding installation)
 Hose Conduit Hose
 Cable Mix of different types of lines
 Other components _____

Maximum dimensions of clamp body Length _____ x Width _____ x Height _____ mm / inch

Total number of lines _____

Diameters per line

Line 1 _____ <input type="checkbox"/> mm / <input type="checkbox"/> inch	Further comments _____
Line 2 _____ <input type="checkbox"/> mm / <input type="checkbox"/> inch	Further comments _____
Line 3 _____ <input type="checkbox"/> mm / <input type="checkbox"/> inch	Further comments _____
Line 4 _____ <input type="checkbox"/> mm / <input type="checkbox"/> inch	Further comments _____
Line 5 _____ <input type="checkbox"/> mm / <input type="checkbox"/> inch	Further comments _____
Line 6 _____ <input type="checkbox"/> mm / <input type="checkbox"/> inch	Further comments _____
Line 7 _____ <input type="checkbox"/> mm / <input type="checkbox"/> inch	Further comments _____
Line 8 _____ <input type="checkbox"/> mm / <input type="checkbox"/> inch	Further comments _____

Preferred centre distance of the lines _____ mm / inch

Preferred number of screw holes _____

Information on Mounting Hardware












Preferred type of bolts Hexagon head bolts (with cover plate) with metric threads with UNC threads
 Socket cap crews (with cover plate) with metric threads with UNC threads
 Socket cap crews (w/o cover plate) with metric threads with UNC threads

Preferred type of installation Welding (using a weld plate) Welding (using weld studs)
 Direct screw-fastening Adhesive bonded fastening
 Mounting rail (using a rail nut / adaptor)

Material preference for the hardware Steel Stainless Steel V2A V4A

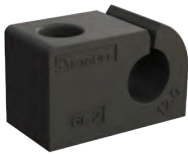




	Clamp Body - Single Design LBBU	136
	Clamp Body - Twin Design LBBU	137
	Weld Plate LBBU-SP	138
	Sleeve LBBU-HUE	138
	Cover Plate LBBU-DP	139
	Hexagon Head Bolt AS	139
	Clamp Body - Single Design LB	140
	Clamp Body - Twin Design LBG / LBU	141
	Clamp Body - Single Design LN	142
	Clamp Body - Twin Design LNGF / LNUF	143
	Cover Plate DPL	143



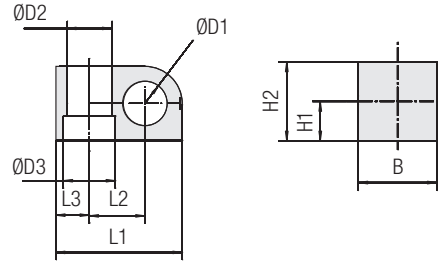
Clamp Body - Single Design Type LBBU



Size 2 in slotted design



Size 1 and 3 with film hinge



Ordering Codes

Clamp Body *LBBU-*1*06-*SA87-*M8/U5/16

- * Light Series LBBU **LBBU**
- * STAUFF Group **1**
- * Exact outside diameter Ø D1 (mm) **06**
- * Material code (see below) Size 1 and 3 **SA87**
- Size 2 **SA73**
- * Thread code (suitable for bolts M8 and U5/16) **M8/U5/16**

Standard Materials



Thermoplastic Elastomer (87 Shore-A)
 Colour: Black
 Material code: **SA87** (Size 1 and 3)
 Material code: **SA73** (Size 2)

See pages 178 / 179 for material properties and technical information.

Alternative materials are available upon request. Please contact STAUFF for further information.

Product Features

- Compact and light-weight design for applications in which space is limited
- Available in 3 different sizes and covering all standard metric and imperial diameters between 4 mm and 32 mm
- Vibration-damping and noise-reducing clamp body material with UV, ozone and weathering-resistant characteristics
- Embedded metal sleeve to ensure stability of the clamp assembly

Group	Outside Diameter		Nominal Bore Pipe (in)	Ordering Codes (1 Clamp Body)	Dimensions (mm/in)												
	Pipe / Tube / Hose Ø D1 (mm)	(in)			Ø D2	Ø D3	L1	L2	L3	H1	H2	B					
1	6			LBBU-106-SA87-M8/U5/16													
	6,4	1/4		LBBU-106.4-SA87-M8/U5/16													
	8	5/16		LBBU-108-SA87-M8/U5/16													
	9,5	3/8		LBBU-109.5-SA87-M8/U5/16	12	14	34	15	9	10	20	20					
	10		1/8	LBBU-110-SA87-M8/U5/16	.47	.55	1.34	.59	.35	.39	.79	.79					
	11			LBBU-111-SA87-M8/U5/16													
	12			LBBU-112-SA87-M8/U5/16													
	12,7	1/2		LBBU-112.7-SA87-M8/U5/16													
	10		1/8	LBBU-210-SA87-M8/U5/16													
	11			LBBU-211-SA87-M8/U5/16													
2	12			LBBU-212-SA87-M8/U5/16													
	12,7	1/2		LBBU-212.7-SA87-M8/U5/16													
	13,5		1/4	LBBU-213.5-SA87-M8/U5/16													
	14			LBBU-214-SA87-M8/U5/16	20	14	39	18	9	12	24	20					
	15			LBBU-215-SA87-M8/U5/16	.47	.55	1.54	.71	.35	.47	.94	.79					
	16	5/8		LBBU-216-SA87-M8/U5/16													
	17,2		3/8	LBBU-217.2-SA87-M8/U5/16													
	18			LBBU-218-SA87-M8/U5/16													
	19	3/4		LBBU-219-SA87-M8/U5/16													
	20			LBBU-220-SA87-M8/U5/16													
3	21,3			LBBU-321.3-SA87-M8/U5/16													
	22	7/8		LBBU-322-SA87-M8/U5/16													
	23			LBBU-323-SA87-M8/U5/16													
	25			LBBU-325-SA87-M8/U5/16	12	14	57,5	23,5	15	20	40	30					
	25,4	1		LBBU-325.4-SA87-M8/U5/16	.47	.55	2.26	.93	.59	.79	1.57	1.18					
	28			LBBU-328-SA87-M8/U5/16													
	30			LBBU-330-SA87-M8/U5/16													
32	1-1/4		LBBU-332-SA87-M8/U5/16														

Additional outside diameters are available upon request. Please contact STAUFF for further information.



Type of Mounting SP (with Weld Plate LBBU-SP)

- Clamp assembly consisting of:
- 1 Hexagon Head Bolt AS
 - 1 Cover Plate LBBU-DP
 - 1 Sleeve LBBU-HUE
 - 1 Clamp Body LBBU
 - 1 Weld Plate LBBU-SP

Order Code

LBBU-SP-322-SA87-DP-AS-M8-W10

W10 (Weld Plate made of Carbon Steel, phosphated; Other metal parts made of Carbon Steel, zinc/nickel-plated) is the standard option for this type of installation. For UNC threads / bolts, please replace M8 by U5/16.



Type of Mounting SM (with Hexagon Rail Nut SM-2-5D)

- Clamp assembly consisting of:
- 1 Hexagon Head Bolt AS
 - 1 Cover Plate LBBU-DP
 - 1 Sleeve LBBU-HUE
 - 1 Clamp Body LBBU
 - 1 Hexagon Rail Nut SM-2-5D (for use with Mounting Rail TS, see page 24 for details)

Order Code (Mounting Rail TS not included.)

LBBU-SM-322-SA87-DP-AS-M8-W3

W3 (Metal parts made of Carbon Steel, zinc/nickel-plated) is the standard option for this type of installation. For UNC threads / bolts, please replace M8 by U5/16.



Type of Mounting PM (for panel mounting without Weld Plate or Hexagon Rail Nut)

- Clamp assembly consisting of:
- 1 Hexagon Head Bolt AS
 - 1 Cover Plate LBBU-DP
 - 1 Sleeve LBBU-HUE
 - 1 Clamp Body LBBU

Order Code

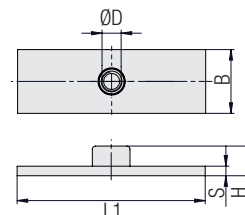
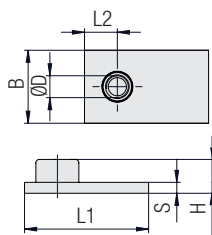
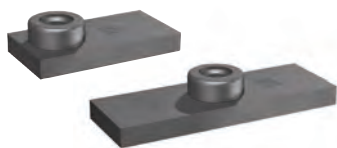
LBBU-PM-322-SA87-DP-AS-M8-W3

W3 (Metal parts made of Carbon Steel, zinc/nickel-plated) is the standard option for this type of installation. For UNC threads / bolts, please replace M8 by U5/16.

Alternative sizes (e.g. for bolts M6 and 1/4–20 UNC), materials and surface finishings are available upon request.



Weld Plate Type LBBU-SP



STAUFF Group 1 to 3

STAUFF Group 1D to 3D

Ordering Codes

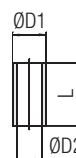
Weld Plate ***LBBU-SP-*1D-*M8-*W2**

* Light Series LBBU		LBBU
* Weld Plate		-SP
* STAUFF Group		1D
* Thread code	Metric ISO thread: M8	M8
	UNC thread: 5/16-18 UNC	U5/16
* Material code	Carbon Steel, phosphated	W2

Group STAUFF	Dimensions (mm/in)						Thread G	Ordering Codes (Standard Options)
	Ø D	L1	L2	H	B	S		
1	14	34	9	10,3	20	5	M8	LBBU-SP-1-M8-W2
	.55	1.34	.35	.41	.79	.20	5/16-18 UNC	LBBU-SP-1-U5/16-W2
2	14	39	9	10,3	20	5	M8	LBBU-SP-2-M8-W2
	.55	1.54	.35	.41	.79	.20	5/16-18 UNC	LBBU-SP-2-U5/16-W2
3	14	57,5	15	10,3	30	5	M8	LBBU-SP-3-M8-W2
	.55	2.26	.59	.41	1.18	.20	5/16-18 UNC	LBBU-SP-3-U5/16-W2
1D	14	50	X	10,3	20	5	M8	LBBU-SP-1D-M8-W2
	.55	1.97		.41	.79	.20	5/16-18 UNC	LBBU-SP-1D-U5/16-W2
2D	14	59	X	10,3	20	5	M8	LBBU-SP-2D-M8-W2
	.55	2.32		.41	.79	.20	5/16-18 UNC	LBBU-SP-2D-U5/16-W2
3D	14	86	X	10,3	30	5	M8	LBBU-SP-3D-M8-W2
	.55	3.39		.41	1.18	.20	5/16-18 UNC	LBBU-SP-3D-U5/16-W2

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative sizes (e.g. for bolts M6 and 1/4-20 UNC), materials and surface finishings are available upon request.

Sleeve Type LBBU-HUE



Dimensions applicable only when used with Weld Plate LBBU-SP (**Type of Mounting SP**)

Dimensions applicable only when used with Hexagon Rail Nut SM-2-5D (**Type of Mounting SM**)

Dimensions applicable only when used for panel mounting without Weld Plate or Hexagon Rail Nut (**Type of Mounting PM**)

Group STAUFF	Dimensions (mm/in)			Ordering Codes (Standard Options)
	ØD1	ØD2	L	
1	12	9	13,5	LBBU-HUE-1/1D-SP-M8/U5/16-W3
	.47	.35	.53	
2	12	9	17,5	LBBU-HUE-2/2D-SP-M8/U5/16-W3
	.47	.35	.69	
3	12	9	33,5	LBBU-HUE-3/3D-SP-M8/U5/16-W3
	.47	.35	1.32	
1D	12	9	13,5	LBBU-HUE-1/1D-SP-M8/U5/16-W3
	.47	.35	.53	
2D	12	9	17,5	LBBU-HUE-2/2D-SP-M8/U5/16-W3
	.47	.35	.69	
3D	12	9	33,5	LBBU-HUE-3/3D-SP-M8/U5/16-W3
	.47	.35	1.32	

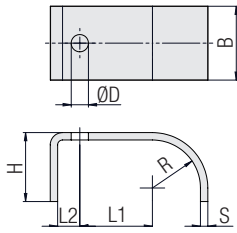
Group STAUFF	Dimensions (mm/in)			Ordering Codes (Standard Options)
	ØD1	ØD2	L	
1	12	9	12,8	LBBU-HUE-1/1D-SM-M8/U5/16-W3
	.47	.35	.50	
2	12	9	16,8	LBBU-HUE-2/2D-SM-M8/U5/16-W3
	.47	.35	.66	
3	12	9	32,8	LBBU-HUE-3/3D-SM-M8/U5/16-W3
	.47	.35	1.29	
1D	12	9	12,8	LBBU-HUE-1/1D-SM-M8/U5/16-W3
	.47	.35	.50	
2D	12	9	16,8	LBBU-HUE-2/2D-SM-M8/U5/16-W3
	.47	.35	.66	
3D	12	9	32,8	LBBU-HUE-3/3D-SM-M8/U5/16-W3
	.47	.35	1.29	

Group STAUFF	Dimensions (mm/in)			Ordering Codes (Standard Options)
	ØD1	ØD2	L	
1	12	9	18,8	LBBU-HUE-1/1D-PM-M8/U5/16-W3
	.47	.35	.74	
2	12	9	22,7	LBBU-HUE-2/2D-PM-M8/U5/16-W3
	.47	.35	.89	
3	12	9	38,8	LBBU-HUE-3/3D-PM-M8/U5/16-W3
	.47	.35	1.53	
1D	12	9	18,8	LBBU-HUE-1/1D-PM-M8/U5/16-W3
	.47	.35	.74	
2D	12	9	22,7	LBBU-HUE-2/2D-PM-M8/U5/16-W3
	.47	.35	.89	
3D	12	9	38,8	LBBU-HUE-3/3D-PM-M8/U5/16-W3
	.47	.35	1.53	

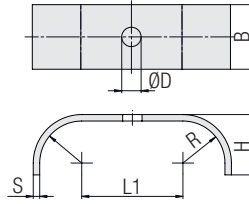
Alternative sizes (e.g. for bolts M6 and 1/4-20 UNC), materials and surface finishings are available upon request.



Cover Plate
Type LBBU-DP



STAUFF Group 1 to 3



STAUFF Group 1D to 3D



Group STAUFF	Dimensions (mm/in)							Ordering Codes (Standard Options)
	Ø D	L1	L2	R	H	B	S	
1	9	15	9	10	16	20	3	LBBU-DP-1-M8/U5/16-W3
	.35	.59	.35	.39	.63	.79	.12	
2	9	18	9	12	20	20	3	LBBU-DP-2-M8/U5/16-W3
	.35	.71	.35	.47	.79	.79	.12	
3	9	23,5	15	19,5	28	30	3	LBBU-DP-3-M8/U5/16-W3
	.35	.93	.59	.77	1.10	1.18	.12	
1D	9	30	X	10	16	20	3	LBBU-DP-1D-M8/U5/16-W3
	.35	1.18		.39	.63	.79	.12	
2D	9	35		12	20	20	3	LBBU-DP-2D-M8/U5/16-W3
	.35	1.38		.47	.79	.79	.12	
3D	9	47	19,5	28	20	3	LBBU-DP-3D-M8/U5/16-W3	
	.35	1.85	.77	.63	.79	.12		

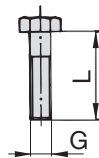
Ordering Codes

Cover Plate *LBBU-DP-*1D-*M8/U5/16-*W3

- * Light Series LBBU LBBU
- * Cover Plate -DP
- * STAUFF Group 1D
- * Thread code (suitable for bolts M8 and U5/16) M8/U5/16
- * Material code Carbon Steel, zinc/nickel-plated W3

Alternative sizes (e.g. for bolts M6 and 1/4–20 UNC), materials and surface finishings are available upon request.

Hexagon Head Bolt
Type AS



Hexagon Head Bolt AS

(according to DIN 931 / 933 or ANSI / ASME B18.2.1.)
Dimensions applicable only when used with
Weld Plate LBBU-SP (Type of Mounting SP)
or Hexagon Rail Nut SM-2-5D (Type of Mounting SM)

Hexagon Head Bolt AS

(according to DIN 931 / 933 or ANSI / ASME B18.2.1.)
Dimensions applicable only when used for panel mounting
without Weld Plate or Hexagon Rail Nut
(Type of Mounting PM)



Group STAUFF	Dimensions (mm/in) Thread G x L	Ordering Codes (Standard Options)
1	M8 x 25	AS-M8x25-W3
	5/16–18 UNC x 1	AS-U5/16-18x1-W3
2	M8 x 28	AS-M8x28-W3
	5/16–18 UNC x 1-1/8	AS-U5/16-18x1-1/8-W3
3	M8 x 45	AS-M8x45-W3
	5/16–18 UNC x 1-3/4	AS-U5/16-18x1-3/4-W3
1D	M8 x 25	AS-M8x25-W3
	5/16–18 UNC x 1	AS-U5/16-18x1-W3
2D	M8 x 28	AS-M8x28-W3
	5/16–18 UNC x 1-1/8	AS-U5/16-18x1-1/8-W3
3D	M8 x 45	AS-M8x45-W3
	5/16–18 UNC x 1-3/4	AS-U5/16-18x1-3/4-W3

Group STAUFF	Dimensions (mm/in) Thread G x L	Ordering Codes (Standard Options)
1	M8 x 30	AS-M8x30-W3
	5/16–18 UNC x 1-1/4	AS-U5/16-18x1-1/4-W3
2	M8 x 35	AS-M8x35-W3
	5/16–18 UNC x 1-3/8	AS-U5/16-18x1-3/8-W3
3	M8 x 50	AS-M8x50-W3
	5/16–18 UNC x 2	AS-U5/16-18x2-W3
1D	M8 x 30	AS-M8x30-W3
	5/16–18 UNC x 1-1/4	AS-U5/16-18x1-1/4-W3
2D	M8 x 35	AS-M8x35-W3
	5/16–18 UNC x 1-3/8	AS-U5/16-18x1-3/8-W3
3D	M8 x 50	AS-M8x50-W3
	5/16–18 UNC x 2	AS-U5/16-18x2-W3

Ordering Codes

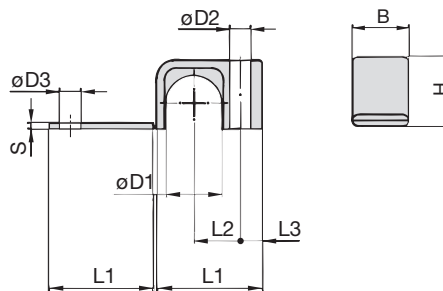
Hexagon Head Bolt *AS-*M8x25-*W3

- * Type of bolt Hexagon Head Bolt (according to DIN 931 / 933 or ANSI / ASME B18.2.1.) AS
- * Thread code Thread dimension according to dimension table M8x25
- * Material code Carbon Steel, zinc/nickel-plated W3

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.
Alternative sizes (e.g. for bolts M6 and 1/4–20 UNC), materials and surface finishings are available upon request.



Clamp Body - Single Design Type LB



Ordering Codes

Clamp Body

***LB-*1*03.2-*PP**

- * Light Series: Clamp Body / Single Design **LB**
- * STAUFF Group **1**
- * Exact outside diameter Ø D1 (mm) **03.2**
- * Material code (see below) **PP**

Standard Materials



Polypropylene
Colour: Black
Material code: **PP**



Polyamide
Colour: Yellow
Material code: **PA**

See pages 178 / 179 for material properties and technical information.

Alternative materials are available upon request. Please contact STAUFF for further information.

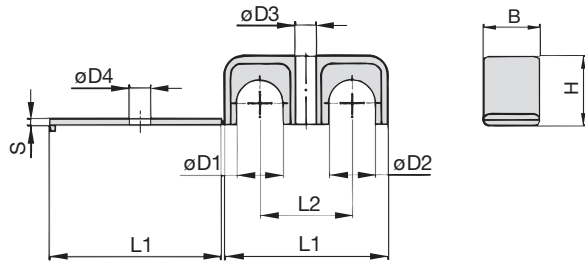
Applications

- Pneumatics, Instrumentation and Automotive Technology, Machine Tool Industry, Lubrication, Mechanical Engineering

Group	Outside Diameter Pipe / Tube / Hose Ø D1		Nominal Bore Pipe (in)	Ordering Codes (1 Clamp Body) (** = Material)	Dimensions (mm/in)									
	(mm)	(in)			L1	L2	L3	B	H	S	Ø D2	Ø D3		
1	3,2	1/8		LB-103.2-**-**										
	6			LB-106-**-**	22	9	6,5	12	10,5	2	6,8	7		
	6,4	1/4		LB-106.4-**-**	.87	.35	.26	.47	.41	.08	.27	.28		
	8			LB-108-**-**										
2	9,5	3/8		LB-209.5-**-**										
	10		1/8	LB-210-**-**	27	11	7	16	15	2	6,8	7		
	11,1			LB-211.1-**-**	1.06	.43	.28	.63	.59	.08	.27	.28		
	12			LB-212-**-**										
3	12,7	1/2		LB-312.7-**-**										
	13,5		1/4	LB-313.5-**-**										
	14			LB-314-**-**										
	15			LB-315-**-**	34	15	7	20	22,5	2	6,8	7		
	16	5/8		LB-316-**-**	1.34	.59	.28	.79	.89	.08	.27	.28		
	17,2		3/8	LB-317.2-**-**										
4	18			LB-318-**-**										
	19	3/4		LB-419-**-**										
	20			LB-420-**-**										
	21,3		1/2	LB-421.3-**-**	42	19	7	20	30	2	6,8	7		
	22			LB-422-**-**	1.65	.75	.28	.79	1.18	.08	.27	.28		
25			LB-425-**-**											
25,4	1		LB-425.4-**-**											

Additional outside diameters are available upon request. Please contact STAUFF for further information.



**Clamp Body - Twin Design
Types LBG / LBU**


Group	Outside Diameters		Nominal Bore Pipe	Ordering Codes (1 Clamp Body)	Dimensions (mm/in)						
	Ø D1	Ø D2			L1	L2	B	H	S	Ø D3	Ø D4
1	3,2	1/8		LBG-103.2/03.2-**							
	6			LBG-106/06-**	31	18	12	10,5	2	6,8	7
	6,4	1/4		LBG-106.4/06.4-**	1.22	.71	.47	.41	.08	.27	.28
	8			LBG-108/08-**							
2	9,5	3/8		LBG-209.5/09.5-**							
	10		1/8	LBG-210/10-**	39	22	16	15	2	6,8	7
	11,1			LBG-211.1/11.1-**	1.54	.87	.63	.59	.08	.27	.28
	12			LBG-212/12-**							
3	12,7	1/2		LBG-312.7/12.7-**							
	13,5		1/4	LBG-313.5/13.5-**							
	14			LBG-314/14-**							
	15			LBG-315/15-**	53	30	20	22,5	2	6,8	7
	16	5/8		LBG-316/16-**	2.09	1.18	.79	.89	.08	.27	.28
	17,2		3/8	LBG-317.2/17.2-**							
4	18			LBG-318/18-**							
	19	3/4		LBG-419/19-**							
	20			LBG-420/20-**							
	21,3		1/2	LBG-421.3/21.3-**	70	38	20	30	2	6,8	7
	22			LBG-422/22-**	2.76	1.50	.79	1.18	.08	.27	.28
	25			LBG-425/25-**							
	25,4	1		LBG-425.4/25.4-**							

Ordering Codes
Clamp Body *LBG-*1*03.2/03.2-*PP

- * Light Series: Clamp Body / Twin Design with identical diameters **LBG**
- Clamp Body / Twin Design with different diameters **LBU**
- * STAUFF Group **1**
- * Exact outside diameters Ø D1 / Ø D2 (mm) **03.2/03.2**
- * Material code (see below) **PP**

Standard Materials

Polypropylene
 Colour: Black
 Material code: **PP**

Polyamide
 Colour: Yellow
 Material code: **PA**

See pages 178 / 179 for material properties and technical information.

Alternative materials are available upon request. Please contact STAUFF for further information.

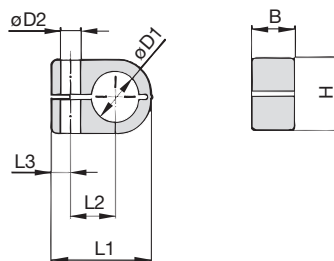
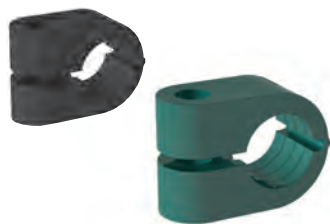
Applications

- Pneumatics, Instrumentation and Automotive Technology, Machine Tool Industry, Lubrication, Mechanical Engineering

Additional outside diameters and combinations of different outside diameters (Clamp Body, Type LBU) are available upon request. Please contact STAUFF for further information.



Clamp Body - Single Design Type LN



Ordering Codes

Clamp Body

***LN-*1*06-*PP**

- * Light Series: Clamp Body / Single Design **LN**
- * STAUFF Group **1**
- * Exact outside diameter Ø D1 (mm) **06**
- * Material code (see below) **PP**

Standard Materials



Polypropylene
Colour: Green
Material code: **PP**



Polyamide
Colour: Black
Material code: **PA**

See pages 178 / 179 for material properties and technical information.

Alternative materials are available upon request. Please contact STAUFF for further information.

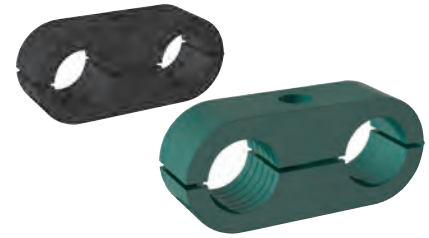
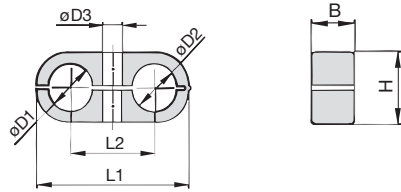
Applications

- Pneumatics, Instrumentation and Automotive Technology, Machine Tool Industry, Lubrication, Mechanical Engineering

Group	Outside Diameter Pipe / Tube / Hose Ø D1		Nominal Bore Pipe (in)	Ordering Codes (1 Clamp Body) (* = Material)	Dimensions (mm/in)					
	(mm)	(in)			L1	L2	L3	B	H	Ø D2
1	6			LN-106-**	22	9	7	14,5	13,5	6,8
	6,4	1/4		LN-106.4-***	.87	.35	.28	.57	.53	.27
	8			LN-108-**						
2	8			LN-208-**						
	9,5	3/8		LN-209.5-**	27	11	7	14,5	18,5	6,8
	10		1/8	LN-210-**	1.06	.43	.28	.57	.73	.27
	12			LN-212-**						
3	12,7	1/2		LN-212.7-**						
	10		1/8	LN-310-**						
	12			LN-312-**						
	12,7	1/2		LN-312.7-**						
	13,5		1/4	LN-313.5-**	33	15	7	14,5	23,5	6,8
	14			LN-314-**	1.30	.59	.28	.57	.93	.27
4	15			LN-315-**						
	16	5/8		LN-316-**						
	14			LN-414-**						
	15			LN-415-**						
	16	5/8		LN-416-**						
	17,2		3/8	LN-417.2-**	40	19	7	14,5	30,5	6,8
	18			LN-418-**	1.57	.75	.28	.57	1.20	.27
	19	3/4		LN-419-**						
	20			LN-420-**						
	21,3		1/2	LN-421.3-**						
22			LN-422-**							

Additional outside diameters are available upon request. Please contact STAUFF for further information.



**Clamp Body - Twin Design
Type LNGF / LNUF**


Group STAUFF	Outside Diameters Pipe / Tube / Hose Ø D1 / Ø D2		Nominal Bore Pipe (in)	Ordering Codes (1 Clamp Body) (** = Material)	Dimensions (mm/in)				
	(mm)	(in)			L1	L2	B	H	Ø D3
1	6			LNGF-106/06-**	32	18	14,5	13,5	6,8
	6,4	1/4		LNGF-106.4/06.4-**	1.26	.70	.57	.53	.27
	8			LNGF-108/08-**					
2	8			LNGF-208/08-**					
	9,5	3/8		LNGF-209.5/09.5-**					
	10		1/8	LNGF-210/10-**	41	22	14,5	18,5	6,8
	12			LNGF-212/12-**	1.61	.86	.57	.73	.27
	12,7	1/2		LNGF-212.7/12.7-**					
3	10		1/8	LNGF-310/10-**					
	12			LNGF-312/12-**					
	12,7	1/2		LNGF-312.7/12.7-**					
	13,5		1/4	LNGF-313.5/13.5-**	54	30	14,5	23,5	6,8
	14			LNGF-314/14-**	2.13	1.18	.57	.93	.27
	15			LNGF-315/15-**					
4	16	5/8		LNGF-316/16-**					
	14			LNGF-414/14-**					
	15			LNGF-415/15-**					
	16	5/8		LNGF-416/16-**					
	17,2		3/8	LNGF-417.2/17.2-**	70	38	14,5	30,5	6,8
	18			LNGF-418/18-**	2.76	1.50	.57	1.20	.27
	19	3/4		LNGF-419/19-**					
	20			LNGF-420/20-**					
21,3		1/2	LNGF-421.3/21.3-**						
22			LNGF-422/22-**						

Ordering Codes
Clamp Body *LNGF-*1*06/06-*PP

- * Light Series: Clamp Body / Twin Design with identical diameters **LNGF**
- Clamp Body / Twin Design with different diameters **LNUF**
- * STAUFF Group **1**
- * Exact outside diameters Ø D1 / Ø D2 (mm) **06/06**
- * Material code (see below) **PP**

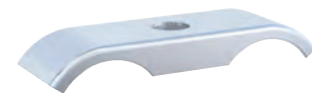
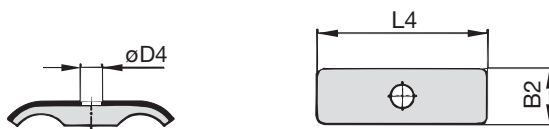
Standard Materials
Polypropylene
 Colour: Green
 Material code: **PP**
Polyamide
 Colour: Black
 Material code: **PA**

See pages 178 / 179 for material properties and technical information. Alternative materials are available upon request. Please contact STAUFF for further information.

Applications

- Pneumatics, Instrumentation and Automotive Technology, Machine Tool Industry, Lubrication, Mechanical Engineering

Additional outside diameters and combinations of different outside diameters (Clamp Body, type LNUF) are available upon request. Please contact STAUFF for further information.

**Cover Plate
Type DPL**


Group STAUFF	Dimensions (mm/in)			Ordering Codes (Standard Options)
	L4	B2	Ø D4	
1	29,5	15,5	6,8	DPL-1-W3
	1.16	.61	.27	
2	40	15,5	6,8	DPL-2-W3
	1.57	.61	.27	
3	51	16	6,8	DPL-3-W3
	2.01	.63	.27	
4	63,5	16	6,8	DPL-4-W3
	2.50	.63	.27	

Ordering Codes
Cover Plate *DPL-*1-*W3

- * Cover Plate for Clamp Body / Twin Design **DPL**
- * STAUFF Group **1**
- * Material code Carbon Steel, zinc/nickel-plated **W3**

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information. Please note: The maximum tightening torque for bolts is 2,5 N·m (1.85 ft·lb).





**Saddle / Piggyback Clamp**

ZR-518

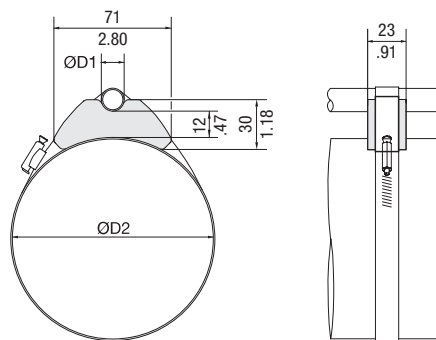
146

**Custom-Designed Saddle / Piggyback Clamps**

146



Saddle / Piggyback Clamps
Type ZR



Order Code

Saddle Clamp

ZR-518-SA73-BK

Standard Material



Thermoplastic Elastomer (73 Shore-A)
Colour: Black

See pages 178 / 179 for properties and technical information.

Min/Max Outside Diameters *				Tightening Strap Dimensions (Not Included in Scope of Delivery)			
Pipe / Tube Ø D1		Ø D2		Length		Width	
(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
10 ... 22	.3987	50 ... 70	1.96 ... 2.76	196 ... 254	7.71 ... 10.00	13	.51
		60 ... 80	2.36 ... 3.15	225 ... 284	8.86 ... 11.18		
		70 ... 90	2.76 ... 3.54	254 ... 314	10.00 ... 12.36		
		80 ... 105	3.15 ... 4.13	284 ... 359	11.18 ... 14.13		
		90 ... 120	3.54 ... 4.72	314 ... 404	12.36 ... 15.90		
		105 ... 140	4.13 ... 5.51	359 ... 464	14.13 ... 18.27		
		125 ... 160	4.92 ... 6.30	419 ... 525	16.50 ... 20.66		
		145 ... 180	5.71 ... 7.09	479 ... 586	18.86 ... 23.07		
165 ... 200	6.50 ... 7.87	540 ... 647	21.26 ... 25.47				

* Ø D1 depending on Ø D2!

J

Saddle / Piggyback Clamps

Type ZR saddle clamps from STAUFF allow direct fixing and safe guiding of pipes, tubes and hoses on hydraulic cylinders and other round or oval structures, without causing damage to their strength or integrity as with screw-fixing or welding and without preparation or reworking of the surface coating. The simple system also allows a pipe, tube or hose with a small outer diameter to be installed on top of a significantly larger one.

The position can be adjusted at any time thanks to free axial and radial positioning of the clamps on the structure. This also makes the system suitable for retrofitting.

The standard version ZR-518 made of thermoplastic elastomer covers diameters in a range from 50 to 200 mm / 1.96 to 7.87 in for the cylinder and from 10 to 22 mm / .39 to .87 inch for the attached tube or hose. The diameters to be covered are used to calculate the overall length of the required tightening straps or the dimensions of the steel strap or worm drive hose clamp, e.g. according to DIN 3017.

STAUFF meets deviating requirements with numerous other variants which were implemented in the past and can be manufactured again at any time.

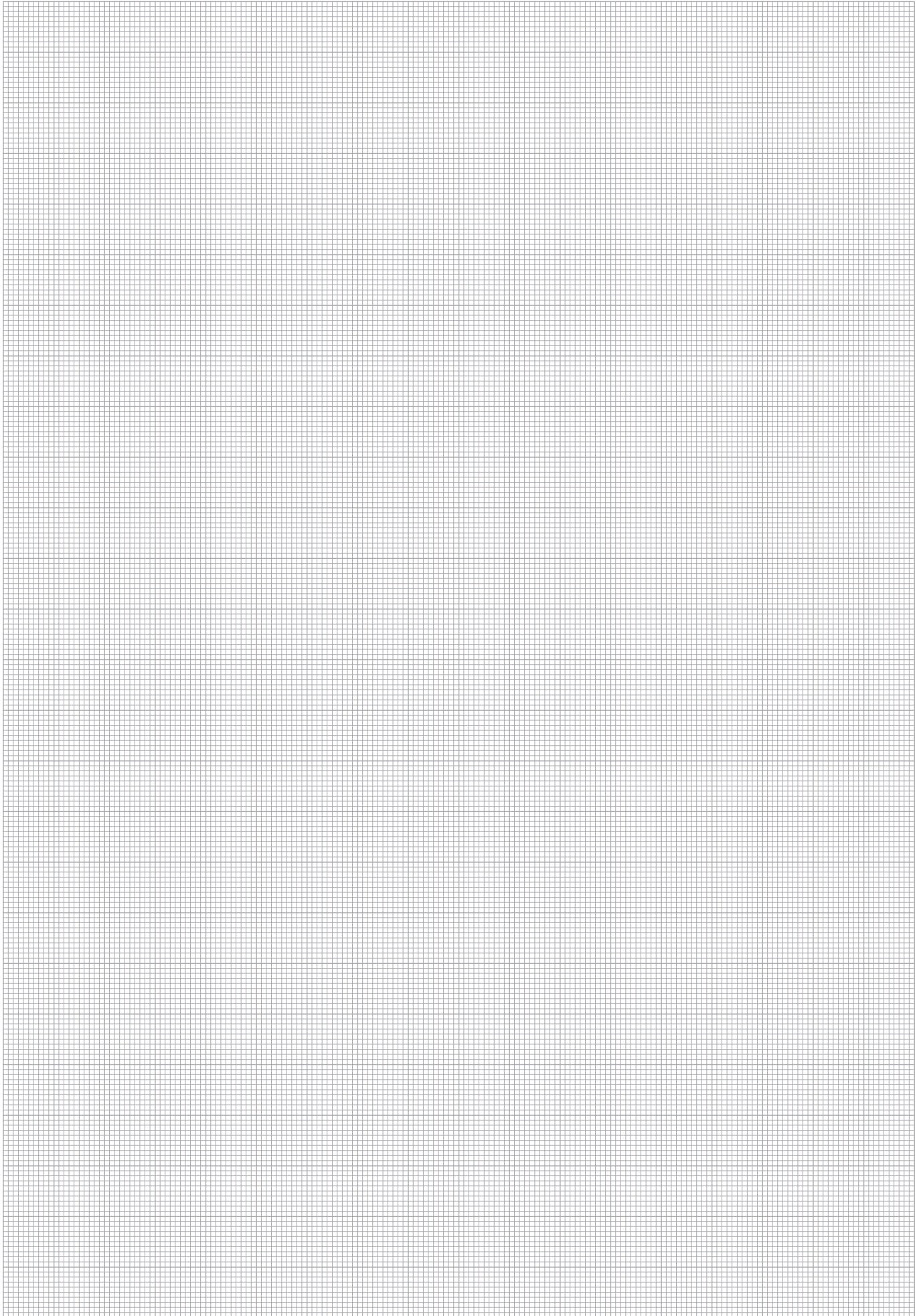
If required, customised clamps can be developed for specific requirements or manufactured based on drawings and models provided.

Please contact STAUFF for further information.



Dimensional drawings: All dimensions in mm (in).





J







**Flat Steel U-Bolt
with Plastic Pipe Saddle (Short) and U-Profile**
FB / RUK

150



**Round Steel U-Bolt
with Plastic Pipe Saddle (Short)**
RB / RUK

152



**Round Steel U-Bolt
with Plastic Pipe Saddle (Long)**
RB / RUL

154

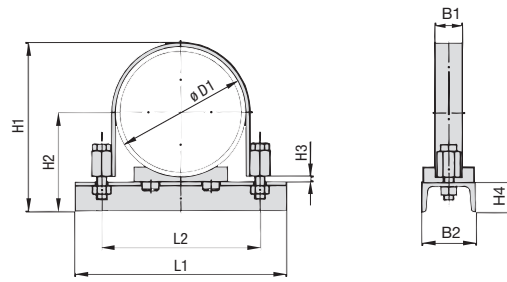
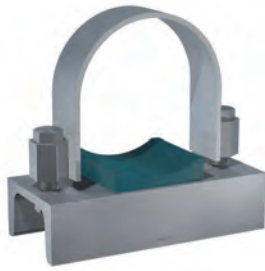


**Round Steel U-Bolt (DIN 3570, Type A)
without Plastic Pipe Saddle**
RBD

156



**Flat Steel U-Bolt with Plastic Pipe Saddle (Short) and U-Profile
Type FB+RUK (To be used as Fixed Point Clamps only)**



Flat Steel U-Bolt (type FB) with Plastic Pipe Saddle (type RUK), U-Profile and Hexagon Head Bolts

Ordering Codes

Clamp Assembly *FB+RUK-*48.3-*PP-*W56

One clamp assembly is consisting of one Flat Steel U-Bolt (type FB), one Plastic Pipe Saddle (type RUK), one U-Profile (to DIN 1026) with two Nuts (to DIN EN ISO 4032) and two Hexagon Head Bolts (to DIN EN ISO 4014 / 4017).

- * Clamp Assembly (as listed above) **FB+RUK**
- * Exact outside diameter Ø D1 (mm) **48.3**
- * Material of Pipe Saddle (see below) **PP**
- * Material code **W56**

Please note: The U-Profile (to DIN 1026) is made of Carbon Steel, uncoated.
Flat Steel U-Bolt and Bolts made of Stainless Steel V4A.
Please note: All items are supplied assembled.

Standard Materials for Plastic Pipe Saddles

- Polypropylene**
Colour: Green
Material code: **PP**
- Polyamide**
Colour: Black
Material code: **PA**

See pages 178 / 179 for material properties and technical information.

Alternative materials are available upon request. Please contact STAUFF for further information.

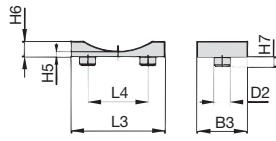
Applications

- Standing or hanging installation of pipes and tubes on beams, profiles and consoles
- Design with two threaded ends allows for ideal adaptation to suit the exact outer diameter of the pipe or tube

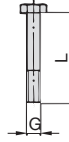
Diameter Nominal DN	Outside Diameter Pipe / Tube Ø D1 (mm) (in)		Nominal Bore Pipe (in)	Dimensions (mm/in)						U-Profile (DIN 1026) B2 x H4
	Flat Steel U-Bolt (Type FB)									
				L1	L2	H1	H2	H3	B1	
40	48,3	1.93	1-1/2	100	76	95	67	5	20 x 3	50 x 38
				3.94	2.99	3.74	2.64	.20	.78 x .12	1.97 x 1.50
50	57	2.28	2	115	85	103	71,5	5	20 x 3	50 x 38
				4.53	3.35	4.06	2.81	.20	.78 x .12	1.97 x 1.50
65	60,3	2.41	2	115	88	106	73,2	5	20 x 3	50 x 38
				4.53	3.46	4.17	2.88	.20	.78 x .12	1.97 x 1.50
80	76,1	3.04	2-1/2	132	104	122	81	5	20 x 3	50 x 38
				5.20	4.09	4.80	3.19	.20	.78 x .12	1.97 x 1.50
100	88,9	3.56	3	160	121	146	97,5	8	40 x 4	80 x 45
				6.30	4.76	5.75	3.84	.31	1.57 x .16	3.15 x 1.77
125	108	4.32	4	170	140	165	107	8	40 x 4	80 x 45
				6.69	5.51	6.50	4.21	.31	1.57 x .16	3.15 x 1.77
150	114,3	4.57	4	180	147	171	110	8	40 x 4	80 x 45
				7.09	5.79	6.73	4.33	.31	1.57 x .16	3.15 x 1.77
175	133	5.32	5	210	165	190	119,5	8	40 x 4	80 x 45
				8.27	6.50	7.48	4.70	.31	1.57 x .16	3.15 x 1.77
200	139,7	5.59	5	210	172	197	123	8	40 x 4	80 x 45
				8.27	6.77	7.76	4.84	.31	1.57 x .16	3.15 x 1.77
250	159	6.36	6	265	201	220	132,5	8	40 x 6	80 x 45
				1.43	7.91	8.66	5.22	.31	1.57 x .24	3.15 x 1.77
300	168,3	6.73	6	275	211	230	137	8	40 x 6	80 x 45
				1.83	8.31	9.06	5.39	.31	1.57 x .24	3.15 x 1.77
350	193,7	7.75	7	305	236	255	150	8	40 x 6	80 x 45
				12.01	9.29	1.04	5.91	.31	1.57 x .24	3.15 x 1.77
400	216	8.64	8	320	258	277	161	8	40 x 6	80 x 45
				12.60	10.16	1.91	6.34	.31	1.57 x .24	3.15 x 1.77
450	219,1	8.76	8	320	261	280	162,5	8	40 x 6	80 x 45
				12.60	1.28	11.02	6.40	.31	1.57 x .24	3.15 x 1.77
500	267	10.68	10	380	324	328	186,5	8	40 x 8	80 x 45
				14.96	12.76	12.91	7.34	.31	1.57 x .31	3.15 x 1.77
550	273	10.92	10	385	330	334	189,5	8	40 x 8	80 x 45
				15.16	12.99	13.15	7.46	.31	1.57 x .31	3.15 x 1.77
600	318	12.72	12	440	375	382	212	8	40 x 8	80 x 45
				17.32	14.76	15.04	8.35	.31	1.57 x .31	3.15 x 1.77
650	323,9	12.96	12	450	381	390	215	8	40 x 8	80 x 45
				17.72	15.00	15.35	8.46	.31	1.57 x .31	3.15 x 1.77
700	355,6	14.22	14	480	417,5	421	235	12	60 x 8	100 x 50
				18.90	16.44	16.57	9.25	.47	2.36 x .31	3.94 x 1.97
750	368	14.72	14	490	430	434	242	12	60 x 8	100 x 50
				19.29	16.93	17.09	9.53	.47	2.36 x .31	3.94 x 1.97
800	406,4	16.26	16	550	468,5	472	261	12	60 x 8	100 x 50
				21.65	18.44	18.58	10.28	.47	2.36 x .31	3.94 x 1.97
850	419	16.76	16	550	481	485	267,5	12	60 x 8	100 x 50
				21.65	18.94	19.09	10.53	.47	2.36 x .31	3.94 x 1.97
900	457	18.28	18	585	519	523	286,5	12	60 x 8	100 x 50
				23.03	20.43	20.59	11.28	.47	2.36 x .31	3.94 x 1.97
950	508	20.32	20	630	570	574	312	12	60 x 8	100 x 50
				24.80	22.44	22.60	12.28	.47	2.36 x .31	3.94 x 1.97
1000	521	20.84	20	640	583	587	319	12	60 x 8	100 x 50
				25.20	22.96	23.11	12.56	.47	2.36 x .31	3.94 x 1.97

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

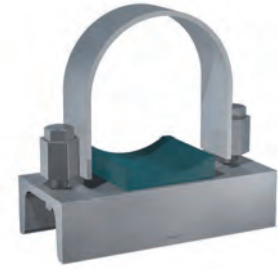


**Flat Steel U-Bolt with Plastic Pipe Saddle (Short) and U-Profile
(To be used as Fixed Point Clamps only) Type FB+RUK**

Plastic Pipe Saddle (type RUK)

(For size DN 40, dimension L4 is staggered by 90°)


Hexagon Head Bolt AS

(according to DIN EN ISO 4014 / 4017)



Diameter Nominal DN	Outside Diameter Pipe / Tube Ø D1 (mm) (in)		Nominal Bore Pipe (in)	Dimensions (mm/in)							Hexagon Head Bolt (DIN EN ISO 4014 / 4017) Thread G x L
	Plastic Pipe Saddle (type RUK)							H5	H6	H7	
			L3	L4	B3	D2					
40	48,3	1.93	1-1/2	24	25	35	8	5	8	5	M10 x 40
				.94	.98	1.38	.31	.20	.31	.20	
50	57	2.28	2	38	25	50	10	5	10	6	M10 x 40
				1.50	.98	1.97	.39	.20	.39	.24	
65	76,1	3.04	2-1/2	38	25	50	10	5	10	6	M10 x 40
				1.50	.98	1.97	.39	.20	.39	.24	
80	88,9	3.56	3	75	40	70	15	8	17	10	M 12 x 55
				2.95	1.57	2.76	.59	.31	.67	.39	
100	108	4.32	4	75	40	70	15	8	17	10	M 12 x 55
				2.95	1.57	2.76	.59	.31	.67	.39	
125	133	5.32	5	75	40	70	15	8	17	10	M 12 x 55
				2.95	1.57	2.76	.59	.31	.67	.39	
150	159	6.36	6	140	90	75	25	8	26	10	M 16 x 75
				5.51	3.54	2.95	.98	.31	1.02	.39	
175	168,3	6.73	6	140	90	75	25	8	26	10	M 16 x 75
				5.51	3.54	2.95	.98	.31	1.02	.39	
200	193,7	7.75	8	140	90	75	25	8	26	10	M 16 x 75
				5.51	3.54	2.95	.98	.31	1.02	.39	
250	216	8.64	10	140	90	75	25	8	26	10	M 16 x 75
				5.51	3.54	2.95	.98	.31	1.02	.39	
300	219,1	8.76	10	140	90	75	25	8	26	10	M 16 x 75
				5.51	3.54	2.95	.98	.31	1.02	.39	
350	267	10.68	12	140	90	75	25	8	26	10	M 20 x 80
				5.51	3.54	2.95	.98	.31	1.02	.39	
400	273	10.92	12	140	90	75	25	8	26	10	M 20 x 80
				5.51	3.54	2.95	.98	.31	1.02	.39	
450	318	12.72	14	220	150	75	30	8	32	10	M 20 x 80
				8.66	5.91	2.95	1.18	.31	1.26	.39	
500	323,9	12.96	14	220	150	75	30	8	32	10	M 20 x 80
				8.66	5.91	2.95	1.18	.31	1.26	.39	
550	355,6	14.22	16	220	150	75	30	8	32	10	M 24 x 100
				8.66	5.91	2.95	1.18	.31	1.26	.39	
600	368	14.72	16	220	150	75	30	8	32	10	M 24 x 100
				8.66	5.91	2.95	1.18	.31	1.26	.39	
650	406,4	16.26	18	220	150	75	30	8	32	10	M 24 x 100
				8.66	5.91	2.95	1.18	.31	1.26	.39	
700	419	16.76	18	220	150	75	30	8	32	10	M 24 x 100
				8.66	5.91	2.95	1.18	.31	1.26	.39	
750	457	18.28	20	220	150	75	30	8	32	10	M 24 x 100
				8.66	5.91	2.95	1.18	.31	1.26	.39	
800	508	20.32	20	220	150	75	30	8	32	10	M 24 x 100
				8.66	5.91	2.95	1.18	.31	1.26	.39	
850	521	20.84	20	220	150	75	30	8	32	10	M 24 x 100
				8.66	5.91	2.95	1.18	.31	1.26	.39	

Ordering Codes
Flat Steel U-Bolt
***FB-*A-48.3-*W1**

- * Flat Steel U-Bolt **FB**
- * Exact outside diameter Ø D1 (mm) **A-48.3**
- * Material code Carbon Steel, uncoated **W1**
- Carbon Steel, zinc-plated, blue-chromated **W32**
- Stainless Steel V4A **W5**
- 1.4401 / 1.4571 (AISI 316 / 316 Ti)

only Plastic Pipe Saddle
***RUK-*48.3-*PP**

- * Plastic Pipe Saddle (Short) **RUK**
- * Exact outside diameter Ø D1 (mm) **48.3**
- * Material of Pipe Saddle (see below) **PP**

Please note: All items are supplied assembled.

Standard Materials for Plastic Pipe Saddles

Polypropylene
 Colour: Green
 Material code: **PP**

Polyamide
 Colour: Black
 Material code: **PA**

See pages 178 / 179 for material properties and technical information.

Alternative materials are available upon request. Please contact STAUFF for further information.

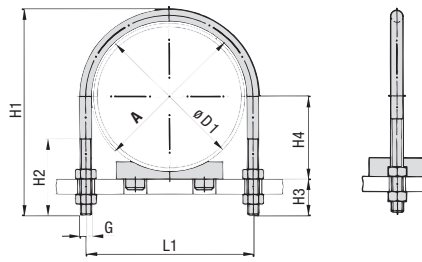
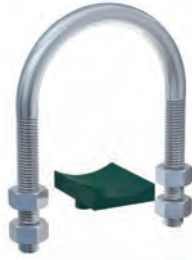
Applications

- Standing or hanging installation of pipes and tubes on beams, profiles and consoles
- Design with two threaded ends allows for ideal adaptation to suit the exact outer diameter of the pipe or tube

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



Round Steel U-Bolt with Plastic Pipe Saddle (Short) Type RB+RUK



Round Steel U-Bolt (type RB) with Plastic Pipe Saddle (type RUK)

Ordering Codes

Clamp Assembly *RB+RUK-*48.3-*PP-*W1

One clamp assembly is consisting of one Round Steel U-Bolt (type RB), one Plastic Pipe Saddle (type RUK) and four Nuts (to DIN EN ISO 4032).

- * Clamp Assembly (as listed above) **RB+RUK**
- * Exact outside diameter Ø D1 (mm) **48.3**
- * Material of Pipe Saddle (see below) **PP**
- * Material code Carbon Steel, uncoated **W1**
Carbon Steel, zinc-plated, blue-chromated **W32**
Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti) **W5**

Please note: All items are supplied non-assembled.

Standard Materials for Plastic Pipe Saddles

- Polypropylene**
Colour: Green
Material code: **PP**
- Polyamide**
Colour: Black
Material code: **PA**

See pages 178 / 179 for material properties and technical information.

Alternative materials are available upon request. Please contact STAUFF for further information.

Applications

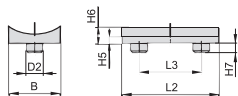
- Standing or hanging installation of pipes and tubes on beams, profiles and consoles
- Design with two threaded ends allows for ideal adaptation to suit the exact outer diameter of the pipe or tube

Diameter Nominal DN	Outside Diameter Pipe / Tube Ø D1 (mm) (in)		Nominal Bore Pipe (in)	Dimensions (mm/in)						
	Round Steel U-Bolt (Type RB)			A	L1	H1	H2	H3	H4	Thread G
20	25	.98	3/4	30	40	73,5	41	30	17,5	M10
	26,9	1.06		1.18	1.57	2.89	1.61	1.18	.69	
25	30	1.18	1	38	48	81	48	30	20	M10
	33,7	1.33		1.50	1.89	3.19	1.89	1.18	.79	
32	38	1.50	1-1/4	46	56	89	48	30	24	M10
	42,4	1.69		1.81	2.20	3.50	1.89	1.18	.94	
40	44,5	1.76	1-1/2	52	62	100	55	35	27,2	M10
	48,3	1.90		2.05	2.44	3.94	2.17	1.38	1.07	
50	57	2.28	2	64	76	118	63	39	33,5	M12
	60,3	2.41		2.52	2.99	4.65	2.48	1.54	1.32	
65	76,1	3.04	2-1/2	82	94	135	77	39	43	M12
	80	3.56		3	3.23	3.70	5.31	3.03	1.54	
100	108	4.32	4	120	106	152	82	41	52,5	M16
	114,3	4.57		4.72	4.17	5.98	3.23	1.61	2.07	
125	133	5.32	5	148	136	190	105	49	62	M16
	139,7	5.59		5.83	6.46	8.54	4.13	1.93	2.93	
150	159	6.36	6	176	164	217	105	49	74,5	M16
	168,3	6.73		6.93	6.46	8.54	4.13	1.93	3.07	
175	193,7	7.75	7	202	192	247	105	51	87,5	M16
	200	8.64		7.96	7.56	9.72	4.13	2.01	3.44	
200	216	8.64	8	228	192	247	105	51	92	M16
	219,1	8.76		8.98	7.56	9.72	4.13	2.01	3.62	
250	267	10.68	10	282	218	273	105	51	105	M16
	273	10.92		11.10	8.58	10.75	4.13	2.01	4.13	
300	318	12.72	12	332	248	311	125	59	116	M20
	323,9	12.96		13.07	9.76	12.24	4.92	2.32	4.57	
350	355,6	14.22	14	378	248	311	125	59	117,5	M20
	368	14.72		14.88	9.76	12.24	4.92	2.32	4.63	
400	406,4	16.26	16	428	303	364	125	59	141,5	M20
	419	16.76		16.85	11.93	14.33	4.92	2.32	5.57	
500	508	20.32	20	530	302	364	125	59	144,5	M20
	521	20.84		20.87	11.89	14.33	4.92	2.32	5.69	
500	508	20.32	20	530	352	418	125	62	167	M20
	521	20.84		20.87	13.86	16.46	4.92	2.44	6.57	
500	508	20.32	20	530	402	475	145	70	186	M24
	521	20.84		20.87	15.83	18.70	5.71	2.76	7.32	
500	508	20.32	20	530	402	475	145	70	192	M24
	521	20.84		20.87	15.83	18.70	5.71	2.76	7.56	
500	508	20.32	20	530	452	526	145	70	211	M24
	521	20.84		20.87	17.80	20.71	5.71	2.76	8.31	
500	508	20.32	20	530	452	526	145	70	217,5	M24
	521	20.84		20.87	17.80	20.71	5.71	2.76	8.56	
500	508	20.32	20	530	554	627	145	70	262	M24
	521	20.84		20.87	21.81	24.69	5.71	2.76	10.31	
500	508	20.32	20	530	554	627	145	70	269	M24
	521	20.84		20.87	21.81	24.69	5.71	2.76	10.59	

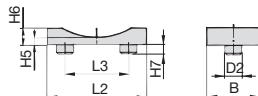
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



Round Steel U-Bolt with Plastic Pipe Saddle (Short) Type RB+RUK



Plastic Pipe Saddle (type RUK)
(For sizes DN 20 to DN 40)



Plastic Pipe Saddle (type RUK)
(From size DN 50 on)



Diameter Nominal DN	Outside Diameter Pipe / Tube Ø D1		Nominal Bore Pipe (in)	Dimensions (mm/in)							
	(mm)	(in)		Plastic Pipe Saddle (Type RUK)							
				A	L2	L3	B	H5	H6	H7	D2
20	25	.98		30	35	25	24	5	8	5	8
	26,9	1.06	3/4	1.18	1.38	.98	.94	.20	.31	.20	.31
25	30	1.18		38	35	25	24	5	8	5	8
	33,7	1.33	1	1.50	1.38	.98	.94	.20	.31	.20	.31
32	38	1.50		46	35	25	24	5	8	5	8
	42,4	1.69	1-1/4	1.81	1.38	.98	.94	.20	.31	.20	.31
40	44,5	1.76		52	35	25	24	5	8	5	8
	48,3	1.90	1-1/2	2.05	1.38	.98	.94	.20	.31	.20	.31
50	57	2.28		64	38	25	50	5	10	6	10
	60,3	2.41	2	2.52	1.50	.98	1.97	.20	.39	.24	.39
65	76,1	3.04	2-1/2	82	38	25	50	5	10	6	10
				3.23	1.50	.98	1.97	.20	.39	.24	.39
80	88,9	3.56	3	94	75	40	70	8	17	10	15
				3.70	2.95	1.57	2.76	.31	.67	.39	.59
100	108	4.32		120	75	40	70	8	17	10	15
	114,3	4.57	4	4.72	2.95	1.57	2.76	.31	.67	.39	.59
125	133	5.32		148	75	40	70	8	17	10	15
	139,7	5.59	5	5.83	2.95	1.57	2.76	.31	.67	.39	.59
150	159	6.36		176	140	90	75	8	26	10	25
	168,3	6.73	6	6.93	5.51	3.54	2.95	.31	1.02	.39	.98
175	193,7	7.75		202	140	90	75	8	26	10	25
				7.96	5.51	3.54	2.95	.31	1.02	.39	.98
200	216	8.64		228	140	90	75	8	26	10	25
	219,1	8.76	8	8.98	5.51	3.54	2.95	.31	1.02	.39	.98
250	267	10.68		282	140	90	75	8	26	10	25
	273	10.92	10	11.10	5.51	3.54	2.95	.31	1.02	.39	.98
300	318	12.72		332	220	150	75	8	32	10	30
	323,9	12.96	12	13.07	8.66	5.91	2.95	.31	1.26	.39	1.18
350	355,6	14.22	14	378	220	150	75	8	32	10	30
	368	14.72		14.88	8.66	5.91	2.95	.31	1.26	.39	1.18
400	406,4	16.26	16	428	220	150	75	8	32	10	30
	419	16.76		16.85	8.66	5.91	2.95	.31	1.26	.39	1.18
500	508	2.32	20	530	220	150	75	8	32	10	30
	521	2.84		2.87	8.66	5.91	2.95	.31	1.26	.39	1.18

Ordering Codes

Round Steel U-Bolt *RB-*A-52-*W1-*COMPL

One Round Steel U-Bolt (type RB) includes four Nuts (to DIN EN ISO 4032).

- * Round Steel U-Bolt **RB**
- * Dimension A (mm) **A-52**
- * Material code Carbon Steel, uncoated **W1**
Carbon Steel, zinc-plated, blue-chromated **W32**
Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti) **W5**

only Plastic Pipe Saddle *RUK-*48.3-*PP

- * Plastic Pipe Saddle (Short) **RUK**
- * Exact outside diameter Ø D1 (mm) **48.3**
- * Material of Pipe Saddle (see below) **PP**

Standard Materials for Plastic Pipe Saddles

Polypropylene
Colour: Green
Material code: **PP**

Polyamide
Colour: Black
Material code: **PA**

See pages 178 / 179 for material properties and technical information.

Alternative materials are available upon request. Please contact STAUFF for further information.

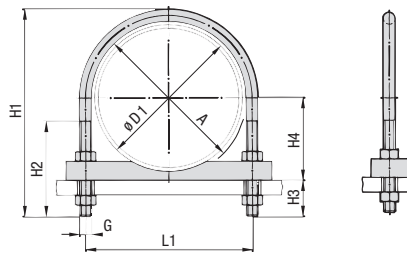
Applications

- Standing or hanging installation of pipes and tubes on beams, profiles and consoles
- Design with two threaded ends allows for ideal adaptation to suit the exact outer diameter of the pipe or tube

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



Round Steel U-Bolt with Plastic Pipe Saddle (Long) Type RB+RUL



Round Steel U-Bolt (type RB) with Plastic Pipe Saddle (type RUL)



Ordering Codes

Clamp Assembly *RB+RUL-*48.3-*PP-*W1

One clamp assembly is consisting of one Round Steel U-Bolt (type RB), one Plastic Pipe Saddle (type RUL) and four Nuts (to DIN EN ISO 4032).

- * Clamp Assembly (as listed above) **RB+RUL**
- * Exact outside diameter Ø D1 (mm) **48.3**
- * Material of Pipe Saddle (see below) **PP**
- * Material code Carbon Steel, uncoated **W1**
Carbon Steel, zinc-plated, blue-chromated **W32**
Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti) **W5**

Please note: All items are supplied non-assembled.

Standard Materials for Plastic Pipe Saddles

Polypropylene
Colour: Green
Material code: **PP**

Polyamide
Colour: Black
Material code: **PA**

See pages 178 / 179 for material properties and technical information.

Alternative materials are available upon request. Please contact STAUFF for further information.

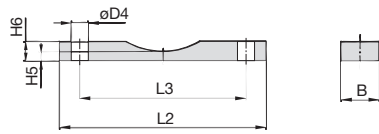
Applications

- Standing or hanging installation of pipes and tubes on beams, profiles and consoles
- Design with two threaded ends allows for ideal adaptation to suit the exact outer diameter of the pipe or tube

Diameter Nominal DN	Outside Diameter Pipe / Tube Ø D1 (mm) (in)		Nominal Bore Pipe (in)	Dimensions (mm/in)						
	Round Steel U-Bolt (Type RB)			A	L1	H1	H2	H3	H4	Thread G
20	25	.98		30	40	73,5	41	30	17,5	M10
	26,9	1.06	3/4	1.18	1.57	2.89	1.61	1.18	.69	
25	30	1.18		38	48	81	48	30	20	M10
	33,7	1.33	1	1.50	1.89	3.19	1.89	1.18	.79	
32	38	1.50		46	56	89	48	30	24	M10
	42,4	1.69	1-1/4	1.81	2.20	3.50	1.89	1.18	.94	
40	44,5	1.76		52	62	100	55	35	27,2	M10
	48,3	1.90	1-1/2	2.05	2.44	3.94	2.17	1.38	1.07	
50	57	2.28		64	76	118	63	39	33,5	M12
	60,3	2.41	2	2.52	2.99	4.65	2.48	1.54	1.32	
65	76,1	3.04	2-1/2	82	94	135	77	39	43	M12
				3.23	3.70	5.31	3.03	1.54	1.69	
80	88,9	3.56	3	94	106	152	82	39	54,5	M12
				3.70	4.17	5.98	3.23	1.54	2.15	
100	108	4.32		120	136	190	105	47	64	M16
	114,3	4.57	4	4.72	5.35	7.48	4.13	1.85	2.52	
125	133	5.32		148	164	217	105	47	76,5	M16
	139,7	5.59	5	5.83	6.46	8.54	4.13	1.85	3.01	
150	159	6.36		176	192	247	105	47	80	M16
	168,3	6.73	6	6.93	7.56	9.72	4.13	1.85	3.15	
175	193,7	7.75		202	218	273	105	47	91,5	M16
				7.96	8.58	10.75	4.13	1.85	3.60	
200	216	8.64		228	248	311	125	55	96	M16
	219,1	8.76	8	8.98	7.56	9.72	4.13	1.85	3.78	
250	267	10.68		282	303	364	125	55	109	M16
	273	10.92	10	11.10	302	364	125	55	120	
300	318	12.72		332	352	418	125	55	121,5	M20
	323,9	12.96	12	13.07	11.89	14.33	4.92	2.17	4.78	
350	355,6	14.22	14	378	402	475	145	63	145,5	M20
	368	14.72		14.88	13.86	16.46	4.92	2.17	5.85	
400	406,4	16.26	16	428	402	475	145	63	174	M20
	419	16.76		16.85	15.83	18.70	5.71	2.48	177	
500	508	20.32	20	530	452	526	145	63	199	M24
	521	20.84		20.87	17.80	20.71	5.71	2.48	224,5	
					21.81	24.69	5.71	2.48	8.84	M24
					21.81	24.69	5.71	2.48	269	M24
									276	M24
									10.87	M24

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



**Round Steel U-Bolt with Plastic Pipe Saddle (Long)
Type RB+RUL**

Plastic Pipe Saddle (type RUL)

Diameter Nominal DN	Outside Diameter Pipe / Tube Ø D1		Nominal Bore Pipe (in)	Dimensions (mm/in) Plastic Pipe Saddle (Type RUL)						
	(mm)	(in)		A	L2	L3	B	H5	H6	Ø D4
20	25	.98	3/4	30	75	40	30	5	12	11
	26,9	1.06		1.18	2.95	1.57	1.18	.20	.47	.43
25	30	1.18	1	38	80	48	30	5	12	11
	33,7	1.33		1.50	3.15	1.89	1.18	.20	.47	.43
32	38	1.50	1-1/4	46	90	56	30	5	12	11
	42,4	1.69		1.81	3.54	2.20	1.18	.20	.47	.43
40	44,5	1.76	1-1/2	52	95	62	35	5	15	11
	48,3	1.90		2.05	3.74	2.44	1.38	.20	.59	.43
50	57	2.28	2	64	110	76	35	5	15	14
	60,3	2.41		2.52	4.33	2.99	1.38	.20	.59	.55
65	76,1	3.04	2-1/2	82	135	94	35	5	15	14
				3.23	5.31	3.70	1.38	.20	.59	.55
80	88,9	3.56	3	94	145	106	40	10	20	14
				3.70	5.71	4.17	1.57	.39	.79	.55
100	108	4.32	4	120	190	136	40	10	20	18
	114,3	4.57		4.72	7.48	5.35	1.57	.39	.79	.71
125	133	5.32	5	148	190	136	40	10	20	18
	139,7	5.59		5.83	7.48	5.35	1.57	.39	.79	.71
150	159	6.36	6	176	220	164	40	10	20	18
	168,3	6.73		6.93	8.66	6.46	1.57	.39	.79	.71
175	193,7	7.75	8	202	250	192	50	12	25	18
				7.96	9.84	7.56	1.97	.47	.98	.71
200	216	8.64	10	228	270	218	50	12	25	18
	219,1	8.76		8.98	10.63	8.58	1.97	.47	.98	.71
250	267	10.68	12	282	315	248	50	12	25	22
	273	10.92		11.10	12.40	9.76	1.97	.47	.98	.87
300	318	12.72	14	332	12.40	9.76	1.97	.47	.98	.87
	323,9	12.96		13.07	370	302	50	12	25	22
350	355,6	14.22	16	378	14.57	11.89	1.97	.47	.98	.87
	368	14.72		14.88	420	352	60	15	30	22
400	406,4	16.26	18	428	16.54	13.86	2.36	.59	1.18	.87
	419	16.76		16.85	16.54	13.86	2.36	.59	1.18	.87
500	508	20.32	20	530	480	402	60	15	30	26
	521	20.84		20.87	18.90	15.83	2.36	.59	1.18	1.02
					540	452	60	15	30	26
					21.26	17.80	2.36	.59	1.18	1.02
					21.26	17.80	2.36	.59	1.18	1.02
					640	554	60	15	30	26
					25.20	21.81	2.36	.59	1.18	1.02
					640	554	60	15	30	26
					25.20	21.81	2.36	.59	1.18	1.02

Ordering Codes
Round Steel U-Bolt *RB-*A-52-*W1-*COMPL

One Round Steel U-Bolt (type RB) includes four Nuts (to DIN EN ISO 4032).

- * Round Steel U-Bolt **RB**
- * Dimension A (mm) **A-52**
- * Material code Carbon Steel, uncoated **W1**
Carbon Steel, zinc-plated, blue-chromated **W32**
Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti) **W5**

only Plastic Pipe Saddle *RUL-*48.3-*PP

- * Plastic Pipe Saddle (Long) **RUL**
- * Exact outside diameter Ø D1 (mm) **48.3**
- * Material of Pipe Saddle (see below) **PP**

Standard Materials for Plastic Pipe Saddles

Polypropylene
 Colour: Green
 Material code: **PP**

Polyamide
 Colour: Black
 Material code: **PA**

See pages 178 / 179 for material properties and technical information.

Alternative materials are available upon request. Please contact STAUFF for further information.

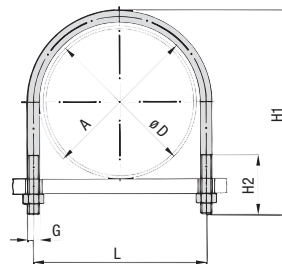
Applications

- Standing or hanging installation of pipes and tubes on beams, profiles and consoles
- Design with two threaded ends allows for ideal adaptation to suit the exact outer diameter of the pipe or tube

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



**Round Steel U-Bolt (without Plastic Pipe Saddle)
Type RBD (DIN 3570, Type A)**



Round Steel U-Bolt (type RBD)

Ordering Codes

Clamp Assembly *RBD-*A-30-*W1-*COMPL

One clamp assembly is consisting of one Round Steel U-Bolt (type RBD according to DIN 3570, Type A) and two Nuts (to DIN EN ISO 4032).

- * Clamp Assembly (as listed above) **RBD**
- * Dimension A (mm) **A-30**
- * Material code Carbon Steel, uncoated **W1**
Carbon Steel, zinc-plated, blue-chromated **W32**
Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti) **W5**

Please note: All items are supplied non-assembled.

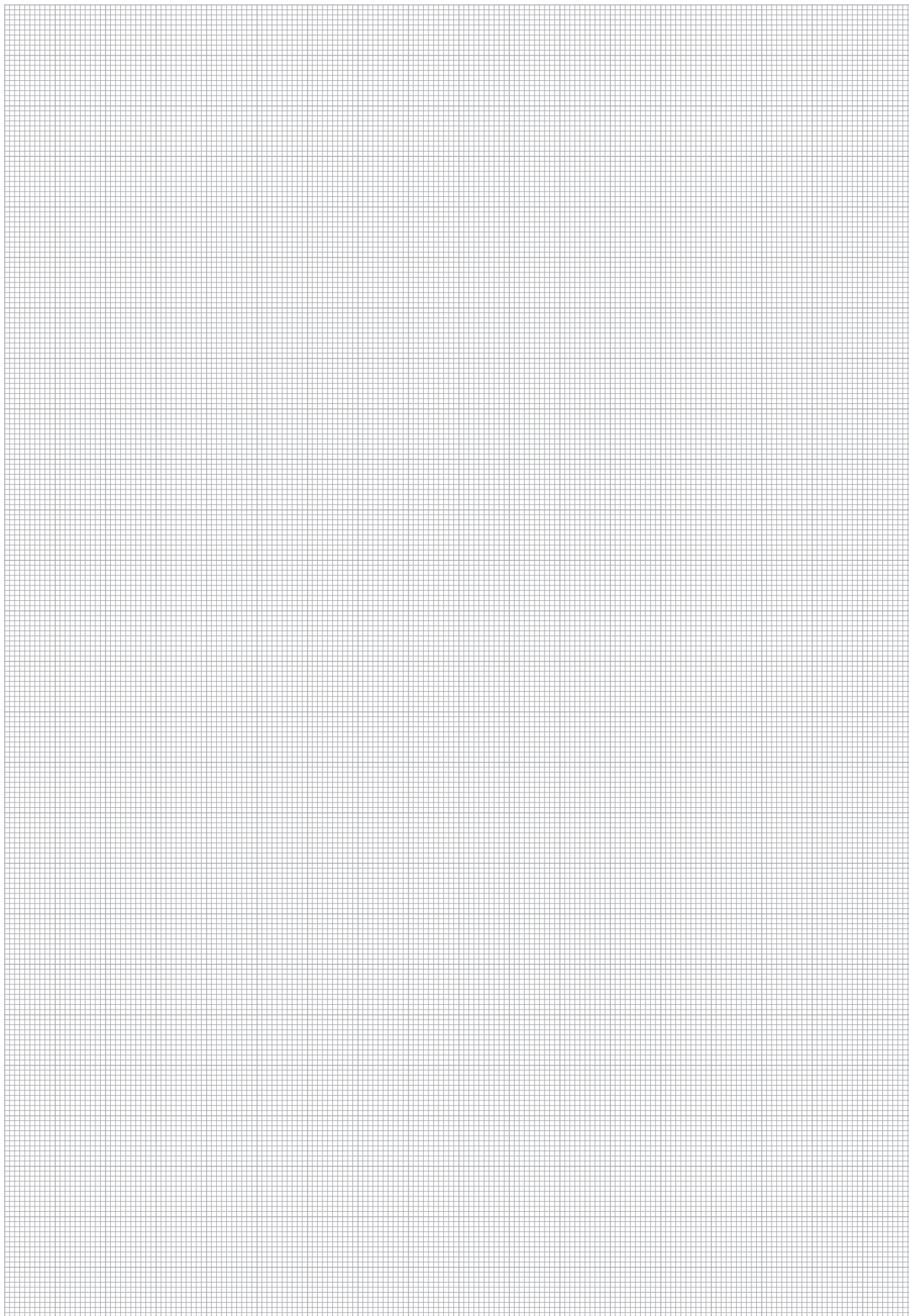
Applications

- Standing or hanging installation of pipes and tubes on beams, profiles and consoles
- Design with two threaded ends allows for ideal adaptation to suit the exact outer diameter of the pipe or tube

Diameter Nominal DN	Outside Diameter Pipe / Tube Ø D1 (mm) (in)		Nominal Bore Pipe (in)	Dimensions (mm/in)				
				Round Steel U-Bolt (Type RBD)				
				A	L	H1	H2	Thread G
20	25	.98		30	40	70	40	M10
	26,9	1.06	3/4	1.18	1.57	2.76	1.57	M10
25	30	1.18		38	48	76	40	M10
	33,7	1.33	1	1.50	1.89	2.99	1.57	M10
32	38	1.50		46	56	86	50	M10
	42,4	1.69	1-1/4	1.81	2.20	3.39	1.97	M10
40	44,5	1.76		52	62	92	50	M10
	48,3	1.90	1-1/2	2.05	2.44	3.62	1.97	M10
50	57	2.28		64	76	109	50	M12
	60,3	2.41	2	2.52	2.99	4.29	1.97	M12
65	76,1	3.04	2-1/2	82	94	125	50	M12
80	88,9	3.56	3	94	106	138	50	M12
100	108	4.32		120	136	171	60	M16
	114,3	4.57	4	4.72	5.35	6.73	2.36	M16
125	133	5.32		148	164	191	60	M16
	139,7	5.59	5	5.83	6.46	7.52	2.36	M16
150	159	6.36		176	192	217	60	M16
	168,3	6.73	6	6.93	7.56	8.54	2.36	M16
175	193,7	7.75		202	218	249	60	M16
200	216	8.64		228	248	283	70	M20
	219,1	8.76	8	8.98	9.76	11.14	2.76	M20
250	267	10.68		282	303	334	70	M20
	273	10.92	10	11.10	11.93	13.15	2.76	M20
300	318	12.72		332	352	385	70	M20
	323,9	12.96	12	13.07	13.86	15.16	2.76	M20
350	355,6	14.22	14	378	402	435	70	M24
	368	14.72		14.88	15.83	17.13	2.76	M24
400	406,4	16.26	16	428	452	487	70	M24
	419	16.76		16.85	17.80	19.17	2.76	M24
500	508	20.32	20	530	554	589	70	M24
	521	20.84		20.87	21.81	23.19	2.76	M24

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.





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**Metal Pipe Clamp with Tension Clearance
Two-Bolt Design**
DIN 3567-A

160



**Metal Pipe Clamp with Tension Clearance
Three-Bolt Design (Extended to One Side)**
DIN 3567-B

161



**Heavy Saddle with Tension Clearance
Single-Bolt Design**
DIN 1592

162



**Heavy Saddle with Tension Clearance
Two-Bolt Design**
DIN 1593

163



**Light Saddle with Tension Clearance
Single-Bolt Design**
DIN 1596

164

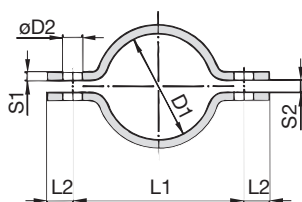


**Light Saddle with Tension Clearance
Two-Bolt Design**
DIN 1597

165



Metal Pipe Clamp with Tension Clearance (DIN 3567-A) Two-Bolt Design



Ordering Codes

Metal Pipe Clamp *DIN3567-A*-20*-W1

One metal pipe clamp is consisting of two clamp halves.
Hexagon head bolts and nuts are not included.

* Metal Pipe Clamp to DIN 3567, type A **DIN3567-A**

* STAUFF Group (Ø D1) **20**

* Material code Carbon Steel, uncoated **W1**

Carbon Steel, hot-dip galvanised **W40**

Stainless Steel V4A **W5**

1.4401 / 1.4571 (AISI 316 / 316 Ti)

Clamp Assembly *DIN3567-A*-20*-W1*-COMPL

One clamp assembly is consisting of two clamp halves,
two hexagon head bolts and two hexagon head nuts.

* Metal Pipe Clamp to DIN 3567, type A **DIN3567-A**

* STAUFF Group (Ø D1) **20**

* Material code Carbon Steel, uncoated **W1**

Carbon Steel, hot-dip galvanised **W40**

Stainless Steel V4A **W5**

1.4401 / 1.4571 (AISI 316 / 316 Ti)

* Clamp assembly with bolts and nuts **COMPL**

Please note: All items are supplied non-assembled.

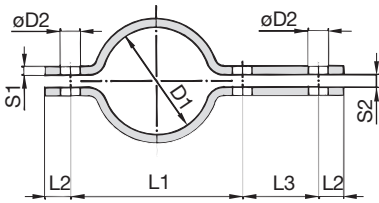
Applications

- Installation of pipes, tubes and other construction elements on beams, profiles and consoles

STAUFF Group	Nominal Size	Dimensions (mm/in)							Accessories
		Pipe (in)	L1	L2	S1	S2	D2	B1	
Ø D1	(mm)								Hexagon Head Bolts (Hexagon Head Nuts)
20	15		57	15	5	7	11.5	30	M10 x 30 (M10) 3/8-16 UNC x 1-1/4 (3/8-16 UNC)
			2.24	.59	.20	.28	.45	1.18	
22			59	15	5	7	11.5	30	
			2.32	.59	.20	.28	.45	1.18	
25	20		62	15	5	7	11.5	30	
			2.44	.59	.20	.28	.45	1.18	
27		3/4	66	15	5	7	11.5	30	
			2.60	.59	.20	.28	.45	1.18	
30	25		68	15	5	7	11.5	30	
			2.68	.59	.20	.28	.45	1.18	
34		1	72	15	5	7	11.5	30	
			2.83	.59	.20	.28	.45	1.18	
38	32		76	15	5	7	11.5	30	
			2.99	.59	.20	.28	.45	1.18	
43		1-1/4	82	15	5	7	11.5	30	
			3.23	.59	.20	.28	.45	1.18	
45	40		84	15	5	7	11.5	30	
			3.31	.59	.20	.28	.45	1.18	
49		1-1/2	88	15	5	7	11.5	30	
			3.46	.59	.20	.28	.45	1.18	
57	50		104	18	6	9	14	40	
			4.09	.71	.24	.35	.55	1.57	
61		2	108	18	6	9	14	40	
			4.25	.71	.24	.35	.55	1.57	
77	65	2-1/2	122	18	6	9	14	40	
			4.80	.71	.24	.35	.55	1.57	
89	80	3	136	18	6	9	14	40	
			5.35	.71	.24	.35	.55	1.57	
108	100		172	24	8	11	18	50	
			6.77	.94	.31	.43	.71	1.97	
115		4	178	24	8	11	18	50	
			7.01	.94	.31	.43	.71	1.97	
133	125		196	24	8	11	18	50	
			7.72	.94	.31	.43	.71	1.97	
140			204	24	8	11	18	50	
			8.03	.94	.31	.43	.71	1.97	
159	150		222	24	8	11	18	50	
			8.74	.94	.31	.43	.71	1.97	
169			232	24	8	11	18	50	
			9.13	.94	.31	.43	.71	1.97	
194	175		258	24	8	11	18	50	
			10.16	.94	.31	.43	.71	1.97	
216	200		280	24	8	11	18	50	
			11.02	.94	.31	.43	.71	1.97	
220			284	24	8	11	18	50	
			11.18	.94	.31	.43	.71	1.97	
267	250		342	30	8	14	23	60	
			13.46	1.18	.31	.55	.91	2.36	
273			348	30	8	14	23	60	
			13.70	1.18	.31	.55	.91	2.36	
318	300		392	30	8	14	23	60	
			15.43	1.18	.31	.55	.91	2.36	
324			398	30	8	14	23	60	
			15.67	1.18	.31	.55	.91	2.36	
368	350		444	30	8	14	23	60	
			17.48	1.18	.31	.55	.91	2.36	
407	400		498	36	10	18	27	70	
			19.61	1.42	.39	.71	1.06	2.76	
419			510	36	10	18	27	70	
			10.08	1.42	.39	.71	1.06	2.76	
521	500		614	36	10	18	27	70	
			24.17	1.42	.39	.71	1.06	2.76	

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



Metal Pipe Clamp with Tension Clearance (DIN 3567-B)
 Three-Bolt Design (Extended to One Side)


STAUFF Group	Nominal Size		Dimensions (mm/in)							Accessories	
	Ø D1	Pipe (in)	L1	L2	L3	S1	S2	D2	B1	Hexagon Head Bolts (Hexagon Head Nuts)	
20	15		57	15	46	5	7	11.5	30	M10 x 30 (M10)	3/8-16 UNC x 1-1/4 (3/8-16 UNC)
22			2.24	.59	1.81	.20	.28	.45	1.18		
25	20	3/4	59	15	46	5	7	11.5	30		
			2.32	.59	1.81	.20	.28	.45	1.18		
27	20	3/4	62	15	46	5	7	11.5	30		
			2.44	.59	1.81	.20	.28	.45	1.18		
30	25	1	66	15	46	5	7	11.5	30		
			2.60	.59	1.81	.20	.28	.45	1.18		
34	25	1	68	15	46	5	7	11.5	30		
			2.68	.59	1.81	.20	.28	.45	1.18		
38	32	1-1/4	72	15	46	5	7	11.5	30		
			2.83	.59	1.81	.20	.28	.45	1.18		
43	32	1-1/4	76	15	46	5	7	11.5	30		
			2.99	.59	1.81	.20	.28	.45	1.18		
45	40	1-1/2	82	15	46	5	7	11.5	30		
			3.23	.59	1.81	.20	.28	.45	1.18		
49	40	1-1/2	84	15	46	5	7	11.5	30		
			3.31	.59	1.81	.20	.28	.45	1.18		
57	50	2	88	15	46	5	7	11.5	30		
			3.46	.59	1.81	.20	.28	.45	1.18		
61	50	2	104	18	54	6	9	14	40		
			4.09	.71	2.13	.24	.35	.55	1.57		
77	65	2-1/2	108	18	54	6	9	14	40		
			4.25	.71	2.13	.24	.35	.55	1.57		
89	80	3	122	18	54	6	9	14	40		
			4.80	.71	2.13	.24	.35	.55	1.57		
108	100	4	136	18	54	6	9	14	40		
			5.35	.71	2.13	.24	.35	.55	1.57		
115	100	4	172	24	70	8	11	18	50		
			6.77	.94	2.76	.31	.43	.71	1.97		
133	125		178	24	70	8	11	18	50		
			7.01	.94	2.76	.31	.43	.71	1.97		
140	125		196	24	70	8	11	18	50		
			7.72	.94	2.76	.31	.43	.71	1.97		
159	150		204	24	70	8	11	18	50		
			8.03	.94	2.76	.31	.43	.71	1.97		
169	150		222	24	70	8	11	18	50		
			8.74	.94	2.76	.31	.43	.71	1.97		
194	175		232	24	70	8	11	18	50		
			9.13	.94	2.76	.31	.43	.71	1.97		
216	200		258	24	70	8	11	18	50		
			10.16	.94	2.76	.31	.43	.71	1.97		
220	200		280	24	70	8	11	18	50		
			11.02	.94	2.76	.31	.43	.71	1.97		
267	250		284	24	70	8	11	18	50		
			11.18	.94	2.76	.31	.43	.71	1.97		
273	250		342	30	86	8	14	23	60		
			13.46	1.18	3.39	.31	.55	.91	2.36		
318	300		348	30	86	8	14	23	60		
			13.70	1.18	3.39	.31	.55	.91	2.36		
324	300		392	30	86	8	14	23	60		
			15.43	1.18	3.39	.31	.55	.91	2.36		
368	350		398	30	86	8	14	23	60		
			15.67	1.18	3.39	.31	.55	.91	2.36		
407	400		444	30	86	8	14	23	60		
			17.48	1.18	3.39	.31	.55	.91	2.36		
419	400		498	36	104	10	18	27	70		
			19.61	1.42	4.09	.39	.71	1.06	2.76		
521	500		510	36	104	10	18	27	70		
			10.08	1.42	4.09	.39	.71	1.06	2.76		
			614	36	104	10	18	27	70		
			24.17	1.42	4.09	.39	.71	1.06	2.76		

Ordering Codes
Metal Pipe Clamp *DIN3567-B*-20*-W1

One metal pipe clamp is consisting of two clamp halves. Hexagon head bolts and nuts are not included.

- * Metal Pipe Clamp to DIN 3567, type B **DIN3567-B**
- * STAUFF Group (Ø D1) **20**
- * Material code Carbon Steel, uncoated **W1**
- Carbon Steel, hot-dip galvanised **W40**
- Stainless Steel V4A **W5**
- 1.4401 / 1.4571 (AISI 316 / 316 Ti)

Clamp Assembly *DIN3567-B*-20*-W1*-COMPL

One clamp assembly is consisting of two clamp halves, three hexagon head bolts and three hexagon head nuts.

- * Metal Pipe Clamp to DIN 3567, type B **DIN3567-B**
- * STAUFF Group (Ø D1) **20**
- * Material code Carbon Steel, uncoated **W1**
- Carbon Steel, hot-dip galvanised **W40**
- Stainless Steel V4A **W5**
- 1.4401 / 1.4571 (AISI 316 / 316 Ti)

*** Clamp assembly with bolts and nuts **COMPL****

Please note: All items are supplied non-assembled.

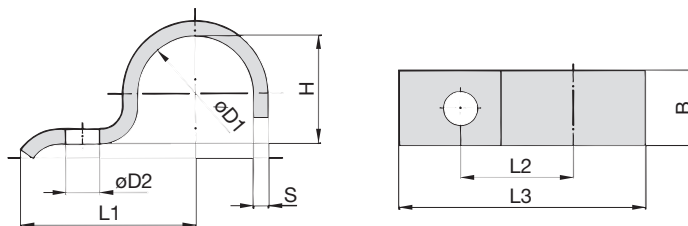
Applications

- Installation of pipes, tubes and other construction elements on beams, profiles and consoles

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



Heavy Saddle with Tension Clearance (DIN 1592) Single-Bolt Design



Ordering Codes

Heavy Saddle

***DIN1592-*7-*W66**

* Heavy Saddle to DIN 1592

DIN1592

* STAUFF Group (Ø D1)

7

* Material code Carbon Steel, uncoated

W1

Carbon Steel, zinc-plated
and thick-film passivated

W66

Stainless Steel V4A
1.4401 / 1.4571 (AISI 316 / 316 Ti)

W5

Applications

- Installation of pipes, tubes, poles and other round components directly on the substrate (floor, wall or ceiling)

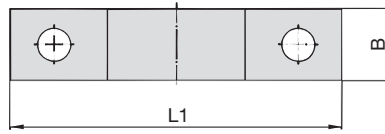
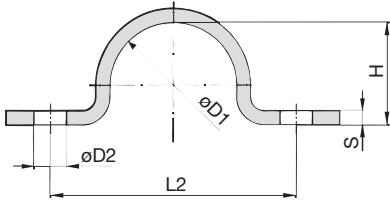
STAUFF Group	Diameter Range		Dimensions (mm/in)						
	Ø D1 (mm)	(in)	L1	L2	L3	H	D2	B	S
7	5,5 ... 7	.2228	22	14	27,5	5	6,6	16	2
			.87	.55	1.08	.20	.26	.63	.08
9	7 ... 9	.2835	27	18	33,5	6	6,6	20	2
			1.06	.71	1.32	.24	.26	.79	.08
13	9,5 ... 13	.3951	40	25	49,5	9	11	25	3
			1.57	.98	1.95	.35	.43	.98	.12
15,5	13 ... 15,5	.5161	41	26	52	12	11	25	3
			1.61	1.02	2.05	.47	.43	.98	.12
19	15,5 ... 19	.6175	43	28	55,5	15	11	25	3
			1.69	1.10	2.19	.59	.43	.98	.12
23	20 ... 23	.7991	51	35	67	19	14	30	5
			2.01	1.38	2.64	.75	.55	1.18	.20
26	23 ... 26	.91 ... 1.02	52	36	70	22	14	30	5
			2.05	1.42	2.76	.87	.55	1.18	.20
28,5	26 ... 28,5	1.02 ... 1.12	53	37	73	24	14	30	5
			2.09	1.46	2.87	.94	.55	1.18	.20
31	28,5 ... 31	1.12 ... 1.22	55	39	75,5	27	14	30	5
			2.17	1.54	2.97	1.06	.55	1.18	.20
36	33 ... 36	1.30 ... 1.42	57	41	81	32	14	40	5
			2.24	1.61	3.19	1.26	.55	1.57	.20
39	36 ... 39	1.42 ... 1.54	59	43	83,5	34	14	40	5
			2.32	1.69	3.29	1.34	.55	1.57	.20
43	39 ... 43	1.54 ... 1.69	68	48	94,5	38	18	40	5
			2.68	1.89	3.72	1.50	.71	1.57	.20
46	43 ... 46	1.69 ... 1.81	70	50	98	41	18	40	5
			2.76	1.97	3.86	1.61	.71	1.57	.20
49	46 ... 49	1.81 ... 1.93	73	53	105,5	44	18	40	8
			2.87	2.09	4.15	1.73	.71	1.57	.31
52 *	49 ... 52	1.93 ... 2.05	76	56	110	47	18	40	8
			2.99	2.20	4.33	1.85	.71	1.57	.31
58	53 ... 58	2.09 ... 2.28	78	58	115	52	18	40	8
			3.07	2.28	4.53	2.05	.71	1.57	.31
61	58 ... 61	2.28 ... 2.40	80	60	118,5	57	18	40	8
			3.15	2.36	4.67	2.24	.71	1.57	.31

* Similar to DIN 1592.

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



Heavy Saddle with Tension Clearance (DIN 1593) Two-Bolt Design



STAUFF Group	Diameter Range		Dimensions (mm/in)						
	Ø D1	(mm)	(in)	L1	L2	H	D2	B	S
7	5,5 ... 7	.2228	44	28	5	6,6	16	2	
			1.73	1.10	.20	.26	.63	.08	
9	7 ... 9	.2835	48	32	6	6,6	20	2	
			1.89	1.26	.24	.26	.79	.08	
13	9,5 ... 13	.3951	52	36	9	6,6	20	2	
			2.05	1.42	.35	.26	.79	.08	
15,5	13 ... 15,5	.5161	56	40	12	6,6	20	2	
			2.20	1.57	.47	.26	.79	.08	
19	15,5 ... 19	.6175	60	44	15	6,6	20	2	
			2.36	1.73	.59	.26	.79	.08	
23	20 ... 23	.7991	82	56	19	11	25	3	
			3.23	2.20	.75	.43	.98	.12	
26	23 ... 26	.91 ... 1.02	84	58	22	11	25	3	
			3.31	2.28	.87	.43	.98	.12	
28,5	26 ... 28,5	1.02 ... 1.12	90	64	24	11	25	3	
			3.54	2.52	.94	.43	.98	.12	
31	28,5 ... 31	1.12 ... 1.22	90	64	27	11	25	3	
			3.54	2.52	1.06	.43	.98	.12	
36	33 ... 36	1.30 ... 1.42	106	80	32	11	30	5	
			4.17	3.15	1.26	.43	1.18	.20	
39	36 ... 39	1.42 ... 1.54	110	84	34	11	30	5	
			4.33	3.31	1.34	.43	1.18	.20	
43	39 ... 43	1.54 ... 1.69	120	88	38	14	30	5	
			4.72	3.46	1.50	.55	1.18	.20	
46	43 ... 46	1.69 ... 1.81	122	90	41	14	30	5	
			4.80	3.54	1.61	.55	1.18	.20	
49	46 ... 49	1.81 ... 1.93	122	90	44	14	30	5	
			4.80	3.54	1.73	.55	1.18	.20	
58	53 ... 58	2.09 ... 2.28	142	110	52	14	40	5	
			5.59	4.33	2.05	.55	1.57	.20	
61	58 ... 61	2.28 ... 2.40	142	110	57	14	40	5	
			5.59	4.33	2.24	.55	1.57	.20	
71	67 ... 71	2.64 ... 2.80	152	120	66	14	40	5	
			5.98	4.72	2.60	.55	1.57	.20	
77	73 ... 77	2.87 ... 3.03	176	136	72	18	40	5	
			6.93	5.35	2.83	.71	1.57	.20	
81	77 ... 81	3.03 ... 3.19	184	144	76	18	40	5	
			7.24	5.67	2.99	.71	1.57	.20	
91	88 ... 91	3.39 ... 3.58	198	158	85	18	40	8	
			7.80	6.22	3.35	.71	1.57	.31	
103	99 ... 103	3.90 ... 4.06	214	174	98	18	40	8	
			8.43	6.85	3.86	.71	1.57	.31	
109	105 ... 109	4.13 ... 4.29	220	180	104	18	40	8	
			8.66	7.09	4.09	.71	1.57	.31	
115	110 ... 115	4.33 ... 4.53	226	186	109	18	40	8	
			8.90	7.32	4.29	.71	1.57	.31	

Ordering Codes

Heavy Saddle

***DIN1593-7-*W66**
*** Heavy Saddle to DIN 1593**
DIN1593
*** STAUFF Group (Ø D1)**
7
*** Material code** Carbon Steel, uncoated

W1

 Carbon Steel, zinc-plated
and thick-film passivated

W66

Stainless Steel V4A

1.4401 / 1.4571 (AISI 316 / 316 Ti)

W5

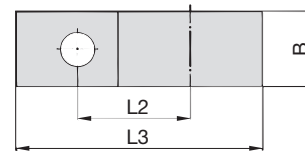
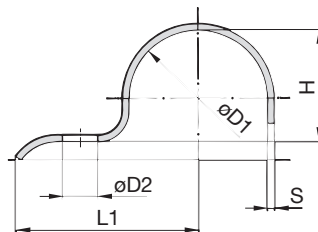
Applications

- Installation of pipes, tubes, poles and other round components directly on the substrate (floor, wall or ceiling)

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



Light Saddle with Tension Clearance (DIN 1596) Single-Bolt Design



Ordering Codes

Light Saddle

***DIN1596-*7-*W66**

* Light Saddle to DIN 1596	DIN1596
* STAUFF Group (Ø D1)	7
* Material code	
Carbon Steel, uncoated	W1
Carbon Steel, zinc-plated and thick-film passivated	W66
Stainless Steel V4A	
1.4401 / 1.4571 (AISI 316 / 316 Ti)	W5

Applications

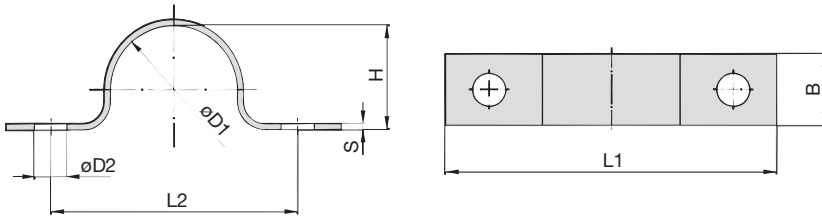
- Installation of pipes, tubes, poles and other round components directly on the substrate (floor, wall or ceiling)

STAUFF Group	Diameter Range		Dimensions (mm/in)						
	Ø D1 (mm)	(in)	L1	L2	L3	H	D2	B	S
7	5,5 ... 7	.2228	26	14	31,5	5	6,6	16	2
			1.02	.55	1.24	.20	.26	.63	.08
9	7 ... 9	.2835	28	16	34,5	6	6,6	16	2
			1.10	.63	1.36	.24	.26	.63	.08
13	9,5 ... 13	.3951	30	18	38,5	9	6,6	20	2
			1.18	.71	1.52	.35	.26	.79	.08
15,5	13 ... 15,5	.5161	32	20	41,75	12	6,6	20	2
			1.26	.79	1.64	.47	.26	.79	.08
19	15,5 ... 19	.6175	34	22	45,5	15	6,6	20	2
			1.34	.87	1.79	.59	.26	.79	.08
23	20 ... 23	.7991	43	28	57,5	19	9	25	3
			1.69	1.10	2.26	.75	.35	.98	.12
26	23 ... 26	.91 ... 1.02	44	29	60	22	9	25	3
			1.73	1.14	2.36	.87	.35	.98	.12
28,5	26 ... 28,5	1.02 ... 1.12	47	32	64,25	24	9	25	3
			1.85	1.26	2.53	.94	.35	.98	.12
31	28,5 ... 31	1.12 ... 1.22	47	32	65,5	27	9	25	3
			1.85	1.26	2.58	1.06	.35	.98	.12
33 *	31 ... 33	1.22 ... 1.30	56	36	75,5	29	9	25	3
			2.20	1.42	2.97	1.14	.35	.98	.12
36	33 ... 36	1.30 ... 1.42	57	40	78	32	11	30	3
			2.24	1.57	3.07	1.26	.43	1.18	.12
39	36 ... 39	1.42 ... 1.54	59	42	81,5	34	11	30	3
			2.32	1.65	3.21	1.34	.43	1.18	.12
43	39 ... 43	1.54 ... 1.69	61	44	85,5	38	11	30	3
			2.40	1.73	3.37	1.50	.43	1.18	.12
46	43 ... 46	1.69 ... 1.81	62	45	88	41	11	30	3
			2.44	1.77	3.46	1.61	.43	1.18	.12
49	46 ... 49	1.81 ... 1.93	67	48	95,5	44	14	40	4
			2.64	1.89	3.76	1.73	.55	1.57	.16
52 *	49 ... 52	1.93 ... 2.05	72	53	102	47	14	40	4
			2.83	2.09	4.02	1.85	.55	1.57	.16
58	53 ... 58	2.09 ... 2.28	76	55	107	52	14	40	4
			2.99	2.17	4.21	2.05	.55	1.57	.16
61	58 ... 61	2.28 ... 2.40	77	58	111,5	56	14	40	4
			3.03	2.28	4.39	2.20	.55	1.57	.16

* Similar to DIN 1596.

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



Light Saddle with Tension Clearance (DIN 1597)
 Two-Bolt Design


STAUFF Group	Diameter Range		Dimensions (mm/in)						
	Ø D1	(mm)	(in)	L1	L2	H	D2	B	S
7	5,5 ... 7	.2228	44	28	5	5,5	16	1,5	
			1.73	1.10	.20	.22	.63	.06	
9	7 ... 9	.2835	48	32	6	5,5	16	1,5	
			1.89	1.26	.24	.22	.63	.06	
13	9,5 ... 13	.3951	52	36	9	5,5	16	1,5	
			2.05	1.42	.35	.22	.63	.06	
15,5	13 ... 15,5	.5161	56	40	12	5,5	16	1,5	
			2.20	1.57	.47	.22	.63	.06	
19	15,5 ... 19	.6175	60	44	15	5,5	16	1,5	
			2.36	1.73	.59	.22	.63	.06	
23	20 ... 23	.7991	76	56	19	6,6	20	2	
			2.99	2.20	.75	.26	.79	.08	
26	23 ... 26	.91 ... 1.02	78	58	22	6,6	20	2	
			3.07	2.28	.87	.26	.79	.08	
28,5	26 ... 28,5	1.02 ... 1.12	84	64	24	6,6	20	2	
			3.31	2.52	.94	.26	.79	.08	
31	28,5 ... 31	1.12 ... 1.22	84	64	27	6,6	20	2	
			3.31	2.52	1.06	.26	.79	.08	
33 *	31 ... 33	1.22 ... 1.30	92	72	29	6,6	20	2	
			3.62	2.83	1.14	.26	.79	.08	
36	33 ... 36	1.30 ... 1.42	104	80	32	9	25	3	
			4.09	3.15	1.26	.35	.98	.12	
39	36 ... 39	1.42 ... 1.54	108	84	34	9	25	3	
			4.25	3.31	1.34	.35	.98	.12	
43	39 ... 43	1.54 ... 1.69	112	88	38	9	25	3	
			4.41	3.46	1.50	.35	.98	.12	
46	43 ... 46	1.69 ... 1.81	114	90	41	9	25	3	
			4.49	3.54	1.61	.35	.98	.12	
49	46 ... 49	1.81 ... 1.93	118	90	44	11	30	3	
			4.65	3.54	1.73	.43	1.18	.12	
52 *	49 ... 52	1.93 ... 2.05	134	106	47	11	30	3	
			5.28	4.17	1.85	.43	1.18	.12	
58	53 ... 58	2.09 ... 2.28	138	110	52	11	30	3	
			5.43	4.33	2.05	.43	1.18	.12	
61	58 ... 61	2.28 ... 2.40	138	110	56	11	30	3	
			5.43	4.33	2.20	.43	1.18	.12	

Ordering Codes
Light Saddle
***DIN1597-7-*W66**

* Light Saddle to DIN 1597	DIN 1597
* STAUFF Group (Ø D1)	7
* Material code	W1
Carbon Steel, uncoated	
Carbon Steel, zinc-plated and thick-film passivated	W66
Stainless Steel V4A	
1.4401 / 1.4571 (AISI 316 / 316 Ti)	W5

Applications

- Installation of pipes, tubes, poles and other round components directly on the substrate (floor, wall or ceiling)

* Similar to DIN 1597.

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

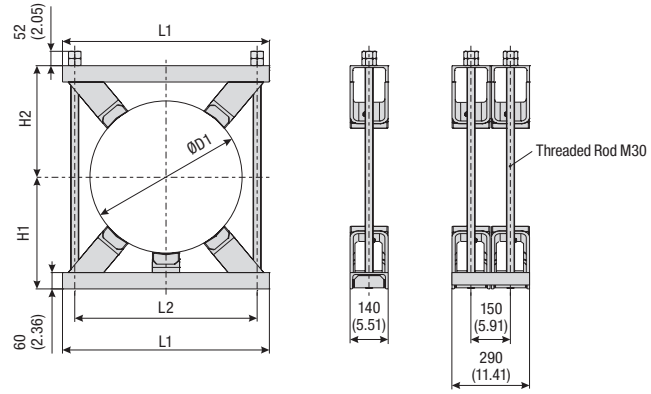




	Construction Series KS / DKS	168
	Construction Series (for Anchor Bolt Fastening) KSV / DKSV	169



Construction Series
Types KS (Single Version) / DKS (Double Version)



Ordering Codes

Construction Series *KS-*220-*PA-*W8

* Version Single version **KS**
 Double version **DKS**

* Exact outside diameter ØD1 (mm) **220**

* Material of Plastic Pads (see below) **PA**

* Material Code Steel, prime coated (grey, RAL 7035) **W8**

Please note: All items are supplied non-assembled.

Standard Materials for Plastic Pads



Polyamide
Colour: Black
Material Code: **PA**

See pages 178 / 179 for material properties and technical information.

Outside Diameter ØD1 Pipe / Tube Diameter Range		Standard Diameters		Dimensions (mm/in)				No. of Plastic Pads
(mm)	(in)	(mm)	(in)	L1	L2	H1	H2	
220 ... 275	8.66 ... 10.85	220	8.66	420	330	220	220	4
		247	9.72					
		267	10.51					
		273	10.75					
276 ... 325	10.87 ... 12.80	280	11.02	460	370	240	240	4
		300	11.81					
		318	12.52					
		323,9	12.75					
326 ... 370	12.83 ... 14.57	355,6	14.00	510	420	260	260	4
		368	14.49					
371 ... 425	14.61 ... 16.73	390	15.35	570	480	290	290	4
		406,4	16.00					
426 ... 485	16.77 ... 19.09	457,2	18.00	620	530	305	305	4
		470	18.50					
486 ... 550	19.13 ... 21.65	490	19.29	680	590	370	370	4
		508	20.00					
		521	20.51					
		546	21.50					
551 ... 630	21.69 ... 24.80	558,8	22.00	760	670	410	410	5
		609,6	24.00					
631 ... 715	24.84 ... 28.15	711	28.00	845	755	452	452	5
716 ... 800	28.19 ... 31.50	762	30.00	940	850	495	495	5
		813	32.00	990	900	500	500	5
				38.97	35.43	19.69	19.69	
		1000	39.37	1200	1100	591,5	593	5
				47.24	43.30	23.29	23.34	
		1016	40.00	1200	1100	602	602	5
				47.24	43.30	23.70	23.70	

Alternative outside diameters, materials and surface finishings are available upon request. Contact STAUFF for further information.

Dimensional drawings: All dimensions in mm (in).







Cushion Clamp Series

STC / SPC

172



Channel Rail

SCS

173



Compact Twin Series

DS

174



Agriculture Twin Series

AG

174



Pipe / Tube Bushing

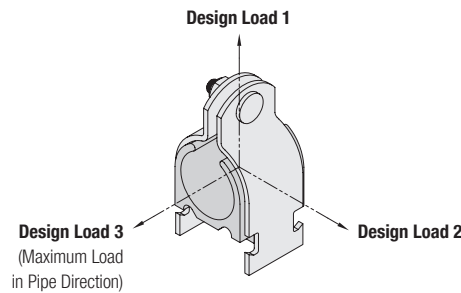
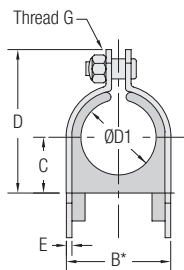
RF

175



Clamp Assembly - Types STC / SPC

(for Use with Channel Rail SCS)



Outside Diameter Pipe / Tube / Hose Ø D1 (mm) (in)		Nominal Bore Pipe (in)	Ordering Codes (1 Clamp Assembly) (*** = Material Code)	Standard Packaging Units pcs.	Dimensions (mm/in)					Thread G	Design Loads (kN/psi)		
					B*	C	D	E		1	2	3	
6,4	1/4		STC-025-***-K	24 / box	15,7	5,6	28,2	2	1/4-20 UNC	1,78	0,22	0,22	
					.62	.22	1.11	.08		400	50	50	
8	3/8		STC-037-***-K	24 / box	19,1	7,1	31,5	2	1/4-20 UNC	1,78	0,22	0,22	
					.75	.28	1.24	.08		400	50	50	
12,7	1/2		STC-050-***-K	24 / box	22,1	8,6	34,5	2	1/4-20 UNC	1,78	0,22	0,22	
					.87	.34	1.36	.08		400	50	50	
13,5		1/4	SPC-025-***-K	24 / box	23,1	9,1	35,8	2	1/4-20 UNC	1,78	0,22	0,22	
					.91	.36	1.41	.08		400	50	50	
16	5/8		STC-062-***-K	24 / box	25,4	10,4	38,1	2	1/4-20 UNC	1,78	0,22	0,22	
					1.00	.41	1.50	.08		400	50	50	
17,2		3/8	SPC-037-***-K	24 / box	27,2	11,4	40,4	2	1/4-20 UNC	2,67	0,33	0,33	
					1.07	.45	1.59	.08		600	75	75	
19	3/4		STC-075-***-K	24 / box	33,8	13,5	45,2	2	1/4-20 UNC	2,67	0,33	0,33	
					1.33	.53	1.78	.08		600	75	75	
21,3		1/2	SPC-050-***-K	24 / box	36,8	15,0	48,5	2	1/4-20 UNC	2,67	0,33	0,33	
					1.45	.59	1.91	.08		600	75	75	
22,2	7/8		STC-087-***-K	24 / box	36,8	14,7	48,5	2	1/4-20 UNC	2,67	0,33	0,33	
					1.45	.58	1.91	.08		600	75	75	
25,4	1		STC-100-***-K	12 / box	42,2	16,8	51,6	2,8	1/4-20 UNC	2,67	0,33	0,33	
					1.66	.66	2.03	.11		600	75	75	
26,9		3/4	SPC-075-***-K	12 / box	45,5	18,3	54,9	2,8	1/4-20 UNC	2,67	0,33	0,33	
					1.79	.72	2.16	.11		600	75	75	
32	1-1/4		STC-125-***-K	12 / box	48,8	19,8	58,4	2,8	1/4-20 UNC	2,67	0,33	0,33	
					1.92	.78	2.30	.11		600	75	75	
33,7		1	SPC-100-***-K	12 / box	56,4	23,1	69,9	3	5/16-18 UNC	2,67	0,33	0,33	
					2.22	.91	2.75	.12		600	75	75	
38	1-1/2		STC-150-***-K	12 / box	56,4	23,1	69,9	3	5/16-18 UNC	2,67	0,33	0,33	
					2.22	.91	2.75	.12		600	75	75	
42		1-1/4	SPC-125-***-K	12 / box	62,7	26,2	77,0	3	5/16-18 UNC	3,56	0,56	0,56	
					2.47	1.03	3.03	.12		800	125	125	
48,3		1-1/2	SPC-150-***-K	12 / box	62,7	29,5	83,3	3	5/16-18 UNC	3,56	0,56	0,56	
					2.47	1.16	3.28	.12		800	125	125	
50,8	2		STC-200-***-K	12 / box	69,1	29,5	83,3	3	5/16-18 UNC	3,56	0,56	0,56	
					2.72	1.16	3.28	.12		800	125	125	
60,3		2	SPC-200-***-K	1 / bag	69,1	35,8	96,0	3	5/16-18 UNC	3,56	0,56	0,56	
					3.22	1.41	3.78	.12		800	125	125	
63,5	2-1/2		STC-250-***-K	1 / bag	88,1	38,9	102,4	3	5/16-18 UNC	3,56	0,56	0,56	
					3.47	1.53	4.03	.12		800	125	125	
66,7	2-5/8		STC-262-***-K	1 / bag	88,1	38,9	102,4	3	5/16-18 UNC	3,56	0,56	0,56	
					3.47	1.53	4.03	.12		800	125	125	
73		2-1/2	SPC-250-***-K	1 / bag	94,5	42,2	108,5	3	5/16-18 UNC	3,56	0,56	0,56	
					3.72	1.66	4.27	.12		800	125	125	
76,2	3		STC-300-***-K	1 / bag	100,8	45,2	114,8	3	5/16-18 UNC	4,45	0,89	0,67	
					3.97	1.78	4.52	.12		1 000	200	150	
88,9		3	SPC-300-***-K	1 / bag	110,7	50,0	124,7	3	3/8-16 UNC	4,45	0,89	0,67	
					4.36	1.97	4.91	.12		1 000	200	150	
102		3-1/2	SPC-350-***-K	1 / bag	126,2	57,9	140,5	3	3/8-16 UNC	4,45	0,89	0,67	
					4.97	2.28	5.53	.12		1 000	200	150	
114		4	SPC-400-***-K	1 / bag	138,9	64,3	153,2	3	3/8-16 UNC	4,45	0,89	0,67	
					5.47	2.53	6.03	.12		1 000	200	150	
140		5	SPC-500-***-K	1 / bag	164,3	77,0	178,6	3,6	3/8-16 UNC	4,45	0,89	0,67	
					6.47	3.03	7.03	.14		1 000	200	150	
168		6	SPC-600-***-K	1 / bag	189,7	89,7	204,0	3,6	3/8-16 UNC	4,45	0,89	0,67	
					7.47	3.53	8.03	.14		1 000	200	150	

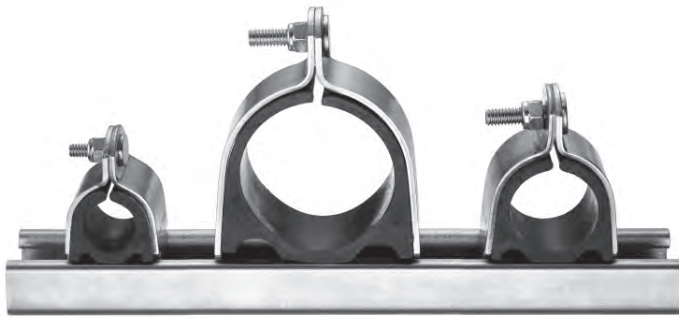
* Minimum required for installation.

One clamp assembly is consisting of two carbon steel clamp halves (one with threaded stud), one thermoplastic cushion insert and one lock nut with Nylon insert. Channel rail not included. All threaded parts are only available with unified coarse (UNC) thread. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



Clamp Assembly ■ Types STC / SPC

(for Use with Channel Rail SCS)



Standard Materials



Cushion Insert
Thermoplastic Elastomer (80 Shore-A)
 Colour: Black

The cushion material is compatible with most oils, chemicals and cleaning solvents and suitable for applications within a temperature range of -50 °C ... +125 °C (-58 °F ... +257 °F).

Alternative materials are available upon request.
 Please contact STAUFF for further information.

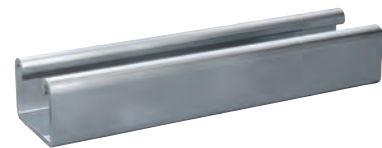
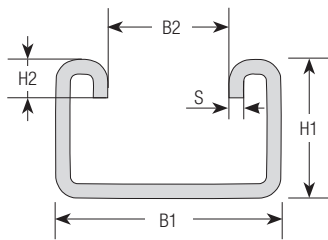
Product Features

- Clamp assemblies designed to mount directly to 41,3 mm / 1-5/8 in wide strut channels, such as the STAUFF Channel Rail, type SCS
- Suitable for most Fluid Power applications ranging from mobile equipment to industrial machinery
- Reduced horizontal mounting space
- Easy installation and retro fit capability
- Reduces shock and vibration while preventing galvanic corrosion

Ordering Codes

Clamp Assembly		*STC-*125-*W4-*K
* Type of clamp	STC (Tube diameters) SPC (Pipe diameters)	STC SPC
* Pipe / Tube O.D. (according to dimension table)		125
* Material code	Carbon Steel, zinc-plated, blue-chromated	W32
	Stainless Steel V2A	W4
	1.4301 (AISI 304)	W4
	Stainless Steel V4A	W5
	1.4401 (AISI 316)	W5
Assembling	Components packed in kits	K

Channel Rail ■ Type SCS



Dimensions (mm/in)				
B1	B2	H1	H2	S
41,3	22,2	25,4	7	2,7
1.63 (1-5/8)	.88 (7/8)	1.00	.28	.11

Alternative rail profiles, materials and surface finishings are available upon request. Contact STAUFF for further information.

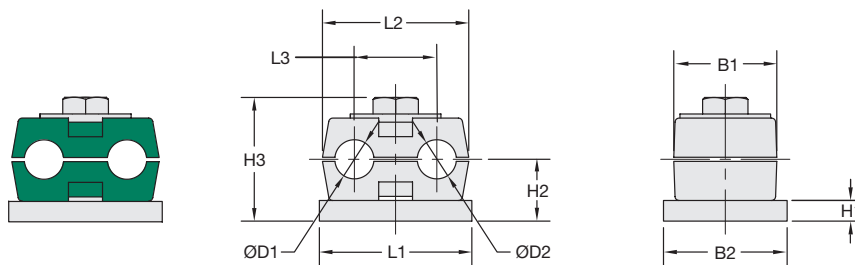
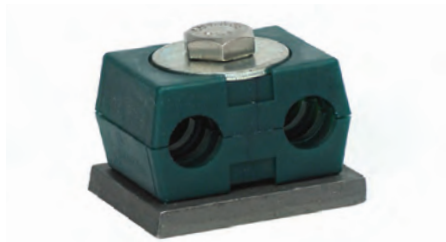
Ordering Codes

Strut Channel		*SCS-*048-*1-*PL
* Strut Channel		SCS
* Length of Rail	1,22 m / 4.00 ft / 48 in 3,05 m / 10.00 ft / 120 in	048 120
* Height of Rail	25,4 mm / 1.00 in	1
* Material code	Carbon Steel, uncoated	PL

N



Compact Twin Series: Clamp Body Type DS



Ordering Codes

Clamp Body *1-*06/06-*PP-*DS

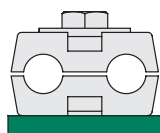
One clamp body is consisting of two clamp halves.

- * STAUFF Group DS 1 **1**
- * Exact outside diameters Ø D1 / Ø D2 (mm) **06/06**
- * Clamp Body Material (Polypropylene) **PP**
- * Compact Twin Series **DS**

Group	Outside Diameter Pipe / Tube Ø D1 / Ø D2		Nominal Bore Pipe (in)	Copper Tube ASTM B88 (in)	Ordering Codes (2 Clamp Halves)	Dimensions (mm/in)									
	(mm)	(in)				L1	L2	L3	H1	H2	H3	B1	B2		
STAUFF DS 1	6				106/06-PP-DS										
	6,4	1/4			106.4/06.4-PP-DS										
	8	5/16			108/08-PP-DS	37	35,5	20	5	15	30	25	30		
	9,5	3/8		1/4	109.5/09.5-PP-DS	1.46	1.40	.79	.20	.59	1.18	.98	1.18		
	10		1/8		110/110-PP-DS										

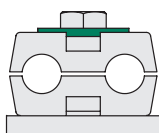
Additional outside diameters are available upon request. Please contact STAUFF for further information.

Compact Twin Series: Metal Hardware



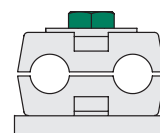
Weld Plate, Type SP-DS

SP-DS-1-U-W2
Thread size: 1/4–20 UNC
Carbon Steel, phosphated



Cover Plate, Type US-DS

US-DS-1-W3
Carbon Steel, zinc/nickel-plated

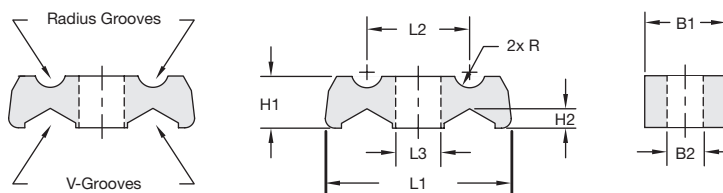


Hexagon Bolt, Type AS

AS-1/4-20UNCx1-W3
Thread size: 1/4–20 UNC
Carbon Steel, zinc/nickel-plated

All threaded parts are only available with unified coarse (UNC) thread. Rail mount and stacking assemblies as well as alternative materials and surface finishings are available upon request.

Agriculture Twin Series: Clamp Body Type AG



Group	Min/Max Outside Diameters Pipe / Tube				Ordering Codes (1 Clamp Body)	Dimensions (mm/in)							
	Radius Grooves (mm) (in)		V-Grooves (mm) (in)			L1	L2	L3	H1	H2	B1	B2	R
2	3 ... 10	.1239	4 ... 15	.2659	215.8/09.6-PP-AG-BK-HV	57,5 2.26	31,7 1.25	14,0 .55	16,0 .63	7,1 .24	25,0 .98	11,0 .43	4,8 .19
3	4 ... 25	.1698	7 ... 20	.2879	324.8/19.5-PP-AG-BK-HV	62,0 2.48	34,5 1.36	14,0 .55	19,0 .75	7,1 .28	32,0 1.26	11,0 .43	12,4 .49

Standard Material



Polypropylene
Colour: Black

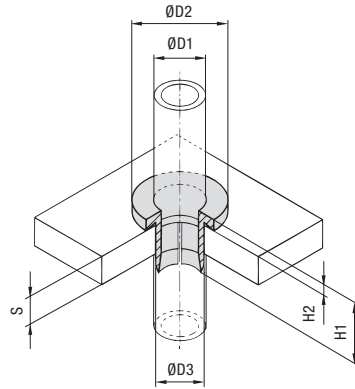
See pages 178 / 179 for properties and technical information.

Product Features

- Flip the clamp body to choose between the radius grooved or the v-grooved design (suitable for a range of diameters)
- Use M10 or 3/8–16 UNC bolts or screws (preferably with washers) to fasten clamp bodies directly to the machine
- Clamp bodies can be stacked for multi-level assembly

Additional outside diameters are available upon request. Please contact STAUFF for further information.





Pipe / Tube Bushing - Type SRF



Outside Diameter ØD1		Nominal Bore (in)	Dimensions (mm/in)			Wall Thickness (mm/in)		Mounting Bore (mm/in)
(mm)	(in)		ØD2	H1	H2	S	ØD3	
6	1/4		18	22	4	4 ... 12	10	
			.71	.87	.16	.1647	.39	
8	5/16		20	22	4	4 ... 12	12	
			.79	.87	.16	.1647	.47	
10	3/8	1/8 Pipe 1/4 Copper Tube (ASTM B88)	22	22	4	4 ... 12	14	
			.87	.87	.16	.1647	.55	
12	1/2	3/8 Copper Tube (ASTM B88)	24	22	4	4 ... 12	16	
			.94	.87	.16	.1647	.63	
14		1/4 Pipe	26	22	4	4 ... 12	18	
			1.02	.87	.16	.1647	.71	
15			28	22	4	4 ... 12	20	
			1.10	.87	.16	.1647	.79	
16	5/8	1/2 Copper Tube (ASTM B88)	28	22	4	4 ... 12	20	
			1.10	.87	.16	.1647	.79	
18			30	22	4	4 ... 12	22	
			1.18	.87	.16	.1647	.87	
20	3/4		32	22	4	4 ... 12	24	
			1.26	.87	.16	.1647	.94	
22	7/8	3/4 Copper Tube (ASTM B88)	34	22	4	4 ... 12	26	
			1.34	.87	.16	.1647	1.02	
			38	22	4	4 ... 12	30	
25	1		1.50	.87	.16	.1647	1.18	
			41	22	4	4 ... 12	33	
28		1 Copper Tube (ASTM B88)	1.61	.87	.16	.1647	1.30	
			43	22	4	4 ... 12	34	
30			1.69	.87	.16	.1647	1.39	
			48	22	4	4 ... 12	40	
35		1-1/4 Copper Tube (ASTM B88)	1.89	.87	.16	.1647	1.57	
			51	22	4	4 ... 12	43	
38	1-1/2		2.01	.87	.16	.1647	1.70	
			55	22	4	4 ... 12	47	
42		1-1/4 Pipe 1-1/2 Copper Tube (ASTM B88)	2.17	.87	.16	.1647	1.85	

Ordering Codes

Pipe / Tube Bushing

***SRF-*20-*PP**

- * Pipe / Tube Bushing SRF
- * Exact outside diameter Ø D1 (mm) 20
- * Material code (see below) PP

Standard Materials



Polypropylene
Colour: Natural colour
Material code: **PP**



Thermoplastic Elastomer (87 Shore-A)
Colour: Black
Material code: **SA87**

See pages 178 / 179 for material properties and technical information.

Product Features

- Designed to centre the pipe or tube in a through-hole (e.g. for return lines entering the hydraulic reservoir)
- Vibration and noise absorbing element
- Available for all commonly used Metric and imperial pipe and tube diameters from 6 ... 42 mm and 1/4 ... 1-1/2 in
- Easy plug-in installation





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Standard Clamp Body Materials



Material Code	PP	PA	AL	SA
Basic Material	Copolymeric Polypropylene	Polyamide	Aluminium AISi12	Thermoplastic Elastomer
Standard Colour	Green	Black	Natural	Black
Mechanical Properties				
Tensile E-Module	1073 N/mm ² (ISO 527)	> 1400 N/mm ² (ISO 527)	> 65000 N/mm ²	113 N/mm ² at +23 °C / +73.4 °F (ASTM D412)
Notch Impact Strength	8 kJ/m ² at +23 °C / +73.4 °F (acc. to Charpy / ISO 179 / 1eU)	> 15 kJ/m ² at 23 °C / +73.4 °F (acc. to Charpy / ISO 179 / 1eU)		
Low Temperature Notch Impact Strength	3 kJ/m ² at -20 °C / -4.0 °F (acc. to Charpy / ISO 179 / 1eU)	> 3 kJ/m ² at -30 °C / -22.0 °F (acc. to Charpy / ISO 179 / 1eU)		
Tensile Strength at Yield (Tensile Strength)	26 MPa (ISO 527-2)	> 55 MPa (ISO 527)	> 240 MPa (ISO EN 10002)	15,9 MPa (ASTM D412)
Ball Indentation Hardness (Brinell Hardness)	45,4 MPa (ISO 2039-1)	> 65 MPa (ISO 2039-1)	> 70 HBS	
Shore Hardness				87 A (ISO 868) <small>Alternative hardnesses are available upon request! Contact STAUFF for details.</small>
Thermal Properties				
Temperature Resistance (Min ... Max)	-30 °C ... +90 °C / -22 °F ... +194 °F	-40 °C ... +120 °C / -40 °F ... +248 °F (Brief exposure up to +140 °C / +284 °F)	up to +300 °C / up to +572 °F	-40 °C ... +125 °C / -40 °F ... +257 °F
Chemical Properties				
Weak Acids	conditionally consistent	conditionally consistent	conditionally consistent	consistent
Solvents	conditionally consistent	conditionally consistent	conditionally consistent	conditionally consistent
Benzine	conditionally consistent	consistent	consistent	conditionally consistent
Mineral Oils	conditionally consistent	consistent	consistent	conditionally consistent
Other Oils	consistent	consistent	consistent	consistent
Alcohols	consistent	consistent	consistent	consistent
Seawater	consistent	consistent	consistent	consistent

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Special Clamp Body Materials



Please contact STAUFF for further details on fire-proof clamp body materials, tested and approved according to several international fire-protection standards (such as BS 6853, EN 45545-2, UL 94 and many more).

See pages 180 / 181 for material properties and technical information.

The information for the Polyamide material PA have been determined in a conditioned state according to ISO 1110.

For Aluminium, the tensile strength (under reversed bending stress) and impact bending strength both rise constantly at decreasing temperatures whilst the value for breaking elongation decreases.

STAUFF preserves the right to supply products made from alternative, but comparable materials with matching technical characteristics.



Standard Clamp Insert Materials


 STAUFF Group 4 and 6 (Standard Series)
 STAUFF Group 4S to 7S (Heavy Series)


STAUFF Group 8S to 10S (Heavy Series)

SA		EPDM		Material Code
Thermoplastic Elastomer		Ethylene Propylene Diene Monomer		Basic Material
Black		Black		Standard Colour
Mechanical Properties				
16 N/mm ² at +23 °C / +73.4 °F (ASTM D412)				Tensile E-Module
				Notch Impact Strength
				Low Temperature Notch Impact Strength
8,3 MPa (ASTM D412)		9,0 MPa (DIN 53504)		Tensile Strength at Yield (Tensile Strength)
				Ball Indentation Hardness (Brinell Hardness)
73 A (ISO 868)	Alternative hardnesses are available upon request! Contact STAUFF for details.	70 A (DIN 53505)	Alternative hardnesses are available upon request! Contact STAUFF for details.	Shore Hardness
Thermal Properties				
-40 °C ... +125 °C / -40 °F ... +257 °F		-50 °C ... +120 °C / -58 °F ... +248 °F		Temperature Resistance (Min ... Max)
Chemical Properties				
consistent		consistent		Weak Acids
conditionally consistent		consistent		Solvents
conditionally consistent		conditionally consistent		Benzine
conditionally consistent		conditionally consistent		Mineral Oils
consistent		conditionally consistent		Other Oils
consistent		consistent		Alcohols
consistent		consistent		Seawater


Special Clamp Insert Materials

Please contact STAUFF for further details on fire-proof clamp body materials, tested and approved according to several international fire-protection standards (such as BS 6853, EN 45545-2, UL 94 and many more).

See pages 180 / 181 for material properties and technical information.

STAUFF preserves the right to supply products made from alternative, but comparable materials with matching technical characteristics.



Special Clamp Body Materials (Selection)

Preventive Fire Protection



Material Code	PA-V0	PP-DA	PA-GF30-USR
Basic Material	Polyamide	Polypropylene	Polyamide
Standard Colour	Black (PA-V0-BK)	White	Black
Mechanical Properties			
Tensile E-Module	1500 MPa (ISO 527-2)	1614 N/mm ² (ISO 527) at +23 °C / +73.4 °F: 50 mm/min	8274 MPa (ASTM D638)
Notch Impact Strength	35 kJ/m ² at +23 °C / +73.4 °F (acc. to Charpy / ISO 179 / 1eU)	13 kJ/m ² at +23 °C / +73.4 °F (acc. to IZOD / ISO 179 / 1eA)	15 kJ/m ² (ASTM D256)
Low Temperature Notch Impact Strength		1,5 kJ/m ² at -25 °C / -13.0 °F (acc. to IZOD / ISO 179 / 1eA)	
Tensile Strength at Yield (Tensile Strength)	45 MPa (ISO 527-2)	12,4 MPa (ISO 527) at +23 °C / +73.4 °F: 50 mm/min	131 MPa (ASTM D638)
Ball Indentation Hardness (Brinell Hardness)	100 N/mm ² (ISO 2039-1)		
Shore Hardness			
Thermal Properties			
Temperature Resistance (Min ... Max)	-30 °C ... +120 °C / -22 °F ... +248 °F	-25 °C ... +90 °C / -13 °F ... +194 °F	-30 °C ... +120 °C / -22 °F ... +248 °F
Features			
Approvals / Properties	<p>Tested and approved acc. to UL94 ¹ (material thickness: 3 mm)</p> <ul style="list-style-type: none"> Classification: V-0 (Vertical Burning Test) <p>Tested and approved acc. to EN 45545-2 (material thickness: 3,5 mm)</p> <ul style="list-style-type: none"> Requirements set R22 / R23 / R24 / R26 Hazard level HL1 - HL3 <p>Tested and approved acc. to DIN 5510, Part 2 (material thickness: 3 mm)</p> <ul style="list-style-type: none"> Combustibility classification: S4 Smoke development classification: SR2 Dripping classification: ST2 <p>Tested and approved acc. to NF F 16-101 (material thickness: 3 mm)</p> <ul style="list-style-type: none"> Classification: I3 / F2 <p>Low Smoke Zero Halogen (LSZH)</p>	<p>Tested and approved acc. to UL94 ¹ (material thickness: 3 mm)</p> <ul style="list-style-type: none"> Classification: V-0 (Vertical Burning Test) <p>Tested and approved acc. to Def Stan 07-247</p> <ul style="list-style-type: none"> Assessment: category B <p>Approved by the UK Ministry of Defence (MoD)</p> <p>Low Smoke Zero Halogen (LSZH)</p>	<p>Tested and approved acc. to ASTM D638 (material thickness: 1,5 mm)</p> <ul style="list-style-type: none"> Classification: V-0 (Vertical Burning Test) <p>Tested and approved acc. to NFPA 130 (material thickness: 3 mm)</p> <ul style="list-style-type: none"> no burning dripping <p>Halogen Free Flame Retardant (HFFR)</p>

¹ Successful testing and approval according to UL94 (classification V-0) is equivalent to EN 45545-2 (requirements set R26; hazard level HL3). The information for PA-V0 has been determined in a conditioned state according to ISO 1110.

STAUFF preserves the right to supply products made from alternative, but comparable materials with matching technical characteristics.

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Special Clamp Body Materials (Selection)

Preventive Fire Protection



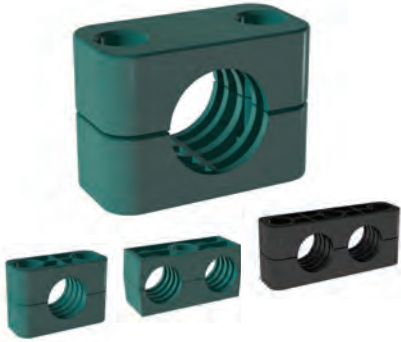
PP6853	PP-V0	SA-V0	PP-EC-BK	Material Code
Polypropylene	Polypropylene	Thermoplastic Elastomer	Polypropylene	Basic Material
White	Black	Natural	Black	Standard Colour
				Mechanical Properties
1264 MPa (ICE 60811-1-1)		113 N/mm ² at +23 °C / +73.4 °F (ASTM D412)		Tensile E-Module
17 kJ/m ² at +23 °C / +73.4 °F (acc. to IZOD / ISO 179 / 1eA)	5 kJ/m ² at +23 °C / +73.4 °F (acc. to ISO 180/A)		24 kJ/m ² bei +23 °C / +73.4 °F (ISO 179 / 1eA)	Notch Impact Strength
			10 kJ/m ² bei -20 °C / -28.9 °F (ISO 179 / 1eA)	Low Temperature Notch Impact Strength
25 MPa (ICE 60811-1-1)	24 MPa (ISO 527)	15,9 MPa (ASTM D412)	26 MPa (ISO 527-2)	Tensile Strength at Yield (Tensile Strength)
				Ball Indentation Hardness (Brinell Hardness)
		86 A (ISO 868)	Alternative hardnesses are available upon request!	Shore Hardness
				Thermal Properties
-25 °C ... +90 °C / -13 °F ... +194 °F	-25 °C ... +90 °C / -13 °F ... +194 °F	-55 °C ... +90 °C / -67 °F ... +194 °F		Temperature Resistance (Min ... Max)
				Features
Tested and approved acc. to EN 45545-2 (material thickness: 3 mm) ▪ Requirements set R22 / R23 / R24 / R26 ▪ Hazard level HL1 - HL3 Tested and approved acc. to BS 6853 (Code of practice for fire precautions in the design /construction of passenger carrying trains) ▪ Assessment: category 1a Compliant to the requirements of London Underground / Metronet (standard 2-01001-002: Fire Safety Performance of Materials) Tested and approved acc. to DIN 5510, Part 2 (material thickness: 25 mm) ▪ Combustibility classification: S4 ▪ Smoke development classification: SR2 ▪ Dripping classification: ST2 Tested and approved acc. to Def Stan 07-247 ▪ Assessment: category B Compliant to the requirements of JRMA (Japan Railway Rollingstock & Machinery Association) ▪ Classification: extremely incom- bustible Low Smoke Zero Halogen (LSZH)	Tested and approved acc. to UL94 ¹ (material thickness: 3 mm) ▪ Classification: V-0 (Vertical Burning Test)	Tested and approved acc. to UL94 ¹ (material thickness: 3 mm) ▪ Classification: V-0 (Vertical Burning Test)		Approvals / Properties

¹ Successful testing and approval according to UL94 (classification V-0) is equivalent to EN 45545-2 (requirements set R26; hazard level HL3).

STAUFF preserves the right to supply products made from alternative, but comparable materials with matching technical characteristics.



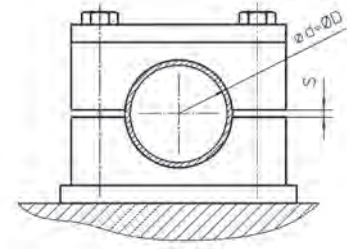
Standard Clamp Body Designs



Profiled Design

Profiled Inside Surface with Tension Clearance

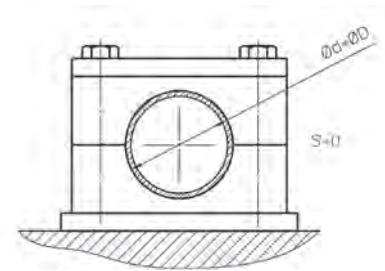
- Available in the Standard, Heavy, Twin and Heavy Twin Series
- Recommended for the safe installation of rigid pipes or tubes
- Available for all commonly used outside diameters and nominal sizes
- Vibration/noise reducing and impact absorbing effect towards the direction of the line provided by the grooves on the inside of the clamp bodies
- Clearance S between the clamp halves provides tension of the tube or pipe
- To be used as fixed point clamp preventing the line from sliding (see page 161 for Maximum Loads in Pipe Direction)



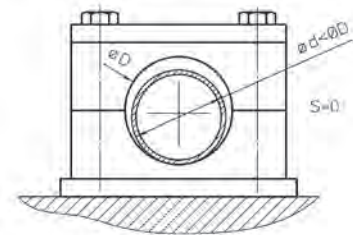
Type H (Smooth)

Smooth Inside Surface w/o Tension Clearance

- Available in the Standard, Heavy and Twin Series
- Recommended for the safe installation of hoses or cables
- Available for all commonly used outside diameters and nominal sizes
- Smooth inside surface and chamfered edges avoid damaging of the hose or cable

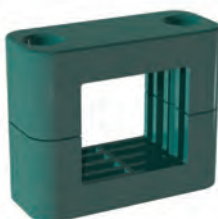


- Choose the diameter $\varnothing D$ of the clamp body slightly larger (in accordance to your specific requirements) than the outside diameter $\varnothing d$ of the pipe, tube, hose or cable in order to use it as a longitudinal guide allowing the line to slide



Type RI (with Elastomer Insert)

- Available in the Standard, Heavy and Heavy Twin Series
- Recommended for the extra-gentle installation of pipes, tubes, hoses or cables
- Available for all commonly used outside diameters and nominal sizes
- Elastomer insert made of Thermoplastic Elastomer with a hardness of 73 Shore-A provides most effective reduction of vibration and noise caused by vibration



Rectangular Design - Type VK

- Available in the Standard Series (STAUFF Group 5)
- Recommended for the safe installation of proximity switches according to DIN EN 60947-5-2 or similar, rectangular construction, with a square of 40 mm x 40 mm (1.57 in x 1.57 in) or 40 mm x 36 mm (1.57 in x 1.42 in)



Materials and Surface Finishings of Metal Parts

Materials

Unless otherwise stated, all metal parts (e.g. weld plates, cover plates, bolts, rail nuts etc.) are made of **Carbon Steel** (surface finishing according to material code).

Besides that, all metal parts are also available **ex stock** in two different stainless steel qualities:

Stainless Steel V2A

- 1.4301 / 1.4305 (AISI 304 / 303)
- Material code: W4


Stainless Steel V4A

- 1.4401 / 1.4571 (AISI 316 / 316 Ti)
- Material code: W5

Aluminium

- Aluminium EN AW-6060
- Material code: W85

Alternative materials (e.g. Aluminium) are available upon request. Contact STAUFF for further information.

Surface Finishings

Unless otherwise stated, all metal parts made of Carbon Steel are available with the following standard surface finishings:

Carbon Steel, uncoated

- Material code: W1

Carbon Steel, phosphated

- Fe/Znph r 10 according to DIN EN 12476
- Material code: W2

Carbon Steel, zinc/nickel-plated

- More than 1200 hours resistance against red rust / base metal corrosion in the salt spray test to DIN EN ISO 9227
- Free of hexavalent chromium Cr(VI)
- RoHS compliant according to 2002/95/EC (Restrictions of the Use of Hazardous Substances)
- ELV compliant according to 2000/53/EC (End of Life Vehicles Directive)
- Material code: W3

Alternative surface finishings are available upon request. Contact STAUFF for further information.



Original STAUFF Cover Plate with Zinc/Nickel-Coating:
No signs of corrosion after 1200 hours in the salt spray chamber!



Original STAUFF Cover Plates with alternative surface finishings widely-used by competitors in the market (from left to right):

- Galvanisation and blue-chromating after 96 hours
- Galvanisation and yellow-chromating after 192 hours
- Zinc-coating, thick-film passivation and sealing after 192 hours

In all three cases, signs of white and red rust / base metal corrosion are quite clearly visible! Please do not hesitate to contact STAUFF and ask for a detailed report.

Thread Conversion Chart

Metric ISO vs. Unified Coarse (UNC) Thread

Unless otherwise stated, all threaded parts available with Metric ISO thread or unified coarse (UNC) thread.

Standard Series (DIN 3015, Part 1)

Group STAUFF	DIN	Thread Metric ISO	Unified Coarse
1 to 8	0 to 8	M6	1/4–20 UNC

Heavy Series (DIN 3015, Part 2)

Group STAUFF	DIN	Thread Metric ISO	Unified Coarse
3S to 5S	1 to 3	M10	3/8–16 UNC
6S	4	M12	7/16–14 UNC
7S	5	M16	5/8–11 UNC
8S	6	M20	3/4–10 UNC
9S	7	M24	7/8–9 UNC
10S	8	M30	1-1/8–7 UNC
11S to 12S	9 to 10	M30	1-1/4–7 UNC

Twin Series (DIN 3015, Part 3)

Group STAUFF	DIN	Thread Metric ISO	Unified Coarse
1D	1	M6	1/4–20 UNC
2D to 5D	2 to 5	M8	5/16–18 UNC

Property Classes / Grades of Bolts and Screws


Hexagon Head Bolt
Socket Cap Screw
Slotted Head Screw

Bolt / Screw Type	Material Code	Property Class / Grade	
		Metric ISO Threaded Bolts / Screws	Unified Coarse Threaded Bolts / Screws
Hexagon Head Bolt Type AS	W1, W2, W3	8.8 (according to DIN EN ISO 898)	5 (according to SAE J429)
	W4	A2-70 (according to DIN EN ISO 3506)	AISI 304 / B8 (according to ASTM A193)
	W5	A4-70 (according to DIN EN ISO 3506)	AISI 316 / B8M (according to ASTM A193)
Socket Cap Screw Type IS	W1, W2, W3	8.8 (according to DIN EN ISO 898)	5 (according to SAE J429)
	W4	A2-70 (according to DIN EN ISO 3506)	AISI 304 / B8 (according to ASTM A193)
	W5	A4-70 (according to DIN EN ISO 3506)	AISI 316 / B8M (according to ASTM A193)
Slotted Head Screw Type LI	W1, W2, W3	4.8 (according to DIN EN ISO 898)	2 (according to SAE J429)
	W4	A2-70 (according to DIN EN ISO 3506)	AISI 304 / B8 (according to ASTM A193)
	W5	A4-70 (according to DIN EN ISO 3506)	AISI 316 / B8M (according to ASTM A193)

Unless otherwise stated, the above mentioned property classes / grades apply as standards for bolts and screws supplied by STAUFF. The information indicate the minimum requirements; higher property classes are available upon request. Contact STAUFF for details.



Basic Installation Instructions



Installation on Weld Plate

Different types of weld plates are available for all STAUFF Clamps according to DIN 3015 as well as for most of the other series and many custom-designed special clamps.

- Mark the positions of the weld plates to ensure best alignment.
- Place weld plates in their designated positions. Please make sure these positions are suitable for the expected loads.
- Weld the weld plates into position. Elongated weld plates can also be mounted to their positions by using screws or bolts.
- Push bottom clamp half onto weld plate.
- Insert pipe, tube, hose, cable or any other type of line.
- Place second clamp half and cover plate (optional) on top and mount clamp assembly by using screws or bolts.

Unless otherwise stated, the bolt lengths indicated for clamps according to DIN 3015 refer to the installation on weld plates and mounting rails as well as multi-level (stacking) installation. For direct installation, different lengths may be required.



Installation on Mounting Rail

STAUFF Mounting Rails are available in different heights. STAUFF Rail Nuts are available for all STAUFF Clamps according to DIN 3015 (Heavy Series up to STAUFF Group 6S only) as well as for many custom-designed special clamps.

- Mark the positions of the mounting rails to ensure best alignment.
- Place mounting rails in their designated positions. Please make sure these bases are suitable for the expected loads.
- Weld the mounting rails into position. Mounting rails can also be mounted to their positions by using side-mounting brackets with screws or bolts.
- Insert rail nuts into mounting rail and turn until stop to lock (Standard and Twin Series) or slide in rail nut (Heavy Series).
- Push bottom clamp half onto rail nuts.
- Insert pipe, tube, hose, cable or any other type of line.
- Place second clamp half and cover plate (optional) on top and mount clamp assembly by using screws or bolts.

The exact positions of the clamp assemblies can still be adjusted before being firmly bolted.



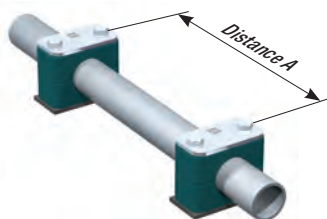
Multi-Level (Stacking) Installation

Stacking bolts permit the multi-level assembly of clamps of identical group sizes. Safety locking plates inserted between the levels prevent the stacking bolts from turning. The Twin Series also allows stacking of different group sizes (STAUFF Groups 2D to 5D).

- Push bottom clamp half onto weld plate or rail nuts.
- Insert pipe, tube, hose, cable or any other type of line.
- Place second clamp half.
- Insert stacking bolts into the clamp assembly and tighten using the following tightening torques (or in a way that the clamp halves are in contact with the line over the entire internal contact surface):
 - Standard Series** 1 ... 2 N·m / .75 ... 1.5 ft·lb (hand-tightened)
 - Heavy Series** 5 N·m / 3.75 ft·lb
 - Twin Series** 1 ... 2 N·m / .75 ... 1.5 ft·lb (hand-tightened)
- Place safety locking plate on top of clamp assembly.
- Proceed with next levels. Top level to be assembled with cover plate and hexagon head bolts using the tightening torques as indicated on page 161.

STAUFF multi-level clamp assemblies can be mounted both to weld plates or to mounting rails (with rail nuts).

Recommended Distance between Clamps



Please note: The recommended distances between clamps stated below are standard values and valid for static loads only.

Outside Diameter (mm)		Distance A (m)		Outside Diameter (mm)		Distance A (m)	
(mm)	(in)	(m)	(ft)	(mm)	(in)	(m)	(ft)
6,0 ... 12,7	.2350	1,00	3,28	114,0 ... 168,0	4.50 ... 6.60	5,00	16,40
12,7 ... 22,0	.5086	1,20	3,94	168,0 ... 219,0	6.60 ... 8.60	6,00	19,68
22,0 ... 32,0	.86 ... 1.25	1,50	4,92	219,0 ... 324,0	8.60 ... 12.70	6,70	21,98
32,0 ... 38,0	1.25 ... 1.50	2,00	6,56	324,0 ... 356,0	12.70 ... 14.00	7,00	22,96
38,0 ... 57,0	1.5 ... 2.25	2,70	8,86	356,0 ... 406,0	14.00 ... 16.00	7,50	24,60
57,0 ... 75,0	2.25 ... 2.95	3,00	9,84	406,0 ... 419,0	16.00 ... 16.50	8,20	26,90
75,0 ... 76,1	2.95 ... 3.00	3,50	11,48	419,0 ... 508,0	16.50 ... 20.00	8,50	27,88
76,1 ... 88,9	3.00 ... 3.50	3,70	12,14	508,0 ... 521,0	20.00 ... 20.50	9,00	29,52
88,9 ... 102,0	3.50 ... 4.00	4,00	13,12	521,0 ... 558,0	20.50 ... 22.00	10,00	32,80
102,0 ... 114,0	4.00 ... 4.50	4,50	14,76	558,0 ... 800,0	22.00 ... 31.50	12,50	41,00

Installation next to Pipe Bends, Connectors / Couplings and Valves



Please note the following information on the installation of STAUFF Clamps next to pipe bends, connectors / couplings and valves:

Pipe Bends

Pipe bends should be supported by STAUFF Clamps as close to the bends as possible. Furthermore, it is recommended to design these clamps as fixed point clamps.

Connections / Couplings

The first clamp should be placed directly next to the connector / coupling. This protects the connector / coupling from vibrations.

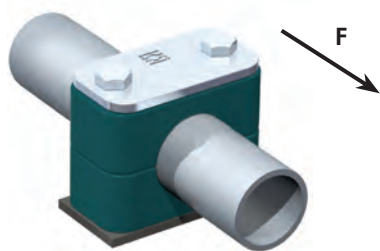
Valves

If valves are incorporated in the pipelines, it is recommended that support is provided in front of and behind these valves.

Contact STAUFF for further information.



Tightening Torques and Maximum Loads In Pipe Direction



All tightening torques and maximum loads in pipe direction refer to STAUFF Clamp Bodies (profiled inside surface with tension clearance) with Cover Plates, Weld Plates and Hexagon Head Bolts according to DIN EN ISO 4014/4017 (DIN 931/933).

The max. load in pipe direction (according to DIN 3015-10:1999) is an average value, determined by three tests at +23 °C / +73.4 °F with a steel pipe according to DIN EN 10220, St37 – rolled surface – taking static friction into consideration.

Sliding starts when the shown values (F) are reached.

Standard Series (DIN 3015-1:1999)

Group	Hexagon Head Bolt DIN EN ISO 4014/4017 (DIN 931/933)		Polypropylene (PP)				Polyamide (PA)				Aluminium (AL)				
	STAUFF	DIN	Metric ISO Thread	Unified Coarse (UNC) Thread	Tightening Torque (N-m) (ft-lb)		Maximum Load in Pipe Direction F (kN) (lbf)		Tightening Torque (N-m) (ft-lb)		Maximum Load in Pipe Direction F (kN) (lbf)		Tightening Torque (N-m) (ft-lb)		Maximum Load in Pipe Direction F (kN) (lbf)
1	0	M6	1/4-20 UNC	8	6	0,6	135	10	7	0,6	135	12	9	3,5	787
1A	1	M6	1/4-20 UNC	8	6	1,1	247	10	7	0,7	157	12	9	4,2	944
2	2	M6	1/4-20 UNC	8	6	1,3	292	10	7	0,8	180	12	9	4,3	967
3	3	M6	1/4-20 UNC	8	6	1,4	315	10	7	1,6	360	12	9	4,9	1101
4	4	M6	1/4-20 UNC	8	6	1,5	337	10	7	1,7	382	12	9	5,0	1124
5	5	M6	1/4-20 UNC	8	6	1,9	427	10	7	2,0	450	12	9	7,3	1641
6	6	M6	1/4-20 UNC	8	6	2,0	450	10	7	2,5	562	12	9	8,9	2000
7	7	M6	1/4-20 UNC	8	6	2,3	517	10	7	3,2	719				
8	8	M6	1/4-20 UNC	8	6	2,6	585	10	7	3,5	787				

Heavy Series (DIN 3015-2:1999)

Group	Hexagon Head Bolt DIN EN ISO 4014/4017 (DIN 931/933)		Polypropylene (PP)				Polyamide (PA)				Aluminium (AL)				
	STAUFF	DIN	Metric ISO Thread	Unified Coarse (UNC) Thread	Tightening Torque (N-m) (ft-lb)		Maximum Load in Pipe Direction F (kN) (lbf)		Tightening Torque (N-m) (ft-lb)		Maximum Load in Pipe Direction F (kN) (lbf)		Tightening Torque (N-m) (ft-lb)		Maximum Load in Pipe Direction F (kN) (lbf)
3S	1	M10	3/8-16 UNC	12	9	1,6	360	20	15	4,2	944	30	22	12,1	2720
4S	2	M10	3/8-16 UNC	12	9	2,9	652	20	15	4,5	1044	30	22	15,1	3395
5S	3	M10	3/8-16 UNC	15	11	3,3	742	25	18	5,1	1146	35	26	15,5	3485
6S	4	M12	7/16-14 UNC	30	22	8,2	1843	40	30	9,3	2090	55	41	29,5	6609
7S	5	M16	5/8-11 UNC	45	33	11,0	2472	55	41	15,8	3551	120	86	34,9	7845
8S	6	M20	3/4-10 UNC	80	59	14,0	3147	150	111	21,0	4720	220	162	50,0	11240
9S	7	M24	7/8-9 UNC	110	81	28,0	6300	200	148	32,0	7193	250	184	70,6	15871
10S	8	M30	1-1/8-7 UNC	180	133	40,0	8992	350	258	48,0	10790	500	369	84,5	18996
11S	9	M30	1-1/4-7 UNC	200	148	119,0	26752	370	273	125,0	27650	500	369	181,5	40802
12S	10	M30	1-1/4-7 UNC	270	199	168,0	37767	450	332	180,0	40465	600	443	244,5	54965

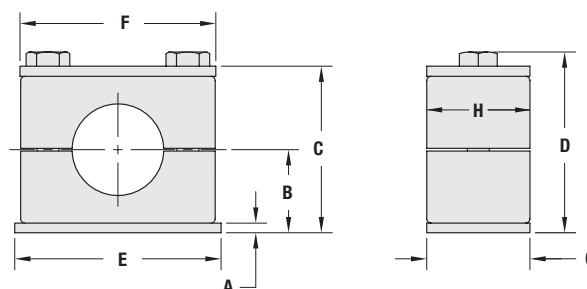
Twin Series (DIN 3015-2:1999)

Group	Hexagon Head Bolt DIN EN ISO 4014/4017 (DIN 931/933)		Polypropylene (PP)				Polyamide (PA)				
	STAUFF	DIN	Metric ISO Thread	Unified Coarse (UNC) Thread	Tightening Torque (N-m) (ft-lb)		Maximum Load in Pipe Direction F (kN) (lbf)		Tightening Torque (N-m) (ft-lb)		Maximum Load in Pipe Direction F (kN) (lbf)
1D	1	M6	1/4-20 UNC	5	4	0,9	202	5	4	0,9	202
2D	2	M8	5/16-18 UNC	12	9	2,1	472	12	9	2,2	495
3D	3	M8	5/16-18 UNC	12	9	1,9	427	12	9	2,0	450
4D	4	M8	5/16-18 UNC	12	9	2,7	607	12	9	2,9	652
5D	5	M8	5/16-18 UNC	8	6	1,7	382	8	6	2,5	562

Only for the standard clamp body materials which are listed on page 154. In case of doubt, please contact STAUFF in advance.

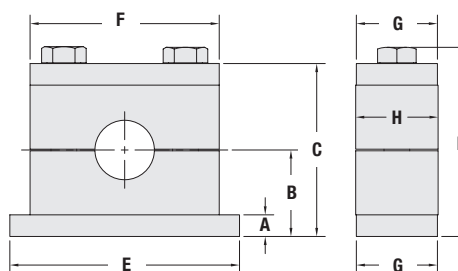


Dimensions and Weights of Clamp Assemblies



Standard Series (DIN 3015, Part 1)

Group	STAUFF	DIN	Dimensions (mm/m)								E	F	G	H	Weight per 100 Pcs. SP-**-PP-DP-AS (kg/lbs)
			A	B		C		D							
				Profilled Design	Type H (Smooth)	Profilled Design	Type H (Smooth)	Profilled Design	Type H (Smooth)						
1	0	3	16,5	16	33	32	37	36	31,5	28	30	30	6,20		
		.12	.65	.63	1.30	1.26	1.46	1.42	1.24	1.10	1.18	1.18	13,64		
1A	1	3	16,5	16	33	32	37	36	36	34	30	30	8,10		
		.12	.65	.63	1.30	1.26	1.46	1.42	1.41	1.33	1.18	1.18	17,82		
2	2	3	19,5	19	39	38	43	42	42	40,5	30	30	9,40		
		.12	.77	0.75	1.54	1.50	1.69	1.65	1.65	1.59	1.18	1.18	20,68		
3	3	3	21	20,75	42	41,5	46	45,5	50	48	30	30	11,20		
		.12	.83	.82	1.65	1.64	1.81	1.80	1.96	1.88	1.18	1.18	24,64		
4	4	3	24	23,75	48	47,5	52	51,5	60	57	30	30	13,70		
		.12	.94	.94	1.89	1.87	2.05	2.03	2.36	2.24	1.18	1.18	30,14		
5	5	3	32	31,25	64	62,5	68	66,5	71	70	30	30	17,10		
		.12	1.26	1.23	2.52	2.46	2.68	2.62	2.79	2.75	1.18	1.18	37,62		
6	6	3	36	35,25	72	70,5	76	74,5	88	86	30	30	21,30		
		.12	1.42	1.39	2.83	2.78	2.99	2.94	3.46	3.38	1.18	1.18	46,86		
7	7	5	51,5	51	103	102	107	106	122	118	30	30	42,10		
		.20	2.03	2.01	4.06	4.02	4.21	4.17	4.81	4.65	1.18	1.18	92,62		
8	8	5	64	63	128	126	132	130	148	144	30	30	44,00		
		.20	2.52	2.48	5.04	4.96	5.20	5.12	5.83	5.67	1.18	1.18	96,80		



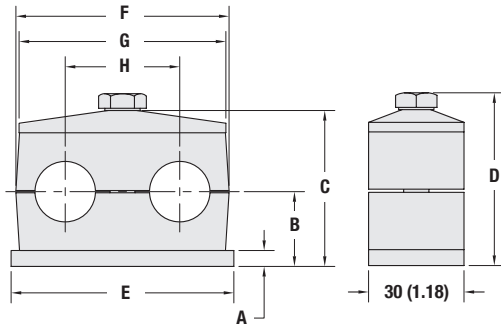
Heavy Series (DIN 3015, Part 2)

Group	STAUFF	DIN	Dimensions (mm/m)								F			G	H	Weight per 1 Pc. SPAL-**-PP-DPAL-AS (kg/lbs)
			A	B		C		D		PP/PA/SA	AL					
				Profilled Design	TypeH(Smooth)	Profilled Design	TypeH(Smooth)	Profilled Design	TypeH(Smooth)							
3S	1	8	24	23,25	48	46,5	54,4	52,9	74	55	56	30	30,5	0,32		
		.31	.94	.92	1.89	1.83	2.14	2.09	2.91	2.16	2.20	1.18	1.20	.70		
4S	2	8	32	31,25	64	62,5	70,4	68,9	86	70	70	30	30,5	0,40		
		.31	1.26	1.23	2.52	2.46	2.77	2.72	3.39	2.76	2.76	1.18	1.20	.88		
5S	3	8	38	37	76	74	82,4	80,4	100	85	85	30	30,5	0,49		
		.31	1.50	1.46	2.99	2.91	3.24	3.17	3.94	3.35	3.35	1.18	1.20	1,08		
6S	4	10	54,5	53,5	109	107	116,5	114,5	140	115	120	45	45	1,21		
		.39	2.15	2.11	4.29	4.21	4.59	4.51	5.51	4.53	4.72	1.77	1,77	2,66		
7S	5	10	70		140		150		180	154	152	60	60	2,30		
		.39	2.76		5.51		5.91		7.09	6.06	5.98	2.36	2,36	5,06		
8S	6	15	99		198		210,5		226	206	208	80	80	5,56		
		.59	3.90		7.80		8.29		8.90	8.11	8.19	3.15	3,15	12,26		
9S	7	15	115		230		245		270	251	255	90	91	7,97		
		.59	4.53		9.06		9.65		10.63	9.88	10.04	3.54	3,58	17,58		
10S	8	25	160		320		338,7		340	336	326	120	120	22,16		
		.98	6.30		12.60		13.33		13.39	13.22	12.83	4.72	4,72	48,75		
11S	9	30	235		470		488,7		520	470	470	160	162	54,11		
		1.18	9.25		18.50		19.24		20.47	18.50	18.50	6.30	6,38	119,04		
12S	10	30	295		590		608,7		680	630	630	180	182	77,40		
		1.18	11.61		23.23		23.96		26.77	24.80	24.80	7.09	7,16	170,28		

0



Dimensions & Weights of Clamp Assemblies



Twin Series (DIN 3015, Part 3)

Group	DIN	Dimensions (mm/in)								E	F	G	H	Weight per 100 Pcs. SP-**-**-PP-GD-AS (kg/lbs)
		A	B		C		D							
STAUFF			Profiled Design	Type H (Smooth)	Profiled Design	Type H (Smooth)	Profiled Design	Type H (Smooth)						
1D	1	3	16,5	16,25	37	36,5	41	40,5	37	36	34	20	7,60	
		.12	.65	.64	1.46	1.44	1.61	1.59	1.46	1.42	1.34	.79	16.72	
2D	2	5	18,5	18,25	39	38,5	44	43,5	55	53	52	29	13,50	
		.20	.73	.72	1.54	1.52	1.73	1.71	2.17	2.09	2.05	1.14	29.70	
3D	3	5	23,5	23,25	49	48,5	54	53,5	70	67	65	36	17,70	
		.20	.93	.92	1.93	1.91	2.13	2.11	2.76	2.64	2.56	1.42	38.94	
4D	4	5	25	24	52	50	57	55	85	80	79	45	20,40	
		.20	.98	.94	2.05	1.97	2.24	2.17	3.35	3.15	3.11	1.77	44.88	
5D	5	5	31,5	31	65	64	70	69	110	106	102	56	27,70	
		.20	1.24	1.22	2.56	2.52	2.76	2.72	4.33	4.17	4.02	2.20	60.94	

Packaging Units (Selection)

Standard Series (DIN 3015, Part 1)

Clamp Bodies (Polypropylene / Polyamide)

Group	STAUFF	DIN	Quantity per Bag (in Pcs.)
1 - 6		0 - 6	25
7 + 8		7 + 8	10

Clamp Bodies (Aluminium)

Group	STAUFF	DIN	Quantity per Bag (in Pcs.)
1 - 5		0 - 5	25
6		6	10

Weld Plates (Type SP)

Cover Plates (Type DP)

Group	STAUFF	DIN	Quantity per Bag (in Pcs.)
1 - 6		0 - 6	25
7 + 8		7 + 8	10

Hexagon Rail Nut (Type SM)

Channel Rail Adaptor (Type CRA)

Group	STAUFF	DIN	Quantity per Bag (in Pcs.)
1 - 8		0 - 8	50

Heavy Series (DIN 3015, Part 2)

Clamp Bodies (Polypropylene / Polyamide)

Group	STAUFF	DIN	Quantity per Bag (in Pcs.)
3S - 6S		1 - 4	20
7S		5	10
8S - 12S		6 - 10	1

Clamp Bodies (Aluminium)

Group	STAUFF	DIN	Quantity per Bag (in Pcs.)
3S - 6S		1 - 4	20
7S		5	10
8S - 12S		6 - 10	1

Weld Plates (Type SPAL)

Cover Plates (Type DPAL)

Group	STAUFF	DIN	Quantity per Bag (in Pcs.)
3S - 6S		1 - 4	20
7S		5	10
8S - 12S		6 - 10	1

Mounting Rail Nut (Type GMV)

Channel Rail Adaptor (Type CRA)

Group	STAUFF	DIN	Quantity per Bag (in Pcs.)
3S - 6S		1 - 4	40

Twin Series (DIN 3015, Part 3)

Clamp Bodies (Polypropylene / Polyamide)

Group	STAUFF	DIN	Quantity per Bag (in Pcs.)
1D - 4D		1 - 4	25
5D		5	10

Weld Plates (Type SP)

Cover Plates (Type GD)

Group	STAUFF	DIN	Quantity per Bag (in Pcs.)
1D - 4D		1 - 4	25
5D		5	10

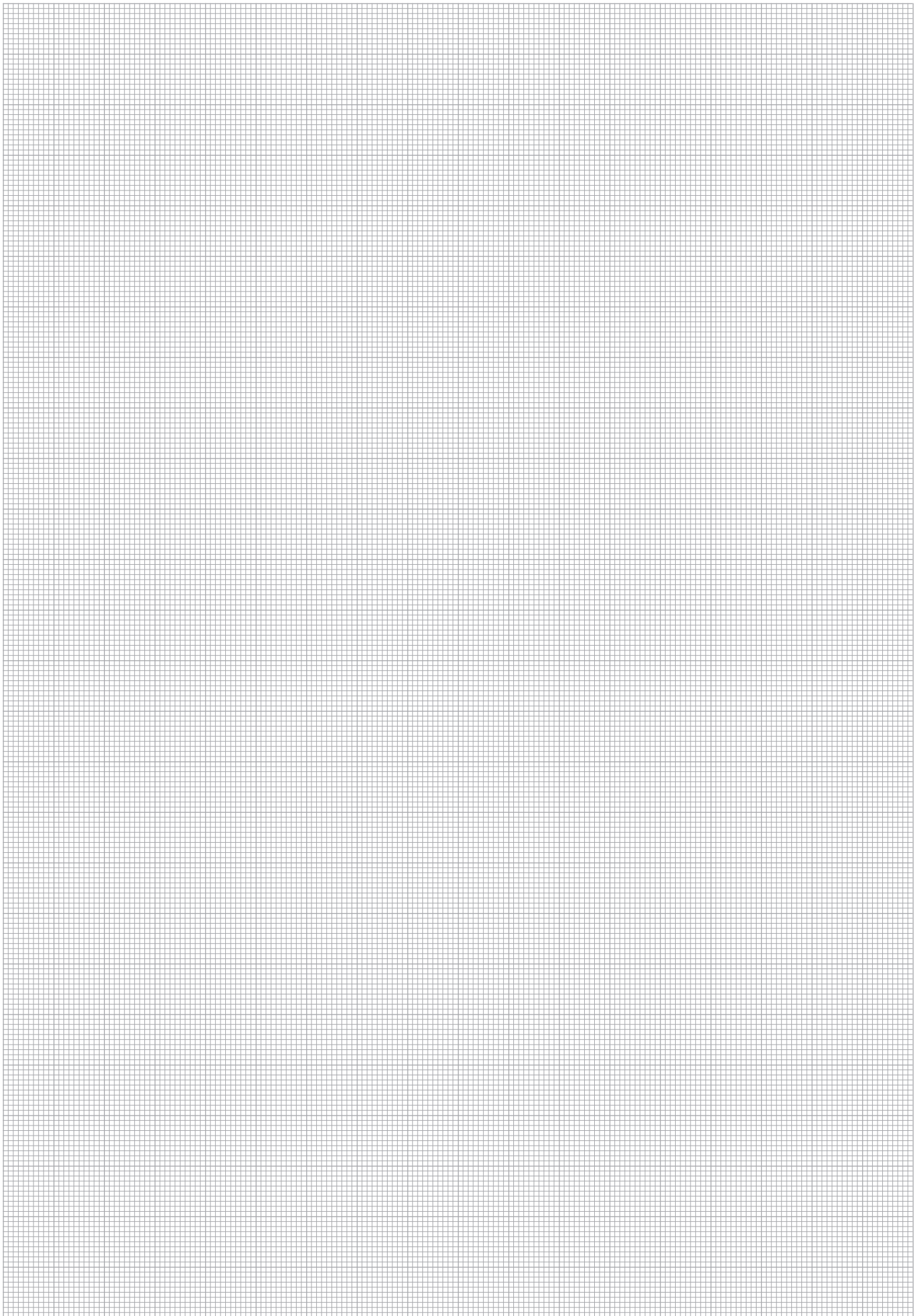
Hexagon Rail Nut (Type SM)

Channel Rail Adaptor (Type CRA)

Group	STAUFF	DIN	Quantity per Bag (in Pcs.)
1D		1	50
2D - 5D		2 - 5	25

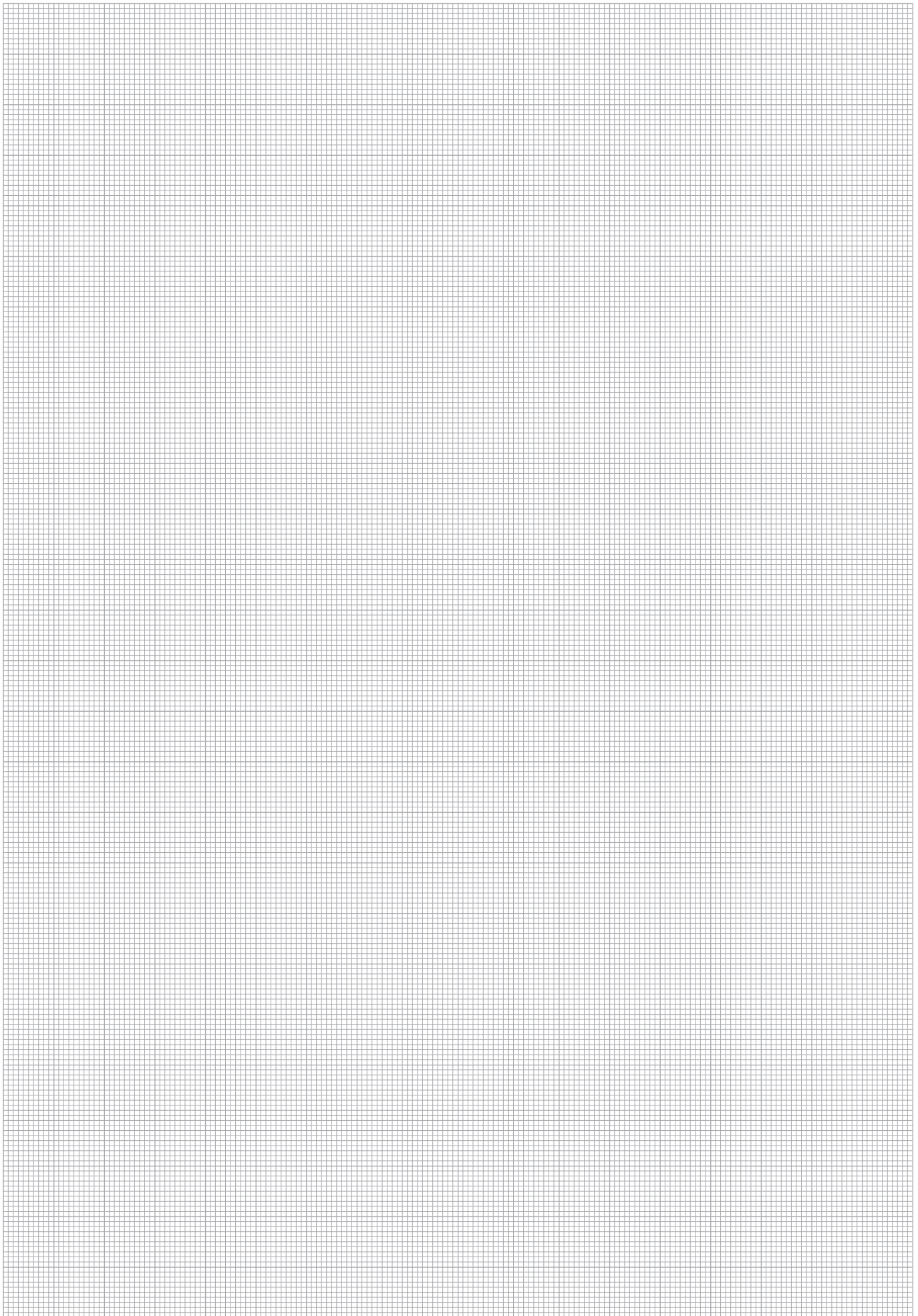
Contact STAUFF and ask for standard packaging units for further components or special packaging options.





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Product-Specific Abbreviations

Abbreviation	Product Category	Product Description	Page
ACT	STAUFF ACT Clamps	ACT Clamp Body, Standard Series	84
ACT	STAUFF ACT Clamps	ACT Clamp Body, Twin Series	94
AF	Standard Series	Stacking Bolt	31
AF	Heavy Series	Stacking Bolt	53
AF	Twin Series	Stacking Bolt	71
AF	Heavy Twin Series	Stacking Bolt	78
AF	Multi-Line Clamps	Stacking Bolt	120
AS	Standard Series	Hexagon Head Bolt	28
AS	Heavy Series	Hexagon Head Bolt	51
AS	Twin Series	Hexagon Head Bolt	68
AS	Heavy Twin Series	Hexagon Head Bolt	78
AS	Multi-Line Clamps	Hexagon Head Bolt	120
AS	Light Series	Hexagon Head Bolt	139
BSP	Standard Series	Bridge Weld Plate	22
CC	Standard Series	Clamp Body, Compact Design	19
CHC	Standard Series	Clamp Body for Conduit Hoses and Cable Inserts	18
Clamp Body	Standard Series	Clamp Body, Profiled Design	14
Clamp Body	Standard Series	Clamp Body, Type H	15
Clamp Body	Heavy Series	Clamp Body, Profiled Design	38
Clamp Body	Heavy Series	Clamp Body, Type H	40
Clamp Body	Twin Series	Clamp Body, Profiled Design	60
Clamp Body	Twin Series	Clamp Body, Type H	60
Clamp Body	Heavy Twin Series	Clamp Body, Profiled Design	76
CRA	Standard Series	Channel Rail Adaptor	26
CRA	Heavy Series	Channel Rail Adaptor	47
CRA	Twin Series	Channel Rail Adaptor	65
CRA	Heavy Twin Series	Channel Rail Adaptor	78
CRA	Multi-Line Clamps	Channel Rail Adaptor	123
DIT-SR6-SWG	STAUFF SWG: Stud Welding System	Distance Tube	109
DP	Standard Series	Cover Plate	28
DPAD	Heavy Twin Series	Cover Plate	77
DPAL	Heavy Series	Cover Plate for Single Clamps	50
DPAS	Heavy Series	Cover Plate for Double Clamps	50
DPL	Light Series	Cover Plate	143
DP-MLC	Multi-Line Clamps	Cover Plate	119
DSP	Standard Series	Twin Weld Plate	21
EP	Standard Series	Insert	30
ES	Standard Series	Insert	30
FB	Flat Steel and Round Steel U-Bolt Clamps	Flat Steel U-Bolt	150
GD	Twin Series	Cover Plate	68
GMV	Heavy Series	Mounting Rail Nut	46
GMV	Heavy Twin Series	Mounting Rail Nut	78
IS	Standard Series	Socket Cap Screw	30
IS	Heavy Series	Socket Cap Screw	51
IS	Twin Series	Socket Cap Screw	69
IS	Heavy Twin Series	Socket Cap Screw	78
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LB	Light Series	Clamp Body, Single Design	140
LBBU	Light Series	Clamp Body, Single Design	136
LBBU	Light Series	Clamp Body, Twin Design	137
LBBU-DP	Light Series	Cover Plate	139
LBBU-HUE	Light Series	Sleeve	138
LBBU-SP	Light Series	Weld Plate	138
LBG	Light Series	Clamp Body, Twin Design	141
LBU	Light Series	Clamp Body, Twin Design	141
LI	Standard Series	Slotted Head Screw	30
LN	Light Series	Clamp Body, Single Design	142
LNGF	Light Series	Clamp Body, Twin Design	143
LNUF	Light Series	Clamp Body, Twin Design	143
MGR	Standard Series	Clamp Body for Multi-Group Weld Plate	23
MLC	Multi-Line Clamps	Clamp Body (2 Lines) Multi-Line Clamps	114
MLC	Multi-Line Clamps	Clamp Body (3 Lines) Multi-Line Clamps	115
MLC	Multi-Line Clamps	Clamp Body (4 Lines) Multi-Line Clamps	116
MLC	Multi-Line Clamps	Clamp Body (6 Lines) Multi-Line Clamps	117
NRC	Standard Series	Noise Reduction Clamp	17
NRC	Heavy Series	Noise Reduction Clamp	43
RAP	Standard Series	Group Weld Plate	21
RAP	Twin Series	Group Weld Plate	62
RAP-MGR	Standard Series	Multi-Group Weld Plate	23
RB	Flat Steel and Round Steel U-Bolt Clamps	Round Steel U-Bolt	152
RB	Flat Steel and Round Steel U-Bolt Clamps	Round Steel U-Bolt	154
RBD	Flat Steel and Round Steel U-Bolt Clamps	Round Steel U-Bolt (DIN 3570, Type A)	156
RI	Standard Series	Clamp Body with Elastomer Insert	16
RI	Heavy Series	Clamp Body with Elastomer Insert	42
RI	Heavy Twin Series	Clamp Body with Elastomer Insert	76
RUk	Flat Steel and Round Steel U-Bolt Clamps	Plastic Pipe Saddle (Short) for Flat Steel U-Bolt	151
RUk	Flat Steel and Round Steel U-Bolt Clamps	Plastic Pipe Saddle (Short) for Round Steel U-Bolt	153



Product-Specific Abbreviations

Abbreviation	Product Category	Product Description	Page
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SI	Twin Series	Safety Locking Plate	70
SI (DIN 463)	Standard Series	Safety Washer (DIN 463)	29
SI (DIN 463)	Heavy Series	Safety Washer (DIN 463)	52
SI (DIN 93)	Standard Series	Safety Washer (DIN 93)	29
SI (DIN 93)	Heavy Series	Safety Washer (DIN 93)	52
SIG	Standard Series	Safety Locking Plate	31
SIG	Multi-Line Clamps	Safety Locking Plate	121
SIP	Heavy Series	Safety Locking Plate	53
SIPD	Heavy Twin Series	Safety Locking Plate	78
SIV	Twin Series	Safety Locking Plate	70
SM	Standard Series	Hexagon Rail Nut	24
SM	Twin Series	Hexagon Rail Nut	63
SM	Multi-Line Clamps	Hexagon Rail Nut	122
SP	Standard Series	Single Weld Plate	20
SP	Twin Series	Single Weld Plate	61
SPAD	Heavy Twin Series	Weld Plate	77
SPAL	Heavy Series	Weld Plate for Single Clamps	44
SPAL-DUEB	Heavy Series	Elongated Weld Plate for Single Clamps	45
SPAS	Heavy Series	Weld Plate for Double Clamps	44
SPAS-DUEB	Heavy Series	Elongated Weld Plate for Double Clamps	45
SP-MLC	Multi-Line Clamps	Single Weld Plate	118
SPV	Standard Series	Elongated Weld Plate	20
SPV	Twin Series	Elongated Weld Plate	61
STSV	Heavy Series	Mounting Rail	46
STSV	Heavy Twin Series	Mounting Rail	78
SWG-AGS	STAUFF SWG: Stud Welding System	Distance Adaptor	109
SWG-CTH-11-M6	STAUFF SWG: Stud Welding System	Cable Tie Holder	107
SWG-CTH-30-M6-1	STAUFF SWG: Stud Welding System	Cable Tie / Tension Belt Holder	107
SWG-CTH-30-M6-2	STAUFF SWG: Stud Welding System	Cable Tie / Tension Belt Holder	107
SWG-DIP	STAUFF SWG: Stud Welding System	Distance Plate for DIN 3015 Clamps	107
SWG-GC	STAUFF SWG: Stud Welding System	Ground Cable	109
SWG-MRA	Standard Series	Fastening Adaptor	25
SWG-MRA	Twin Series	Fastening Adaptor	64
SWG-SF	STAUFF SWG: Stud Welding System	Weld Stud with Female Thread	106
SWG-SR6	STAUFF SWG: Stud Welding System	Stud Retainer	109
SWG-WG	STAUFF SWG: Stud Welding System	Weld Inverter	108
SWG-WI06	STAUFF SWG: Stud Welding System	Weld Inverter	108
TS	Standard Series	Mounting Rail	24
TS	Twin Series	Mounting Rail	63
TS	Multi-Line Clamps	Mounting Rail	122
VK	Standard Series	Clamp Body, Rectangular Design	19
WSP	Standard Series	Angled Weld Plate	22
ZR-518	Saddle / Piggyback Clamps	Saddle / Piggyback Clamps	146
DIN 3567-A	Metal DIN Clamps	Metal Pipe Clamp with Tension Clearance Two-Bolt Design	160
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DIN 1597	Metal DIN Clamps	Light Saddle with Tension Clearance Two-Bolt Design	165
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SRF	Other Types of Clamps	Pipe / Tube Bushing	175
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Global Contact Directory

STAUFF products and services are globally available through wholly-owned subsidiaries and a tight network of authorised distributors and representatives in all major industrial regions of the world.

Contact information on this page may be subject to changes and additions over time. Frequently updated and complete contact information can always be found at www.stauff.com.

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United Kingdom

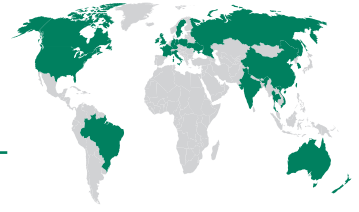
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Introduction

Standard Series according to DIN 3015, Part 1

Heavy Series according to DIN 3015, Part 2

Twin Series according to DIN 3015, Part 3

Heavy Twin Series

STAUFF ACT Clamps: Anti-Corrosion Technology

STAUFF SWG: Stud Welding System

STAUFF Bond: Adhesive Bonded Fastening

Custom-Designed Special Clamps

Light Series

Saddle / Piggyback Clamps

Flat Steel and Round Steel U-Bolt Clamps

Metal DIN Clamps

Construction Series

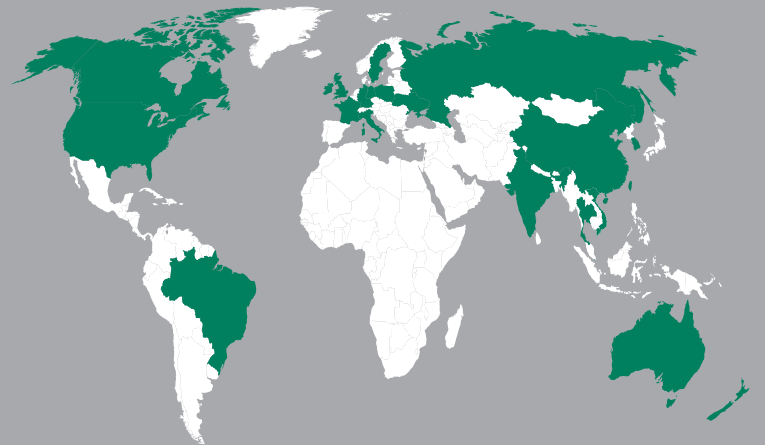
Other Types of Clamps

Technical Appendix

Appendix



Catalogue 1 STAUFF Clamps



Germany

Walter Stauffenberg GmbH & Co. KG
Im Ehrenfeld 4
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STAUFF products and services are globally available through wholly-owned subsidiaries and a tight network of authorised distributors and representatives in all major industrial regions of the world.

Contact STAUFF:

www.stauff.com/contact



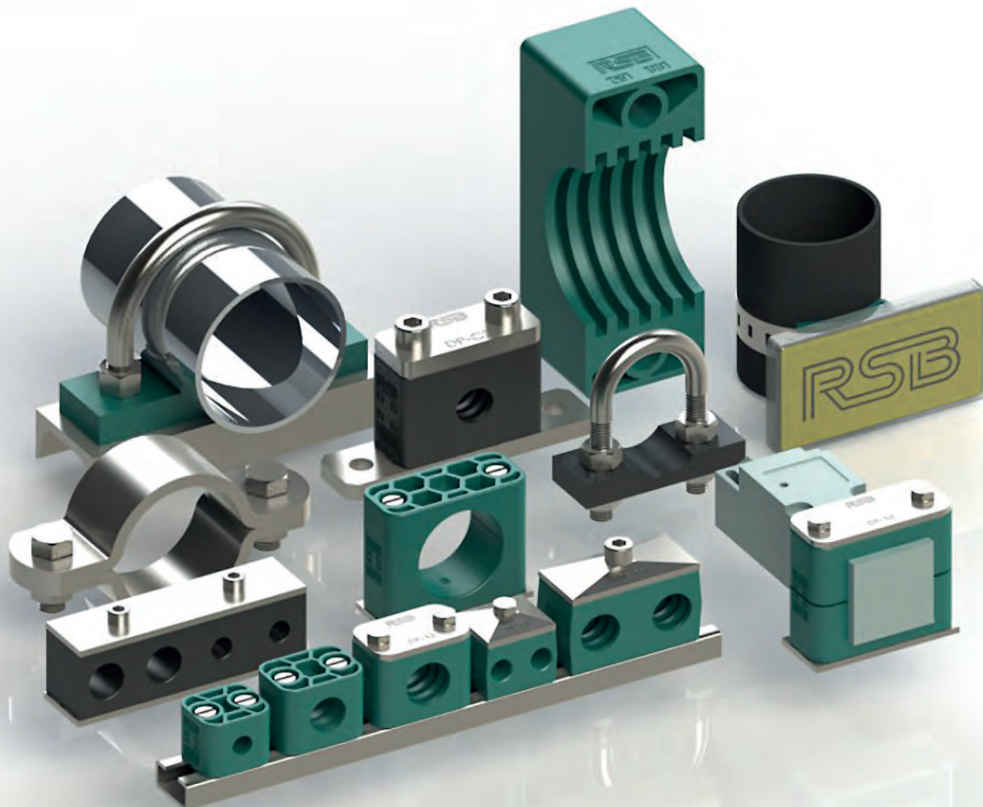
DIE NEUE DIMENSION DER BEFESTIGUNGSTECHNIK

// ROHRSCHELLEN

BEFESTIGUNGSSYSTEME

// TUBE CLAMPS

FASTENING SYSTEMS



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Tube clamps acc. to DIN 3015
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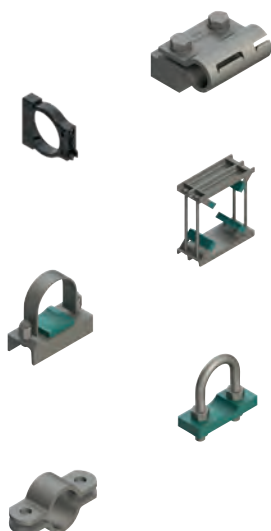
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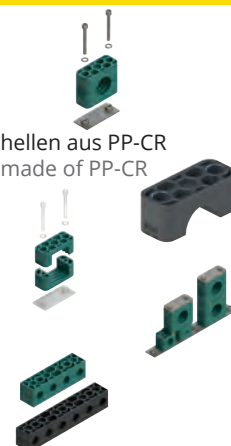
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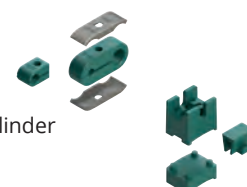
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// AUSFÜHRUNGEN

// TYPES

Ausführung der Schellenkörper

Als Werkstoff für Schellenkörper sind ab Lager lieferbar:

- Polypropylen (Farbe dunkelgrün)
- Polyamid 6 (Farbe schwarz)
- TPE (Farbe schwarz)
- Aluminium

Die oberen und unteren Schellenhälften sind identisch. Die Innenseite der Schellen ist mit Rippen oder in glatter Ausführung lieferbar.

Rippen in der Innenfläche der Schellen wirken schlag- und vibrationsdämmend und nehmen Kräfte in Rohrachrichtung auf. Ein Spalt zwischen den Hälften bewirkt die Vorspannung des Rohres.

Für die Halterung von Schläuchen und Kabeln wird die Verwendung von Schellen mit glatter Innenfläche ohne Vorspannung empfohlen. Das Spaltmaß s_1 entfällt. Dadurch reduziert sich die Blockhöhe h_1 .

Types of clamp bodies

The clamp bodies are available in these materials ex store:

- Polypropylene (dark green colour)
- Polyamide 6 (black colour)
- TPE (black colour)
- Aluminium

Upper and lower clamp halves are identical.

The inside of the clamp is available with or without grooves.

Grooves on the inside of the clamps have a vibration and impact reducing effect and absorb force towards the direction of the tube axis.

A spacing between both halves produces the prestress of the tube.

For the support of hoses and cables, we recommend to use clamps with an even inside without prestress. The spacing measure s_1 is not required. Thus, the block height h_1 is reduced.



Ausführung der Metallteile

Bei Serie A und B sind standardmäßig Schrauben, Schienenmutter und Deckplatten Chrom VI-frei verzinkt, Anschweißplatten phosphatiert, Tragschienen blank.

Bei Serie C sind standardmäßig alle Metallteile blank und phosphatiert.

Sämtliche Metallteile der einzelnen Baureihen sind in Edelstahlqualität W5 (AISI 316), ab Lager lieferbar.

Vom Standard abweichende Oberflächenbehandlung liefern wir auf Anfrage.

UNC-Gewinde sind auf Anfrage lieferbar.

Types of metal parts

As a regular feature of series A and B clamps, screws, rail nuts and cover plates are chromium VI free zinc coated, welding plates phosphatized and mounting rails uncoated.

As a regular feature of series C clamps, all metal parts are uncoated and phosphatized.

All metal parts of the different construction series are available ex stock in stainless steel type W5 (AISI 316).

Other surface treatments are available upon request.

UNC-threads are available upon request.

Metrisches Gewinde Metric thread	entsprechendes UNC-Gewinde corresponding UNC-thread
M 6	1/4 - 20 UNC
M 8	5/16 - 18 UNC
M 10	3/8 - 16 UNC
M 12	7/16 - 14 UNC
M 16	5/8 - 11 UNC
M 20	3/4 - 10 UNC
M 24	7/8 - 9 UNC
M 30	1 1/8 - 7 UNC

// FESTIGKEITSKLASSEN

// STRENGTH CLASSES

Schraubenart Type of screw	Werkstoff Material	Festigkeitsklasse Strength class
Schlitzschraube SL Slotted head screw SL	Stahl / Steel	4.8 (nach DIN EN ISO 898-1)
	A2	A2-70 (nach DIN EN ISO 3506-1)
	A4	A4-70 (nach DIN EN ISO 3506-1)
Sechskantschraube SSL/SS Hexagon head screw SSL/SS	Stahl / Steel	8.8 (nach DIN EN ISO 898-1)
	A2	A2-70 (nach DIN EN ISO 3506-1)
	A4	A4-70 (nach DIN EN ISO 3506-1)
Innensechskantschraube IS Hexagon socket head screw IS	Stahl / Steel	8.8 (nach DIN EN ISO 898-1)
	A2	A2-70 (nach DIN EN ISO 3506-1)
	A4	A4-70 (nach DIN EN ISO 3506-1)

// BESTELLZEICHEN

In die Bestellzeichen für RSB-Schellenhälften sowie für komplette Rohrschellen ist die Serienbezeichnung, die Werkstoffbezeichnung und die Form der Innenfläche eingearbeitet.

Bezeichnungsbeispiel:

Schellenkörper

R A N G M - 3 20 / F

R	A	N	G	M	-	3	20	/	F
				Merkmale F = flammgeschützt CR = korrosionshemmend z.B. Sh64° = 64°Shore					
				Durchmesser					
				Schellengröße					
				Variante M = Multi, E = Schalldämmeinlage, S = Viereckig (Sensor), A = Abweichend vom Standard					
				Innenfläche R = Rippen, G = Glatt, E = für Einsatz geeignet, A = Abweichend vom Standard					
				Werkstoff P = Polypropylen, N = Polyamid, V = TPE, A = Aluminium, X = Edelstahl					
				Serie A = Leichtbaureihe, B = Zweirohrschelle, C = Schwere Baureihe, O = Rohrschelle Serie O					
Rohrschelle / Schellenkörper									

// Vollgummi bei Serie A und B, glatte Innenfläche
 // Aluminium bei Serie A Größe 0 bis 6 und Serie C Größe 1 bis 8
 // Glatte Innenfläche bei Serie C bis Größe 8, Schellen aus Aluminium mit Rippen (R), Glatte Innenfläche bei Serie A Größe 1 bis 8

Zubehör / Metallteile

AP K Z1 - A 3 / CRVIF

AP	K	Z1	-	A	3	/	CRVIF
				Merkmale Zn = verzinkt; CRVIF = chrom VI frei; Phos = phosphatiert; /1.4571 = Edelstahl / Schrauben Mat. A4; /1.4301 = Edelstahl / Schrauben Mat. A2; AL = Aluminium; UNC = UNC-Gewinde			
				Baugröße oder abweichende Maße (z.B. Schrauben)			
				Serie A = Leichtbaureihe, B = Zweirohrschelle, C = Schwere Baureihe, O = Rohrschelle Serie O			
				Ausführung Z1, Z2, Z3			
				Variante D = Doppelt, R = Reihe, W = Winkel, M = Multi, K = Kurz, L = Lang/Verlängert			
				Bezeichnung AP = Anschweißplatte, DP = Deckplatte, TS = Tragschiene, SB = Sicherungsblech, TM = Tragschienenmutter, TM-A/B = Visitec Tragschienenmutter, US = Sicherungsscheibe, SP = Sicherungsplatte, SL = Schlitzschraube, SSL/SS = Sechskantschraube, IS = Innensechskantschraube, AS = Aufbauschraube, SBR = Sicherungsblech			

Zulassungen

DNV-GL, Lloyd's Register of Shipping, Bureau Veritas, ABS (American Bureau of shipping)

// ORDER CODES

The order codes for RSB clamp-halves as well as for complete tube clamps incorporate the serial indication, material description and interior surface.

Example of description:

Clamp bodies

R A N G M - 3 20 / F

R	A	N	G	M	-	3	20	/	F
				Features F = Flame-protected CR = corrosion retardant e.g. Sh64° = 64°Shore					
				Diameter					
				Clamp size					
				Version M = Multi, E = Noise protection insert, S = Square (Sensor), A = Different from the standard					
				Interior surface R = Grooved, G = Smooth, E = Suitable for insert, A = Different from the standard					
				Material P = Polypropylene, N = Polyamide, V = TPE, A = Aluminium, X = Stainless steel					
				Series A = Light construction series, B = Twin-tube series, C = Heavy duty series, O = Tube clamps series O					
Tube clamp									

// Rubber for series A and B, inside smooth
 // Aluminium for series A size 0 to 6 and series C size 1 to 8
 // Smooth interior surface in series C to size 8, Aluminium clamps in a grooved design (R), Inside smooth series A size 1 to 8

Accessories / metal parts

AP K Z1 - A 3 / CRVIF

AP	K	Z1	-	A	3	/	CRVIF
				Features Zn = zinc plated; CRVIF = chromium VI free; Phos = phosphated; /1.4571 = stainless steel / screws Mat. A4; /1.4301 = stainless steel / screws Mat. A2; AL = Aluminium; UNC = UNC thread			
				Size or different measure (e.g. screws)			
				Series A = Light construction series, B = Twin-tube series, C = Heavy duty series, O = Tube clamps series O			
				Version Z1, Z2, Z3			
				Types D = double, R = multiple, W = angle, M = multi, K = short, L = long/elongated			
				Name AP = Weld plate, DP = Cover plate, TS = Mounting rail, SB = Locking plate, TM = Rail nut, TM-A/B = Visitec rail nut, US = Locking washer, SP = Locking plate, SL = Slotted head screw, SSL/SS = Hexagon head screw, IS = Hexagon socket head screw, AS = Stacking bolt, SBR = Locking plate			

Registration

DNV-GL, Lloyd's Register of Shipping, Bureau Veritas, ABS (American Bureau of shipping)

// WERKSTOFFEIGENSCHAFTEN // MATERIAL PROPERTIES

MECHANISCHE EIGENSCHAFTEN MECHANICAL PROPERTIES	<i>Polypropylen</i> <i>Polypropylene (PP)</i>	<i>Polyamid</i> <i>Polyamide (PA 6)</i>	<i>Aluminium</i> <i>Aluminium (Al)</i>	<i>Thermoplastisches Elastomer</i> <i>Thermoplastic elastomer</i>
Dichte / Density	0,90 g/cm ³	1,10 g/cm ³	2,65 g/cm ³	0,97 g/cm ³
Kerbschlagzähigkeit nach Charpy bei 23 °C Impact value at 23 °C	7 kJ/m ² (ISO 179/1eA)	8 kJ/mm ² (ISO 179/1eA)		
Kerbschlagzähigkeit nach Charpy bei -20 °C Impact value at -20 °C	3 kJ/m ² (ISO 179/1eA)			
E-Modul (Zug) Modulus of elasticity	1.400 N/mm ² (ISO 527)	2.000 N/mm ² (ISO 527)	72.000 N/mm ²	
Streckspannung bzw. Zugfestigkeit (Rm) Yield stress resp. tensile strength (Rm)	28 N/mm ² (ISO 527)	50 N/mm ² (ISO 527)	>240 N/mm ²	5,2 ... 8,8 N/mm ² (ASTM D412)

THERMISCHE EIGENSCHAFTEN THERMAL PROPERTIES	<i>Polypropylen</i> <i>Polypropylene (PP)</i>	<i>Polyamid</i> <i>Polyamide (PA 6)</i>	<i>Aluminium</i> <i>Aluminium (Al)</i>	<i>Thermoplastisches Elastomer</i> <i>Thermoplastic elastomer</i>
Temperaturbeständigkeit / Temperature resistance	-30 ... +90°C	-40 ... +120°C	-40 ... +300°C	-50 ... +120°C

CHEMISCHE EIGENSCHAFTEN CHEMICAL PROPERTIES	<i>Polypropylen</i> <i>Polypropylene (PP)</i>	<i>Polyamid</i> <i>Polyamide (PA 6)</i>	<i>Aluminium</i> <i>Aluminium (Al)</i>	<i>Thermoplastisches Elastomer</i> <i>Thermoplastic elastomer</i>
Säuren / Weak acids	bedingt beständig limited resistant	bedingt beständig limited resistant	bedingt beständig limited resistant	beständig resistant
Laugen / Weak alkalis	bedingt beständig limited resistant	bedingt beständig limited resistant	bedingt beständig limited resistant	beständig resistant
Alkohole / Alcohol	beständig resistant	beständig resistant	beständig resistant	beständig resistant
Benzin / Petrol	bedingt beständig limited resistant	beständig resistant	beständig resistant	bedingt beständig limited resistant
Mineral-Öl / Mineral oils	bedingt beständig limited resistant	beständig resistant	beständig resistant	beständig resistant
Sonstiges Öl / Other oils	beständig resistant	beständig resistant	beständig resistant	beständig resistant

Die genannten Daten sind Durchschnittswerte und gelten nur als unverbindliche Hinweise, auch in Bezug auf etwaige Schutzrechte Dritter, und befreien Sie nicht von der eigenen Prüfung der von uns gelieferten Produkte auf ihre Eignung.

Diese Werte können nur bedingt zu Konstruktionszwecken verwendet werden.

Die Anwendung der Produkte erfolgt außerhalb unserer Kontrollmöglichkeiten und liegt daher ausschließlich in Ihrem Verantwortungsbereich. Sollte dennoch eine Haftung in Frage kommen, so ist dies für alle Schäden auf den Wert der von uns gelieferten und von Ihnen eingesetzten Ware begrenzt.

Selbstverständlich gewährleisten wir die einwandfreie Qualität unserer Produkte nach Maßgabe unserer Allgemeinen Verkaufs- und Lieferbedingungen.

The outlined particulars are approximate values and are only valid as references, which are not binding, also with regard to possible protection of third parties, and they do not exempt you from your own examination of suitability of the products delivered by us.

Therefore, these values can only be used in a limited sense for construction purposes.

The application of the products is carried out outside our control, and therefore, is exclusively subject to your own area of responsibility. If, however, liability should be possible, it would be limited for all damages to the value of the goods supplied by us and in use by you.

It goes without saying, that we guarantee the perfect quality of our products according to our general sales and delivery conditions.

// VORBEUGENDER BRANDSCHUTZ

// PREVENTIVE FIRE PROTECTION

<i>Material:</i> <i>Material:</i>		PA66-F
EN 45545-2		
T01 EN ISO 4589-2:	Sauerstoffgehalt Oxygen Index	OI = 35,5 %
T10.03 EN ISO 5659-2:	25 kW/m ²	D ₅ max. = 124
T12 NF X 70 100-1 & -2:	600 °C	CIT _{NLP} = 0,51
Erfüllung des Anforderungssatzes R22 für die Gefährdungsstufe: Compliance of the requirement set R22 for the hazard level:		HL1 – HL2 – HL3
Erfüllung des Anforderungssatzes R23 für die Gefährdungsstufe: Compliance of the requirement set R23 for the hazard level:		HL1 – HL2 – HL3
Erfüllung des Anforderungssatzes R24 für die Gefährdungsstufe: Compliance of the requirement set R24 for the hazard level:		HL1 – HL2 – HL3
Erfüllung des Anforderungssatzes R26 für die Gefährdungsstufe: Compliance of the requirement set R26 for the hazard level:		HL1 – HL2 – HL3

<i>Material:</i> <i>Material:</i>		PP-F
EN 45545-2		
T01 EN ISO 4589-2:	Sauerstoffgehalt Oxygen Index	OI = 38,7 %
T10.03 EN ISO 5659-2:	25 kW/m ²	D ₅ max. = 48
T12.NF X 70 100-1 & -2:	600 °C	CIT _{NLP} = 0,15
Erfüllung des Anforderungssatzes R22 für die Gefährdungsstufe: Compliance of the requirement set R22 for the hazard level:		HL1 – HL2 – HL3
Erfüllung des Anforderungssatzes R23 für die Gefährdungsstufe: Compliance of the requirement set R23 for the hazard level:		HL1 – HL2 – HL3
Erfüllung des Anforderungssatzes R24 für die Gefährdungsstufe: Compliance of the requirement set R24 for the hazard level:		HL1 – HL2 – HL3
Erfüllung des Anforderungssatzes R26 für die Gefährdungsstufe: Compliance of the requirement set R26 for the hazard level:		HL1 – HL2 – HL3

Weitere Brandschutzprüfungen auf Anfrage.
 Further fire safety tests on request.

<i>Material:</i> <i>Material:</i>		TPE-F
EN 45545-2		
T01 EN ISO 4589-2	Sauerstoffgehalt Oxygen Index	OI = 33,4%
T10.03 EN ISO 5659-2:	25 kW/m ²	D _s max. = 79
T12 NF X 70 100-1 & -2:	600 °C	CIT _{NLP} = 0,15
Erfüllung des Anforderungssatzes R22 für die Gefährdungsstufe: Compliance of the requirement set R22 for the hazard level:		HL1 - HL2 - HL3
Erfüllung des Anforderungssatzes R23 für die Gefährdungsstufe: Compliance of the requirement set R23 for the hazard level:		HL1 - HL2 - HL3
Erfüllung des Anforderungssatzes R24 für die Gefährdungsstufe: Compliance of the requirement set R24 for the hazard level:		HL1 - HL2 - HL3
Erfüllung des Anforderungssatzes R26 für die Gefährdungsstufe: Compliance of the requirement set R26 for the hazard level:		HL1 - HL2 - HL3

SCHIFFSBAU UND OFFSHORE LÖSUNGEN

KORROSIONSHEMMEND UND SCHALLDÄMMEND | NACH DIN 3015

SHIPBUILDING AND OFFSHORE SOLUTIONS

CORROSION-INHIBITING AND SOUND-ABSORBING | IN ACCORDANCE WITH DIN 3015

DIE LÖSUNG FÜR SCHIFFSBAU UND OFFSHORE

- Vibrationsdämmung und Körperschall-entkopplung im System
- Korrosionsschutz getestet gemäß DIN EN ISO 9227
- Längere Standzeiten
- Höhere Wartungsintervalle
- Längere Lebensdauer der Rohre und Hydraulikleitungen

THE SHIPBUILDING AND OFFSHORE SOLUTION

- Systematic vibration insulation and structure-borne sound insulation
- Certified corrosion inhibitor in line with DIN EN ISO 9227
- Longer service life
- Increased maintenance intervals
- Greater durability of tubes and hydraulic lines

IN DER NORM KONFORM ZULASSUNGEN

- DNV-GL
- ABS (American Bureau of shipping)
- Bureau Veritas
- Lloyd's Register of Shipping

STANDARDS COMPLIANCE APPROVALS

- DNV-GL
- ABS (American Bureau of shipping)
- Bureau Veritas
- Lloyd's Register of Shipping

PRODUKTE PRODUCTS



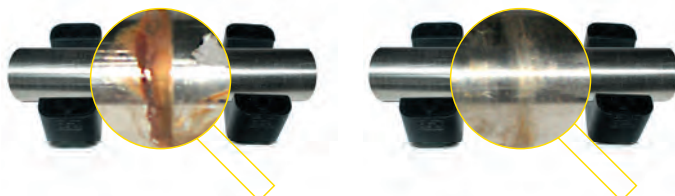
- | | |
|---------------------------------------|---|
| 1. Rohrschellen mit Schalldämmeinlage | 1. Tube clamps with noise protection insert |
| 2. Rohrschellen Serie 2+5 | 2. Tube clamps series 2+5 |
| 3. PP-CR®-Schelle | 3. PP-CR® tube clamp |
| 4. Rundstahlbügel | 4. U-bolt |

DER KORROSIONSHEMMER ROHRSCHELLEN AUS PP-CR®

EDELSTAHLROHR (1.4571) NACH 4500 STD. SALZSPRÜHNEBELTEST

THE CORROSION INHIBITOR TUBE CLAMPS MADE FROM PP-CR®

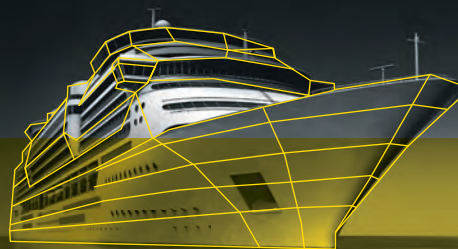
STAINLESS STEEL TUBE (1.4571) AFTER 4,500 HOURS SALT SPRAY TEST



Resultat mit
Standard-Polypropylen
Result with
standard polypropylene

Resultat mit PP-CR®
Result with PP -CR®

SICHERHEIT MIT SYSTEM!



FLAMMGESCHÜTZTE ROHRSCHELLEN

FÜR ERHÖHTE SICHERHEIT VON SCHIENEN-
FAHRZEUGEN | NACH DIN 3015

FLAME PROTECTED TUBE CLAMPS

FOR IMPROVED RAILWAY VEHICLE SAFETY | IN ACCORDANCE WITH DIN 3015

DIE VORTEILE

- Mehr Sicherheit für Schienenfahrzeuge
- Flammgeschützt nach EN 45545-2, UL 94
- System 2+5. Nur 2 Baugrößen für die Rohrdurchmesser 6 – 42 mm
- Platten und Schienen in Stahl und Edelstahl

IN DER NORM KONFORM

FLAMMGESCHÜTZTE ROHRSCHELLEN
NACH DIN 3015 GEPRÜFT GEMÄSS

- EN 45545-2
- UL 94

MIT SYSTEM FÜR HÖHERE SICHERHEIT!

Das bekannte Rohrschellen-Programm von RSB® ist jetzt durch die flammgeschützte Ausführung die ideale Lösung für den Transport- und Railway-Markt. Das bedeutet mehr Sicherheit und Effizienz für Schienenfahrzeuge.

THE ADVANTAGES

- Improved railway vehicle safety
- Flame protected in accordance with EN 45545-2, UL 94
- 2+5 system. Only 2 sizes for tube diameters 6 – 42 mm
- Plates and rails in steel and stainless steel

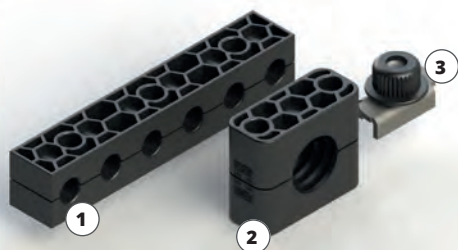
STANDARDS COMPLIANCE

FLAME PROTECTED TUBE CLAMPS
DIN 3015 CERTIFICATION IN LINE WITH

- EN 45545-2
- UL 94

SYSTEMATIC FOR IMPROVED SAFETY!

The well-known tube clamp range from RSB® has just got bigger. Now available as a flame protected version, it is the ideal solution for the transport and railway market. This means improved safety and efficiency for rail vehicles.



PRODUKTE PRODUCTS

1. Multischelle Serie A
2. Rohrschelle Serie A
3. Visitec

1. Multiclamp series A
2. Tube clamp series A
3. Visitec

SICHERHEIT MIT SYSTEM!



// MONTAGE

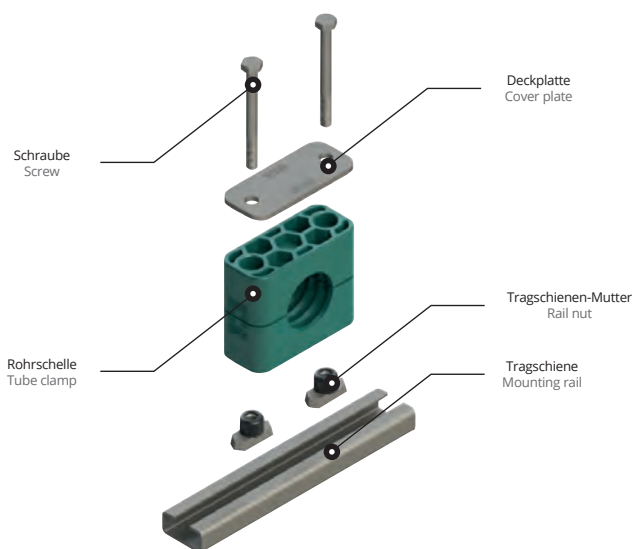
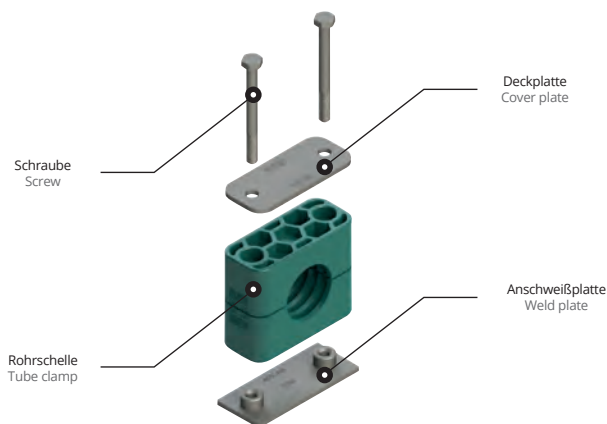
// ASSEMBLY INSTRUCTION

Montage auf Anschweißplatten

Anschweißplatten auf einer mit der Belastung abgestimmten Unterlage anschweißen. Hierbei ist auf die Ausrichtung der Schelle zu achten. Untere Schellenhälfte auf Anschweißplatte klemmen, Rohr einlegen, zweite Schellenhälfte aufsetzen und mit den Schrauben festziehen. Auf Vorspannung achten (Schellenhälften dürfen sich nach der Montage nicht berühren)! Nicht mit aufgesetzter Kunststoff-Schelle schweißen! Verlängerte Anschweißplatten können mit der Unterlage verschraubt werden.

Assembly on metal welding plates

Place welding plates on a base appropriate for the load. Make sure that the clamps are properly aligned. Clamp lower clamp half onto welding plate, insert tube, place upper clamp half onto lower half and fasten with the screws. Attention must be paid to the prestress (after completed assembly, clamp halves must not be in contact)! Do not weld with fitted plastic clamp! Extended welding plates may be screwfastened to the base.



Montage auf Tragschienen

Tragschienen sind in vier unterschiedlichen Höhen verfügbar und werden wahlweise in Stücken zu 1 oder 2 m geliefert. Tragschiene anschweißen oder mit Befestigungswinkel anschrauben. Tragschienenmutter in Schiene einführen und bis zum Anschlag drehen. Bei schwerer Baureihe nur einschieben. Untere Schellenhälfte auf Tragschienenmutter aufkleben, Rohr einlegen, zweite Schellenhälfte aufsetzen und mit den Schrauben festziehen. Vor dem Festziehen der Schrauben ist eine Positionierung der Schelle möglich. Auf Vorspannung achten (Schellenhälften dürfen sich nach Montage nicht berühren)!

Assembly on mounting rails

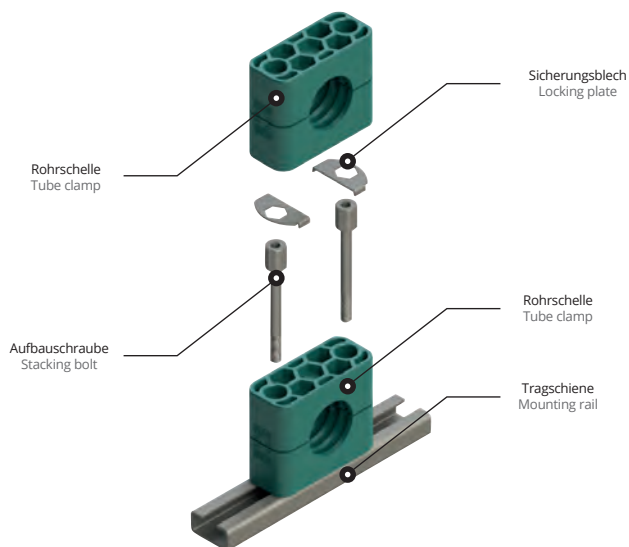
Mounting rails are available in four different heights and come in pieces of 1m or 2 m length, as required. Weld on mounting rail or screw-fasten with fastening angle bracket. Insert mounting rail nuts in rail and turn until stop. For heavy duty construction series, nuts are simply pushed in. Clamp lower clamp half on mounting rail nuts, insert tube, place upper clamp half onto lower half and fasten with the screws. Attention must be paid to the prestress (after completed assembly, the clamp halves must not be in contact)!

Aufbaumontage

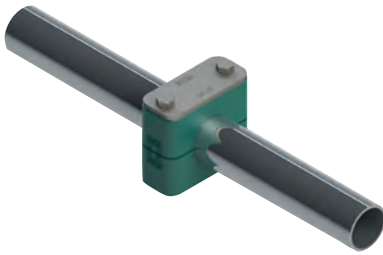
RSB-Schellen erlauben die Montage mehrerer Schellen gleicher Baugröße, auch unterschiedlicher Rohrdurchmesser übereinander. Die Aufbaumontage erfolgt durch spezielle Aufbauschrauben, die durch Sicherungsplatten gegen Verdrehen gesichert werden. Untere Schellenhälfte auf Anschweißplatte oder Tragschiene aufkleben, Rohr einlegen, obere Schellenhälfte aufsetzen und mit Aufbauschrauben festziehen. Die Aufbauschraube ragt über die obere Schellenhälfte hinaus. Durch Auflegen eines Sicherungsbleches wird ein Verdrehen der Aufbauschraube verhindert. Zweite Rohrschelle auf die Aufbauschrauben aufkleben u.s.w.

Stacking assembly

RSB-Clamps allow the assembly of multiple clamps of the same construction size and of different tube diameters one above the other. The construction assembly is carried out with special fixing screws that are secured against twisting by applying a locking plate. Clamp lower clamp half on welding plate or mounting rail respectively, insert tube, place upper clamp half on lower half and fasten with fixing screws. The fixing screw juts out from the upper clamp half. The application of a locking plate securely fastens the fixing screw and prevents twisting. Clamp on second clamp half on to the fixing screws etc.



// SCHRAUBENZUGSMOMENTE UND AXIALE ROHRHALTEKRÄFTE // SCREW TIGHTENING TORQUE AND AXIAL PIPE SHEARING FORCES



Die angegebenen Schraubenanzugsmomente und axialen Rohthaltekräfte beziehen sich auf Montage mit Anschweißplatten, Deckplatten und Außensechskantschrauben nach ISO 4014/4017 (DIN 931/933). Die axiale Rohthaltekraft (gemäß DIN 3015 Teil 10) ist ein Mittelwert, ermittelt aus drei Versuchen bei 23°C mit einem Stahlrohr nach DIN 2448 aus St 37, bei dem Haftreibung vorausgesetzt wird. Bei Belastung der RSB-Schelle in axialer Rohrrichtung mit der angegebenen Prüfkraft (F) gleitet das Rohr in der Schelle nicht.

The indicated screw tightening torque and axial pipe shearing forces refer to the assembly with weld plates, cover plates and hexagon head bolts according to ISO 4014/4017 (DIN 931/933). The axial pipe shearing force (according to DIN 3015, part 10) is an average value, determined by three tests made with a steel pipe according to DIN 2448 of St 37, for which static friction is presupposed (temperature during tests: 23°C). When loading the RSB clamp with the indicated test force (F) in axial pipe direction, the pipe does not slide in the clamp.

Leichte Baureihe (DIN 3015, Teil 1) / Light series (DIN 3015, part 1)

GRÖSSE SIZE	Befestigungs- schraube Fixing screw ISO 4014/4017 (DIN 931/933)	Polypropylen / Polypropylene		Polyamid / Polyamide		Aluminium / Aluminium	
		Schraubenanzugs- moment (Nm) Screw tightening torque (Nm)	Rohrhaltekraft F (kN) Pipe shearing force F (kN)	Schraubenanzugs- moment (Nm) Screw tightening torque (Nm)	Rohrhaltekraft F (kN) Pipe shearing force F (kN)	Schraubenanzugs- moment (Nm) Screw tightening torque (Nm)	Rohrhaltekraft F (kN) Pipe shearing force F (kN)
0	M 6	8	0,6	10	0,6		
1		8	1,1	10	0,7	12	4,2
2		8	1,2	10	0,8	12	4,3
3		8	1,4	10	1,6	12	4,8
4		8	1,5	10	1,7	12	5,0
5		8	1,9	10	2,0	12	7,3
6		8	2,0	10	2,5	12	8,9

Schwere Baureihe (DIN 3015, Teil 2) / Heavy series (DIN 3015, part 2)

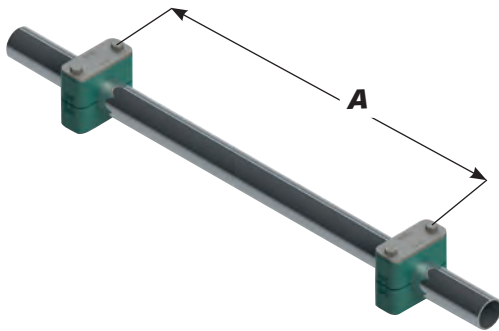
GRÖSSE SIZE	Befestigungs- schraube Fixing screw ISO 4014/4017 (DIN 931/933)	Polypropylen / Polypropylene		Polyamid / Polyamide		Aluminium / Aluminium	
		Schraubenanzugs- moment (Nm) Screw tightening torque (Nm)	Rohrhaltekraft F (kN) Pipe shearing force F (kN)	Schraubenanzugs- moment (Nm) Screw tightening torque (Nm)	Rohrhaltekraft F (kN) Pipe shearing force F (kN)	Schraubenanzugs- moment (Nm) Screw tightening torque (Nm)	Rohrhaltekraft F (kN) Pipe shearing force F (kN)
1	M 10	12	1,6	20	4,2	30	12,1
2		12	2,9	20	4,5	30	15,1
3		15	3,3	25	5,1	35	15,5
4	M 12	30	8,2	40	9,3	55	29,4
5	M 16	45	11,0	55	15,8	120	34,8
6	M 20	80	14,0	150	21,0	220	50,0
7	M 24	110	28,0	200	32,0	250	70,6
8	M 30	180	40,0	350	48,0	500	84,5
9		200	119,0	370	125,0	500	181,5
10		270	168,0	450	180,0	600	244,5

Doppel-Baureihe (DIN 3015, Teil 3) / Double series (DIN 3015, part 3)

GRÖSSE SIZE	Befestigungs- schraube Fixing screw ISO 4014/4017 (DIN 931/933)	Polypropylen / Polypropylene		Polyamid / Polyamide	
		Schraubenanzugs- moment (Nm) Screw tightening torque (Nm)	Rohrhaltekraft F (kN) Pipe shearing force F (kN)	Schraubenanzugs- moment (Nm) Screw tightening torque (Nm)	Rohrhaltekraft F (kN) Pipe shearing force F (kN)
1	M 6	5	0,9	6	0,9
2	M 8	12	2,1	12	2,2
3		12	1,9	12	2,0
4		12	2,7	12	2,9
5		8	1,7	8	2,5

// EMPFOHLENER SCHELLENABSTAND

// RECOMMENDED CLAMP PITCH



Die den entsprechenden Rohraußendurchmessern zugeordneten Schellenabstände sind Richtwerte für statische Belastung.

The clamp pitches assigned to the respective outside pipe diameters are standard values for static load.

Rohraußendurchmesser (mm) Outside pipe diameter (mm)	Schellenabstand A (m) Clamp pitch A (m)
6,0 - 12,7	1,0
12,7 - 22,0	1,2
22,0 - 32,0	1,5
32,0 - 38,0	2,0
38,0 - 57,0	2,7
57,0 - 75,0	3,0
75,0 - 76,1	3,5
76,1 - 88,9	3,7
88,9 - 102,0	4,0
102,0 - 114,0	4,5
114,0 - 168,0	5,0
168,0 - 219,0	6,0
219,0 - 324,0	6,7
324,0 - 356,0	7,0
356,0 - 406,0	7,5

// ROHRBOGENMONTAGE

// PIPE BEND ASSEMBLY



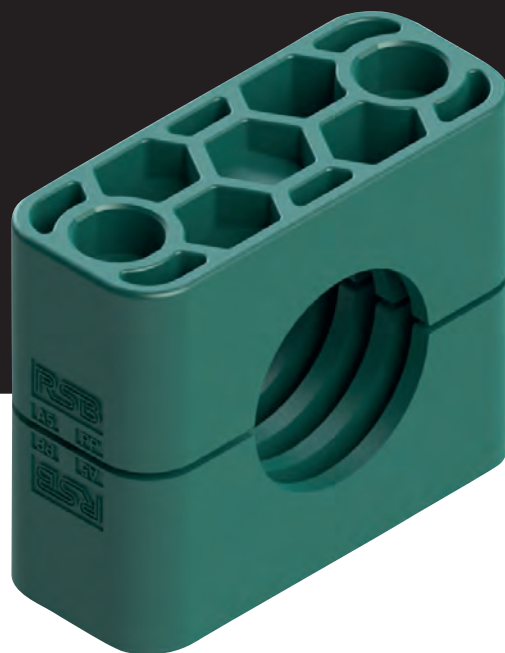
Rohrbögen sind unmittelbar vor und hinter dem Bogen mit RSB-Rohrschellen zu befestigen.

Pipe bends must be fixed with RSB-pipe clamps immediately in front of and behind the bend.

// 02

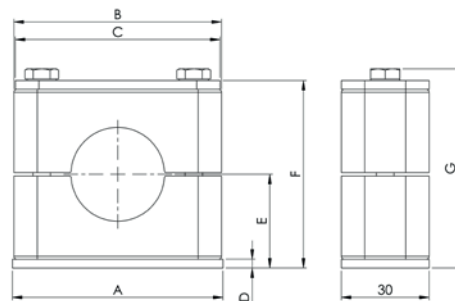
ROHRSCHELLEN SERIE A

TUBE CLAMPS SERIES A



// ABMESSUNGEN UND GEWICHTE VON KOMPLETTSCHELLEN (MM)

// DIMENSIONS AND WEIGHTS OF TUBE CLAMPS, COMPLETE (MM)



GRÖSSE SIZE	A	B	C	D	E		F		G		GEWICHT / 10 STK. WEIGHT / 10 PCS. RAPR3-xxx (kg)
					Rippen Grooved	Glatt Smooth	Rippen Grooved	Glatt Smooth	Rippen Grooved	Glatt Smooth	
0	30	28	28	3	16,5	16,2	33	32,4	37	36,4	0,66
1	36	34	34	3	16,5	16,2	33	32,4	37	36,4	0,82
2	42	42	40	3	19,5	19,1	39	38,2	43	42,2	0,98
3	50	49	48	3	20,5	20	41	40	45	44	1,14
4	59	59	57	3	24	23,4	48	46,8	52	50,8	1,36
5	72	71	70	3	32	31,4	64	62,8	68	66,8	1,83
6	88	86	86	3	36	35,4	72	70,8	76	74,8	2,22
7	122	121	120	5	51,8	51	103,6	102	107,6	106	4,55
8	148	147	146	5	63,8	63	127,6	126	131,6	130	6,18

Das Gewicht wurde mit dem kleinsten Durchmesser (siehe Katalog) und der Standard-Ausführung der Stahlteile der jeweiligen Größe in losen Zustand ermittelt.
The weight was determined with the smallest diameter (see catalogue) and the standard model of the steel parts of the respective quantity in bulk.



DIE LÖSUNG FÜR KORROSIONSGEFÄHRDETE ANWENDUNGEN

**THE SOLUTION
FOR SUSCEPTIBLE TO CORROSION APPLICATIONS**

PP-CR®



Auf Grundlage des bewährten Polypropylens wurde das PP-CR entwickelt.

Ein spezieller Korrosions-Inhibitor verzögert effektiv die Bildung von Spaltkorrosion zwischen den Schellenkörpern und der Verrohrung.

Diese korrosionsverzögerten Eigenschaften wurden in Salzsprühnebeltests gemäß DIN EN ISO 9227 getestet und nachgewiesen.

Rohrschellen aus PP-CR sind in allen Standardbaugrößen unseres bewährten RSB-Rohrschellensystems erhältlich.

Rohrschellen aus PP-CR sind in der Farbe schiefergrau verfügbar.

PP-CR has been developed based on our approved Polypropylene.

Crevice corrosion between the clamp halves and the tube is effectively retarded by a special corrosion inhibitor.

These properties have been tested and successfully approved in a salt spray test according to DIN EN ISO 9227.

Tube Clamps made of PP-CR are available in all standard dimensions of our approved RSB-TUBE CLAMP range.

Tube Clamps made of PP-CR are available in slate gray colour.

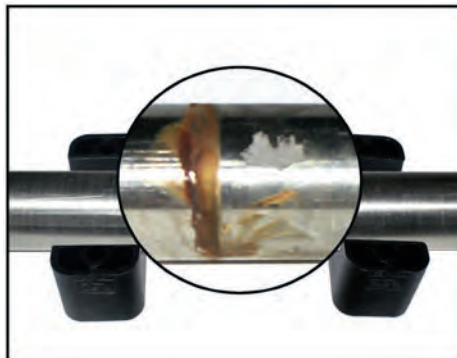


DER KORROSIONSHEMMER – ROHRSCHELLEN AUS PP-CR®

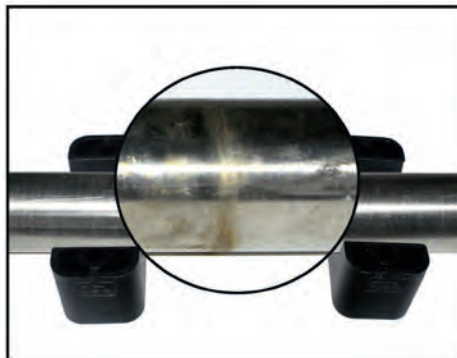
THE CORROSION INHIBITOR – TUBE CLAMPS MADE OF PP-CR®

Schellengröße clamp size	Rohr-AD mm O.D. mm d ₁	1 Stück / 2 Schellenhälften 1 part / 2 clamp-halves RAPG
1	4	RAPG-104/CR
	6	RAPG-106/CR
	6,4	RAPG-106,4/CR
	8	RAPG-108/CR
	9,5	RAPG-109,5/CR
	10	RAPG-110/CR
	12	RAPG-112/CR
	12,7	RAPG-112,7/CR
2	12,7	RAPG-212,7/CR
	13,5	RAPG-213,5/CR
	14	RAPG-214/CR
	15	RAPG-215/CR
	16	RAPG-216/CR
	17,2	RAPG-217,2/CR
3	18	RAPG-218/CR
	19	RAPG-319/CR
	20	RAPG-320/CR
	21,3	RAPG-321,3/CR
	22	RAPG-322/CR
	23	RAPG-323/CR
	25	RAPG-325/CR
25,4	RAPG-325,4/CR	
4	26,9	RAPG-426,9/CR
	28	RAPG-428/CR
	30	RAPG-430/CR
5	32	RAPG-532/CR
	33,7	RAPG-533,7/CR
	35	RAPG-535/CR
	38	RAPG-538/CR
	40	RAPG-540/CR
	42	RAPG-542/CR
6	44,5	RAPG-644,5/CR
	45	RAPG-645/CR
	48	RAPG-648/CR
	50	RAPG-650/CR
	50,8	RAPG-650,8/CR
	52	RAPG-652/CR
	54	RAPG-654/CR
	55	RAPG-655/CR
57	RAPG-657/CR	
7	57,2	RAPG-757,2/CR
	60,3	RAPG-760,3/CR
	63,5	RAPG-763,5/CR
	70	RAPG-770/CR
	73	RAPG-773/CR
	76,1	RAPG-776,1/CR
	8	88,9
101,8		RAPG-8101,8/CR

EDELSTAHLROHR (1.4571)
NACH 4500 STD. SALZNEBELSPRÜHTEST
STAINLESS STEEL TUBE (316Ti)
AFTER 4500 H SALT SPRAY TEST



Resultat mit Standard-Polypropylene
Result with standard Polypropylene



Resultat mit PP-CR
Result with PP-CR

Vorteile

- Enorme Reduzierung von Spaltkorrosion
- Verlängerung der Wartungsintervalle
- Kostenersparnis durch deutlich längere Lebensdauer der Rohrsysteme

Advantages

- Enormous reduction of crevice corrosion
- Extension of maintenance intervals
- cost reduction due to extended durability of the tubing

Bestellzeichen

für Schellenhälften:

Polypropylen **RAPR**
 innen glatt **RAPG²⁾**
 Polyamid 6 **RANR**
 innen glatt **RANG²⁾**
 Vollgummi **RAVR^{3) 4)}**
RAVG^{2) 3)}
 Aluminium **RAAR¹⁾**

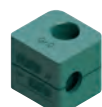
Bei Bedarf Standardkurzzeichen RAPR in der Spalte „Schellenhälften“ austauschen.

Order codes

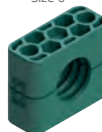
for clamp-halves:

Polypropylene **RAPR**
 inside smooth **RAPG²⁾**
 Polyamide 6 **RANR**
 inside smooth **RANG²⁾**
 Rubber **RAVR^{3) 4)}**
RAVG^{2) 3)}
 Aluminium **RAAR¹⁾**

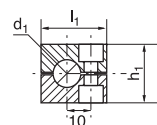
Replace standard abbreviation RAPR in column "clamp-halves" as required.



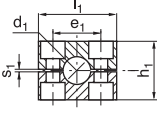
Größe 0
Size 0



Größe 1-8
Size 1-8



Größe 0
Size 0



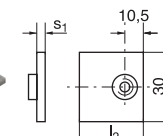
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Size 1-8



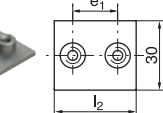
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Größe 1-8
Size 1-8



Größe 0
Size 0



Größe 1-8
Size 1-8

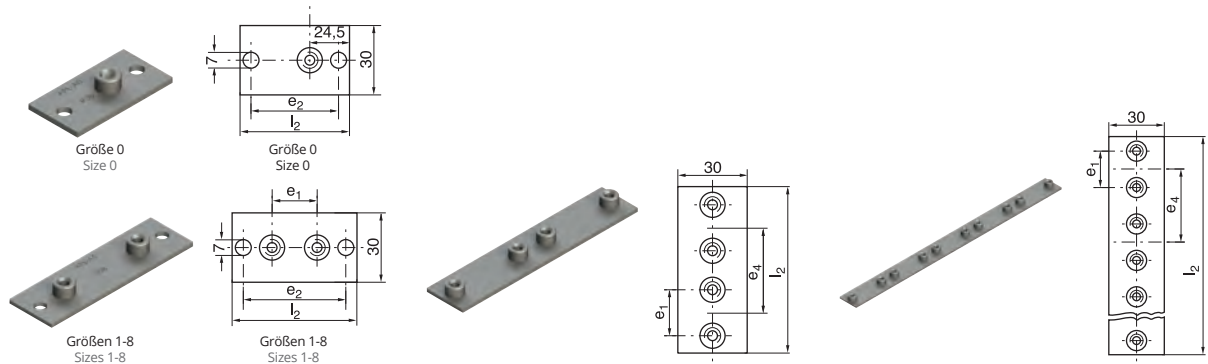
GRÖSSE SIZE	Rohr-AD mm O.D. mm	Rohr-NW Tube NB	Rohr-AD Zoll Inch O.D.	RAPR 1 Stück / 2 Schellenhälften 1 part / 2 clamp-halves	RAPR-... 2 Schellenhälften 2 clamp-halves				APK-A Anschweißplatte Weld plate													
	d ₁				l ₁	h ₁	e ₁	s ₁	e ₁	l ₂	s ₁											
0	4	G 1/8	1/4	RAPR-004 RAPR-006 RAPR-006,4 RAPR-008 RAPR-009,5 RAPR-010 RAPR-012	28	27	-	0,6	APK-A 0	-	30	3										
	6																					
	6,4																					
	8																					
	9,5																					
1	10	G 1/8	3/8	RAPR-104 RAPR-106 RAPR-106,4 RAPR-108 RAPR-109,5 RAPR-110 RAPR-112	34	27	20	0,6	APK-A 1	20	36	3										
	12																					
	6,4																					
	8																					
	9,5																					
2	12,7	G 1/4	1/2	RAPR-212,7 RAPR-213,5 RAPR-214 RAPR-215 RAPR-216 RAPR-217,2 RAPR-218	42	33	26	0,8	APK-A 2	26	42	3										
	13,5																					
	14	G 3/8	5/8																			
	15																					
	16																					
3	17,2	G 1/2	3/4	RAPR-319 RAPR-320 RAPR-321,3 RAPR-322 RAPR-323 RAPR-325 RAPR-325,4	49	35	33	1	APK-A 3	33	50	3										
	18																					
	19																					
	20																					
	21,3																					
4	22	G 3/4	1	RAPR-426,9 RAPR-428 RAPR-430	59	42	40	1,2	APK-A 4	40	59	3										
	23																					
	25																					
5	25,4	G 1	1 1/4	RAPR-532 RAPR-533,7 RAPR-535 RAPR-538 RAPR-540 RAPR-542	71	58	52	1,2	APK-A 5	52	72	3										
	26,9																					
	28																					
	30																					
	32																					
6	33,7	G 1 1/4	1 1/2	RAPR-644,5 RAPR-645 RAPR-648 RAPR-650 RAPR-650,8 RAPR-652 RAPR-654 RAPR-655 RAPR-657	86	66	66	1,2	APK-A 6	66	88	3										
	35																					
	38																					
	40																					
	42																					
	7	44,5	G 2										2 1/4	RAPR-757,2 RAPR-760,3 RAPR-763,5 RAPR-770 RAPR-773 RAPR-776,1	121	93,6	94	1,6	APK-A 7	94	122	5
		45																				
		48																				
		50																				
		50,8																				
8	52	G 2 1/2	3	RAPR-888,9 RAPR-8101,8	147	117,6	120	1,6	APK-A 8	120	148	5										
	54																					
	55																					
	57																					
	57,2																					

Metallteile auch in Edelstahl lieferbar. ¹⁾Aluminium in Größen 0 bis 6 ²⁾ohne Vorspannung ³⁾Bei Montage von Vollgummi-Schellen sind Deckplatten, Sechskantschrauben und Sicherungsscheiben zu verwenden ⁴⁾Vollgummi in Größen 1 bis 5
 All metal parts available in stainless steel. ¹⁾Aluminium in sizes 0 to 6 ²⁾without prestress ³⁾When assembling solid rubber tube clamps, cover plates, hexagon screws and locking washers must be used ⁴⁾Rubber in sizes 1 to 5



ROHRSCHELLEN SERIE A | DIN 3015, TEIL 1 | EINZELTEILE
TUBE CLAMPS SERIES A | DIN 3015, PART 1 | COMPONENTS

Komplett-Programm siehe Seiten 21 bis 25. Complete range please refer to pages 21 to 25.



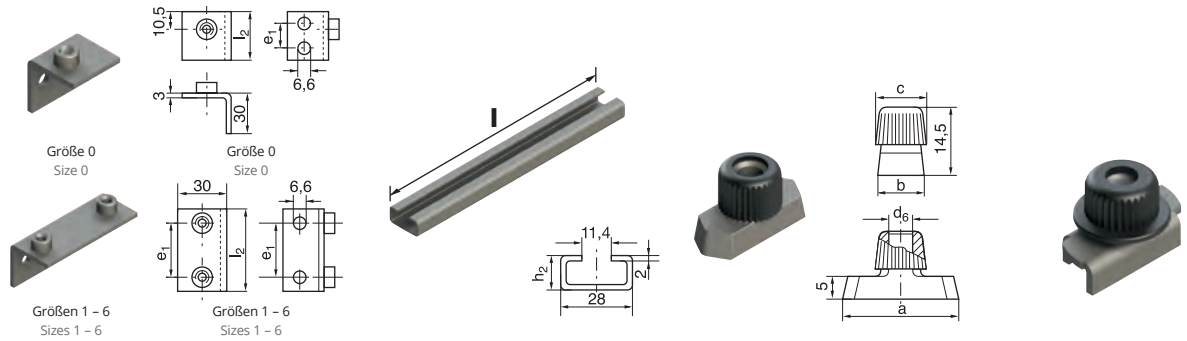
GRÖSSE SIZE	APL-A Anschweiß- und Schraubplatte, lang Weld- and screwplate, elongated			APD-A Anschweißplatte, doppelt Weldplate, double			APR-A Reihen-Anschweißplatte Multiple weld plate					
		e ₁	l ₂	e ₂		e ₁	e ₄	l ₂		e ₁	e ₄	l ₂
0	APL-A 0	-	58	44	APD-A 0	-	30	61	APR-A 0 10 Schellen / Clamps	-	30	298
1	APL-A 1	20	64	50	APD-A 1 APDL-A 1	20 20	35 40	69 76	APR-A 1 APRL-A 1 10 Schellen / Clamps	20 20	35 40	349 394
2	APL-A 2	26	70	56	APD-A 2 APDL-A 2	26 26	43 52	86 94	APR-A 2 APRL-A 2 10 Schellen / Clamps	26 26	43 52	427 508
3	APL-A 3	33	78	64	APD-A 3 APDL-A 3	33 33	52 75	104 125	APR-A 3 APRL-A 3 10 Schellen / Clamps	33 33	52 75	516 723
4	APL-A 4	40	87	73	APD-A 4	40	60	117	APR-A 4 5 Schellen / Clamps	40	60	297
5	APL-A 5	52	100	86	APD-A 5	52	75	145	APR-A 5 5 Schellen / Clamps	52	75	370
6	APL-A 6	66	116	100	APD-A 6	66	90	176	APR-A 6 5 Schellen / Clamps	66	90	446
7	APL-A 7	94	150	136								
8	APL-A 8	120	178	162								

Metallteile auch in Edelstahl lieferbar.
 All metal parts available in stainless steel.



ROHRSCHELLEN SERIE A (LEICHTBAUREIHE) | DIN 3015, TEIL 1 | EINZELTEILE
TUBE CLAMPS SERIES A (LIGHT CONSTRUCTION SERIES) | DIN 3015, PART 1 | COMPONENTS

Komplett-Programm siehe Seiten 21 bis 25. Complete range please refer to pages 21 to 25.



GRÖSSE SIZE	APW-A Winkel-Anschweißplatte Weld plate, angled		TS-A/B Tragschiene Mounting rail			TM-A/B 1 Tragschienen-Mutter Rail nut				TM-A/B 1 Visitec						
		e ₁	l ₂		l	h ₂		a	b	c	d ₆	a	b	c	d ₆	
0	APW-A 0	14	30													
1	APW-A 1	20	36													
2	APW-A 2	26	42													
3	APW-A 3	33	50	TS 11-A/B 1	1 m	11										
				TS 11-A/B 2	2 m	11										
4	APW-A 4	40	59	TS 14-A/B 1	1 m	14										
				TS 14-A/B 2	2 m	14										
5	APW-A 5	52	72	TS 30-A/B 1	1 m	30										
				TS 30-A/B 2	2 m	30										
6	APW-A 6	66	88													
7																
8																
								TM-A (TM-B1)	25,4	10,4	12	M 6	24,9	10,5	12	M6

Metallteile auch in Edelstahl lieferbar.
 All metal parts available in stainless steel.



Komplett-Programm siehe Seiten 21 bis 25. Complete range please refer to pages 21 to 25.



GRÖSSE SIZE	DP-A Deckplatte Cover plate		SL-A Schlitzschraube Slotted head screw		SSL-A Sechskantschraube Hexagon head screw		IS-A Innensechskantschraube Hexagon socket head screw								
	l_3	e_1	d	x	d	x	d	x							
0	DP-A 0	-	-	SL-A 0 / A 1	M 6	x	20	SSL-A 0 / A 1	M 6	x	30	IS-A 0 / A 1	M 6	x	20
1	DP-A 1	34	20	SL-A 0 / A 1	M 6	x	20	SSL-A 0 / A 1	M 6	x	30	IS-A 0 / A 1	M 6	x	20
2	DP-A 2	40	26	SL-A 2	M 6	x	25	SSL-A 2 (SS-B 1)	M 6	x	35	IS-A 2	M 6	x	25
3	DP-A 3	48	33	SL-A 3	M 6	x	30	SSL-A 3	M 6	x	40	IS-A 3	M 6	x	30
4	DP-A 4	57	40	SL-A 4	M 6	x	35	SSL-A 4	M 6	x	45	IS-A 4 (IS-B 1)	M 6	x	35
5	DP-A 5	70	52	SL-A 5	M 6	x	50	SSL-A 5	M 6	x	60	IS-A 5	M 6	x	50
6	DP-A 6	86	66	SL-A 6	M 6	x	60	SSL-A 6	M 6	x	70	IS-A 6	M 6	x	60
7	DP-A 7	120	94	SL-A 7 ¹⁾	M 6	x	90	SSL-A 7	M 6	x	100	IS-A 7	M 6	x	90
8	DP-A 8	146	120	SL-A 8 ¹⁾	M 6	x	110	SSL-A 8 ¹⁾	M 6	x	125	IS-A 8	M 6	x	110

Metallteile auch in Edelstahl lieferbar.

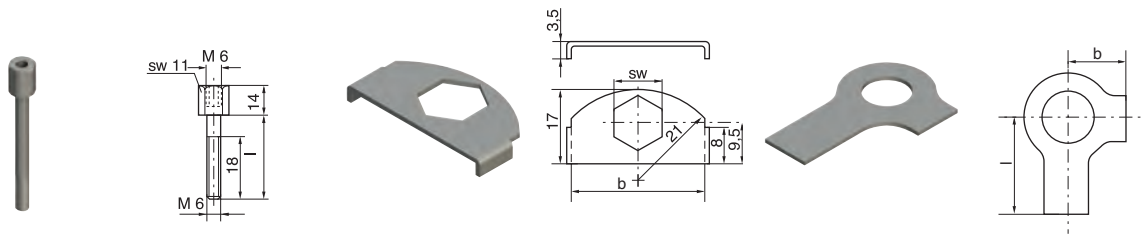
¹⁾ Länge nicht handelsüblich - evtl. längere Lieferzeit

All metal parts available in stainless steel.

¹⁾ length not commercially available - extended lead time may occur



Komplett-Programm siehe Seiten 21 bis 25. Complete range please refer to pages 21 to 25.



GRÖSSE SIZE	AS-A Aufbauschraube ¹⁾ Stacking bolt ¹⁾		SBR-A Sicherungsblech ¹⁾ Locking plate ¹⁾			US-A Sicherungscheibe ²⁾ Locking washer ²⁾		
		l		b	SW		b	l
0	AS-A 0 / A 1 (AS-B1)	20						
1	AS-A 0 / A 1 (AS-B1)	20						
2	AS-A 2	25						
3	AS-A 3	28						
4	AS-A 4	34	SBR-A	30	11	US-A	9	18
5	AS-A 5	50						
6	AS-A 6	60						
7	AS-A 7	85						
8	AS-A 8	110						

Metallteile auch in Edelstahl lieferbar.

¹⁾Für Einsatz von Aufbauschrauben bei Aufbaumontage sind Sicherungsbleche notwendig

²⁾Bei Montage von Vollgummi-Schellen sind Deckplatten, Sechskantschrauben und Sicherungscheiben zu verwenden

All metal parts available in stainless steel.

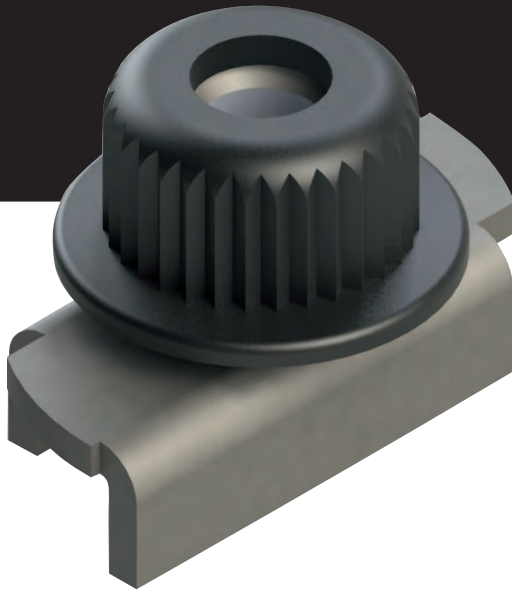
¹⁾The usage of stacking bolts necessitates the use of locking plates during the construction assembly

²⁾When assembling solid rubber clamps, cover plates, hexagon screws and locking washers must be used



DIE SCHIENENMUTTER MIT VERLUSTSICHERUNG

THE RAILNUT WITH LOSS PROTECTION



LEICHTE BAUREIHE

Bestellbezeichnung:

TM-A/B1 VISITEC 1.4571

TM-A/B1 VISITEC ZN

Lieferbar in verzinkter Ausführung und Edelstahl 1.4571.

LIGHT SERIES

Order Code:

TM-A/B1 VISITEC 1.4571

TM-A/B1 VISITEC ZN

Available in zinc plated version and in stainless steel 1.4571

VORTEILE

- 40 % Zeitersparnis bei der Montage
- Schnelle und einfache Installation
- Schall- und vibrationsdämmend
- Optimal bei vertikaler Montage

ADVANTAGES

- 40% time savings during installation
- Fast and easy to install
- Vibration and sound insulating function
- Especially for vertical installations

Das neue Design verhindert den Verlust der Gummikappe während der Installation. Der große Gummiflansch verhindert dass die Tragschienenmutter während der Montage in die Schiene fällt und hat zusätzlich eine schall- und vibrationsdämmende Funktion.

Die Gummikappe verfügt über eine integrierte Schraubensicherung.

Schnelle und einfache Installation, einfach zu justieren auch bei vertikalen Installationen.

The big flange prevents that the railnut falls into the rail during installation and has a vibration and sound insulating function.

The rubbercap has an integrated screw locking device. Fast and easy to install, easy to adjust, especially for vertical installations.

Bestellzeichen

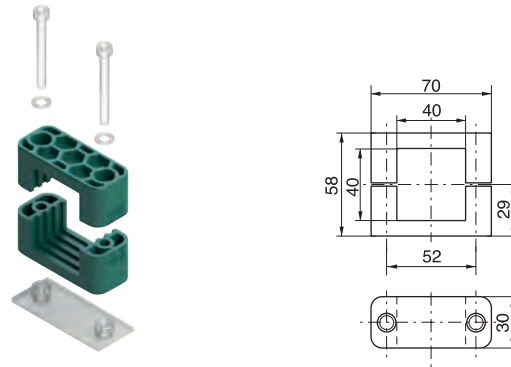
für Schellenhälften:

Polypropylen **RAPS-540**
 Polyamid 6 **RANS-540**
 Vollgummi **RAVS-540**

Order codes

for clamp-halves:

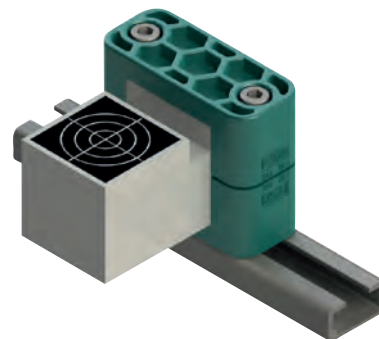
Polypropylene **RAPS-540**
 Polyamide 6 **RANS-540**
 Rubber **RAVS-540**



1 Stück = 2 Schellenhälften
 1 piece = 2 clamp halves

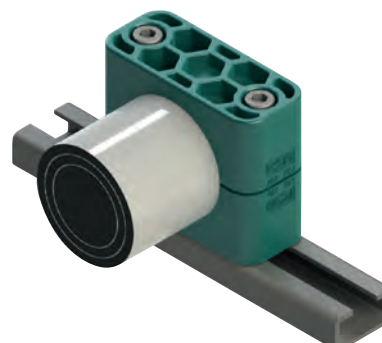
Befestigungsschelle für Näherungsschalter nach EN 50 025 und 50 037 mit quadratischem Gehäuse 40 x 40 mm. Bei Montage auf Tragschienen können die Sensoren in axialer und seitlicher Richtung eingestellt werden. Montagezubehör entsprechend Serie A, Größe 5.

Fixing clamp for proximity switch built to EN 50 025 and 50 037 with square casing 40 x 40 mm. The sensors can be adjusted axially and laterally when mounted on mounting rails. Accessory materials same as in Series A, size 5.



Für die Befestigung von Näherungsschalter mit zylindrischem Gehäuse nach EN 50 008, 50 036 und 50 040 oder ähnliche können Rohrschellen der Serie A mit entsprechendem Durchmesser verwendet werden.

Series A tube clamps of suitable diameter can be used for fixing proximity switches with a cylindrical casing built according to EN 50 008, 50 036 and 50 040 or similar.



ROHRSCHELLEN SERIE A | KOMPLETT-PROGRAMM TUBE CLAMPS SERIES A | COMPLETE RANGE

Bestellzeichen für Schellenhälften:

Polypropylen
innen glatt
Polyamid 6
innen glatt
Vollgummi

Aluminium

RAPR
RAPG
RANR
RANG
RAVR^{3) 4)}
RAVG³⁾
RAAR²⁾

Bei Bedarf Standardkurzzeichen RAPR in der Spalte „Bestellzeichen“ austauschen.

Order codes for clamp halves:

Polypropylene
inside smooth
Polyamide 6
inside smooth
Rubber

Aluminium

RAPR
RAPG
RANR
RANG
RAVR^{3) 4)}
RAVG³⁾
RAAR²⁾

Replace standard abbreviation RAPR in column "Order codes" as required.

2 Schellenhälften mit
Anschweißplatte,
Schlitzschrauben und
U-Scheiben
2 clamp halves with weld plate,
slotted head screws and washer



2 Schellenhälften mit
Anschweißplatte,
Innensechskantschrauben und
U-Scheiben
2 clamp halves with weld plate, hexa-
gon socket head screws and washer



2 Schellenhälften mit
Anschweißplatte,
Deckplatte und Sechskantschrauben
2 clamp halves with weld plate, cover
plate and hexagon head screws



GRÖSSE SIZE	Rohr-AD mm O.D. mm	Rohr-NW Tube NB	Rohr-AD Zoll Inch O.D.	Bestellzeichen Order Codes	Bestellzeichen Order Codes	Bestellzeichen Order Codes
0 ¹⁾	4 6 6,4 8 9,5 10 12	G 1/8	1/4 5/16 3/8	RAPR 1-004 RAPR 1-006 RAPR 1-006,4 RAPR 1-008 RAPR 1-009,5 RAPR 1-010 RAPR 1-012	RAPR 2-004 RAPR 2-006 RAPR 2-006,4 RAPR 2-008 RAPR 2-009,5 RAPR 2-010 RAPR 2-012	RAPR 3-004 RAPR 3-006 RAPR 3-006,4 RAPR 3-008 RAPR 3-009,5 RAPR 3-010 RAPR 3-012
1	4 6 6,4 8 9,5 10 12	G 1/8	1/4 5/16 3/8	RAPR 1-104 RAPR 1-106 RAPR 1-106,4 RAPR 1-108 RAPR 1-109,5 RAPR 1-110 RAPR 1-112	RAPR 2-104 RAPR 2-106 RAPR 2-106,4 RAPR 2-108 RAPR 2-109,5 RAPR 2-110 RAPR 2-112	RAPR 3-104 RAPR 3-106 RAPR 3-106,4 RAPR 3-108 RAPR 3-109,5 RAPR 3-110 RAPR 3-112
2	12,7 13,5 14 15 16 17,2 18	G 1/4 G 3/8	1/2 5/8	RAPR 1-212,7 RAPR 1-213,5 RAPR 1-214 RAPR 1-215 RAPR 1-216 RAPR 1-217,2 RAPR 1-218	RAPR 2-212,7 RAPR 2-213,5 RAPR 2-214 RAPR 2-215 RAPR 2-216 RAPR 2-217,2 RAPR 2-218	RAPR 3-212,7 RAPR 3-213,5 RAPR 3-214 RAPR 3-215 RAPR 3-216 RAPR 3-217,2 RAPR 3-218
3	19 20 21,3 22 23 25 25,4	G 1/2	3/4 1	RAPR 1-319 RAPR 1-320 RAPR 1-321,3 RAPR 1-322 RAPR 1-323 RAPR 1-325 RAPR 1-325,4	RAPR 2-319 RAPR 2-320 RAPR 2-321,3 RAPR 2-322 RAPR 2-323 RAPR 2-325 RAPR 2-325,4	RAPR 3-319 RAPR 3-320 RAPR 3-321,3 RAPR 3-322 RAPR 3-323 RAPR 3-325 RAPR 3-325,4
4	26,9 28 30	G 3/4		RAPR 1-426,9 RAPR 1-428 RAPR 1-430	RAPR 2-426,9 RAPR 2-428 RAPR 2-430	RAPR 3-426,9 RAPR 3-428 RAPR 3-430
5	32 33,7 35 38 40 42	G 1 G 1 1/4	1 1/4 1 1/2	RAPR 1-532 RAPR 1-533,7 RAPR 1-535 RAPR 1-538 RAPR 1-540 RAPR 1-542	RAPR 2-532 RAPR 2-533,7 RAPR 2-535 RAPR 2-538 RAPR 2-540 RAPR 2-542	RAPR 3-532 RAPR 3-533,7 RAPR 3-535 RAPR 3-538 RAPR 3-540 RAPR 3-542
6	44,5 45 48 50 50,8 52 54 55 57	G 1 1/2	1 3/4 2	RAPR 1-644,5 RAPR 1-645 RAPR 1-648 RAPR 1-650 RAPR 1-650,8 RAPR 1-652 RAPR 1-654 RAPR 1-655 RAPR 1-657	RAPR 2-644,5 RAPR 2-645 RAPR 2-648 RAPR 2-650 RAPR 2-650,8 RAPR 2-652 RAPR 2-654 RAPR 2-655 RAPR 2-657	RAPR 3-644,5 RAPR 3-645 RAPR 3-648 RAPR 3-650 RAPR 3-650,8 RAPR 3-652 RAPR 3-654 RAPR 3-655 RAPR 3-657
7	57,2 60,3 63,5 70 73 76,1	G 2 G 2 1/2	2 1/4 2 1/2 2 3/4 3	RAPR 1-757,2 RAPR 1-760,3 RAPR 1-763,5 RAPR 1-770 RAPR 1-773 RAPR 1-776,1	RAPR 2-757,2 RAPR 2-760,3 RAPR 2-763,5 RAPR 2-770 RAPR 2-773 RAPR 2-776,1	RAPR 3-757,2 RAPR 3-760,3 RAPR 3-763,5 RAPR 3-770 RAPR 3-773 RAPR 3-776,1
8	88,9 101,8	G 3 G 3 1/2	3 1/2 4	RAPR 1-888,9 RAPR 1-8101,8	RAPR 2-888,9 RAPR 2-8101,8	RAPR 3-888,9 RAPR 3-8101,8

Werden andere Kombinationen benötigt, so bestellen Sie diese bitte in Einzelteilen (Bestellzeichen hierfür siehe Seiten 14 – 18). Die Auslieferung erfolgt unmontiert in Einzelteilen. ¹⁾Schellen der Größe 0 werden in Abweichung von den Abbildungen nur mit einer Schraube befestigt ²⁾Aluminium in Größen 0 bis 6

³⁾Bei Montage von Vollgummi-Schellen sind Deckplatten, Sechskantschrauben und Sicherungsscheiben zu verwenden ⁴⁾Vollgummi in Größen 1 bis 5

If different combinations are required, we would be obliged if they could be ordered as separate components (Please refer to individual components, pages 14 – 18). Delivery in unassembled individual components. ¹⁾Contrary to illustration size 0 clamps are secured by only one screw ²⁾Aluminium in sizes 0 to 6

³⁾When assembling solid rubber tube clamps, cover plates, hexagon screws and locking washers must be used ⁴⁾Rubber in sizes 1 to 5

Bestellzeichen

für Schellenhälften:

Polypropylen **RAPR**
 innen glatt **RAPG**
 Polyamid 6 **RANR**
 innen glatt **RANG**
 Vollgummi **RAVR³⁾ 4)**
RAVG³⁾
 Aluminium **RAAR²⁾**

Bei Bedarf Standardkurzzeichen RAPR in der Spalte „Schellenhälften“ austauschen.

Order codes for clamp-halves:

Polypropylene **RAPR**
 inside smooth **RAPG**
 Polyamide 6 **RANR**
 inside smooth **RANG**
 Rubber **RAVR³⁾ 4)**
RAVG³⁾
 Aluminium **RAAR²⁾**

Replace standard abbreviation RAPR in column "clamp-halves" as required.

2 Schellenhälften mit Anschweiß-/Anschraubplatte, Schlitzschrauben und U-Scheiben
 2 clamp halves with weld/screw plate, slotted head screws and washer



2 Schellenhälften mit Anschweiß-/Anschraubplatte, Innensechskantschrauben und U-Scheiben
 2 clamp halves with weld/screw plate, hexagon socket head screws and washer



2 Schellenhälften mit Anschweiß-/Anschraubplatte, Deckplatte und Sechskantschrauben
 2 clamp halves with weld/screw plate, cover plate and hexagon head screws



GRÖSSE SIZE	Rohr-AD mm O.D. mm	Rohr-NW Tube NB	Rohr-AD Zoll Inch O.D.	Bestellzeichen Order Codes	Bestellzeichen Order Codes	Bestellzeichen Order Codes
0 ¹⁾	4 6 6,4 8 9,5 10 12	G 1/8	1/4 5/16 3/8	RAPR 4-004 RAPR 4-006 RAPR 4-006,4 RAPR 4-008 RAPR 4-009,5 RAPR 4-010 RAPR 4-012	RAPR 5-004 RAPR 5-006 RAPR 5-006,4 RAPR 5-008 RAPR 5-009,5 RAPR 5-010 RAPR 5-012	RAPR 6-004 RAPR 6-006 RAPR 6-006,4 RAPR 6-008 RAPR 6-009,5 RAPR 6-010 RAPR 6-012
1	4 6 6,4 8 9,5 10 12	G 1/8	1/4 5/16 3/8	RAPR 4-104 RAPR 4-106 RAPR 4-106,4 RAPR 4-108 RAPR 4-109,5 RAPR 4-110 RAPR 4-112	RAPR 5-104 RAPR 5-106 RAPR 5-106,4 RAPR 5-108 RAPR 5-109,5 RAPR 5-110 RAPR 5-112	RAPR 6-104 RAPR 6-106 RAPR 6-106,4 RAPR 6-108 RAPR 6-109,5 RAPR 6-110 RAPR 6-112
2	12,7 13,5 14 15 16 17,2 18	G 1/4 G 3/8	1/2 5/8	RAPR 4-212,7 RAPR 4-213,5 RAPR 4-214 RAPR 4-215 RAPR 4-216 RAPR 4-217,2 RAPR 4-218	RAPR 5-212,7 RAPR 5-213,5 RAPR 5-214 RAPR 5-215 RAPR 5-216 RAPR 5-217,2 RAPR 5-218	RAPR 6-212,7 RAPR 6-213,5 RAPR 6-214 RAPR 6-215 RAPR 6-216 RAPR 6-217,2 RAPR 6-218
3	19 20 21,3 22 23 25 25,4	G 1/2	3/4 1	RAPR 4-319 RAPR 4-320 RAPR 4-321,3 RAPR 4-322 RAPR 4-323 RAPR 4-325 RAPR 4-325,4	RAPR 5-319 RAPR 5-320 RAPR 5-321,3 RAPR 5-322 RAPR 5-323 RAPR 5-325 RAPR 5-325,4	RAPR 6-319 RAPR 6-320 RAPR 6-321,3 RAPR 6-322 RAPR 6-323 RAPR 6-325 RAPR 6-325,4
4	26,9 28 30	G 3/4		RAPR 4-426,9 RAPR 4-428 RAPR 4-430	RAPR 5-426,9 RAPR 5-428 RAPR 5-430	RAPR 6-426,9 RAPR 6-428 RAPR 6-430
5	32 33,7 35 38 40 42	G 1 G 1 1/4	1 1/4 1 1/2	RAPR 4-532 RAPR 4-533,7 RAPR 4-535 RAPR 4-538 RAPR 4-540 RAPR 4-542	RAPR 5-532 RAPR 5-533,7 RAPR 5-535 RAPR 5-538 RAPR 5-540 RAPR 5-542	RAPR 6-532 RAPR 6-533,7 RAPR 6-535 RAPR 6-538 RAPR 6-540 RAPR 6-542
6	44,5 45 48 50 50,8 52 54 55 57	G 1 1/2	1 3/4 2	RAPR 4-644,5 RAPR 4-645 RAPR 4-648 RAPR 4-650 RAPR 4-650,8 RAPR 4-652 RAPR 4-654 RAPR 4-655 RAPR 4-657	RAPR 5-644,5 RAPR 5-645 RAPR 5-648 RAPR 5-650 RAPR 5-650,8 RAPR 5-652 RAPR 5-654 RAPR 5-655 RAPR 5-657	RAPR 6-644,5 RAPR 6-645 RAPR 6-648 RAPR 6-650 RAPR 6-650,8 RAPR 6-652 RAPR 6-654 RAPR 6-655 RAPR 6-657
7	57,2 60,3 63,5 70 73 76,1	G 2 G 2 1/2	2 1/4 2 1/2 2 3/4 3	RAPR 4-757,2 RAPR 4-760,3 RAPR 4-763,5 RAPR 4-770 RAPR 4-773 RAPR 4-776,1	RAPR 5-757,2 RAPR 5-760,3 RAPR 5-763,5 RAPR 5-770 RAPR 5-773 RAPR 5-776,1	RAPR 6-757,2 RAPR 6-760,3 RAPR 6-763,5 RAPR 6-770 RAPR 6-773 RAPR 6-776,1
8	88,9 101,8	G 3 G 3 1/2	3 1/2 4	RAPR 4-888,9 RAPR 4-8101,8	RAPR 5-888,9 RAPR 5-8101,8	RAPR 6-888,9 RAPR 6-8101,8

Werden andere Kombinationen benötigt, so bestellen Sie diese bitte in Einzelteilen (Bestellzeichen hierfür siehe Seiten 14 – 18). Die Auslieferung erfolgt unmontiert in Einzelteilen. ¹⁾Schellen der Größe 0 werden in Abweichung von den Abbildungen nur mit einer Schraube befestigt ²⁾Aluminium in Größen 0 bis 6 ³⁾Bei Montage von Vollgummi-Schellen sind Deckplatten, Sechskantschrauben und Sicherungsscheiben zu verwenden ⁴⁾Vollgummi in Größen 1 bis 5
 If different combinations are required, we would be obliged if they could be ordered as separate components (Please refer to individual components, pages 14 – 18). Delivery in unassembled individual components. ¹⁾Contrary to illustration size 0 clamps are secured by only one screw ²⁾Aluminium in sizes 0 to 6 ³⁾When assembling solid rubber tube clamps, cover plates, hexagon screws and locking washers must be used ⁴⁾Rubber in sizes 1 to 5

ROHRSCHELLEN SERIE A | KOMPLETT-PROGRAMM
TUBE CLAMPS SERIES A | COMPLETE RANGE

Bestellzeichen für Schellenhälften:

Polypropylen
 innen glatt **RAPR**
 Polyamid 6
 innen glatt **RAPG**
 Vollgummi **RANR**
RANG
RAVR^{3) 4)}
RAVG³⁾
RAAR²⁾

Aluminium

Bei Bedarf Standardkurzzeichen RAPR in der Spalte „Bestellzeichen“ austauschen.

Order codes for clamp halves:

Polypropylene
 inside smooth **RAPR**
 Polyamide 6
 inside smooth **RAPG**
 Rubber **RANR**
RANG
RAVR^{3) 4)}
RAVG³⁾
RAAR²⁾

Aluminium

Replace standard abbreviation RAPR in column "Order codes" as required.

2 Schellenhälften mit Tragschienen-Muttern, Schlitzschrauben und U-Scheiben
 2 clamp halves with rail nuts, slotted head screws and washer



2 Schellenhälften mit Tragschienen-Muttern, Innensechskantschrauben und U-Scheiben
 2 clamp halves with rail nuts, socket head bolts and washer



2 Schellenhälften mit Tragschienen-Muttern, Deckplatte und Sechskantschrauben
 2 clamp halves with rail nuts, cover plate and hexagon head screws



GRÖSSE SIZE	Rohr-AD mm O.D. mm	Rohr-NW Tube NB	Rohr-AD Zoll Inch O.D.	Bestellzeichen Order Codes	Bestellzeichen Order Codes	Bestellzeichen Order Codes
0 ¹⁾	4 6 6,4 8 9,5 10 12	G 1/8	1/4 5/16 3/8	RAPR 9-004 RAPR 9-006 RAPR 9-006,4 RAPR 9-008 RAPR 9-009,5 RAPR 9-010 RAPR 9-012	RAPR 10-004 RAPR 10-006 RAPR 10-006,4 RAPR 10-008 RAPR 10-009,5 RAPR 10-010 RAPR 10-012	RAPR 12-004 RAPR 12-006 RAPR 12-006,4 RAPR 12-008 RAPR 12-009,5 RAPR 12-010 RAPR 12-012
1	4 6 6,4 8 9,5 10 12	G 1/8	1/4 5/16 3/8	RAPR 9-104 RAPR 9-106 RAPR 9-106,4 RAPR 9-108 RAPR 9-109,5 RAPR 9-110 RAPR 9-112	RAPR 10-104 RAPR 10-106 RAPR 10-106,4 RAPR 10-108 RAPR 10-109,5 RAPR 10-110 RAPR 10-112	RAPR 12-104 RAPR 12-106 RAPR 12-106,4 RAPR 12-108 RAPR 12-109,5 RAPR 12-110 RAPR 12-112
2	12,7 13,5 14 15 16 17,2 18	G 1/4 G 3/8	1/2 5/8	RAPR 9-212,7 RAPR 9-213,5 RAPR 9-214 RAPR 9-215 RAPR 9-216 RAPR 9-217,2 RAPR 9-218	RAPR 10-212,7 RAPR 10-213,5 RAPR 10-214 RAPR 10-215 RAPR 10-216 RAPR 10-217,2 RAPR 10-218	RAPR 12-212,7 RAPR 12-213,5 RAPR 12-214 RAPR 12-215 RAPR 12-216 RAPR 12-217,2 RAPR 12-218
3	19 20 21,3 22 23 25 25,4	G 1/2	3/4 1	RAPR 9-319 RAPR 9-320 RAPR 9-321,3 RAPR 9-322 RAPR 9-323 RAPR 9-325 RAPR 9-325,4	RAPR 10-319 RAPR 10-320 RAPR 10-321,3 RAPR 10-322 RAPR 10-323 RAPR 10-325 RAPR 10-325,4	RAPR 12-319 RAPR 12-320 RAPR 12-321,3 RAPR 12-322 RAPR 12-323 RAPR 12-325 RAPR 12-325,4
4	26,9 28 30	G 3/4		RAPR 9-426,9 RAPR 9-428 RAPR 9-430	RAPR 10-426,9 RAPR 10-428 RAPR 10-430	RAPR 12-426,9 RAPR 12-428 RAPR 12-430
5	32 33,7 35 38 40 42	G 1 G 1 1/4	1 1/4 1 1/2	RAPR 9-532 RAPR 9-533,7 RAPR 9-535 RAPR 9-538 RAPR 9-540 RAPR 9-542	RAPR 10-532 RAPR 10-533,7 RAPR 10-535 RAPR 10-538 RAPR 10-540 RAPR 10-542	RAPR 12-532 RAPR 12-533,7 RAPR 12-535 RAPR 12-538 RAPR 12-540 RAPR 12-542
6	44,5 45 48 50 50,8 52 54 55 57	G 1 1/2	1 3/4 2	RAPR 9-644,5 RAPR 9-645 RAPR 9-648 RAPR 9-650 RAPR 9-650,8 RAPR 9-652 RAPR 9-654 RAPR 9-655 RAPR 9-657	RAPR 10-644,5 RAPR 10-645 RAPR 10-648 RAPR 10-650 RAPR 10-650,8 RAPR 10-652 RAPR 10-654 RAPR 10-655 RAPR 10-657	RAPR 12-644,5 RAPR 12-645 RAPR 12-648 RAPR 12-650 RAPR 12-650,8 RAPR 12-652 RAPR 12-654 RAPR 12-655 RAPR 12-657
7	57,2 60,3 63,5 70 73 76,1	G 2 G 2 1/2	2 1/4 2 1/2 2 3/4 3	RAPR 9-757,2 RAPR 9-760,3 RAPR 9-763,5 RAPR 9-770 RAPR 9-773 RAPR 9-776,1	RAPR 10-757,2 RAPR 10-760,3 RAPR 10-763,5 RAPR 10-770 RAPR 10-773 RAPR 10-776,1	RAPR 12-757,2 RAPR 12-760,3 RAPR 12-763,5 RAPR 12-770 RAPR 12-773 RAPR 12-776,1
8	88,9 101,8	G 3 G 3 1/2	3 1/2 4	RAPR 9-888,9 RAPR 9-8101,8	RAPR 10-888,9 RAPR 10-8101,8	RAPR 12-888,9 RAPR 12-8101,8

Werden andere Kombinationen benötigt, so bestellen Sie diese bitte in Einzelteilen (Bestellzeichen hierfür siehe Seiten 14 – 18). Die Auslieferung erfolgt unmontiert in Einzelteilen. ¹⁾Schellen der Größe 0 werden in Abweichung von den Abbildungen nur mit einer Schraube befestigt ²⁾Aluminium in Größen 0 bis 6

³⁾Bei Montage von Vollgummi-Schellen sind Deckplatten, Sechskantschrauben und Sicherungsscheiben zu verwenden ⁴⁾Vollgummi in Größen 1 bis 5

If different combinations are required, we would be obliged if they could be ordered as separate components (Please refer to individual components, pages 14 – 18). Delivery in unassembled individual components. ¹⁾Contrary to illustration size 0 clamps are secured by only one screw ²⁾Aluminium in sizes 0 to 6

³⁾When assembling solid rubber tube clamps, cover plates, hexagon screws and locking washers must be used ⁴⁾Rubber in sizes 1 to 5

Bestellzeichen

für Schellenhälften:

Polypropylen **RAPR**
 innen glatt **RAPG**
 Polyamid 6 **RANR**
 innen glatt **RANG**
 Vollgummi **RAVR³⁾**
RAVG³⁾
 Aluminium **RAAR²⁾**

Bei Bedarf Standardkurzzeichen RAPR in der Spalte „Schellenhälften“ austauschen.

Order codes

for clamp-halves:

Polypropylene **RAPR**
 inside smooth **RAPG**
 Polyamide 6 **RANR**
 inside smooth **RANG**
 Rubber **RAVR³⁾**
RAVG³⁾
 Aluminium **RAAR²⁾**

Replace standard abbreviation RAPR in column "clamp-halves" as required.

2 Schellenhälften mit Schlitzschrauben und U-Scheiben
 2 clamp halves, slotted head screws and washer



2 Schellenhälften mit Innensechskantschrauben und U-Scheiben
 2 clamp halves, hexagon socket head screws and washer



GRÖSSE SIZE	Rohr-AD mm O.D. mm	Rohr-NW Tube NB	Rohr-AD Zoll Inch O.D.	Bestellzeichen Order Codes	Bestellzeichen Order Codes
0 ¹⁾	4 6 6,4 8 9,5 10 12	G 1/8	1/4 5/16 3/8	RAPR 13-004 RAPR 13-006 RAPR 13-006,4 RAPR 13-008 RAPR 13-009,5 RAPR 13-010 RAPR 13-012	RAPR 14-004 RAPR 14-006 RAPR 14-006,4 RAPR 14-008 RAPR 14-009,5 RAPR 14-010 RAPR 14-012
1	4 6 6,4 8 9,5 10 12	G 1/8	1/4 5/16 3/8	RAPR 13-104 RAPR 13-106 RAPR 13-106,4 RAPR 13-108 RAPR 13-109,5 RAPR 13-110 RAPR 13-112	RAPR 14-104 RAPR 14-106 RAPR 14-106,4 RAPR 14-108 RAPR 14-109,5 RAPR 14-110 RAPR 14-112
2	12,7 13,5 14 15 16 17,2 18	G 1/4 G 3/8	1/2 5/8	RAPR 13-212,7 RAPR 13-213,5 RAPR 13-214 RAPR 13-215 RAPR 13-216 RAPR 13-217,2 RAPR 13-218	RAPR 14-212,7 RAPR 14-213,5 RAPR 14-214 RAPR 14-215 RAPR 14-216 RAPR 14-217,2 RAPR 14-218
3	19 20 21,3 22 23 25 25,4	G 1/2	3/4 1	RAPR 13-319 RAPR 13-320 RAPR 13-321,3 RAPR 13-322 RAPR 13-323 RAPR 13-325 RAPR 13-325,4	RAPR 14-319 RAPR 14-320 RAPR 14-321,3 RAPR 14-322 RAPR 14-323 RAPR 14-325 RAPR 14-325,4
4	26,9 28 30	G 3/4		RAPR 13-426,9 RAPR 13-428 RAPR 13-430	RAPR 14-426,9 RAPR 14-428 RAPR 14-430
5	32 33,7 35 38 40 42	G 1 G 1 1/4	1 1/4 1 1/2	RAPR 13-532 RAPR 13-533,7 RAPR 13-535 RAPR 13-538 RAPR 13-540 RAPR 13-542	RAPR 14-532 RAPR 14-533,7 RAPR 14-535 RAPR 14-538 RAPR 14-540 RAPR 14-542
6	44,5 45 48 50 50,8 52 54 55 57	G 1 1/2	1 3/4 2	RAPR 13-644,5 RAPR 13-645 RAPR 13-648 RAPR 13-650 RAPR 13-650,8 RAPR 13-652 RAPR 13-654 RAPR 13-655 RAPR 13-657	RAPR 14-644,5 RAPR 14-645 RAPR 14-648 RAPR 14-650 RAPR 14-650,8 RAPR 14-652 RAPR 14-654 RAPR 14-655 RAPR 14-657
7	57,2 60,3 63,5 70 73 76,1	G 2 G 2 1/2	2 1/4 2 1/2 2 3/4 3	RAPR 13-757,2 RAPR 13-760,3 RAPR 13-763,5 RAPR 13-770 RAPR 13-773 RAPR 13-776,1	RAPR 14-757,2 RAPR 14-760,3 RAPR 14-763,5 RAPR 14-770 RAPR 14-773 RAPR 14-776,1
8	88,9 101,8	G 3 G 3 1/2	3 1/2 4	RAPR 13-888,9 RAPR 13-8101,8	RAPR 14-888,9 RAPR 14-8101,8

Werden andere Kombinationen benötigt, so bestellen Sie diese bitte in Einzelteilen (Bestellzeichen hierfür siehe Seiten 14 – 18). Die Auslieferung erfolgt unmontiert in Einzelteilen. ¹⁾Schellen der Größe 0 werden in Abweichung von den Abbildungen nur mit einer Schraube befestigt ²⁾Aluminium in Größen 0 bis 6 ³⁾Bei Montage von Vollgummi-Schellen sind Deckplatten, Sechskantschrauben und Sicherungsscheiben zu verwenden ⁴⁾Vollgummi in Größen 1 bis 5
 If different combinations are required, we would be obliged if they could be ordered as separate components (Please refer to individual components, pages 14 – 18). Delivery in unassembled individual components. ¹⁾Contrary to illustration size 0 clamps are secured by only one screw ²⁾Aluminium in sizes 0 to 6 ³⁾When assembling solid rubber tube clamps, cover plates, hexagon screws and locking washers must be used ⁴⁾Rubber in sizes 1 to 5

ROHRSCHELLEN SERIE A | KOMPLETT-PROGRAMM TUBE CLAMPS SERIES A | COMPLETE RANGE

Bestellzeichen

für Schellenhälften:

Polypropylen **RAPR**
 innen glatt **RAPG**
 Polyamid 6 **RANR**
 innen glatt **RANG**
 Vollgummi **RAVR³⁾ 4)**
RAVG³⁾
 Aluminium **RAAR²⁾**

Bei Bedarf Standardkurzzeichen RAPR in der Spalte „Bestellzeichen“ austauschen.

Order codes

for clamp-halves:

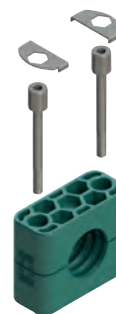
Polypropylene **RAPR**
 inside smooth **RAPG**
 Polyamide 6 **RANR**
 inside smooth **RANG**
 Rubber **RAVR³⁾ 4)**
RAVG³⁾
 Aluminium **RAAR²⁾**

Replace standard abbreviation RAPR in column "Order codes" as required.

2 Schellenhälften mit Deckplatte und Sechskantschrauben
 2 clamp halves, cover plate and hexagon head screws



2 Schellenhälften mit Aufbauschrauben und Sicherungsblechen
 2 clamp halves, stacking bolts and locking plates



GRÖSSE SIZE	Rohr-AD mm O.D. mm	Rohr-NW Tube NB	Rohr-AD Zoll Inch O.D.	Bestellzeichen Order Codes	Bestellzeichen Order Codes
0 ¹⁾	4 6 6,4 8 9,5 10 12	G 1/8	5/16	RAPR 16-004 RAPR 16-006 RAPR 16-006,4 RAPR 16-008 RAPR 16-009,5 RAPR 16-010 RAPR 16-012	RAPR 18-004 RAPR 18-006 RAPR 18-006,4 RAPR 18-008 RAPR 18-009,5 RAPR 18-010 RAPR 18-012
1	4 6 6,4 8 9,5 10 12	G 1/8	5/16	RAPR 16-104 RAPR 16-106 RAPR 16-106,4 RAPR 16-108 RAPR 16-109,5 RAPR 16-110 RAPR 16-112	RAPR 18-104 RAPR 18-106 RAPR 18-106,4 RAPR 18-108 RAPR 18-109,5 RAPR 18-110 RAPR 18-112
2	12,7 13,5 14 15 16 17,2 18	G 1/4 G 3/8	1/2 5/8	RAPR 16-212,7 RAPR 16-213,5 RAPR 16-214 RAPR 16-215 RAPR 16-216 RAPR 16-217,2 RAPR 16-218	RAPR 18-212,7 RAPR 18-213,5 RAPR 18-214 RAPR 18-215 RAPR 18-216 RAPR 18-217,2 RAPR 18-218
3	19 20 21,3 22 23 25 25,4	G 1/2	3/4 1	RAPR 16-319 RAPR 16-320 RAPR 16-321,3 RAPR 16-322 RAPR 16-323 RAPR 16-325 RAPR 16-325,4	RAPR 18-319 RAPR 18-320 RAPR 18-321,3 RAPR 18-322 RAPR 18-323 RAPR 18-325 RAPR 18-325,4
4	26,9 28 30	G 3/4		RAPR 16-426,9 RAPR 16-428 RAPR 16-430	RAPR 18-426,9 RAPR 18-428 RAPR 18-430
5	32 33,7 35 38 40 42	G 1 G 1 1/4	1 1/4 1 1/2	RAPR 16-532 RAPR 16-533,7 RAPR 16-535 RAPR 16-538 RAPR 16-540 RAPR 16-542	RAPR 18-532 RAPR 18-533,7 RAPR 18-535 RAPR 18-538 RAPR 18-540 RAPR 18-542
6	44,5 45 48 50 50,8 52 54 55 57	G 1 1/2	1 3/4 2	RAPR 16-644,5 RAPR 16-645 RAPR 16-648 RAPR 16-650 RAPR 16-650,8 RAPR 16-652 RAPR 16-654 RAPR 16-655 RAPR 16-657	RAPR 18-644,5 RAPR 18-645 RAPR 18-648 RAPR 18-650 RAPR 18-650,8 RAPR 18-652 RAPR 18-654 RAPR 18-655 RAPR 18-657
7	57,2 60,3 63,5 70 73 76,1	G 2 G 2 1/2	2 1/4 2 1/2 2 3/4 3	RAPR 16-757,2 RAPR 16-760,3 RAPR 16-763,5 RAPR 16-770 RAPR 16-773 RAPR 16-776,1	RAPR 18-757,2 RAPR 18-760,3 RAPR 18-763,5 RAPR 18-770 RAPR 18-773 RAPR 18-776,1
8	88,9 101,8	G 3 G 3 1/2	3 1/2 4	RAPR 16-888,9 RAPR 16-8101,8	RAPR 18-888,9 RAPR 18-8101,8

Werden andere Kombinationen benötigt, so bestellen Sie diese bitte in Einzelteilen (Bestellzeichen hierfür siehe Seiten 14 – 18). Die Auslieferung erfolgt unmontiert in Einzelteilen. ¹⁾Schellen der Größe 0 werden in Abweichung von den Abbildungen nur mit einer Schraube befestigt ²⁾Aluminium in Größen 0 bis 6

³⁾Bei Montage von Vollgummi-Schellen sind Deckplatten, Sechskantschrauben und Sicherungsscheiben zu verwenden ⁴⁾Vollgummi in Größen 1 bis 5

If different combinations are required, we would be obliged if they could be ordered as separate components (Please refer to individual components, pages 14 – 18). Delivery in unassembled individual components. ¹⁾Contrary to illustration size 0 clamps are secured by only one screw ²⁾Aluminium in sizes 0 to 6

³⁾When assembling solid rubber tube clamps, cover plates, hexagon screws and locking washers must be used ⁴⁾Rubber in sizes 1 to 5

2+5 ... **DAS SYSTEM!**

NUR 2 ROHRSCHELLENGRÖSSEN

2+5 ... **THE SYSTEM!**

ONLY 2 TUBE CLAMP SIZES

Mit unserem 2+5 RSB-Rohrschellen-System werden mit nur 2 Baugrößen die Rohrdurchmesser 6 - 42 mm abgedeckt.

- leichte Montage, kombinierbar mit allen Ausführungen
- alle Metallteile können aus unserem Standardprogramm der DIN 3015 verwendet werden

With our 2+5 RSB-Tube clamps system you can fix all tube diameters between 6 and 42 mm with only 2 tube clamp sizes.

- easy assembly, can be combined with all versions
- all metal parts of our standard program according to DIN 3015 can be used



Nur eine Reihen-Anschweißplatte mit gleichmäßigen Bolzenabständen für alle Rohrschellen der Größe 2+5

Only one multiple weldplate with similar weldnut distances suits all tube clamps of size 2+5

ROHRSCHELLEN SERIE 2+5 (LEICHTBAUREIHE) | DIN 3015, TEIL 1 | EINZELTEILE
TUBE CLAMPS SERIES 2+5 (LIGHT CONSTRUCTION SERIES) | DIN 3015, PART 1 | COMPONENTS

Bestellzeichen für Schellenhälften:

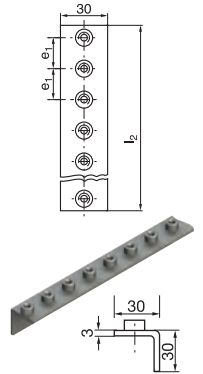
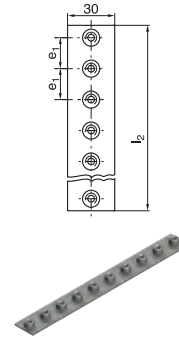
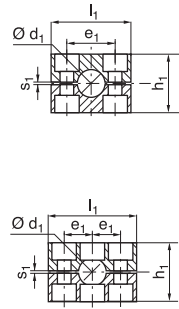
Polypropylen **RAPR**
 innen glatt **RAPG²⁾**
 Polyamid 6 **RANR**
 innen glatt **RANG²⁾**
 Vollgummi **RAVR³⁾**
RAVG^{2) 3)}
 Aluminium **RAAR**

Bei Bedarf Standardkurzzeichen RAPR in der Spalte „Bestellzeichen“ austauschen.

Order codes for clamp-halves:

Polypropylene **RAPR**
 inside smooth **RAPG²⁾**
 Polyamide 6 **RANR**
 inside smooth **RANG²⁾**
 Rubber **RAVR³⁾**
RAVG^{2) 3)}
 Aluminium **RAAR**

Replace standard abbreviation RAPR in column "Order codes" as required.



GRÖSSE SIZE	Rohr-AD mm O.D. mm	Rohr-NW Tube NB	Rohr-AD Zoll Inch O.D.	RAPR 1 St. / 2 Schellenhälften 1 part / 2 clamp-halves	RAPR-... 2 Schellenhälften 2 clamp-halves				APRL-A 2 Reihen-Anschweißplatte Multiple welding plate		APRWL-A 2 Winkel-Anschweißplatte Multiple welding plate, angled	
	d ₁				l ₁	h ₁	e ₁	s ₁	e ₁	l ₂	e ₁	l ₂
2	6			RAPR-206								
	6,4		1/4	RAPR-206,4								
	8		5/16	RAPR-208								
	9,5		3/8	RAPR-209,5								
	10	G 1/8		RAPR-210								
	12			RAPR-212								
	12,7		1/2	RAPR-212,7	42	33	26	0,8				
	13,5	G 1/4		RAPR-213,5								
	14			RAPR-214								
	15			RAPR-215								
5	16		5/8	RAPR-216								
	17,2	G 3/8		RAPR-217,2								
	18			RAPR-218								
	19		3/4	RAPR-519					26	508	26	508
	20			RAPR-520					20 Bolzen/Nuts		20 Bolzen/Nuts	
	21,3	G 1/2		RAPR-521,3								
	22			RAPR-522								
	23			RAPR-523								
	25			RAPR-525								
	25,4		1	RAPR-525,4								
	26,9	G 3/4		RAPR-526,9								
	28			RAPR-528	71	58	52	1,2				
	30			RAPR-530								
	32		1 1/4	RAPR-532								
33,7	G 1		RAPR-533,7									
35			RAPR-535									
38		1 1/2	RAPR-538									
40			RAPR-540									
42	G 1 1/4		RAPR-542									

Metallteile auch in Edelstahl lieferbar. Einzelteile hierfür siehe Seiten 14-18.

²⁾ohne Vorspannung

³⁾Bei Montage von Vollgummi-Schellen sind Deckplatten, Sechskantschrauben und Sicherungsscheiben zu verwenden

All metal parts available in stainless steel. Please refer to individual components pages 14-18.

²⁾without prestress

³⁾When assembling solid rubber tube clamps, cover plates, hexagon screws and locking washers must be used

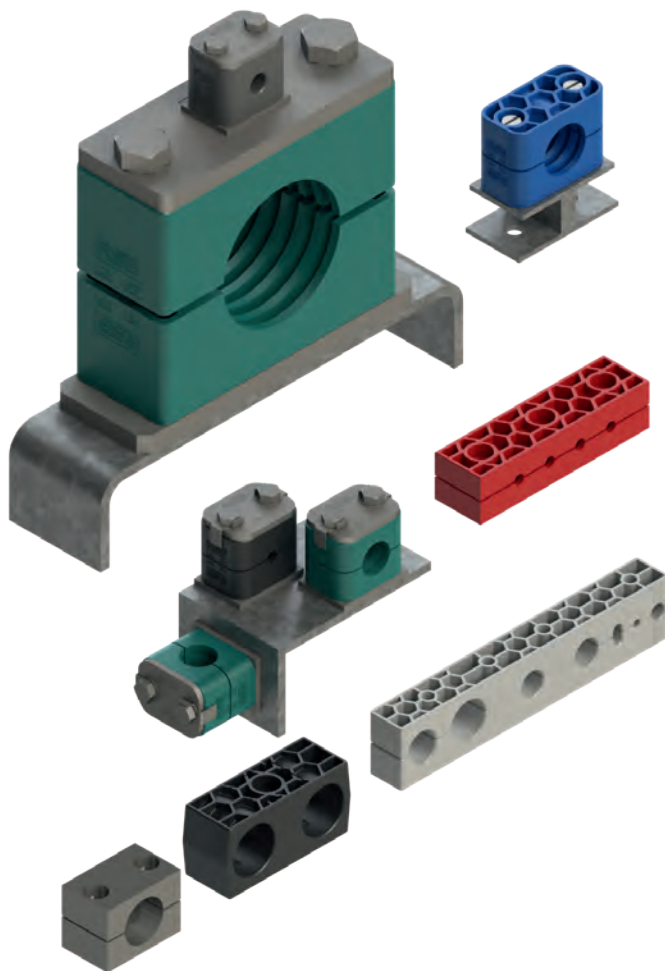


SONDERSCHELLEN

INDIVIDUELLE LÖSUNGEN NACH MASS
STAHL, ALUMINIUM, POLYAMID, POLYPROPYLEN,
VOLLGUMMI, EDELSTAHL ...

SPECIAL CLAMPS

CUSTOM-BUILT TO ORDER
STEEL, ALUMINIUM, POLYAMIDE, POLYPROPYLENE,
THERMOPLASTIC RUBBER, STAINLESS STEEL ...



RSB-SONDERSCHELLEN

lösen Ihr Befestigungsproblem dort,
wo Serienteile überfordert sind.

Modernste Technologie ermöglicht uns eine
flexible Umsetzung für Ihren Anwendungsfall.

Wir fertigen nach Kundenzeichnung oder
in Kooperation mit Ihnen, wir beraten Sie
fachmännisch, oder stehen Ihnen mit
hauseigenen Entwicklungen zur Seite.

SPRECHEN SIE MIT UNS!

RSB-SPECIAL CLAMPS

For solving your fixing problem that series
components cannot.

State-of-the-art technology ensures that we can
adapt to meet your individual requirements.

We work from a customer sketch or in cooperation
with you. We offer expert advice or support you
with our in-house developments.

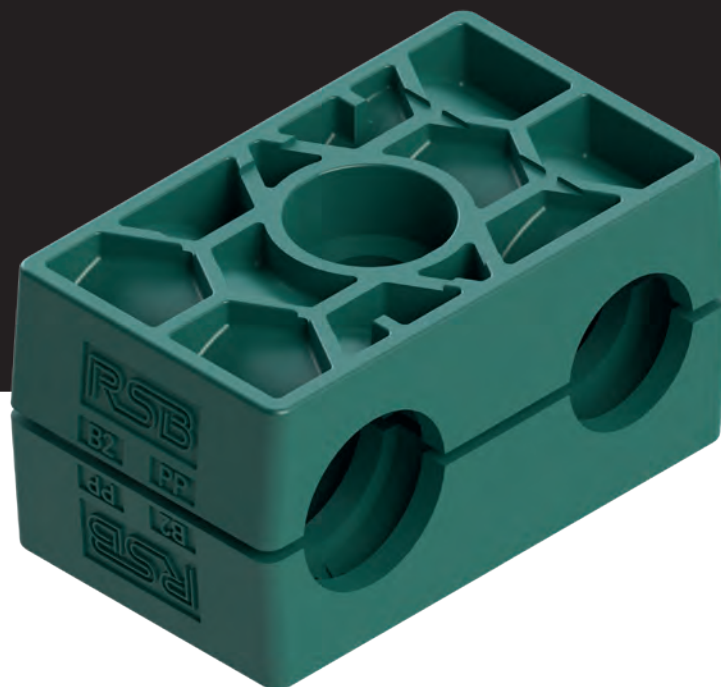
WE ARE THE PEOPLE TO TALK TO!



// 03

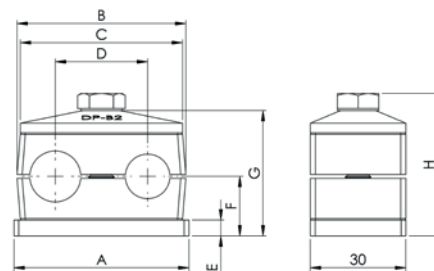
ROHRSCHELLEN SERIE B

TUBE CLAMPS SERIES B



// ABMESSUNGEN UND GEWICHTE VON KOMPLETTSCHELLEN (MM)

// DIMENSIONS AND WEIGHTS OF TUBE CLAMPS, COMPLETE (MM)



GRÖSSE SIZE	A	B	C	D	E	F		G		H		GEWICHT / 10 STK. WEIGHT / 10 PCS. RBPR3-xxx (kg)
						Rippen Grooved	Glatt Smooth	Rippen Grooved	Glatt Smooth	Rippen Grooved	Glatt Smooth	
1	37	36	34	20	3	16,5	16	37	36	41	40	0,74
2	55	53	51	29	5	18,7	18,1	39,4	38,2	44,7	43,5	1,32
3	70	67	64	36	5	23,5	22,7	49	47,4	54,3	52,7	1,73
4	85	82	78	45	5	26	25	54	52	59,3	57,3	2,13
5	110	106	102	56	5	32	31	66	64	71,3	69,3	3,01

Das Gewicht wurde mit dem kleinsten Durchmesser (siehe Katalog) und der Standard-Ausführung der Stahlteile der jeweiligen Größe in losem Zustand ermittelt.
The weight was determined with the smallest diameter (see catalogue) and the standard model of the steel parts of the respective quantity in bulk.

Bestellzeichen für Schellenhälften:

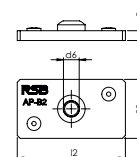
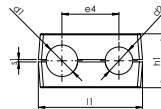
Polypropylen **RBPR**
 innen glatt **RBPG²⁾**
 Polyamid 6 **RBNR**
 innen glatt **RBNG²⁾**
 Vollgummi **RBVG^{2) 3)}**

Bei Bedarf Standardkurzzeichen RBPR in der Spalte „Schellenhälften“ austauschen.

Order codes for clamp-halves:

Polypropylene **RBPR**
 inside smooth **RBPG²⁾**
 Polyamide 6 **RBNR**
 inside smooth **RBNG²⁾**
 Rubber **RBVG^{2) 3)}**

Replace standard abbreviation RBPR in column "clamp-halves" as required.



GRÖSSE SIZE	Rohr-AD mm O.D. mm	Rohr-NW Tube NB	Rohr-AD Zoll Inch O.D.	RBPR 1 St. / 2 Schellenhälften ¹⁾ 1 part / 2 clamp-halves ¹⁾	RBPR-... 2 Schellenhälften 2 clamp-halves	APZ3-B Anschweißplatte mit Verdrehsicherung Weld plate with locking device			
	d ₁ /d ₂				l ₁ h ₁ e ₄ s ₁	l ₂	s ₂	d ₆	
1	6	G 1/8	1/4	RBPR-106	36 27 20 1,0	APZ3-B 1 mit Verdrehsicherung with locking device	37	3	M 6
	6,4			RBPR-106,4					
	8			RBPR-108					
	9,5			RBPR-109,5					
	10		RBPR-110						
	12		RBPR-112						
2	12,7	G 3/8	1/2	RBPR-212,7	53 27,4 29 1,2	APZ3-B 2 mit Verdrehsicherung with locking device	55	5	M 8
	13,5			RBPR-213,5					
	14			RBPR-214					
	15			RBPR-215					
	16		RBPR-216						
	17,2		RBPR-217,2						
18	RBPR-218								
3	19	G 1/2	3/4	RBPR-319	67 37 36 1,6	APZ3-B 3 mit Verdrehsicherung with locking device	70	5	M 8
	20			RBPR-320					
	21,3			RBPR-321,3					
	22			RBPR-322					
	25		RBPR-325						
	25,4		RBPR-325,4						
4	26,9	G 3/4	1	RBPR-426,9	82 42 45 2	APZ3-B 4 mit Verdrehsicherung with locking device	85	5	M 8
	28			RBPR-428					
	30			RBPR-430					
5	32	G 1 1/4	1 1/4	RBPR-532	106 54 56 2	APZ3-B 5 mit Verdrehsicherung with locking device	110	5	M 8
	33,7			RBPR-533,7					
	35			RBPR-535					
	38			RBPR-538					
	40		RBPR-540						
	42		RBPR-542						

Metallteile in Edelstahl lieferbar.

¹⁾Zweirohrschellen mit unterschiedlichen Rohr-AD auf Anfrage ²⁾ohne Vorspannung

³⁾Bei Montage von Vollgummi-Schellen sind Deckplatten, Sechskantschrauben und Sicherungsscheiben zu verwenden
 All metal parts available in stainless steel.

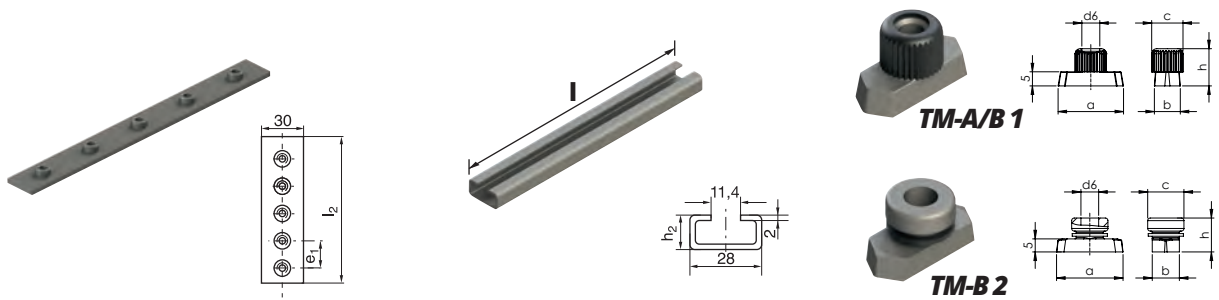
¹⁾Twin-tube clamps with different outer tube diameter upon request ²⁾without prestress

³⁾When assembling solid rubber tube clamps, cover plates, hexagon screws and locking washers must be used



ROHRSCHELLEN SERIE B (ZWEIROHRSCHELLE) | DIN 3015, TEIL 3 | EINZELTEILE
TUBE CLAMPS SERIES B (TWIN-TUBE CLAMP) | DIN 3015, PART 3 | COMPONENTS

Komplett-Programm siehe Seiten 34 bis 35. Complete range please refer to pages 34 to 35.



GRÖSSE SIZE	APR-B Reihen-Anschweißplatte Multiple weld plate		TS-A/B Tragschiene Mounting rail			TM Tragschienen-Mutter Rail nut										
	e ₁	l ₂		l	h ₂	a	b	c	d ₆	h						
1	APR-B 1 5 Schellen 5 Clamps	40	196								TM-A/B 1	25,4	10,4	12	M 6	14,5
2	APR-B 2 5 Schellen 5 Clamps	58	288	TS 11-A/B 1	1 m	11										
				TS 11-A/B 2	2 m	11										
3	APR-B 3 5 Schellen 5 Clamps	72	358	TS 14-A/B 1	1 m	14										
				TS 14-A/B 2	2 m	14										
				TS 30-A/B 1	1 m	30										
4	APR-B 4 5 Schellen 5 Clamps	90	446	TS 30-A/B 2	2 m	30					TM-B 2	25,4	10,4	14	M 8	13
5	APR-B 5 5 Schellen 5 Clamps	112	558													

Metallteile auch in Edelstahl lieferbar.
 All metal parts available in stainless steel.



ROHRSCHELLEN SERIE B (ZWEIROHRSCHELLE) | DIN 3015, TEIL 3 | EINZELTEILE
TUBE CLAMPS SERIES B (TWIN-TUBE CLAMP) | DIN 3015, PART 3 | COMPONENTS

Komplett-Programm siehe Seiten 34 bis 35. Complete range please refer to pages 34 to 35.



DIN 931/933

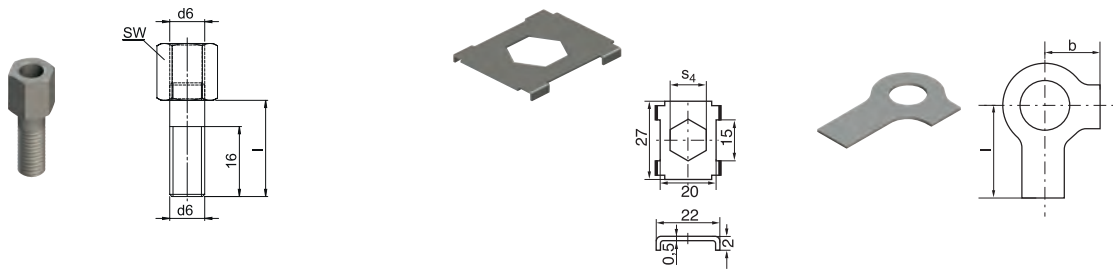
ISO 4762

GRÖSSE SIZE	DP-B Deckplatte Cover plate		SS-B Sechskantschraube Hexagon head screw			IS-B Innensechskantschraube Hexagon socket head screw					
	l ₃	d ₇	d	x	l	d	x	l			
1	DP-B 1	34	7	SS-B 1 (SSL-A 2)	M 6	x	35	IS-B 1 (IS-A 4)	M 6	x	35
2	DP-B 2	51	9	SS-B 2	M 8	x	35	IS-B 2	M 8	x	35
3	DP-B 3	64	9	SS-B 3	M 8	x	45	IS-B 3	M 8	x	45
4	DP-B 4	78	9	SS-B 4	M 8	x	50	IS-B 4	M 8	x	50
5	DP-B 5	102	9	SS-B 5	M 8	x	60	IS-B 5	M 8	x	60

Metallteile in Edelstahl lieferbar.
 All metal parts available in stainless steel.



Komplett-Programm siehe Seiten 34 bis 35. Complete range please refer to pages 34 to 35.



GRÖSSE SIZE	AS-B Aufbauschraube ¹⁾ Stacking bolt ¹⁾				SB-B Sicherungsblech ¹⁾ Locking plate ¹⁾		US Sicherungsscheibe ²⁾ Locking washer ²⁾		
		l	d ₆	SW		S ₄		b	l
1	AS-B 1 (AS-A 0/A 1)	20	M6	11	SB-B 1	11	US-A	9	18
2	AS-B 2	22	M 8	12	SB-B 2	12	US-B 2	11	20
3	AS-B 3	30	M 8	12					
4	AS-B 4	35	M 8	12					
5	AS-B 5	47	M 8	12					

Metallteile auch in Edelstahl lieferbar.

¹⁾Für den Einsatz von Aufbauschrauben bei Aufbaumontage sind Sicherungsbleche notwendig

²⁾Bei Montage von Vollgummi-Schellen sind Deckplatten, Sechskantschrauben und Sicherungsscheiben zu verwenden

All metal parts available in stainless steel.

¹⁾The usage of stacking bolts necessitates the deployment of locking plates during the construction assembly

²⁾When assembling solid rubber clamps, cover plates, hexagon screws and locking washers must be used



Bestellzeichen für Schellenhälften:

Polypropylen **RBPR**
 innen glatt **RBPG**
 Polyamid 6 **RBNR**
 innen glatt **RBNG**
 Vollgummi **RBVG³⁾**

Bei Bedarf Standardkurzzeichen RBPR in der Spalte „Bestellzeichen“ austauschen.

Order codes for clamp-halves:

Polypropylene **RBPR**
 inside smooth **RBPG**
 Polyamide 6 **RBNR**
 inside smooth **RBNG**
 Rubber **RBVG³⁾**

Replace standard abbreviation RBPR in column "Order codes" as required.

2 Schellenhälften mit Anschweißplatte, Deckplatte und Sechskantschraube
 2 clamp halves with weld plate, cover plate and hexagon head screw



2 Schellenhälften mit Anschweißplatte, Deckplatte und Innensechskantschraube
 2 clamp halves with weld plate, cover plate and hexagon socket head screw



2 Schellenhälften mit Trag-schiene-Mutter, Deckplatte und Sechskantschraube
 2 clamp halves with rail nut, cover plate and hexagon head screw



GRÖSSE SIZE	Rohr-AD mm O.D. mm	Rohr-NW Tube NB	Rohr-AD Zoll Inch O.D.	Bestellzeichen Order Codes	Bestellzeichen Order Codes	Bestellzeichen Order Codes
1	6			RBPR 1-106	RBPR 3-106	RBPR 4-106
	6,4		1/4	RBPR 1-106,4	RBPR 3-106,4	RBPR 4-106,4
	8		5/16	RBPR 1-108	RBPR 3-108	RBPR 4-108
	9,5		3/8	RBPR 1-109,5	RBPR 3-109,5	RBPR 4-109,5
	10	G 1/8		RBPR 1-110	RBPR 3-110	RBPR 4-110
	12			RBPR 1-112	RBPR 3-112	RBPR 4-112
2	12,7		1/2	RBPR 1-212,7	RBPR 3-212,7	RBPR 4-212,7
	13,5	G 1/4		RBPR 1-213,5	RBPR 3-213,5	RBPR 4-213,5
	14			RBPR 1-214	RBPR 3-214	RBPR 4-214
	15			RBPR 1-215	RBPR 3-215	RBPR 4-215
	16		5/8	RBPR 1-216	RBPR 3-216	RBPR 4-216
	17,2	G 3/8		RBPR 1-217,2	RBPR 3-217,2	RBPR 4-217,2
	18			RBPR 1-218	RBPR 3-218	RBPR 4-218
3	19		3/4	RBPR 1-319	RBPR 3-319	RBPR 4-319
	20			RBPR 1-320	RBPR 3-320	RBPR 4-320
	21,3			RBPR 1-321,3	RBPR 3-321,3	RBPR 4-321,3
	22	G 1/2		RBPR 1-322	RBPR 3-322	RBPR 4-322
	25			RBPR 1-325	RBPR 3-325	RBPR 4-325
	25,4		1	RBPR 1-325,4	RBPR 3-325,4	RBPR 4-325,4
4	26,9	G 3/4		RBPR 1-426,9	RBPR 3-426,9	RBPR 4-426,9
	28			RBPR 1-428	RBPR 3-428	RBPR 4-428
	30			RBPR 1-430	RBPR 3-430	RBPR 4-430
5	32		1 1/4	RBPR 1-532	RBPR 3-532	RBPR 4-532
	33,7			RBPR 1-533,7	RBPR 3-533,7	RBPR 4-533,7
	35	G 1		RBPR 1-535	RBPR 3-535	RBPR 4-535
	38		1 1/2	RBPR 1-538	RBPR 3-538	RBPR 4-538
	40			RBPR 1-540	RBPR 3-540	RBPR 4-540
	42	G 1 1/4		RBPR 1-542	RBPR 3-542	RBPR 4-542

Werden andere Kombinationen benötigt, so bestellen Sie diese bitte in Einzelteilen (Bestellzeichen hierfür siehe Seiten 30 – 33). Die Auslieferung erfolgt unmontiert in Einzelteilen.

³⁾Bei Montage von Vollgummi-Schellen sind Deckplatten, Sechskantschrauben und Sicherungsscheiben zu verwenden

If different combinations are required, we would be obliged if they could be ordered as separate components (Please refer to individual components, pages 30 – 33). Delivery in unassembled individual components.

³⁾When assembling solid rubber tube clamps, cover plates, hexagon screws and locking washers must be used

ROHRSCHELLEN SERIE B | KOMPLETT-PROGRAMM TUBE CLAMPS SERIES B | COMPLETE RANGE

Bestellzeichen für Schellenhälften:

Polypropylen **RBPR**
innen glatt **RBPG**
Polyamid 6 **RBNR**
innen glatt **RBNG**
Vollgummi **RBVG³⁾**

Bei Bedarf Standardkurzzeichen RBPR in der Spalte „Bestellzeichen“ austauschen.

Order codes for clamp-halves:

Polypropylene **RBPR**
inside smooth **RBPG**
Polyamide 6 **RBNR**
inside smooth **RBNG**
Rubber **RBVG³⁾**

Replace standard abbreviation RBPR in column "Order codes" as required.

2 Schellenhälften mit Tragschienen-Mutter, Deckplatte und Innensechskantschraube
2 clamp halves with rail nut, cover plate and hexagon socket head screw



2 Schellenhälften mit Aufbauschraube und Sicherungsblech
2 clamp halves with stacking bolt and locking plate



2 Schellenhälften mit Deckplatte und Sechskantschraube
2 clamp halves with cover plate and hexagon head screw



GRÖSSE SIZE	Rohr-AD mm O.D. mm d ₁	Rohr-NW Tube NB	Rohr-AD Zoll Inch O.D.	Bestellzeichen Order Codes	Bestellzeichen Order Codes	Bestellzeichen Order Codes
1	6	G 1/8	1/4	RBPR 5-106	RBPR 8-106	RBPR 16-106
	6,4			RBPR 5-106,4	RBPR 8-106,4	RBPR 16-106,4
	8			RBPR 5-108	RBPR 8-108	RBPR 16-108
	9,5			RBPR 5-109,5	RBPR 8-109,5	RBPR 16-109,5
	10			RBPR 5-110	RBPR 8-110	RBPR 16-110
	12			RBPR 5-112	RBPR 8-112	RBPR 16-112
2	12,7	G 3/8	1/2	RBPR 5-212,7	RBPR 8-212,7	RBPR 16-212,7
	13,5			RBPR 5-213,5	RBPR 8-213,5	RBPR 16-213,5
	14			RBPR 5-214	RBPR 8-214	RBPR 16-214
	15			RBPR 5-215	RBPR 8-215	RBPR 16-215
	16			RBPR 5-216	RBPR 8-216	RBPR 16-216
	17,2			RBPR 5-217,2	RBPR 8-217,2	RBPR 16-217,2
	18			RBPR 5-218	RBPR 8-218	RBPR 16-218
3	19	G 1/2	3/4	RBPR 5-319	RBPR 8-319	RBPR 16-319
	20			RBPR 5-320	RBPR 8-320	RBPR 16-320
	21,3			RBPR 5-321,3	RBPR 8-321,3	RBPR 16-321,3
	22			RBPR 5-322	RBPR 8-322	RBPR 16-322
	25			RBPR 5-325	RBPR 8-325	RBPR 16-325
	25,4			RBPR 5-325,4	RBPR 8-325,4	RBPR 16-325,4
4	26,9	G 3/4	1	RBPR 5-426,9	RBPR 8-426,9	RBPR 16-426,9
	28			RBPR 5-428	RBPR 8-428	RBPR 16-428
	30			RBPR 5-430	RBPR 8-430	RBPR 16-430
5	32	G 1	1 1/4	RBPR 5-532	RBPR 8-532	RBPR 16-532
	33,7			RBPR 5-533,7	RBPR 8-533,7	RBPR 16-533,7
	35			RBPR 5-535	RBPR 8-535	RBPR 16-535
	38			RBPR 5-538	RBPR 8-538	RBPR 16-538
	40			RBPR 5-540	RBPR 8-540	RBPR 16-540
	42			RBPR 5-542	RBPR 8-542	RBPR 16-542

Werden andere Kombinationen benötigt, so bestellen Sie diese bitte in Einzelteilen (Bestellzeichen hierfür siehe Seiten 30 – 33). Die Auslieferung erfolgt unmontiert in Einzelteilen.

³⁾Bei Montage von Vollgummi-Schellen sind Deckplatten, Sechskantschrauben und Sicherungsscheiben zu verwenden

If different combinations are required, we would be obliged if they could be ordered as separate components (Please refer to individual components, pages 30 – 33). Delivery in unassembled individual components.

³⁾When assembling solid rubber tube clamps, cover plates, hexagon screws and locking washers must be used

DAS INNOVATIVE DESIGN

- VON DER NATUR ABGESCHAUT - DIE WABENSTRUKTUR

INNOVATIVE DESIGN

- INSPIRED BY NATURE - HONEYCOMB-STRUCTURE



DIE VORTEILE

- Optimierte Produktgeometrie
- Beste Druckverteilung
- Höchstmögliche Rohrhaltekräfte

In allen Standardmaterialien verfügbar.

ADVANTAGES

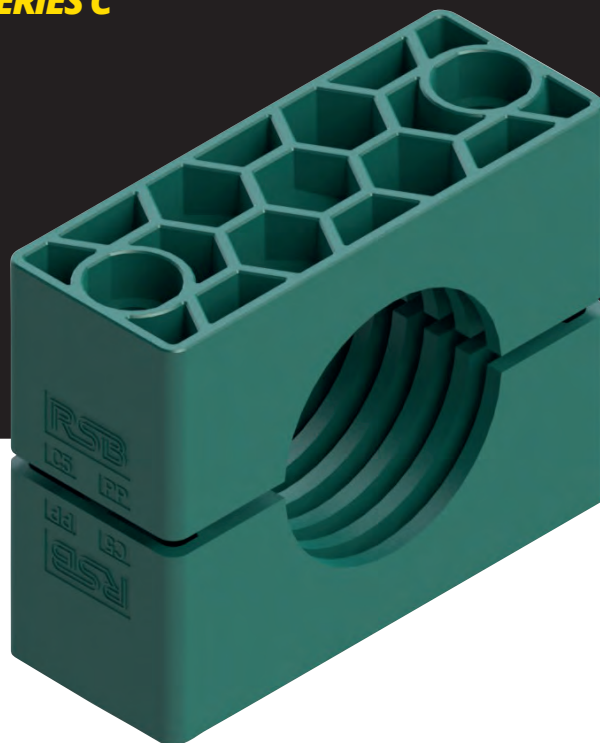
- Optimized product-geometry
- Best possible distribution of pressure
- Highest possible tube holding force

All standard materials available.

// 04

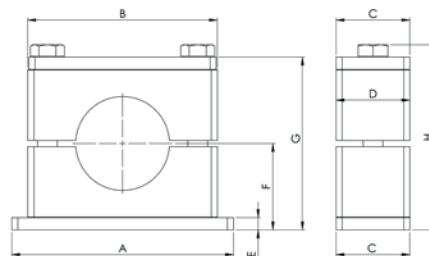
ROHRSCHELLEN SERIE C

TUBE CLAMPS SERIES C



// ABMESSUNGEN UND GEWICHTE VON KOMPLETTSCHELLEN (MM)

// DIMENSIONS AND WEIGHTS OF TUBE CLAMPS, COMPLETE (MM)



GRÖSSE SIZE	A	B	C	D	E	F		G		H		GEWICHT / 10 STK. WEIGHT / 10 PCS. RCPR3-xxx (kg)
						Rippen Grooved	Glatt Smooth	Rippen Grooved	Glatt Smooth	Rippen Grooved	Glatt Smooth	
1	73	56	30	30	8	24	23	48	46	54,4	52,4	0,31
2	84	71	30	30	8	32	31	64	62	70,4	68,4	0,41
3	100	86	30	30	8	38	37	76	74	82,4	80,4	0,48
4	140	117	45	45	10	55	53,5	110	107	117,5	114,5	1,24
5	180	154	60	60	10	70	67,5	140	135	150	145	2,43
6	225	206	80	80	15	99	96	198	192	210,5	204,5	6,12
7	270	251	90	90	15	115	112	230	224	245	239	8,69
8	340	320	120	120	25	160	157	320	314	333,7	327,7	22,49
9	520	470	160	162	30	235	-	470	-	488,7	-	51,23
10	680	630	180	182	30	295	-	590	-	608,7	-	74,38

Das Gewicht wurde mit dem kleinsten Durchmesser (siehe Katalog) und der Standard-Ausführung der Stahlteile der jeweiligen Größe in losen Zustand ermittelt.
The weight was determined with the smallest diameter (see catalogue) and the standard model of the steel parts of the respective quantity in bulk.

Bestellzeichen für Schellenhälften:

Polypropylen
 innen glatt **RCPR**
RCPG^{1) 2)}
 Polyamid 6
 innen glatt **RCNR**
RCNG^{1) 2)}
 Vollgummi **RCVR^{1) 3)}**
RCVG^{1) 2) 3)}

Aluminium **RCAR**

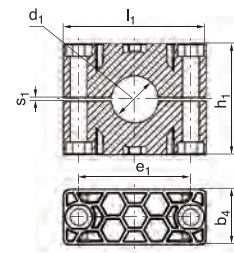
Bei Bedarf Standardkurzzeichen RCPR in der Spalte „Schellenhälften“ austauschen.

Order codes for clamp-halves:

Polypropylene
 inside smooth **RCPR**
RCPG^{1) 2)}
 Polyamide 6
 inside smooth **RCNR**
RCNG^{1) 2)}
 Rubber **RCVR^{1) 3)}**
RCVG^{1) 2) 3)}

Aluminium **RCAR**

Replace standard abbreviation RCPR in column "clamp-halves" as required.



GRÖSSE SIZE	Rohr-AD mm O.D. mm	Rohr-NW Tube NB	Rohr-AD Zoll Inch O.D.	RCPR 1 Stück / 2 Schellenhälften 1 part / 2 clamp-halves	RCPR-... 2 Schellenhälften 2 clamp-halves				
	d ₁				l ₁	h ₁	e ₁	s ₁	b ₄
1	6	G 1/8	5/16	RCPR-106 RCPR-108 RCPR-109,5 RCPR-110 RCPR-112 RCPR-112,7 RCPR-113,5 RCPR-114 RCPR-115 RCPR-116 RCPR-117,2 RCPR-118	56	32	33	2	30
	8								
	9,5		1/2						
	10								
	12	G 3/8							
	12,7								
	13,5								
	14								
	15								
	16								
17,2	1								
18									
2	19	G 1/2	3/4	RCPR-219 RCPR-220 RCPR-221,3 RCPR-222 RCPR-223 RCPR-225 RCPR-225,4 RCPR-226,9 RCPR-228 RCPR-230	71	48	45	2	30
	20								
	21,3		G 3/4						
	22								
	23								
	25								
	25,4								
	26,9								
	28								
	30								
3	30	G 1	1 1/4	RCPR-330 RCPR-332 RCPR-333,7 RCPR-335 RCPR-338 RCPR-340 RCPR-342	86	60	60	2	30
	32								
	33,7		G 1 1/4						
	35								
	38								
	40								
42									
4	38	G 1 1/4	1 1/2	RCPR-438 RCPR-440 RCPR-442 RCPR-445 RCPR-448,3 RCPR-450 RCPR-451 RCPR-452 RCPR-455 RCPR-457 RCPR-460,3 RCPR-463 RCPR-465 RCPR-470	117	90	90	3	45
	40								
	42		G 2						
	45								
	48,3								
	50								
	51								
	52								
	55								
	57								
	60,3								
	63								
65									
70									

¹⁾Nur in Größen 1 – 8 ²⁾ohne Vorspannung

³⁾Bei Montage von Vollgummi-Schellen sind Deckplatten, Sechskantschrauben und Sicherungsscheiben zu verwenden

¹⁾Only sizes 1 – 8 ²⁾without prestress

³⁾When assembling solid rubber tube clamps, cover plates, hexagon screws and locking washers must be used

ROHRSCHELLEN SERIE C (SCHWERE BAUREIHE) | DIN 3015, TEIL 2 | EINZELTEILE
TUBE CLAMPS SERIES C (HEAVY SERIES) | DIN 3015, PART 2 | COMPONENTS

Bestellzeichen

für Schellenhälften:

Polypropylen **RCPR**
 innen glatt **RCPG^(1) 2)**
 Polyamid 6 **RCNR**
 innen glatt **RCNG^(1) 2)**
 Vollgummi **RCVR^(1) 3)**
RCVG^(1) 2) 3)

Aluminium **RCAR**

Bei Bedarf Standardkurzzeichen RCPR in der Spalte „Schellenhälften“ austauschen.

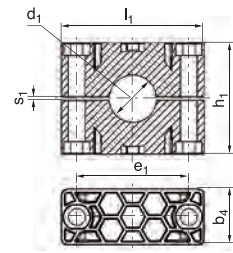
Order codes

for clamp-halves:

Polypropylene **RCPR**
 inside smooth **RCPG^(1) 2)**
 Polyamide 6 **RCNR**
 inside smooth **RCNG^(1) 2)**
 Rubber **RCVR^(1) 3)**
RCVG^(1) 2) 3)

Aluminium **RCAR**

Replace standard abbreviation RCPR in column "clamp-halves" as required.

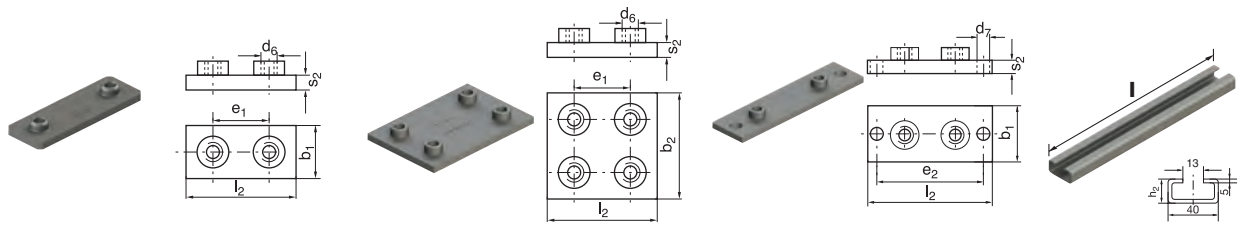


GRÖSSE SIZE	Rohr-AD mm O.D. mm	Rohr-NW Tube NB	Rohr-AD Zoll Inch O.D.	RCPR 1 Stück / 2 Schellenhälften 1 part / 2 clamp-halves	RCPR... 2 Schellenhälften 2 clamp-halves				
	d ₁				l ₁	h ₁	e ₁	s ₁	b ₄
5	65	G 2 1/2	3	RCPR-565	154	120	122	5	60
	70			RCPR-570					
	73			RCPR-573					
	75			RCPR-575					
	76,1			RCPR-576,1					
	80	RCPR-580							
	82,5	RCPR-582,5							
	85	RCPR-585							
	88,9	RCPR-588,9							
90	G 3	3 1/2	RCPR-590						
6	90	G 3 1/2	4	RCPR-690	206	168	168	6	80
	97			RCPR-697					
	100			RCPR-6100					
	101,6			RCPR-6101,6					
	108	RCPR-6108							
	114,3	G 4	4 1/2	RCPR-6114,3					
	127	5	RCPR-6127						
7	127	G 5	5	RCPR-7127	251	200	205	6	90
	130			RCPR-7130					
	133			RCPR-7133					
	140			RCPR-7140					
	150			RCPR-7150					
	152,4	G 6	6	RCPR-7152,4					
	159			RCPR-7159					
	165,1			RCPR-7165,1					
	168,3			RCPR-7168,3					
8	168,3	G 6	8	RCPR-8168,3	320	270	265	6	120
	177,8	RCPR-8177,8							
	193,7	RCPR-8193,7							
	203	RCPR-8203							
	219,1	G 8		RCPR-8219,1					
	220	RCPR-8220							
9	219,1	G 8		RCPR-9219,1	470	410	395	20	162
	244,5	RCPR-9244,5							
	273	G 10		RCPR-9273					
	323,9	G 12		RCPR-9323,9					
10	355,6	G 14		RCPR-10355,6	630	530	534	20	182
	406,4	G 16		RCPR-10406,4					

¹⁾Nur in Größen 1 – 8 ²⁾ohne Vorspannung ³⁾Bei Montage von Vollgummi-Schellen sind Deckplatten, Sechskantschrauben und Sicherungsscheiben zu verwenden
¹⁾Only sizes 1 – 8 ²⁾without prestress ³⁾When assembling solid rubber tube clamps, cover plates, hexagon screws and locking washers must be used

ROHRSCHELLEN SERIE C (SCHWERE BAUREIHE) | DIN 3015, TEIL 2 | EINZELTEILE
TUBE CLAMPS SERIES C (HEAVY SERIES) | DIN 3015, PART 2 | COMPONENTS

Komplett-Programm siehe Seiten 43 bis 48. Complete range please refer to pages 43 to 48.



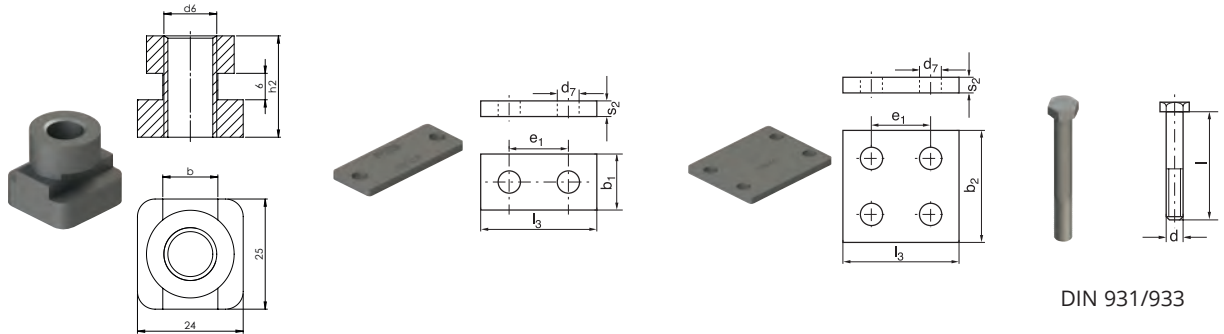
GRÖSSE SIZE	AP-C Anschweißplatte Weld plate						APD-C Anschweißplatte, doppelt Weld plate, double						APL-C Anschweiß- u. Schraubplatte Weld- and screw plate, elongated						TS-C Tragschiene Mounting rail		
	e ₁	b ₁	l ₂	s ₂	d ₆		e ₁	b ₂	l ₂	s ₂	d ₆		l ₂	b ₁	s ₂	e ₂	d ₇		l	h ₂	
1	AP-C 1	33	30	73	8	M 10	APD-C 1	33	60	73	8	M 10	APL-C 1	113	30	8	85	11	TS-C 1 TS-C 2	1m 2m	22
2	AP-C 2	45	30	84	8	M 10	APD-C 2	45	60	84	8	M 10	APL-C 2	125	30	8	97	11			
3	AP-C 3	60	30	100	8	M 10	APD-C 3	60	60	100	8	M 10	APL-C 3	140	30	8	112	11			
4	AP-C 4	90	45	140	10	M 12	APD-C 4	90	90	140	10	M 12	APL-C 4	190	45	10	160	14			
5	AP-C 5	122	60	180	10	M 16	APD-C 5	122	120	180	10	M 16	APL-C 5	240	60	10	205	18			
6	AP-C 6	168	80	225	15	M 20	APD-C 6	168	160	225	15	M 20	APL-C 6	310	80	15	270	22			
7	AP-C 7	205	90	270	15	M 24	APD-C 7	205	180	270	15	M 24	APL-C 7	370	90	15	320	26			
8	AP-C 8	265	120	340	25	M 30	APD-C 8	265	240	340	25	M 30	APL-C 8	450	120	25	390	33			
9	AP-C 9	395	160	520	30	M 30	APD-C 9	395	330	520	30	M 30									
10	AP-C 10	534	180	680	30	M 30	APD-C 10	534	370	680	30	M 30									

Metallteile in Edelstahl lieferbar.
 All metal parts available in stainless steel.



ROHRSCHELLEN SERIE C (SCHWERE BAUREIHE) | DIN 3015, TEIL 2 | EINZELTEILE
TUBE CLAMPS SERIES C (HEAVY SERIES) | DIN 3015, PART 2 | COMPONENTS

Komplett-Programm siehe Seiten 43 bis 48. Complete range please refer to pages 43 to 48.



DIN 931/933

GRÖSSE SIZE	TM-C Tragschienen-Mutter Rail nut			DP-C Deckplatte Cover plate					DPD-C Deckplatte, doppelt Cover plate, double					SS-C Sechskantschraube Hexagon head screw				
	h ₂	b	d ₆	l ₃	e ₁	b ₁	s ₂	d ₇	l ₃	e ₁	b ₂	s ₂	d ₇	d	x	l		
1				DP-C 1	55	33	30	8	11	DPD-C 1	55	33	60	8	11	SS-C 1	M 10 x 40	
2	TM-C 1	20	12	M 10	DP-C 2	70	45	30	8	11	DPD-C 2	70	45	60	8	11	SS-C 2	M 10 x 60
3					DP-C 3	85	60	30	8	11	DPD-C 3	85	60	60	8	11	SS-C 3	M 10 x 70
4	TM-C 4	23	12,5	M 12	DP-C 4	115	90	45	10	14	DPD-C 4	115	90	90	10	14	SS-C 4	M 12 x 100
5					DP-C 5	152	122	60	10	18	DPD-C 5	152	122	120	10	18	SS-C 5	M 16 x 130
6					DP-C 6	205	168	80	15	22	DPD-C 6	205	168	160	15	24	SS-C 6	M 20 x 190
7					DP-C 7	251	205	90	15	28	DPD-C 7	250	205	180	15	28	SS-C 7	M 24 x 220
8					DP-C 8	320	265	120	25	35	DPD-C 8	322	265	240	25	35	SS-C 8	M 30 x 300
9					DP-C 9	470	395	160	30	35	DPD-C 9	470	395	330	30	35	SS-C 9 ¹⁾	M 30 x 450
10					DP-C 10	630	534	180	30	35	DPD-C 10	630	534	360	30	35	SS-C 10 ¹⁾	M 30 x 560

Metallteile in Edelstahl lieferbar.

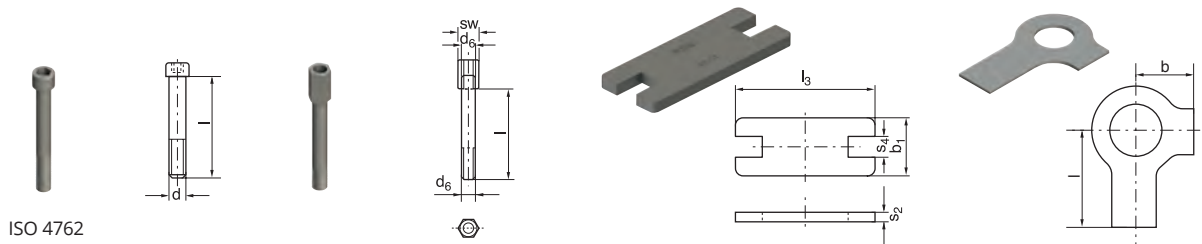
¹⁾ Länge nicht handelsüblich - evtl. längere Lieferzeit

All metal parts available in stainless steel.

¹⁾ length not commercially available - extended lead time may occur



Komplett-Programm siehe Seiten 43 bis 48. Complete range please refer to pages 43 to 48.



GRÖSSE SIZE	IS-C Innensechskantschraube Hexagon socketed head screw			AS-C Aufbauschraube ¹⁾ Stacking bolt ¹⁾			SP-C Sicherungsplatte ¹⁾ Locking plate ¹⁾				US-C Sicherungsscheibe ²⁾ Locking washer ²⁾				
		d	x	l	l	d ₆	sw	l ₃	b ₁	s ₂	s ₄	b	l		
1	IS-C 1	M 10	x	40	AS-C 1	25	M 10	15	SP-C 1	55	30	8	15,5		
2	IS-C 2	M 10	x	60	AS-C 2	40	M 10	15	SP-C 2	70	30	8	15,5	US-C 1	13 22
3	IS-C 3	M 10	x	70	AS-C 3	50	M 10	15	SP-C 3	85	30	8	15,5		
4	IS-C 4	M 12	x	100	AS-C 4	80	M 12	17	SP-C 4	115	45	10	17,5	US-C 4	15 28
5	IS-C 5	M 16	x	130	AS-C 5	110	M 16	21	SP-C 5	152	60	10	21,5	US-C 5	18 32
6	IS-C 6	M 20	x	190	AS-C 6	155	M 20	27	SP-C 6	205	80	15	27,5	US-C 6	21 36
7	IS-C 7 ³⁾	M 24	x	220	AS-C 7	180	M 24	30	SP-C 7	250	90	15	30,5	US-C 7	25 42
8	IS-C 8 ³⁾	M 30	x	300	AS-C 8	250	M 30	36	SP-C 8	320	120	25	36,5	US-C 8	32 52
9	IS-C 9 ³⁾	M 30	x	450											
10	IS-C 10 ³⁾	M 30	x	560											

Metallteile in Edelstahl lieferbar.

¹⁾Für den Einsatz von Aufbauschrauben bei Aufbaumontage sind Sicherungsplatten notwendig

²⁾Bei Montage von Vollgummi-Schellen sind Deckplatten, Sechskantschrauben und Sicherungsscheiben zu verwenden

³⁾ Länge nicht handelsüblich – evtl. längere Lieferzeit

All metal parts available in stainless steel.

¹⁾The usage of stacking bolts necessitates the deployment of locking plates during the construction assembly

²⁾When assembling solid rubber clamps, cover plates, hexagon screws and locking washers must be used

³⁾ length not commercially available – extended lead time may occur



ROHRSCHELLEN SERIE C | KOMPLETT-PROGRAMM TUBE CLAMPS SERIES C | COMPLETE RANGE

Bestellzeichen

für Schellenhälften:

Polypropylen **RCPR**
innen glatt **RCPG¹⁾**
Polyamid 6 **RCNR**
innen glatt **RCNG¹⁾**
Vollgummi **RCVR^{1) 3)}**
RCVG^{1) 3)}

Aluminium **RCAR**

Bei Bedarf Standardkurzzeichen RCPR in der Spalte „Bestellzeichen“ austauschen.

Order codes

for clamp-halves:

Polypropylene **RCPR**
inside smooth **RCPG¹⁾**
Polyamide 6 **RCNR**
inside smooth **RCNG¹⁾**
Rubber **RCVR^{1) 3)}**
RCVG^{1) 3)}

Aluminium **RCAR**

Replace standard abbreviation RCPR in column "Order codes" as required.

2 Schellenhälften mit
Anschweißplatte, Deckplatte
und Sechskantschrauben
2 clamp halves with weld plate,
cover plate and hexagon head screws



2 Schellenhälften mit
Anschweißplatte, Deckplatte
und Innensechskantschrauben
2 clamp halves with weld plate,
cover plate and hexagon socket head screws



GRÖSSE SIZE	Rohr-AD mm O.D. mm	Rohr-NW Tube NB	Rohr-AD Zoll Inch O.D.	Bestellzeichen Order Codes	Bestellzeichen Order Codes
1	6	G 1/8	5/16 3/8	RCPR 1-106	RCPR 2-106
	8			RCPR 1-108	RCPR 2-108
	9,5			RCPR 1-109,5	RCPR 2-109,5
	10			RCPR 1-110	RCPR 2-110
	12			RCPR 1-112	RCPR 2-112
	12,7	G 1/4	1/2	RCPR 1-112,7	RCPR 2-112,7
	13,5			RCPR 1-113,5	RCPR 2-113,5
	14			RCPR 1-114	RCPR 2-114
	15	G 3/8	5/8	RCPR 1-115	RCPR 2-115
	16			RCPR 1-116	RCPR 2-116
17,2	RCPR 1-117,2			RCPR 2-117,2	
18	RCPR 1-118			RCPR 2-118	
2	19	G 1/2	3/4	RCPR 1-219	RCPR 2-219
	20			RCPR 1-220	RCPR 2-220
	21,3			RCPR 1-221,3	RCPR 2-221,3
	22			RCPR 1-222	RCPR 2-222
	23			RCPR 1-223	RCPR 2-223
	25	G 3/4	1	RCPR 1-225	RCPR 2-225
	25,4			RCPR 1-225,4	RCPR 2-225,4
	26,9			RCPR 1-226,9	RCPR 2-226,9
	28			RCPR 1-228	RCPR 2-228
	30			RCPR 1-230	RCPR 2-230
3	30	G 1	1 1/4	RCPR 1-330	RCPR 2-330
	32			RCPR 1-332	RCPR 2-332
	33,7			RCPR 1-333,7	RCPR 2-333,7
	35	G 1 1/4	1 1/2	RCPR 1-335	RCPR 2-335
	38			RCPR 1-338	RCPR 2-338
	40			RCPR 1-340	RCPR 2-340
42	RCPR 1-342	RCPR 2-342			
4	38	G 1 1/4	1 1/2	RCPR 1-438	RCPR 2-438
	40			RCPR 1-440	RCPR 2-440
	42			RCPR 1-442	RCPR 2-442
	45	G 1 1/2	2	RCPR 1-445	RCPR 2-445
	48,3			RCPR 1-448,3	RCPR 2-448,3
	50			RCPR 1-450	RCPR 2-450
	51	G 2	2 1/4	RCPR 1-451	RCPR 2-451
	52			RCPR 1-452	RCPR 2-452
	55			RCPR 1-455	RCPR 2-455
	57			RCPR 1-457	RCPR 2-457
	60,3	2 1/2	2 1/2	RCPR 1-460,3	RCPR 2-460,3
	63			RCPR 1-463	RCPR 2-463
	65			RCPR 1-465	RCPR 2-465
70	RCPR 1-470			RCPR 2-470	

Werden andere Kombinationen benötigt, so bestellen Sie diese bitte in Einzelteilen (Bestellzeichen hierfür siehe Seiten 38 – 42).

Die Auslieferung erfolgt unmontiert in Einzelteilen. ¹⁾Nur in Größen 1 – 8 ²⁾Bei Montage von Vollgummi-Schellen sind Deckplatten, Sechskantschrauben und Sicherungsscheiben zu verwenden

If different combinations are required, we would be obliged if they could be ordered as separate components (Please refer to individual components, pages 38 – 42). Delivery in unassembled individual components. ¹⁾Only sizes 1 – 8 ²⁾When assembling solid rubber tube clamps, cover plates, hexagon screws and locking washers must be used

Bestellzeichen

für Schellenhälften:

Polypropylen **RCPR**
 innen glatt **RCPG¹⁾**
 Polyamid 6 **RCNR**
 innen glatt **RCNG¹⁾**
 Vollgummi **RCVR^{1) 3)}**
RCVG^{1) 3)}
 Aluminium **RCAR**

Bei Bedarf Standardkurzzeichen RCPR in der Spalte „Bestellzeichen“ austauschen.

Order codes

for clamp-halves:

Polypropylene **RCPR**
 inside smooth **RCPG¹⁾**
 Polyamide 6 **RCNR**
 inside smooth **RCNG¹⁾**
 Rubber **RCVR^{1) 3)}**
RCVG^{1) 3)}
 Aluminium **RCAR**

Replace standard abbreviation RCPR in column "Order codes" as required.

2 Schellenhälften mit Anschweißplatte, Deckplatte und Sechskantschrauben
 2 clamp halves with weld plate, cover plate and hexagon head screws



2 Schellenhälften mit Anschweißplatte, Deckplatte und Innensechskantschrauben
 2 clamp halves with weld plate, cover plate and hexagon socket head screws



GRÖSSE SIZE	Rohr-AD mm O.D. mm	Rohr-NW Tube NB	Rohr-AD Zoll Inch O.D.	Bestellzeichen Order Codes	Bestellzeichen Order Codes
5	65	G 2 1/2	2 3/4	RCPR 1-565	RCPR 2-565
	70			RCPR 1-570	RCPR 2-570
	73			RCPR 1-573	RCPR 2-573
	75			RCPR 1-575	RCPR 2-575
	76,1			RCPR 1-576,1	RCPR 2-576,1
	80	G 3	3	RCPR 1-580	RCPR 2-580
	82,5			RCPR 1-582,5	RCPR 2-582,5
	85			RCPR 1-585	RCPR 2-585
	88,9			RCPR 1-588,9	RCPR 2-588,9
	90			RCPR 1-590	RCPR 2-590
6	90	G 3 1/2	4	RCPR 1-690	RCPR 2-690
	97			RCPR 1-697	RCPR 2-697
	100			RCPR 1-6100	RCPR 2-6100
	101,6	G 4	4 1/2	RCPR 1-6101,6	RCPR 2-6101,6
	108			RCPR 1-6108	RCPR 2-6108
	114,3			RCPR 1-6114,3	RCPR 2-6114,3
127	G 6	5	RCPR 1-6127	RCPR 2-6127	
127			RCPR 1-7127	RCPR 2-7127	
7	130	G 5	5	RCPR 1-7130	RCPR 2-7130
	133			RCPR 1-7133	RCPR 2-7133
	140			RCPR 1-7140	RCPR 2-7140
	150			RCPR 1-7150	RCPR 2-7150
	152,4	G 6	6	RCPR 1-7152,4	RCPR 2-7152,4
	159			RCPR 1-7159	RCPR 2-7159
	165,1			RCPR 1-7165,1	RCPR 2-7165,1
	168,3			RCPR 1-7168,3	RCPR 2-7168,3
8	168,3	G 6	8	RCPR 1-8168,3	RCPR 2-8168,3
	177,8			RCPR 1-8177,8	RCPR 2-8177,8
	193,7	G 8		RCPR 1-8193,7	RCPR 2-8193,7
	203			RCPR 1-8203	RCPR 2-8203
	219,1			RCPR 1-8219,1	RCPR 2-8219,1
	220			RCPR 1-8220	RCPR 2-8220
9	219,1	G 8		RCPR 1-9219,1	RCPR 2-9219,1
	244,5	G 10		RCPR 1-9244,5	RCPR 2-9244,5
	273	G 12		RCPR 1-9273	RCPR 2-9273
	323,9			RCPR 1-9323,9	RCPR 2-9323,9
10	355,6	G 14		RCPR 1-10355,6	RCPR 2-10355,6
	406,4	G 16		RCPR 1-10406,4	RCPR 2-10406,4

Werden andere Kombinationen benötigt, so bestellen Sie diese bitte in Einzelteilen (Bestellzeichen hierfür siehe Seiten 38 – 42). Die Auslieferung erfolgt unmontiert in Einzelteilen. ¹⁾Nur in Größen 1 – 8 ³⁾Bei Montage von Vollgummi-Schellen sind Deckplatten, Sechskantschrauben und Sicherungsscheiben zu verwenden

If different combinations are required, we would be obliged if they could be ordered as separate components (Please refer to individual components, pages 38 – 42). Delivery in unassembled individual components. ¹⁾Only sizes 1 – 8 ³⁾When assembling solid rubber tube clamps, cover plates, hexagon screws and locking washers must be used

ROHRSCHELLEN SERIE C | KOMPLETT-PROGRAMM
TUBE CLAMPS SERIES C | COMPLETE RANGE

Bestellzeichen für Schellenhälften:

Polypropylen **RCPR**
 innen glatt **RCPG¹⁾**
 Polyamid 6 **RCNR**
 innen glatt **RCNG¹⁾**
 Vollgummi **RCVR^{1) 3)}**
RCVG^{1) 3)}
 Aluminium **RCAR**

Bei Bedarf Standardkurzzeichen RCPR in der Spalte „Bestellzeichen“ austauschen.

Order codes for clamp-halves:

Polypropylene **RCPR**
 inside smooth **RCPG¹⁾**
 Polyamide 6 **RCNR**
 inside smooth **RCNG¹⁾**
 Rubber **RCVR^{1) 3)}**
RCVG^{1) 3)}
 Aluminium **RCAR**

Replace standard abbreviation RCPR in column "Order codes" as required.

2 Schellenhälften mit Tragschienen-Muttern, Deckplatte und Sechskantschrauben
 2 clamp halves with rail nut, cover plate and hexagon head screws



2 Schellenhälften mit Tragschienen-Muttern, Deckplatte und Innensechskantschrauben
 2 clamp halves with rail nut, cover plate and hexagon socket head screws



2 Schellenhälften mit Aufbauschrauben und Sicherungsplatte
 2 clamp halves with stacking bolts and locking plate



GRÖSSE SIZE	Rohr-AD mm O.D. mm	Rohr-NW Tube NB	Rohr-AD Zoll Inch O.D.	Bestellzeichen Order Codes	Bestellzeichen Order Codes	Bestellzeichen Order Codes	
1	6	G 1/8	5/16	RCPR 3-106	RCPR 4-106	RCPR 5-106	
	8			RCPR 3-108	RCPR 4-108	RCPR 5-108	
	9,5		G 1/4	3/8	RCPR 3-109,5	RCPR 4-109,5	RCPR 5-109,5
	10				RCPR 3-110	RCPR 4-110	RCPR 5-110
	12			5/8	1/2	RCPR 3-112	RCPR 4-112
	12,7	RCPR 3-112,7	RCPR 4-112,7		RCPR 5-112,7		
	13,5	G 3/8	5/8	RCPR 3-113,5	RCPR 4-113,5	RCPR 5-113,5	
	14			RCPR 3-114	RCPR 4-114	RCPR 5-114	
	15			RCPR 3-115	RCPR 4-115	RCPR 5-115	
	16			RCPR 3-116	RCPR 4-116	RCPR 5-116	
	17,2			RCPR 3-117,2	RCPR 4-117,2	RCPR 5-117,2	
	18	RCPR 3-118	RCPR 4-118	RCPR 5-118			
	2	19	G 1/2	3/4	RCPR 3-219	RCPR 4-219	RCPR 5-219
20		RCPR 3-220			RCPR 4-220	RCPR 5-220	
21,3		RCPR 3-221,3			RCPR 4-221,3	RCPR 5-221,3	
22		RCPR 3-222			RCPR 4-222	RCPR 5-222	
23		RCPR 3-223			RCPR 4-223	RCPR 5-223	
25		G 3/4	1	RCPR 3-225	RCPR 4-225	RCPR 5-225	
25,4				RCPR 3-225,4	RCPR 4-225,4	RCPR 5-225,4	
26,9				RCPR 3-226,9	RCPR 4-226,9	RCPR 5-226,9	
28				RCPR 3-228	RCPR 4-228	RCPR 5-228	
30				RCPR 3-230	RCPR 4-230	RCPR 5-230	
3	30	G 1	1 1/4	RCPR 3-330	RCPR 4-330	RCPR 5-330	
	32			RCPR 3-332	RCPR 4-332	RCPR 5-332	
	33,7			RCPR 3-333,7	RCPR 4-333,7	RCPR 5-333,7	
	35	G 1 1/4	1 1/2	RCPR 3-335	RCPR 4-335	RCPR 5-335	
	38			RCPR 3-338	RCPR 4-338	RCPR 5-338	
	40			RCPR 3-340	RCPR 4-340	RCPR 5-340	
42	RCPR 3-342	RCPR 4-342	RCPR 5-342				
4	38	G 1 1/4	1 1/2	RCPR 3-438	RCPR 4-438	RCPR 5-438	
	40			RCPR 3-440	RCPR 4-440	RCPR 5-440	
	42			RCPR 3-442	RCPR 4-442	RCPR 5-442	
	45	G 1 1/2	2	RCPR 3-445	RCPR 4-445	RCPR 5-445	
	48,3			RCPR 3-448,3	RCPR 4-448,3	RCPR 5-448,3	
	50			RCPR 3-450	RCPR 4-450	RCPR 5-450	
	51	G 2	2 1/4	RCPR 3-451	RCPR 4-451	RCPR 5-451	
	52			RCPR 3-452	RCPR 4-452	RCPR 5-452	
	55			RCPR 3-455	RCPR 4-455	RCPR 5-455	
	57			RCPR 3-457	RCPR 4-457	RCPR 5-457	
	60,3			RCPR 3-460,3	RCPR 4-460,3	RCPR 5-460,3	
	63	2 1/2	2 1/2	RCPR 3-463	RCPR 4-463	RCPR 5-463	
	65			RCPR 3-465	RCPR 4-465	RCPR 5-465	
70	RCPR 3-470			RCPR 4-470	RCPR 5-470		

Werden andere Kombinationen benötigt, so bestellen Sie diese bitte in Einzelteilen (Bestellzeichen hierfür siehe Seiten 38 – 42). Die Auslieferung erfolgt unmontiert in Einzelteilen. ¹⁾Nur in Größen 1 – 8 ³⁾Bei Montage von Vollgummi-Schellen sind Deckplatten, Sechskantschrauben und Sicherungsscheiben zu verwenden

If different combinations are required, we would be obliged if they could be ordered as separate components (Please refer to individual components, pages 38 – 42). Delivery in unassembled individual components. ¹⁾Only sizes 1 – 8 ³⁾When assembling solid rubber tube clamps, cover plates, hexagon screws and locking washers must be used

Bestellzeichen

für Schellenhälften:

Polypropylen **RCPR**
 innen glatt **RCPG¹⁾**
 Polyamid 6 **RCNR**
 innen glatt **RCNG¹⁾**
 Vollgummi **RCVR^{1) 3)}**
RCVG^{1) 3)}
 Aluminium **RCAR**

Bei Bedarf Standardkurzzeichen RCPR in der Spalte „Bestellzeichen“ austauschen.

Order codes

for clamp-halves:

Polypropylene **RCPR**
 inside smooth **RCPG¹⁾**
 Polyamide 6 **RCNR**
 inside smooth **RCNG¹⁾**
 Rubber **RCVR^{1) 3)}**
RCVG^{1) 3)}
 Aluminium **RCAR**

Replace standard abbreviation RCPR in column "Order codes" as required.

2 Schellenhälften mit Tragschienen-Muttern, Deckplatte und Sechskantschrauben
 2 clamp halves with rail nut, cover plate and hexagon head screws



2 Schellenhälften mit Tragschienen-Muttern, Deckplatte und Innensechskantschrauben
 2 clamp halves with rail nut, cover plate and hexagon socket head screws



2 Schellenhälften mit Aufbauschrauben und Sicherungsplatte
 2 clamp halves with stacking bolts and locking plate



GRÖSSE SIZE	Rohr-AD mm O.D. mm	Rohr-NW Tube NB	Rohr-AD Zoll Inch O.D.	Bestellzeichen Order Codes	Bestellzeichen Order Codes	Bestellzeichen Order Codes
5	65	G 2½	2¾			RCPR 5-565
	70					RCPR 5-570
	73					RCPR 5-573
	75					RCPR 5-575
	76,1	G 3	3			RCPR 5-576,1
	80					RCPR 5-580
	82,5					RCPR 5-582,5
	85					RCPR 5-585
88,9	G 3	3½	RCPR 5-588,9			
90			RCPR 5-590			
6	90	G 3½	4			RCPR 5-690
	97					RCPR 5-697
	100					RCPR 5-6100
	101,6	G 4	4½			RCPR 5-6101,6
	108					RCPR 5-6108
	114,3					RCPR 5-6114,3
127		5	RCPR 5-6127			
7	127	G 5	5			RCPR 5-7127
	130					RCPR 5-7130
	133					RCPR 5-7133
	140					RCPR 5-7140
	150	G 6	6			RCPR 5-7150
	152,4					RCPR 5-7152,4
	159					RCPR 5-7159
	165,1					RCPR 5-7165,1
168,3			RCPR 5-7168,3			
8	168,3	G 6	8			RCPR 5-8168,3
	177,8	G 8				RCPR 5-8177,8
	193,7					RCPR 5-8193,7
	203					RCPR 5-8203
	219,1					RCPR 5-8219,1
	220					RCPR 5-8220

Werden andere Kombinationen benötigt, so bestellen Sie diese bitte in Einzelteilen (Bestellzeichen hierfür siehe Seiten 38 – 42). Die Auslieferung erfolgt unmontiert in Einzelteilen. ¹⁾Nur in Größen 1 – 8 ³⁾Bei Montage von Vollgummi-Schellen sind Deckplatten, Sechskantschrauben und Sicherungsscheiben zu verwenden

If different combinations are required, we would be obliged if they could be ordered as separate components (Please refer to individual components, pages 38 – 42). Delivery in unassembled individual components. ¹⁾Only sizes 1 – 8 ³⁾When assembling solid rubber tube clamps, cover plates, hexagon screws and locking washers must be used

ROHRSCHELLEN SERIE C | KOMPLETT-PROGRAMM

TUBE CLAMPS SERIES C | COMPLETE RANGE

Bestellzeichen

für Schellenhälften:

Polypropylen **RCPR**
 innen glatt **RCPG¹⁾**
 Polyamid 6 **RCNR**
 innen glatt **RCNG¹⁾**
 Vollgummi **RCVR^{1) 3)}**
RCVG^{1) 3)}
 Aluminium **RCAR**

Bei Bedarf Standardkurzzeichen RCPR in der Spalte „Bestellzeichen“ austauschen.

Order codes

for clamp-halves:

Polypropylene **RCPR**
 inside smooth **RCPG¹⁾**
 Polyamide 6 **RCNR**
 inside smooth **RCNG¹⁾**
 Rubber **RCVR^{1) 3)}**
RCVG^{1) 3)}
 Aluminium **RCAR**

Replace standard abbreviation RCPR in column "Order codes" as required.

4 Schellenhälften mit Doppelanschweißplatte, Doppel-Deckplatte und Sechskantschrauben
 4 clamp halves with double weld plate, double cover plate and hexagon head screws



4 Schellenhälften mit Doppelanschweißplatte, Doppel-Deckplatte und Innensechskantschrauben
 4 clamp halves with double weld plate, double cover plate and hexagon socket head screws



GRÖSSE SIZE	Rohr-AD mm O.D. mm	Rohr-NW Tube NB	Rohr-AD Zoll Inch O.D.	Bestellzeichen Order Codes	Bestellzeichen Order Codes
1	6	G 1/8	5/16 3/8	RCPDR 1-106	RCPDR 2-106
	8			RCPDR 1-108	RCPDR 2-108
	9,5			RCPDR 1-109,5	RCPDR 2-109,5
	10	G 1/4	1/2	RCPDR 1-110	RCPDR 2-110
	12			RCPDR 1-112	RCPDR 2-112
	12,7			RCPDR 1-112,7	RCPDR 2-112,7
	13,5			RCPDR 1-113,5	RCPDR 2-113,5
	14	G 3/8	5/8	RCPDR 1-114	RCPDR 2-114
	15			RCPDR 1-115	RCPDR 2-115
	16			RCPDR 1-116	RCPDR 2-116
	17,2			RCPDR 1-117,2	RCPDR 2-117,2
18	RCPDR 1-118			RCPDR 2-118	
2	19	G 1/2	3/4	RCPDR 1-219	RCPDR 2-219
	20			RCPDR 1-220	RCPDR 2-220
	21,3			RCPDR 1-221,3	RCPDR 2-221,3
	22			RCPDR 1-222	RCPDR 2-222
	23	G 3/4	1	RCPDR 1-223	RCPDR 2-223
	25			RCPDR 1-225	RCPDR 2-225
	25,4			RCPDR 1-225,4	RCPDR 2-225,4
	26,9			RCPDR 1-226,9	RCPDR 2-226,9
	28			RCPDR 1-228	RCPDR 2-228
	30			RCPDR 1-230	RCPDR 2-230
3	30	G 1	1 1/4	RCPDR 1-330	RCPDR 2-330
	32			RCPDR 1-332	RCPDR 2-332
	33,7			RCPDR 1-333,7	RCPDR 2-333,7
	35	G 1 1/4	1 1/2	RCPDR 1-335	RCPDR 2-335
	38			RCPDR 1-338	RCPDR 2-338
	40			RCPDR 1-340	RCPDR 2-340
42			RCPDR 1-342	RCPDR 2-342	
4	38	G 1 1/4	1 1/2	RCPDR 1-438	RCPDR 2-438
	40			RCPDR 1-440	RCPDR 2-440
	42			RCPDR 1-442	RCPDR 2-442
	45	G 1 1/2	2	RCPDR 1-445	RCPDR 2-445
	48,3			RCPDR 1-448,3	RCPDR 2-448,3
	50			RCPDR 1-450	RCPDR 2-450
	51			RCPDR 1-451	RCPDR 2-451
	52	G 2	2 1/4	RCPDR 1-452	RCPDR 2-452
	55			RCPDR 1-455	RCPDR 2-455
	57			RCPDR 1-457	RCPDR 2-457
	60,3			RCPDR 1-460,3	RCPDR 2-460,3
	63			RCPDR 1-463	RCPDR 2-463
	65	2 1/2		RCPDR 1-465	RCPDR 2-465
70	RCPDR 1-470			RCPDR 2-470	

Werden andere Kombinationen benötigt, so bestellen Sie diese bitte in Einzelteilen (Bestellzeichen hierfür siehe Seiten 38 – 42). Die Auslieferung erfolgt unmontiert in Einzelteilen. ¹⁾Nur in Größen 1 – 8 ³⁾Bei Montage von Vollgummi-Schellen sind Deckplatten, Sechskantschrauben und Sicherungsscheiben zu verwenden

If different combinations are required, we would be obliged if they could be ordered as separate components (Please refer to individual components, pages 38 – 42). Delivery in unassembled individual components. ¹⁾Only sizes 1 – 8 ³⁾When assembling solid rubber tube clamps, cover plates, hexagon screws and locking washers must be used

Bestellzeichen

für Schellenhälften:

Polypropylen **RCPR**
 innen glatt **RCPG¹⁾**
 Polyamid 6 **RCNR**
 innen glatt **RCNG¹⁾**
 Vollgummi **RCVR^{1) 3)}**
RCVG^{1) 3)}
 Aluminium **RCAR**

Bei Bedarf Standardkurzzeichen RCPR in der Spalte „Bestellzeichen“ austauschen.

Order codes

for clamp-halves:

Polypropylene **RCPR**
 inside smooth **RCPG¹⁾**
 Polyamide 6 **RCNR**
 inside smooth **RCNG¹⁾**
 Rubber **RCVR^{1) 3)}**
RCVG^{1) 3)}
 Aluminium **RCAR**

Replace standard abbreviation RCPR in column "Order codes" as required.

4 Schellenhälften mit Doppelanschweißplatte, Doppel-Deckplatte und Sechskantschrauben
 4 clamp halves with double weld plate, double cover plate and hexagon head screws



4 Schellenhälften mit Doppelanschweißplatte, Doppel-Deckplatte und Innensechskantschrauben
 4 clamp halves with double weld plate, double cover plate and hexagon socket head screws



GRÖSSE SIZE	Rohr-AD mm O.D. mm	Rohr-NW Tube NB	Rohr-AD Zoll Inch O.D.	Bestellzeichen Order Codes	Bestellzeichen Order Codes
5	65	G 2 1/2	3	RCPDR 1-565	RCPDR 2-565
	70			RCPDR 1-570	RCPDR 2-570
	73			RCPDR 1-573	RCPDR 2-573
	75			RCPDR 1-575	RCPDR 2-575
	76,1	G 3	3 1/4	RCPDR 1-576,1	RCPDR 2-576,1
	80			RCPDR 1-580	RCPDR 2-580
	82,5			RCPDR 1-582,5	RCPDR 2-582,5
	85			RCPDR 1-585	RCPDR 2-585
88,9	G 3	3 1/2	RCPDR 1-588,9	RCPDR 2-588,9	
90			RCPDR 1-590	RCPDR 2-590	
6	90	G 3 1/2	4	RCPDR 1-690	RCPDR 2-690
	97			RCPDR 1-697	RCPDR 2-697
	100			RCPDR 1-6100	RCPDR 2-6100
	101,6			RCPDR 1-6101,6	RCPDR 2-6101,6
	108	G 4	4 1/2	RCPDR 1-6108	RCPDR 2-6108
	114,3			RCPDR 1-6114,3	RCPDR 2-6114,3
127	G 4	5	RCPDR 1-6127	RCPDR 2-6127	
7	127	G 5	5	RCPDR 1-7127	RCPDR 2-7127
	130			RCPDR 1-7130	RCPDR 2-7130
	133			RCPDR 1-7133	RCPDR 2-7133
	140			RCPDR 1-7140	RCPDR 2-7140
	150	G 6	6	RCPDR 1-7150	RCPDR 2-7150
	152,4			RCPDR 1-7152,4	RCPDR 2-7152,4
	159			RCPDR 1-7159	RCPDR 2-7159
	165,1			RCPDR 1-7165,1	RCPDR 2-7165,1
168,3	G 6	8	RCPDR 1-7168,3	RCPDR 2-7168,3	
168,3			RCPDR 1-8168,3	RCPDR 2-8168,3	
177,8	G 8	8	RCPDR 1-8177,8	RCPDR 2-8177,8	
193,7			RCPDR 1-8193,7	RCPDR 2-8193,7	
203	G 8	8	RCPDR 1-8203	RCPDR 2-8203	
219,1			RCPDR 1-8219,1	RCPDR 2-8219,1	
220	G 8		RCPDR 1-8220	RCPDR 2-8220	
9	219,1	G 8		RCPDR 1-9219,1	RCPDR 2-9219,1
	244,5			RCPDR 1-9244,5	RCPDR 2-9244,5
	273	G 10		RCPDR 1-9273	RCPDR 2-9273
	323,9			RCPDR 1-9323,9	RCPDR 2-9323,9
10	355,6	G 14		RCPDR 1-10355,6	RCPDR 2-10355,6
	406,4			RCPDR 1-10406,4	RCPDR 2-10406,4

Werden andere Kombinationen benötigt, so bestellen Sie diese bitte in Einzelteilen (Bestellzeichen hierfür siehe Seiten 38 – 42).

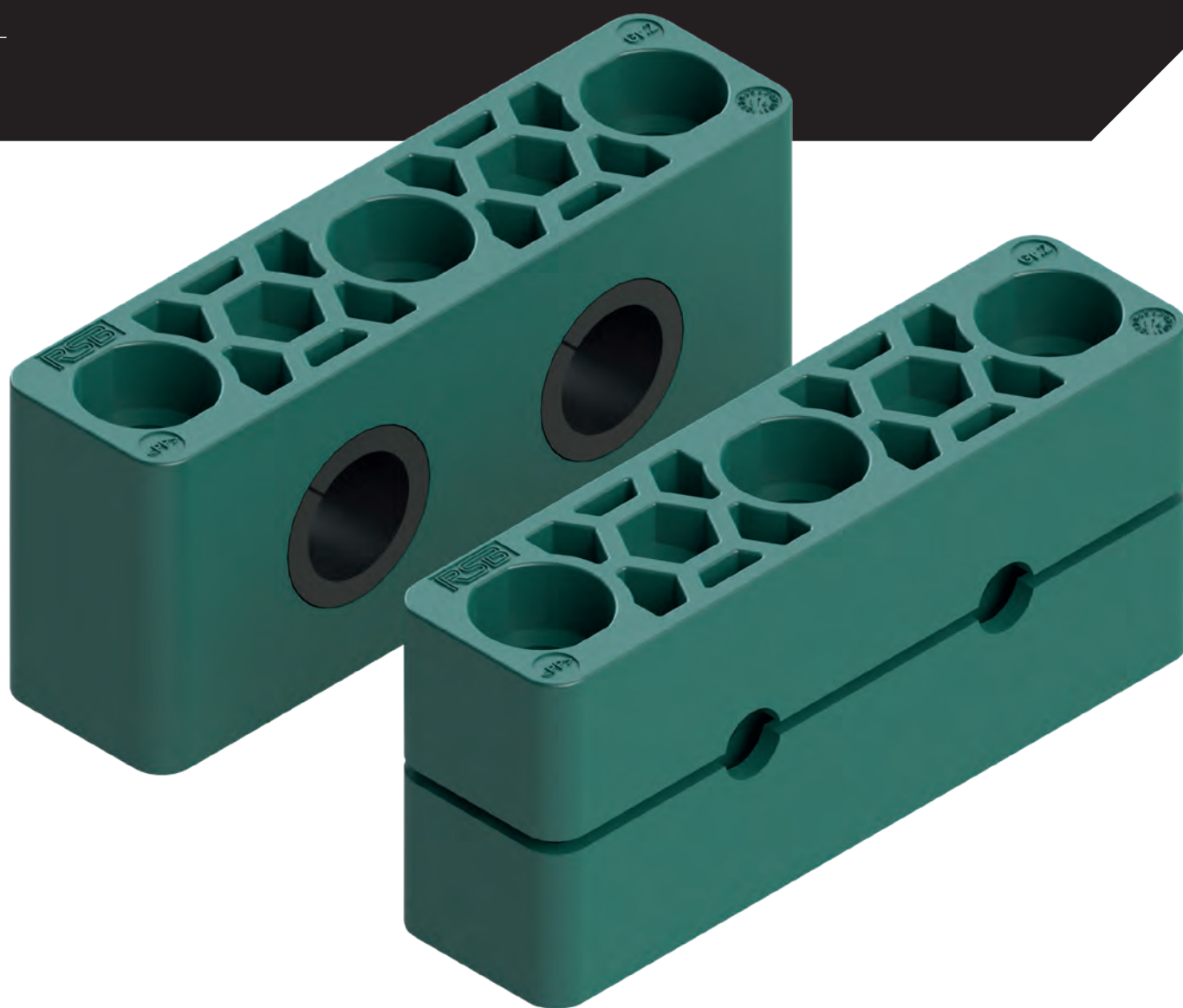
Die Auslieferung erfolgt unmontiert in Einzelteilen. ¹⁾Nur in Größen 1 – 8 ³⁾Bei Montage von Vollgummi-Schellen sind Deckplatten, Sechskantschrauben und Sicherungsscheiben zu verwenden

If different combinations are required, we would be obliged if they could be ordered as separate components (Please refer to individual components, pages 38 – 42). Delivery in unassembled individual components. ¹⁾Only sizes 1 – 8 ³⁾When assembling solid rubber tube clamps, cover plates, hexagon screws and locking washers must be used

// 04

DOPPELSCHELLE SCHWERE BAUREIHE

TWIN CLAMP HEAVY SERIES



DOPPELSCHELLE SCHWERE BAUREIHE TWIN CLAMP HEAVY SERIES

Bestellzeichen für Schellenhälften:

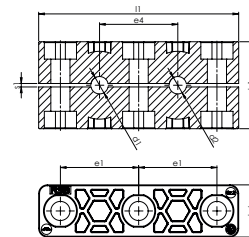
Polypropylen **RCPRD**
Polyamid 6 **RCNRD**

Bei Bedarf Standardkurzzeichen RCPRD in der Spalte „Schellenhälften“ austauschen.

Order codes for clamp-halves:

Polypropylene **RCPRD**
Polyamide 6 **RCNRD**

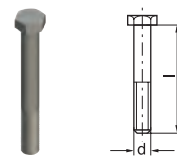
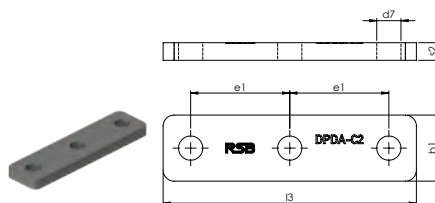
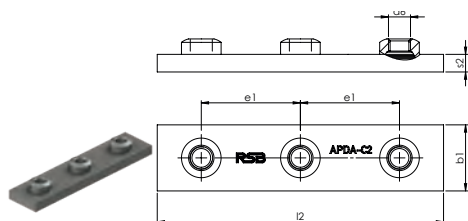
Replace standard abbreviation RCPRD in column "clamp-halves" as required.



GRÖSSE SIZE	Rohr-AD mm O.D. mm	Rohr-NW Tube NB	Rohr-AD Zoll Inch O.D.	RCPRD 1 Stück / 2 Schellenhälften 1 part / 2 clamp-halves	RCPRD-...					
	d ₁ / d ₂				l ₁	h ₁	e ₁	e ₄	s ₁	b ₄
2	10	G 1/8		RCPRD-210	115	50	45	45	2	30
	12,7		1/2	RCPRD-212,7						
	19		3/4	RCPRD-219						
	20			RCPRD-220						
	21,3	G 1/2		RCPRD-221,3						
	22			RCPRD-222						
	25,4		1	RCPRD-225,4						
	26,9	G 3/4		RCPRD-226,9						
	28			RCPRD-228						
30			RCPRD-230	145	60	60	60	2	30	
3	30									RCPRD-330
	32		1 1/4							RCPRD-332
	33,7	G 1								RCPRD-333,7
	35									RCPRD-335
	38		1 1/2							RCPRD-338
	40									RCPRD-340
	42	G 1 1/4		RCPRD-342						

Rohrschellen mit unterschiedlichen Rohr-AD auf Anfrage.

Tube clamps with different outer tube diameter upon request.



DIN 931/933

GRÖSSE SIZE	APDA-C Anschweißplatte Weld plate	APDA-C					DPDA-C Deckplatte Cover plate	DPDA-C					SS-C Sechskantschraube Hexagon head screw	SS-C		
		e ₁	b ₁	l ₂	s ₂	d ₆		l ₃	e ₁	b ₁	s ₂	d ₇		d	x	l
2	APDA-C2	45	30	130	8	M10	DPDA-C2	115	45	30	8	11	SS-C2	M10	x	60
3	APDA-C3	60	30	160	8	M10	DPDA-C3	145	60	30	8	11	SS-C3	M10	x	70

Außerdem passend für die Doppelschelle Schwere Baureihe:
 - Innensechskantschraube IS-C (Schwere Baureihe, Größe 2 und 3)
 - Befestigungsadapter BA (Schwere Baureihe, Größe 2 und 3)
 - Tragschienenmutter TM-C (Schwere Baureihe, Größe 2 und 3)
 - Tragschiene TS-C (Schwere Baureihe)
 - Aufbauschraube AS-C (Schwere Baureihe, Größe 2 und 3)
 - Sicherungsplatte SPD-C (Schwere Baureihe, Doppelausführung)

Also suitable for twin clamp heavy series:
 - Hexagon socket head screw IS-C (heavy series, size 2 and 3)
 - Fixed adaptor BA (heavy series, size 2 and 3)
 - Rail nut TM-C (heavy series, size 2 and 3)
 - Mounting rail TS-C (heavy series)
 - Stacking bolt AS-C (heavy series, size 2 and 3)
 - Locking plate SPD-C (heavy series, twin version)

Metallteile in Edelstahl lieferbar.

All metal parts available in stainless steel.



DOPPELSHELLE SCHWERE BAUREIHE
TWIN CLAMP HEAVY SERIES

Bestellzeichen für Schellenhälften:

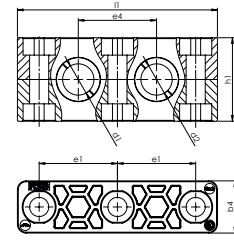
Polypropylen **RCPEED**
 Polyamid 6 **RCNEED**

Bei Bedarf Standardkurzzeichen RCPEED in der Spalte „Schellenhälften“ austauschen.

Order codes for clamp-halves:

Polypropylene **RCPEED**
 Polyamide 6 **RCNEED**

Replace standard abbreviation RCPEED in column "clamp-halves" as required.



GRÖSSE SIZE	Rohr-AD mm O.D. mm	Rohr-NW Tube NB	Rohr-AD Zoll Inch O.D.	RCPEED 1 Stück / 2 Schellenhälften 1 part / 2 clamp-halves	RCPEED-... 2 Schellenhälften 2 clamp-halves				
	d ₁ / d ₂				l ₁	h ₁	e ₁	e ₄	b ₄
2	6			RCPEED-206	115	48	45	45	30
	8		⁵ / ₁₆	RCPEED-208					
	10	G ¹ / ₈		RCPEED-210					
	12			RCPEED-212					
	12,7		¹ / ₂	RCPEED-212,7					
	14			RCPEED-214					
	15			RCPEED-215					
	16		⁵ / ₈	RCPEED-216					
	17,2	G ³ / ₈		RCPEED-217,2					
	18			RCPEED-218					
	19		³ / ₄	RCPEED-219	145	58	60	60	30
3	20			RCPEED-320					
	21,3	G ¹ / ₂		RCPEED-321,3					
	22			RCPEED-322					
	23			RCPEED-323					
	25			RCPEED-325					
	26,9	G ³ / ₄		RCPEED-326,9					
	28			RCPEED-328					
	30			RCPEED-330					
	32		¹ / ₄	RCPEED-332					

Rohrschellen mit Einsätzen für unterschiedliche Rohr-AD auf Anfrage.

Tube clamps with inserts for different outer tube diameter upon request.

DOPPELSCHELLE SCHWERE BAUREIHE
TWIN CLAMP HEAVY SERIES

Bestellzeichen für Schellenhälften:

Polypropylen **RCPED**
 Polyamid 6 **RCNED**

Bei Bedarf Standardkurzzeichen RCPED in der Spalte „Schellenhälften“ austauschen.

Order codes for clamp-halves:

Polypropylene **RCPED**
 Polyamide 6 **RCNED**

Replace standard abbreviation RCPED in column "clamp-halves" as required.

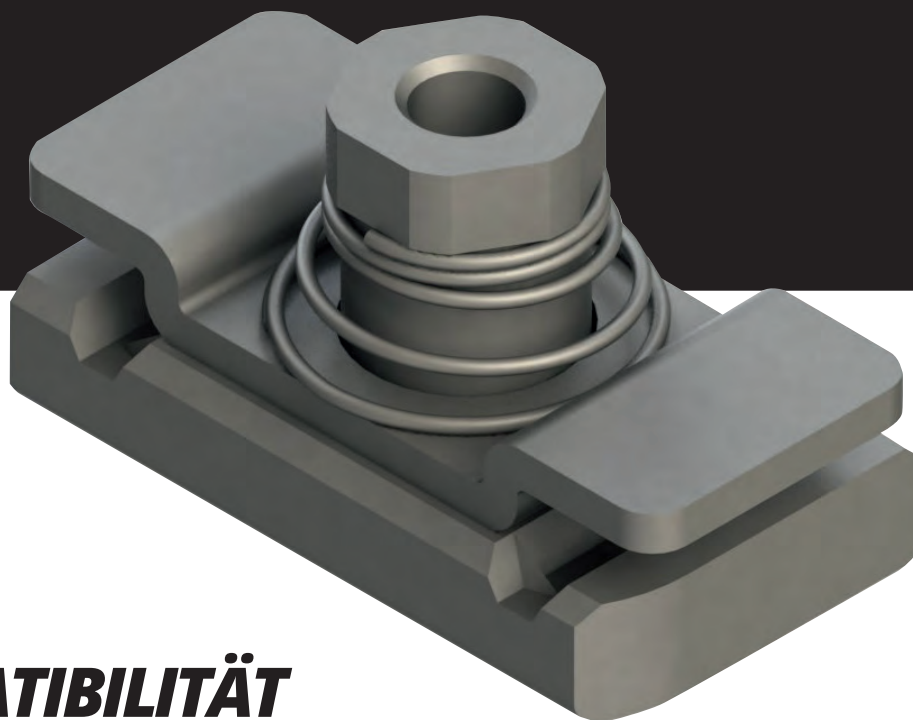


GRÖSSE SIZE	Rohr-AD mm O.D. mm d₁ / d₂	Rohr-NW Tube NB	Rohr-AD Zoll Inch O.D.	RCPED Schellenkörper für Einlage Tube clamp suitable for insert	EE-... Schalldämmeinlage Noise protection insert
2	6			RCPED-2	EE-206/406
	8		⁵ / ₁₆		EE-208/408
	10	G ¹ / ₈			EE-210/410
	12				EE-212/412
	12,7		¹ / ₂		EE-212,7/412,7
	14				EE-214/414
	15				EE-215/415
	16		⁵ / ₈		EE-216/416
	17,2	G ³ / ₈			EE-217,2/417,2
	18				EE-218/418
	19		³ / ₄		EE-219/419
3	20			RCPED-3	EE-320/620
	21,3	G ¹ / ₂			EE-321,3/621,3
	22				EE-322/622
	23				EE-323/623
	25				EE-325/625
	26,9	G ³ / ₄			EE-326,9/626,9
	28				EE-328/628
	30				EE-330/630
	32		1 ¹ / ₄		EE-332/632

// 04

BEFESTIGUNGSADAPTER

FIXED ADAPTOR



// KOMPATIBILITÄT

MIT PROFILSCHIENEN

// COMPATIBILITY

WITH CHANNEL RAILS

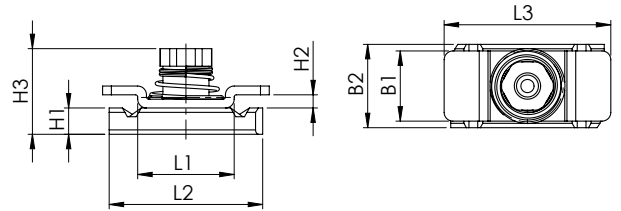
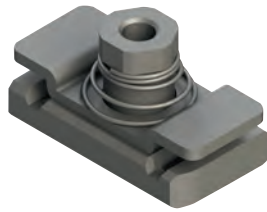
HILTI <i>(Schienensystem MQ für mittlere Belastung Channel system MQ for medium load)</i>	HALFEN <i>(Mittelschwere Tragsysteme Medium duty channel system)</i>	UNISTRUT®
MQ-21, MQ-21U, MQ-21D	HM 41/22, HL 41/22, HM 41/22 D	P1000, P1000T, P1001, P1001T
MQ-31,	HZM 41/22, HZL 41/22, HZM 41/22 D	P2000, P2000T
MQ-41, MQ-41U, MQ-41D	HM 41/41, HL 41/41, HM 41/41 D	P3300, P3300T10, P3301, P3301T10
MQ-52, MQ-52-72D	HZM 41/41, HZL 41/41, HZM 41/41 D	P4000, P4000T10
MQ-72, MQ-72U	HM 41/62, HL 41/62, HM 41/62 D	P5000T, P5001T, P5500T, P5501T
	HM 41/83, HL 41/83	

Zur Überprüfung der Kompatibilität mit Profilschienen anderer Hersteller wenden Sie sich bitte vor Anwendung an uns.
Please contact us to check compatibility with additional types of channel rails.



// BEFESTIGUNGSADAPTER FÜR SERIE A

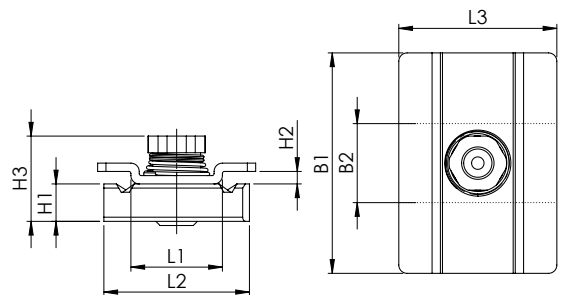
// FIXED ADAPTOR FOR SERIES A



GRÖSSE SIZE	BA Befestigungsadapter Fixed adaptor									
	L1	L2	L3	B1	B2	H1	H2	H3	d6	
1	BA-A/B1	22	35	38	16	19	6	3	19,5	M6
2										
3										
4										
5										
6										
7										
8										

// BEFESTIGUNGSADAPTER FÜR SERIE B

// FIXED ADAPTOR FOR SERIES B



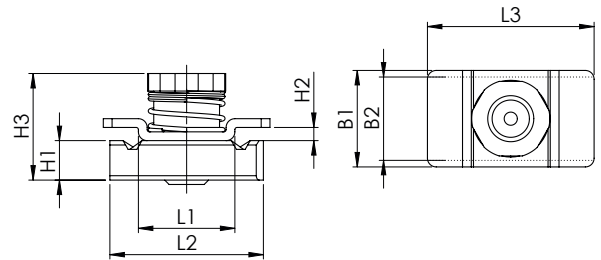
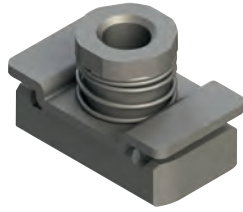
GRÖSSE SIZE	BA Befestigungsadapter Fixed adaptor									
	L1	L2	L3	B1	B2	H1	H2	H3	d6	
1	22	35	38	16	19	6	3	19,5	M6	
2				53						
3				80						
4				80						
5				80						

Lieferbar: verzinkt und Edelstahl
 Auch in UNC erhältlich
 Available: galvanized and stainless steel
 Also available in UNC



// BEFESTIGUNGSADAPTER FÜR SERIE C

// FIXED ADAPTOR FOR SERIES C



GRÖSSE SIZE	BA Befestigungsadapter Fixed adaptor									
	L1	L2	L3	B1	B2	H1	H2	H3	d6	
1	22	35	38	22	19	9	3	24,3	M10	
2										
3			45	25	25,8	M12				
4										

// EMPFOHLENE SCHRAUBENLÄNGEN

BEI VERWENDUNG DES BEFESTIGUNGSADAPTERS BA FÜR DIE C-SERIE

// RECOMMENDED SCREW LENGTHS

WHEN USING FIXED ADAPTOR BA FOR SERIES C

GRÖSSE SIZE	Sechskantschraube (mit Deckplatte) Hexagon head screw (with cover plate)	Innensechskantschraube (ohne Deckplatte) Hexagon socket head screw (without cover plate)	Aufbauschraube Stacking bolt
1	M10 x 40	M10 x 20 *	M10 x 20 *
2	M10 x 55 *	M10 x 35 *	M10 x 35 *
3	M10 x 65 *	M10 x 50 *	M10 x 50 *
4	M12 x 100	M12 x 75 *	M12 x 75 *

* bei Schrauben mit Sonderlängen (abweichend vom Katalog) Preis auf Anfrage
 * for screws with special length (different from the catalogue) price on request

Lieferbar: verzinkt und Edelstahl
 Auch in UNC erhältlich
 Available: galvanized and stainless steel
 Also available in UNC

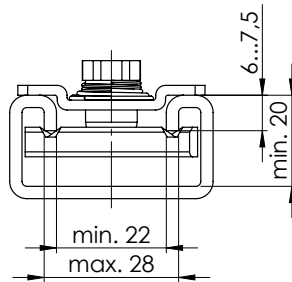


// GENERALE MASSLICHE ANFORDERUNGEN

AN PROFILSCHIENEN FÜR DEN EINSATZ DES BEFESTIGUNGSADAPTERS BA

// BASIC DIMENSIONAL REQUIREMENTS

FOR CHANNEL RAILS TO BE USED WITH FIXED ADAPTOR BA



// BESTELLBEISPIEL

BA-A/B1/Zn
 BA-B2-3/Mat.A4
 BA-C1-3/Zn/UNC

BA - **A/B1** / **Zn**

Serie
 A/B1
 B2-3
 B4-5
 C1-3
 C4

Merkmale
 Zn=verzinkt
 Mat.A4=Edelstahl A4
 UNC=UNC-Gewinde

BA=Befestigungsadapter

// EXAMPLE OF ORDER

BA-A/B1/Zn
 BA-B2-3/Mat.A4
 BA-C1-3/Zn/UNC

BA - **A/B1** / **Zn**

Serie
 A/B1
 B2-3
 B4-5
 C1-3
 C4

Features
 Zn= zinc plated
 Mat.A4= stainless steel A4
 UNC= UNC thread

BA=Fixed adaptor

UNBEGRENZTE MÖGLICHKEITEN: EINE SCHIENE FÜR ALLE MONTAGE VON ELEMENTEN DER SERIE A, B UND C AUF TS-C SCHIENE

UNLIMITED POSSIBILITIES: ONE MOUNTING RAIL FOR ALL

ASSEMBLY OF SERIES A, B AND C COMPONENTS
ON TS-C MOUNTING RAIL

Konstruktion

Neue Tragschienen-Muttern ermöglichen eine Montage der Rohrschellen unserer Serie A-, B- und C-Standardausführung auf Montageschienen der schweren Baureihe C.

VORTEIL FÜR SIE

Kombinieren Sie bewährte Elemente unserer verschiedenen Baureihen für eine Vielzahl neuer Anwendungsmöglichkeiten:

EINE SCHIENE, MEHR FUNKTION!

Alle Metallteile auch in Edelstahl.

Design

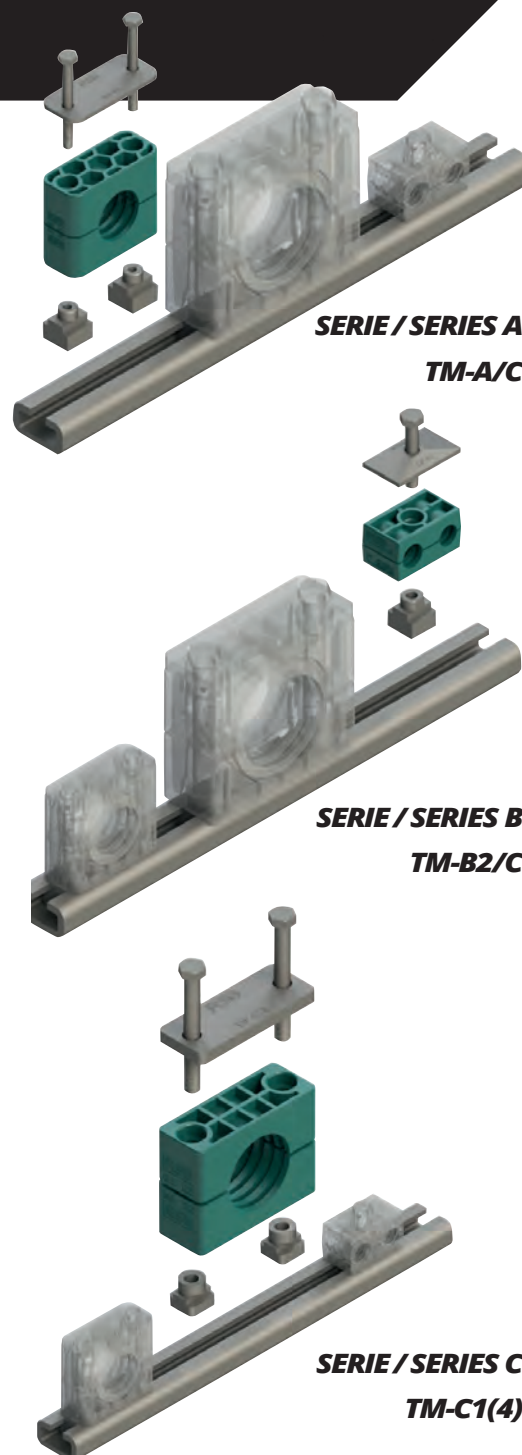
New mounting rail-nuts make it possible to mount standard tube clamps of our series A, B and C, on the heavy duty mounting rail, series C.

YOUR ADVANTAGE

Combine reliable and field-tested components of our various series for a multitude of new applicability:

ONE MOUNTING RAIL – MORE FUNCTIONS!

Also available in stainless steel.

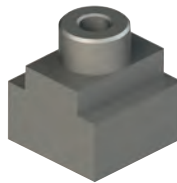


// TRAGSCHIENEN-MUTTERN // RAIL NUTS

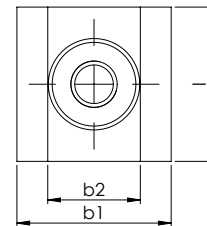
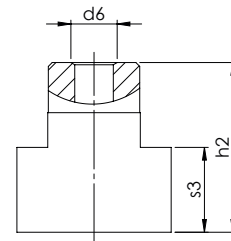
Der einfachste Weg Rohrschellen DIN 3015 auf einer Tragschiene unserer schweren Baureihe zu montieren.

- Leichte Baureihe - Serie A
- Zweirohrschiene - Serie B
- Schwere Baureihe - Serie C

Bestellzeichen:
TM-A/C
TM-B2/C
TM-C1
TM-C4



TM-A/C

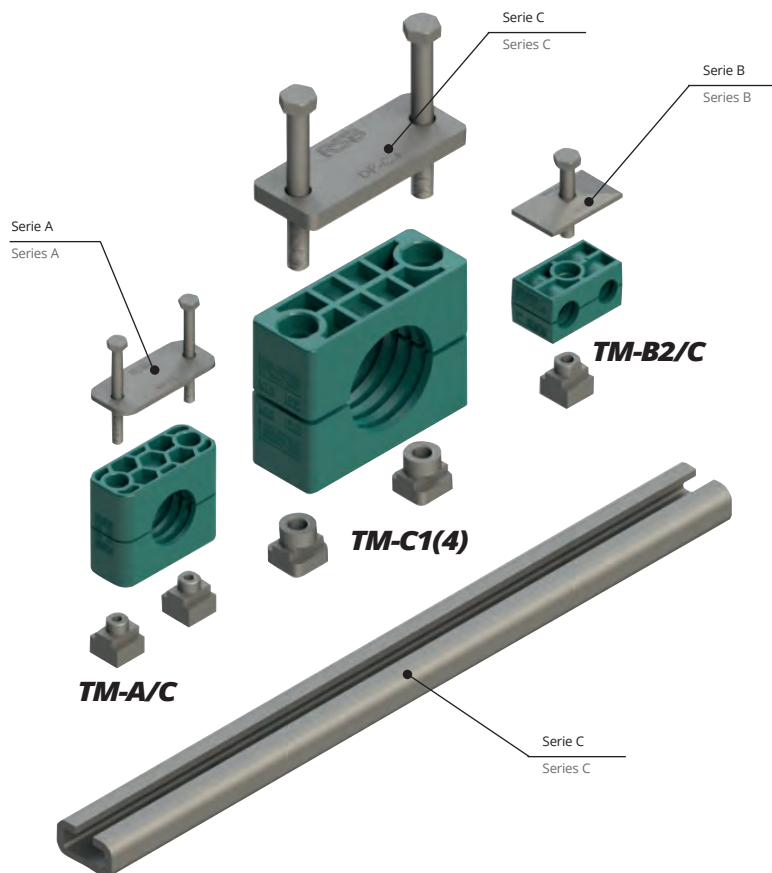


The easiest way to mount DIN 3015 tube clamps on a rail of our heavy duty series.

- Light construction - Series A
- Twin-tube clamps - Series B
- Heavy duty construction - Series C

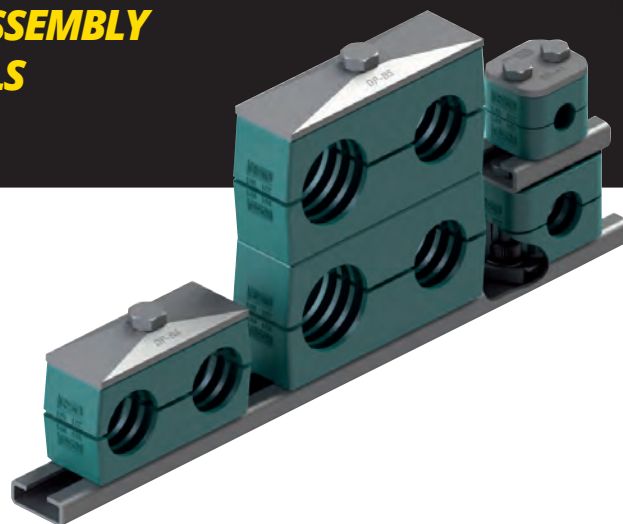
Order codes:
TM-A/C
TM-B2/C
TM-C1
TM-C4

Für Schellen Serie For clamps series	Bestellzeichen Order codes	d ₆	l	b ₁	b ₂	h ₂	s ₃
A / B1	TM-A/C	M 6	20	20	12	22	11
B2 - B5	TM-B2/C	M 8	20	20	12	22	11
C1 - C3	TM-C1	M 10	25	24	12	20	7
C4	TM-C4	M 12	25	24	12,5	23	8,5

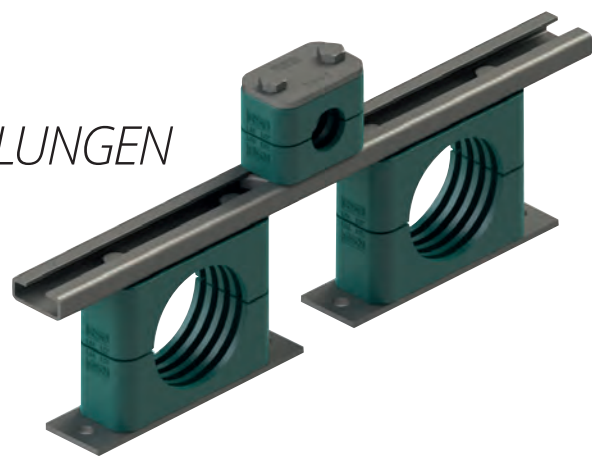


MONTAGEBEISPIELE MIT TRAGSCHIENEN

**EXAMPLES FOR THE ASSEMBLY
WITH MOUNTING RAILS**



*EINFACHE MONTAGE
INDIVIDUELLE ZUSAMMENSTELLUNGEN
VIELSEITIGE EINSETZBARKEIT*



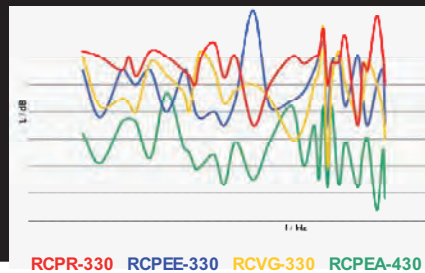
*EASILY ASSEMBLED
INDIVIDUAL COMBINATION
VERSATILE APPLICATION*



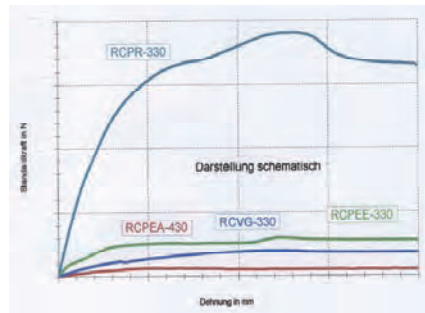
// 05

ROHRSCHELLEN MIT SCHALLDÄMMEINLAGE

TUBE CLAMPS WITH NOISE PROTECTION INSERT



Vergleich des Dämmungsverhalten verschiedener Rohrschellen (schematisch)
Comparison of the noise insulation properties of different tube clamps (schematic)



Vergleich der axialen Rohrhaltekraft verschiedener Rohrschellen
Comparison of the pipe shearing force of different tube clamps

**VIBRATIONSDÄMMUNG UND KÖRPERSCHALLENKOPPLUNG IM SYSTEM
FÜR JEDE ANWENDUNG DIE RICHTIGE LÖSUNG!**

**THE SYSTEM FOR VIBRATION INSULATION AND STRUCTURE-BORNE NOISE INSULATION
THE SUITABLE SOLUTION FOR EACH APPLICATION!**

Die Herstellung lärmarmer Maschinen, Geräte und Anlagen gewinnt durch das wachsende Umweltbewusstsein immer mehr an Bedeutung.

Mit unserem Schalldämmungssystem

- Schellenkörper **vollelastisch** aus TPE
 - Rohrschellen mit **Schalldämmeinlage EE/TPE**
 - Rohrschellen mit **Schalldämmeinlage EFA/TPE**
- decken Sie alle Anwendungsbereiche ab.

The production of quiet machines, devices and equipment becomes more and more important due to the growing environmental awareness.

With our noise protection system

- **Fully flexible tube clamps TPE**
 - **Tube clamps with noise protection insert EE/TPE**
 - **Tube clamps with noise protection insert EFA/TPE**
- you cover all fields of applications.

// LEICHTBAUREIHE
// LIGHT CONSTRUCTIONS SERIES



SCHALLDÄMMEINLAGE
NOISE PROTECTION INSERT

Bestellzeichen für Schellenhälften:
 Polypropylen **RAPE**
 Polyamid 6 **RANE**

Bei Bedarf Standardkurzzeichen RAPE oder RAPEE in der Spalte „Serie A“ austauschen.

Order codes for clamp-halves:
 Polypropylene **RAPE**
 Polyamide 6 **RANE**

Replace standard abbreviation RAPE or RAPEE in column "Series A" as required.

Bestellzeichen für Schalldämmeinlage:
EE-*

mit Schellengröße und Rohraußendurchmesser ergänzen, TPE 73° Shore

Order codes for noise protection insert:
EE-*

complete with clamp size and outside tube diameter, TPE 73° Shore

GRÖSSE SIZE SERIE A / SERIES A	Rohr-AD mm O.D. mm	SERIE A / SERIES A		Schalldämmeinlage Noise protection insert
		Schellenkörper für Einlage Tube clamp suitable for insert	Schellenkörper mit Schalldämmeinlage Tube clamp with noise protection insert	
4	6	RAPE-4	RAPEE-406	EE-206/406
	8		RAPEE-408	EE-208/408
	10		RAPEE-410	EE-210/410
	12		RAPEE-412	EE-212/412
	12,7		RAPEE-412,7	EE-212,7/412,7
	14		RAPEE-414	EE-214/414
	15		RAPEE-415	EE-215/415
	16		RAPEE-416	EE-216/416
	17,2		RAPEE-417,2	EE-217,2/417,2
	18		RAPEE-418	EE-218/418
	19		RAPEE-419	EE-219/419
5	20	RAPE-5	RAPEE-520	EE-520
	22		RAPEE-522	EE-522
	25		RAPEE-525	EE-525
	28		RAPEE-528	EE-528
	30		RAPEE-530	EE-530
6	20	RAPE-6	RAPEE-620	EE-320/620
	21,3		RAPEE-621,3	EE-321,3/621,3
	22		RAPEE-622	EE-322/622
	23		RAPEE-623	EE-323/623
	25		RAPEE-625	EE-325/625
	26,9		RAPEE-626,9	EE-326,9/626,9
	28		RAPEE-628	EE-328/628
	30		RAPEE-630	EE-330/630
	32		RAPEE-632	EE-332/632
6	35	RAPAE-6	RAPEE-635	EE-635
	38		RAPEE-638	EE-638
	42		RAPEE-642	EE-642
	45		RAPEE-645	EE-645

Achtung! Bei Schellen mit Schalldämmeinlage ist die Zuordnung von Durchmesser und Baugröße nicht identisch mit der Profil- bzw. glatten Ausführung.
 Attention! For tube clamps with noise protection insert, the relation of diameter and size is not identical with the profile design or smooth design.

// SCHWERE BAUREIHE
 // HEAVY SERIES



SCHALLDÄMMEINLAGE
 NOISE PROTECTION INSERT

Bestellzeichen
 für Schellenhälften:

Polypropylen **RCPE**
 Polyamid 6 **RCNE**

Bei Bedarf Standardkurzzeichen
 RCPE oder RCNE in der Spalte
 „Serie C“ austauschen.

Order codes
 for clamp-halves:

Polypropylene **RCPE**
 Polyamide 6 **RCNE**

Replace standard abbreviation
 RCPE or RCNE in column "Series
 C" as required.

Bestellzeichen
 für Schalldämmeinlage:

EE-*

mit Schellengröße und Rohr-
 außendurchmesser ergänzen,
 TPE 73° Shore

Order codes
 for noise protection insert:

EE-*

complete with clamp size and
 outside tube diameter,
 TPE 73° Shore

GRÖSSE SIZE SERIE C / SERIES C	Rohr-AD mm O.D. mm	SERIE C / SERIES C		Schalldämmeinlage Noise protection insert
		Schellenkörper für Einlage Tube clamp suitable for insert	Schellenkörper mit Schalldämmeinlage Tube clamp with noise protection insert	
2	6	RCPE-2	RCPEE-206	EE-206/406
	8		RCPEE-208	EE-208/408
	10		RCPEE-210	EE-210/410
	12		RCPEE-212	EE-212/412
	12,7		RCPEE-212,7	EE-212,7/412,7
	14		RCPEE-214	EE-214/414
	15		RCPEE-215	EE-215/415
	16		RCPEE-216	EE-216/416
	17,2		RCPEE-217,2	EE-217,2/417,2
	18		RCPEE-218	EE-218/418
	19		RCPEE-219	EE-219/419
3	20	RCPE-3	RCPEE-320	EE-320/620
	21,3		RCPEE-321,3	EE-321,3/621,3
	22		RCPEE-322	EE-322/622
	23		RCPEE-323	EE-323/623
	25		RCPEE-325	EE-325/625
	26,9		RCPEE-326,9	EE-326,9/626,9
	28		RCPEE-328	EE-328/628
	30		RCPEE-330	EE-330/630
	32		RCPEE-332	EE-332/632
	4		32	RCPE-4
33,7		RCPEE-433,7	EE-433,7	
35		RCPEE-435	EE-435	
38		RCPEE-438	EE-438	
40		RCPEE-440	EE-440	
42		RCPEE-442	EE-442	
45,5		RCPEE-445,5	EE-445,5	
48		RCPEE-448	EE-448	
51		RCPEE-451	EE-451	
53,4		RCPEE-453,4	EE-453,4	
56,4		RCPEE-456,4	EE-456,4	
60,3	RCPEE-460,3	EE-460,3		

Achtung! Bei Schellen mit Schalldämmeinlage ist die Zuordnung von Durchmesser und Baugröße nicht identisch mit der Profil- bzw. glatten Ausführung.
 Attention! For tube clamps with noise protection insert, the relation of diameter and size is not identical with the profile design or smooth design.

// SCHWERE BAUREIHE
// HEAVY SERIES



SCHALLDÄMMEINLAGE
NOISE PROTECTION INSERT

Bestellzeichen für Schellenhälften:

Polypropylen **RCPE**
 Polyamid 6 **RCNE**

Bei Bedarf Standardkurzzeichen RCPE oder RCNE in der Spalte „Serie C“ austauschen.

Order codes for clamp-halves:

Polypropylene **RCPE**
 Polyamide 6 **RCNE**

Replace standard abbreviation RCPE or RCNE in column "Series C" as required.

Bestellzeichen für Schalldämmeinlage:

EE-*

mit Schellengröße und Rohraußendurchmesser ergänzen, TPE 73° Shore

Order codes for noise protection insert:

EE-*

complete with clamp size and outside tube diameter, TPE 73° Shore

GRÖSSE SIZE SERIE C / SERIES C	Rohr-AD mm O.D. mm	SERIE C / SERIES C		Schalldämmeinlage Noise protection insert
		Schellenkörper für Einlage Tube clamp suitable for insert	Schellenkörper mit Schalldämmeinlage Tube clamp with noise protection insert	
5	57	RCPE-5	RCPEE-557	EE-557
	60,3		RCPEE-560,3	EE-560,3
	63,5		RCPEE-563,5	EE-563,5
	65		RCPEE-565	EE-565
	70		RCPEE-570	EE-570
	73		RCPEE-573	EE-573
	76,1		RCPEE-576,1	EE-576,1
6	80	RCPE-6	RCPEE-680	EE-680
	82,5		RCPEE-682,5	EE-682,5
	88,9		RCPEE-688,9	EE-688,9
	100		RCPEE-6100	EE-6100
	101,6		RCPEE-6101,6	EE-6101,6
7	101,6	RCPE-7	RCPEE-7101,6	EE-7101,6
	108		RCPEE-7108	EE-7108
	114,3		RCPEE-7114,3	EE-7114,3
	127		RCPEE-7127	EE-7127
	133		RCPEE-7133	EE-7133

Achtung! Bei Schellen mit Schalldämmeinlage ist die Zuordnung von Durchmesser und Baugröße nicht identisch mit der Profil- bzw. glatten Ausführung.
 Attention! For tube clamps with noise protection insert, the relation of diameter and size is not identical with the profile design or smooth design.

// LEICHTBAUREIHE
// LIGHT CONSTRUCTIONS SERIES



SCHALLDÄMMEINLAGE
NOISE PROTECTION INSERT

Bestellzeichen für Schellenhälften:

Polypropylen **RAPE**
 Polyamid 6 **RANE**

Schellengröße A6 ab Ø 18:

Polypropylen **RAPAE**
 Polyamid 6 **RANAE**

Bei Bedarf Standardkurzzeichen RAPE/RAPAE oder RAPEA in der Spalte „Serie A“ austauschen.

Order codes for clamp-halves:

Polypropylene **RAPE**
 Polyamide 6 **RANE**

Clamp size A6 from Ø 18:

Polypropylene **RAPAE**
 Polyamide 6 **RANAE**

Replace standard abbreviation RAPE or RAPEA in column "Series A" as required.

Bestellzeichen für Schalldämmeinlage:
EFA-*

mit Schellengröße und Rohr-
 außendurchmesser ergänzen,
 TPE 55° Shore

Order codes for noise protection insert:
EFA-*

complete with clamp size and
 outside tube diameter,
 TPE 55° Shore

GRÖSSE SIZE SERIE A / SERIES A	Rohr-AD mm O.D. mm	SERIE A / SERIES A		Schalldämmeinlage Noise protection insert
		Schellenkörper für Einlage Tube clamp suitable for insert	Schellenkörper mit Schalldämmeinlage Tube clamp with noise protection insert	
4	10	RAPE-4	RAPEA-410	EFA-410/210
5	10 12 15	RAPE-5	RAPEA-510 RAPEA-512 RAPEA-515	EFA-510 EFA-512 EFA-515
6	10 12 15 18 20	RAPE-6	RAPEA-610 RAPEA-612 RAPEA-615 RAPEA-618 RAPEA-620	EFA-610/310 EFA-612/312 EFA-615/315 EFA-618/318 EFA-620/320
6	18 20 22 25 28 30	RAPAE-6	RAPEA-618 RAPEA-620 RAPEA-622 RAPEA-625 RAPEA-628 RAPEA-630	EFA-618 EFA-620 EFA-622 EFA-625 EFA-628 EFA-630

Achtung! Bei Schellen mit Schalldämmeinlage ist die Zuordnung von Durchmesser und Baugröße nicht identisch mit der Profil- bzw. glatten Ausführung.
 Attention! For tube clamps with noise protection insert, the relation of diameter and size is not identical with the profile design or smooth design.

// SCHWERE BAUREIHE
// HEAVY SERIES



SCHALLDÄMMEINLAGE
NOISE PROTECTION INSERT

Bestellzeichen
für Schellenhälften:

Polypropylen **RCPE**
Polyamid 6 **RCNE**

Bei Bedarf Standardkurzzeichen
RCPE oder RCNE in der Spalte
„Serie C“ austauschen.

Order codes
for clamp-halves:

Polypropylene **RCPE**
Polyamide 6 **RCNE**

Replace standard abbreviation
RCPE or RCNE in column
"Series C" as required.

Bestellzeichen
für Schalldämmeinlage:
EFA-*

mit Schellengröße und Rohr-
außendurchmesser ergänzen,
TPE 55° Shore

Order codes
for noise protection insert:
EFA-*

complete with clamp size and
outside tube diameter,
TPE 55° Shore

GRÖSSE SIZE SERIE C / SERIES C	Rohr-AD mm O.D. mm	SERIE C / SERIES C		Schalldämmeinlage Noise protection insert
		Schellenkörper für Einlage Tube clamp suitable for insert	Schellenkörper mit Schalldämmeinlage Tube clamp with noise protection insert	
2	10	RCPE-2	RCPEA-210	EFA-410/210
3	10 12 15 18 20	RCPE-3	RCPEA-310 RCPEA-312 RCPEA-315 RCPEA-318 RCPEA-320	EFA-610/310 EFA-612/312 EFA-615/315 EFA-618/318 EFA-620/320
4	22 25 28 30 35	RCPE-4	RCPEA-422 RCPEA-425 RCPEA-428 RCPEA-430 RCPEA-435	EFA-422 EFA-425 EFA-428 EFA-430 EFA-435
5	35 38 42 48,3 60,3	RCPE-5	RCPEA-535 RCPEA-538 RCPEA-542 RCPEA-548,3 RCPEA-560,3	EFA-535 EFA-538 EFA-542 EFA-548,3 EFA-560,3
6	76,1 88,9	RCPE-6	RCPEA-676,1 RCPEA-688,9	EFA-676,1 EFA-688,9
7	114,3	RCPE-7	RCPEA-7114,3	EFA-7114,3

Achtung! Bei Schellen mit Schalldämmeinlage ist die Zuordnung von Durchmesser und Baugröße nicht identisch mit der Profil- bzw. glatten Ausführung.
Attention! For tube clamps with noise protection insert, the relation of diameter and size is not identical with the profile design or smooth design.

DIE VOLLELASTISCHE ROHRSCHELLE

OPTIMALE GERÄUSCH- UND VIBRATIONS DÄMMUNG

THE FULLY FLEXIBLE TUBE CLAMP

OPTIMUM SOUND INSULATION AND VIBRATION DAMPENING

DER GRUNDSTOFF

Die vollelastischen Rohrschellen werden aus thermoplastischem Kautschuk gefertigt.

DIE VORTEILE

Entscheidende Verbesserungen hinsichtlich der Geräuschdämmung und im Vibrationsverhalten. Einfache Befestigung auch empfindlicher Rohr- und Schlauchinstallationen. Die wesentlichen Eigenschaften dieses Materials liegen deutlich über denen vergleichbarer vulkanisierter Gummierzeugnisse.

DIE AUSFÜHRUNGEN

Die Innenflächen sind glatt oder gerippt. Eine sinnvolle Schraubensicherung garantiert auch bei der Vollgummi Ausführung einwandfreie Verbindungen – ein selbstständiges Lösen ist unmöglich! Die Anschweißplatten, Deckplatten und Schrauben sind auch in Edelstahl rostfrei lieferbar.

Lieferbare Abmessungen entnehmen Sie bitte dem Standardprogramm DIN 3015.

THE PRIMARY MATERIAL

The fully flexible tube clamps are made out of thermoplastic caoutchouc.

THE ADVANTAGES

Decisive improvements regarding noise insulation and vibration behaviour. Easy securing also of sensitive tube and pipe installations. The essential qualities of this material are appreciably higher than those of comparable vulcanized rubber products.

THE CONSTRUCTIONS DETAILS

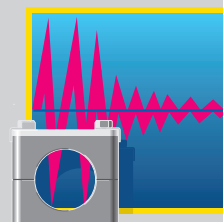
The internal surface are smooth or grooved. A useful screw safety-device guarantees perfect connections also for the solid rubber construction – therefore making a self-acting loosening impossible! The welding plates, covers and screws are also available in stainless steel.

Please order available measurements at the standard range DIN 3015.



Geräusch- und vibrationsarm

Low noise and vibration level



Witterungs- und alterungsbeständig

Weather-proof and brittle-resistant



Formstabilität bei hoher Elastizität

Shape stability with high elasticity



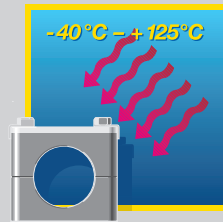
Beständig gegen viele Chemikalien

Resistant against many chemicals



Breiter Temperatur-Einsatzbereich

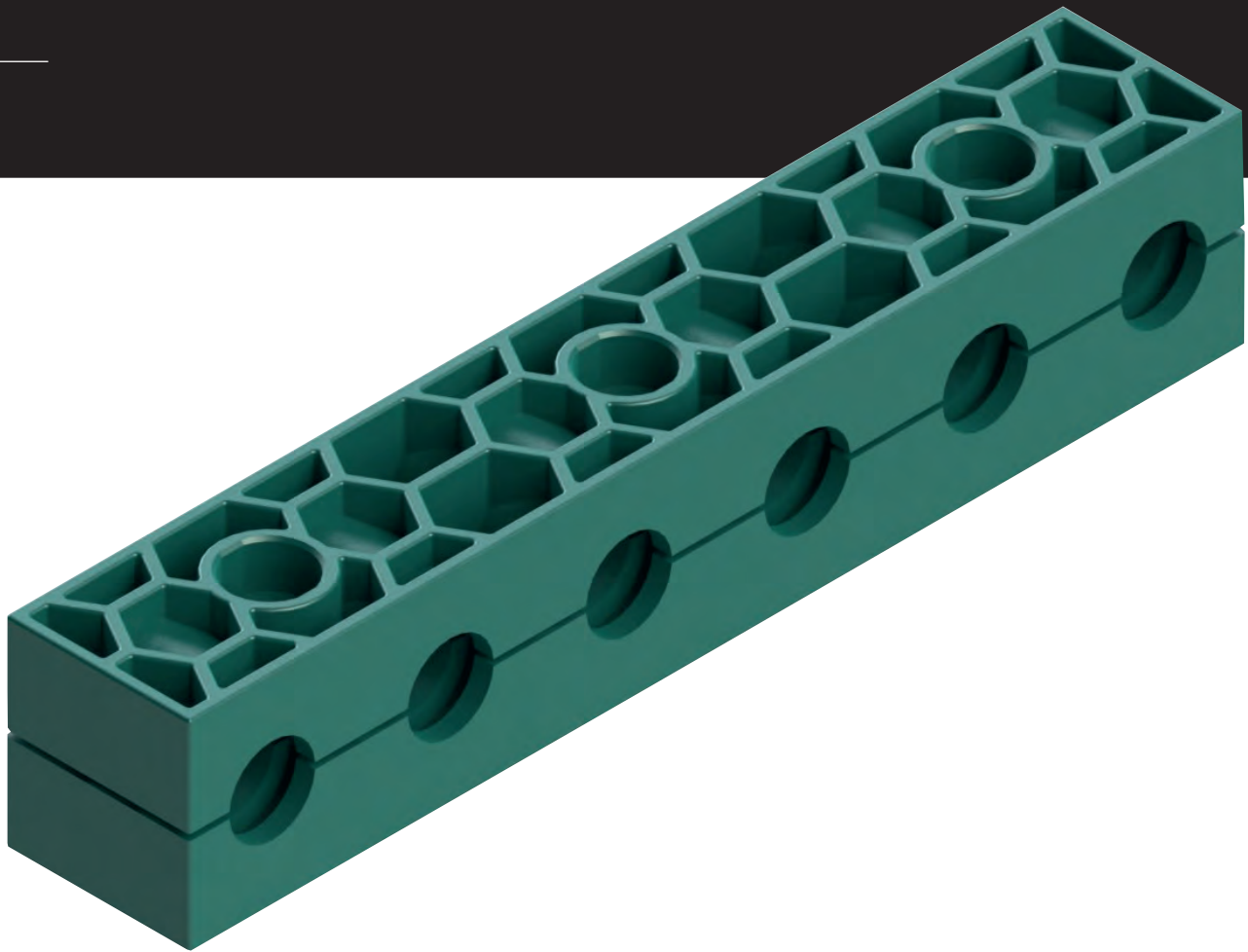
Wide temperature deployment area



// 02

MULTISCHELLEN

MULTICLAMPS



Bestellzeichen für Schellenhälften:

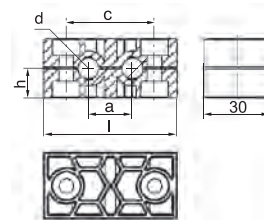
Polypropylen **RAPRM**
 innen glatt **RAPGM²⁾**
 Polyamid 6 **RANRM**
 innen glatt **RANGM²⁾**
 Vollgummi **RAVGM^{2) 3)}**

Bei Bedarf Standardkurzzeichen RAPRM in der Spalte „Schellenhälften“ austauschen.

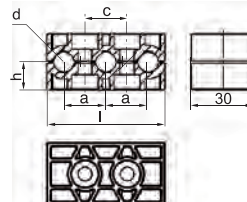
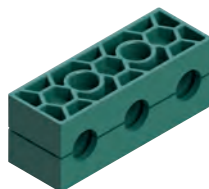
Order codes for clamp-halves:

Polypropylene **RAPRM**
 inside smooth **RAPGM²⁾**
 Polyamide 6 **RANRM**
 inside smooth **RANGM²⁾**
 Rubber **RAVGM^{2) 3)}**

Replace standard abbreviation RAPRM in column "clamp-halves" as required.



GRÖSSE SIZE	Rohr-AD mm O.D. mm d ₁	Anzahl der Rohre Number of tubes	RAPRM	RAPRM-...				Befestigungsschrauben Fastening screws B
			1 Stück / 2 Schellenhälften 1 part / 2 clamp-halves	a	c	h	l	
1	6 6,4 8 9,5 10 12	2	RAPRM-1xxxB2	20	40	13,5	60,5	2
2	10 12 12,7 13,5 14 15 16 17,2 18	2	RAPRM-2xxxB2	29	58	16,5	78,5	2
3	15 16 17,2 18 19 20 21,3 22 23 25 25,4	2	RAPRM-3xxxB2	36	72	18,5	92,5	2



GRÖSSE SIZE	Rohr-AD mm O.D. mm d ₁	Anzahl der Rohre Number of tubes	RAPRM	RAPRM-...				Befestigungsschrauben Fastening screws B
			1 Stück / 2 Schellenhälften 1 part / 2 clamp-halves	a	c	h	l	
1	6 6,4 8 9,5 10 12	3	RAPRM-1xxxB3	20	20	13,5	56	2
2	10 12 12,7 13,5 14 15 16 17,2 18	3	RAPRM-2xxxB3	29	29	16,5	85	2
3	15 16 17,2 18 19 20 21,3 22 23 25 25,4	3	RAPRM-3xxxB3	36	36	18,5	106	2

²⁾ohne Vorspannung

³⁾Bei Montage von Vollgummi-Schellen sind Deckplatten, Sechskantschrauben und Sicherungsscheiben zu verwenden

²⁾without prestress

³⁾When assembling solid rubber tube clamps, cover plates, hexagon head screws and locking washers must be used

MULTISCHELLE SERIE A | EINZELTEILE
MULTICLAMP SERIES A | COMPONENTS

Bestellzeichen für Schellenhälften:

Polypropylen
 innen glatt
 Polyamid 6
 innen glatt
 Vollgummi

RAPRM
RAPGM²⁾
RANRM
RANGM²⁾
RAVGM^{2) 3)}

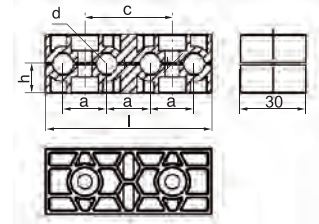
Order codes for clamp-halves:

Polypropylene
 inside smooth
 Polyamide 6
 inside smooth
 Rubber

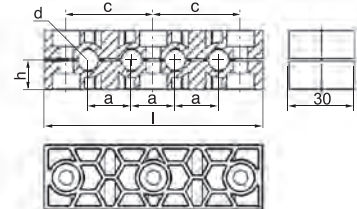
RAPRM
RAPGM²⁾
RANRM
RANGM²⁾
RAVGM^{2) 3)}

Bei Bedarf Standardkurzzeichen RAPRM in der Spalte „Schellenhälften“ austauschen.

Replace standard abbreviation RAPRM in column "clamp-halves" as required.



GRÖSSE SIZE	Rohr-AD mm O.D. mm	Anzahl der Rohre Number of tubes	RAPRM	RAPRM-...				Befestigungsschrauben Fastening screws
	d ₁		1 Stück / 2 Schellenhälften 1 part / 2 clamp-halves	2 Schellenhälften / 2 clamp-halves				
				a	c	h	l	B
1	6	4	RAPRM-1xxxB4	20	40	13,5	76	2
	6,4							
	8							
	9,5							
	10							
12								
2	10	4	RAPRM-2xxxB4	29	58	16,5	114	2
	12							
	12,7							
	13,5							
	14							
	15							
	16							
	17,2							
18								
3	15	4	RAPRM-3xxxB4	36	72	18,5	142	2
	16							
	17,2							
	18							
	19							
	20							
	21,3							
	22							
	23							
	25							
	25,4							



GRÖSSE SIZE	Rohr-AD mm O.D. mm	Anzahl der Rohre Number of tubes	RAPRM	RAPRM-...				Befestigungsschrauben Fastening screws
	d ₁		1 Stück / 2 Schellenhälften 1 part / 2 clamp-halves	2 Schellenhälften / 2 clamp-halves				
				a	c	h	l	C
1	6	4	RAPRM-1xxxC4	20	40	13,5	100,5	3
	6,4							
	8							
	9,5							
	10							
12								
2	10	4	RAPRM-2xxxC4	29	58	16,5	136,5	3
	12							
	12,7							
	13,5							
	14							
	15							
	16							
	17,2							
18								
3	15	4	RAPRM-3xxxC4	36	72	18,5	164,5	3
	16							
	17,2							
	18							
	19							
	20							
	21,3							
	22							
	23							
	25							
	25,4							

²⁾ohne Vorspannung

³⁾Bei Montage von Vollgummi-Schellen sind Deckplatten, Sechskantschrauben und Sicherungsscheiben zu verwenden

²⁾without prestress

³⁾When assembling solid rubber tube clamps, cover plates, hexagon head screws and locking washers must be used

Bestellzeichen für Schellenhälften:

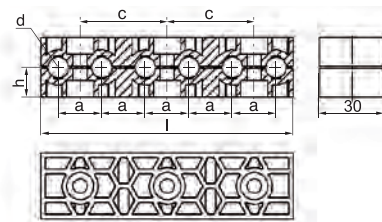
Polypropylen **RAPRM**
 innen glatt **RAPGM²⁾**
 Polyamid 6 **RANRM**
 innen glatt **RANGM²⁾**
 Vollgummi **RAVGM^{2) 3)}**

Bei Bedarf Standardkurzzeichen RAPRM in der Spalte „Schellenhälften“ austauschen.

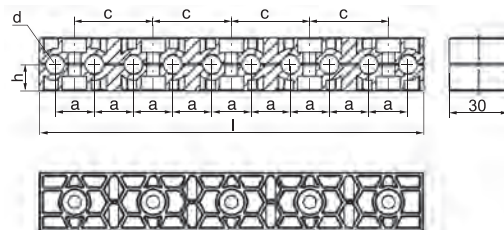
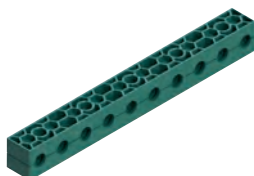
Order codes for clamp-halves:

Polypropylene **RAPRM**
 inside smooth **RAPGM²⁾**
 Polyamide 6 **RANRM**
 inside smooth **RANGM²⁾**
 Rubber **RAVGM^{2) 3)}**

Replace standard abbreviation RAPRM in column "clamp-halves" as required.



GRÖSSE SIZE	Rohr-AD mm O.D. mm d ₁	Anzahl der Rohre Number of tubes	RAPRM	RAPRM-...				Befestigungsschrauben Fastening screws C
			1 Stück / 2 Schellenhälften 1 part / 2 clamp-halves	a	c	h	l	
1	6 6,4 8 9,5 10 12	6	RAPRM-1xxxC6	20	40	13,5	116	3
2	10 12 12,7 13,5 14 15 16 17,2 18	6	RAPRM-2xxxC6	29	58	16,5	172	3
3	15 16 17,2 18 19 20 21,3 22 23 25 25,4	6	RAPRM-3xxxC6	36	72	18,5	214	3



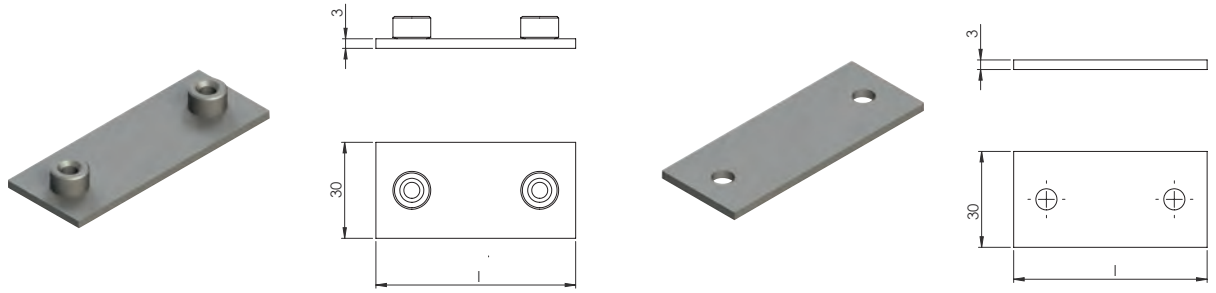
GRÖSSE SIZE	Rohr-AD mm O.D. mm d ₁	Anzahl der Rohre Number of tubes	RAPRM	RAPRM-...				Befestigungsschrauben Fastening screws E
			1 Stück / 2 Schellenhälften 1 part / 2 clamp-halves	a	c	h	l	
1	6 6,4 8 9,5 10 12	10	RAPRM-1xxxE10	20	40	13,5	196	5
2	10 12 12,7 13,5 14 15 16 17,2 18	10	RAPRM-2xxxE10	29	58	16,5	288	5
3	15 16 17,2 18 19 20 21,3 22 23 25 25,4	10	RAPRM-3xxxE10	36	72	18,5	358	5

²⁾ohne Vorspannung

³⁾Bei Montage von Vollgummi-Schellen sind Deckplatten, Sechskantschrauben und Sicherungsscheiben zu verwenden

²⁾without prestress

³⁾When assembling solid rubber tube clamps, cover plates, hexagon head screws and locking washers must be used



GRÖSSE SIZE	APM-A Anschweißplatte Weld plate						DPM-A Deckplatte Cover plate					
	B2	B3	B4	C4	C6	E10	B2	B3	B4	C4	C6	E10
1	62,5	58	78	102,5	118	198	60,5	56	76	100,5	116	196
2	80,5	87	116	138,5	174	290	78,5	85	114	136,5	172	288
3	94,5	108	144	166,5	216	360	92,5	106	142	164,5	214	358

// BESTELLBEISPIEL

RAPRM-1xx/B2
RAPRM-106/8/B2
RAPRM-315/21,3/25,4/B3

R A P R M - 1 06 / B 4

R	A	P	R	M	-	1	06	/	B	4
										Anzahl der Rohre
										Anzahl der Schrauben A = 1, B = 2, C = 3, D = 4, E = 5
										Durchmesser
										Schellengröße
										Variante M = Multi
										Innenfläche R = Rippen, G = Glatt
										Werkstoff P = Polypropylen, N = Polyamid, V = TPE
										Serie A = Leichtbaureihe
Rohrschelle / Schellenkörper										

// EXAMPLE OF ORDER

RAPRM-1xx/B2
RAPRM-106/8/B2
RAPRM-315/21,3/25,4/B3

R A P R M - 1 06 / B 4

R	A	P	R	M	-	1	06	/	B	4
										Number of Tubes
										Number of screws A = 1, B = 2, C = 3, D = 4, E = 5
										Diameter
										Clamp size
										Version M = Multi
										Interior surface R = grooved, G = smooth
										Material P = polypropylene, N = polyamide, V = TPE
										Serie A = Light construction series
Tube clamp										

Metallteile in Edelstahl lieferbar.
All metal parts are available in stainless steel.



// 06

ROHRSCHELLEN SERIE O

TUBE CLAMPS SERIES O



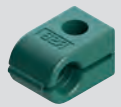
- schnelle Montage
- geringer Platzbedarf
- Deckplatte sorgt für stabile Befestigung
- sichere Klemmung der Rohre durch Vorspannung
- verschiedene Rohrdurchmesser kombinierbar
- Befestigung mit Schrauben
- besonders geeignet für Kabel, Schläuche, Gas-, Öl- und Schmierleitungen
- Metallteile auch in Edelstahl lieferbar

- quick assembly
- space-saving
- Cover plate provides for stable fixing
- secure clamping of tubes due to pre-clamping
- different tube diameters combinable
- Fixing with screws
- particularly suitable for cables, hoses, gas and oil pipes, lubricating lines
- Metal parts also available in stainless steel



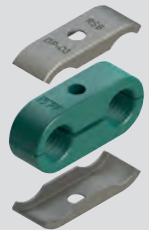
Rohrschelle Serie O
platzsparend und flexibel
von Ø 6 mm bis 22 mm

Tube clamp series O
space-saving and flexible
from Ø 6 mm to 22 mm



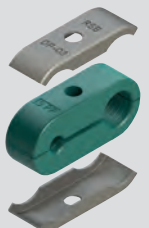
Doppel-Rohrschelle
Serie O mit gleichen
Durchmessern
von Ø 6 mm bis 22 mm

Double-tube clamp series O
with same diameters
from Ø 6 mm to 22 mm



Doppel-Rohrschelle Serie O
mit unterschiedlichen
Durchmessern von
Ø 6 mm bis 22 mm

Double-tube clamp series
O with different diameters
from Ø 6 mm to 22 mm



// ROHRSCHELLE SERIE O

// TUBE CLAMP SERIES O

Bestellzeichen für Schellenhälften:

Polypropylen **ROP-***
Polyamid **RON-***

* ergänzen mit Größe und Durchmesser (z.B. ROP-106)

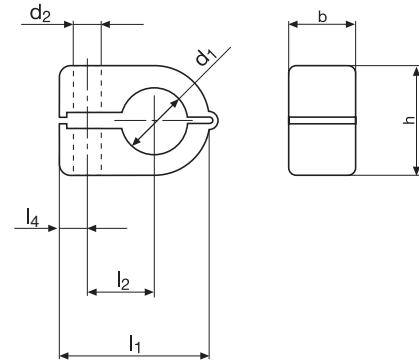
Verpackungseinheiten:
100 Stück

Order codes for clamp-halves:

Polypropylene **ROP-***
Polyamide **RON-***

* supplement with size and tube Ø mm (e.g. ROP-106)

Packing standard:
100 pieces



ANWENDUNGSBEREICHE

NOISE PROTECTION INSERT

Anwendungsbereiche:

- Drucklufttechnik
- Fahrzeugbau
- Maschinenbau
- Mess- und Regeltechnik
- Schiffsbau
- geeignet für Kabel und Schläuche

Areas of application:

- Pneumatics
- Automotive Technology
- Machine tool industry
- Lubrication
- Naval Technology
- suitable for cables and hoses

GRÖSSE SIZE	Rohr-Ø d ₁ / Tube Ø d ₁			l ₁	l ₂	l ₄	b	h	d ₂
	mm O.D. mm	Rohrzoll Tube NB	Inch Inch						
1	6		1/4	23	9			13,5	
	6,4								
	8								
2	8	G 1/8	3/8	27	11	7		18,5	
	9,5								
	10								
	12								
3	12,7	G 1/4	1/2	34	15		14,5	23,5	6,5
	14								
	15								
	16								
	16								
4	14	G 3/8	5/8	40	19	6		30,5	
	15								
	16								
	17,2								
	18								
	19								
	20								
21,3	G 1/2	3/4							
22									

// DOPPEL-ROHRSCHELLE SERIE O // DOUBLE-TUBE CLAMP SERIES O

Bestellzeichen für Schellenhälften:

Polypropylen **ROPD-***
Polyamid **ROND-***

* ergänzen mit Größe und Durchmesser (z.B. ROPD-106), unterschiedliche Durchmesser auf Anfrage

Verpackungseinheiten: 100 Stück

Order codes for clamp-halves:

Polypropylene **ROPD-***
Polyamide **ROND-***

* supplement with size and tube Ø mm (e.g. ROPD-106), different diameters on request

Packing standard: 100 pieces



DECKPLATTE COVER PLATE

Bestellzeichen: DP-O*

* ergänzen mit Größe

Material: Stahl verzinkt (Edelstahl auf Anfrage)

Order codes: DP-O*

* supplement with size

Material: Galvanized steel (Stainless steel upon request)

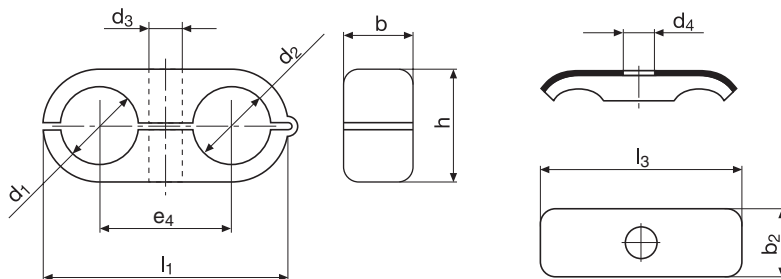
ANWENDUNGSBEREICHE NOISE PROTECTION INSERT

Anwendungsbereiche:

- Drucklufttechnik
- Fahrzeugbau
- Maschinenbau
- Mess- und Regeltechnik
- Schiffsbau
- geeignet für Kabel und Schläuche

Areas of application:

- Pneumatics
- Automotive Technology
- Machine tool industry
- Lubrication
- Naval Technology
- suitable for cables and hoses



GRÖSSE SIZE	Rohr-Ø d1+ d2 / Tube Ø d1+ d2			l ₁	e ₄	b	h	d ₃	l ₃	b ₂	d ₄	
	mm O.D. mm	Rohrzoll Tube NB	Inch Inch									
1	6		1/4	32	18		13,5		29			
	6,4											
	8											
2	8	G 1/8	3/8	41	22		18,5		40	16,3		
	9,5											
	10											
	12,7											1/2
3	10	G 1/4	1/2	54	30	14,5	23,5	6,5	50,5		6,5	
	12											
	12,7											
	14											
	15											
4	16	G 3/8	5/8	69	38		30,5		63	16,5		
	14											
	15											
	16											
	17,2											
	18											3/4
	19											
20												
21,3	G 1/2											
22												

Metallteile in Edelstahl lieferbar.
All metal parts available in stainless steel.



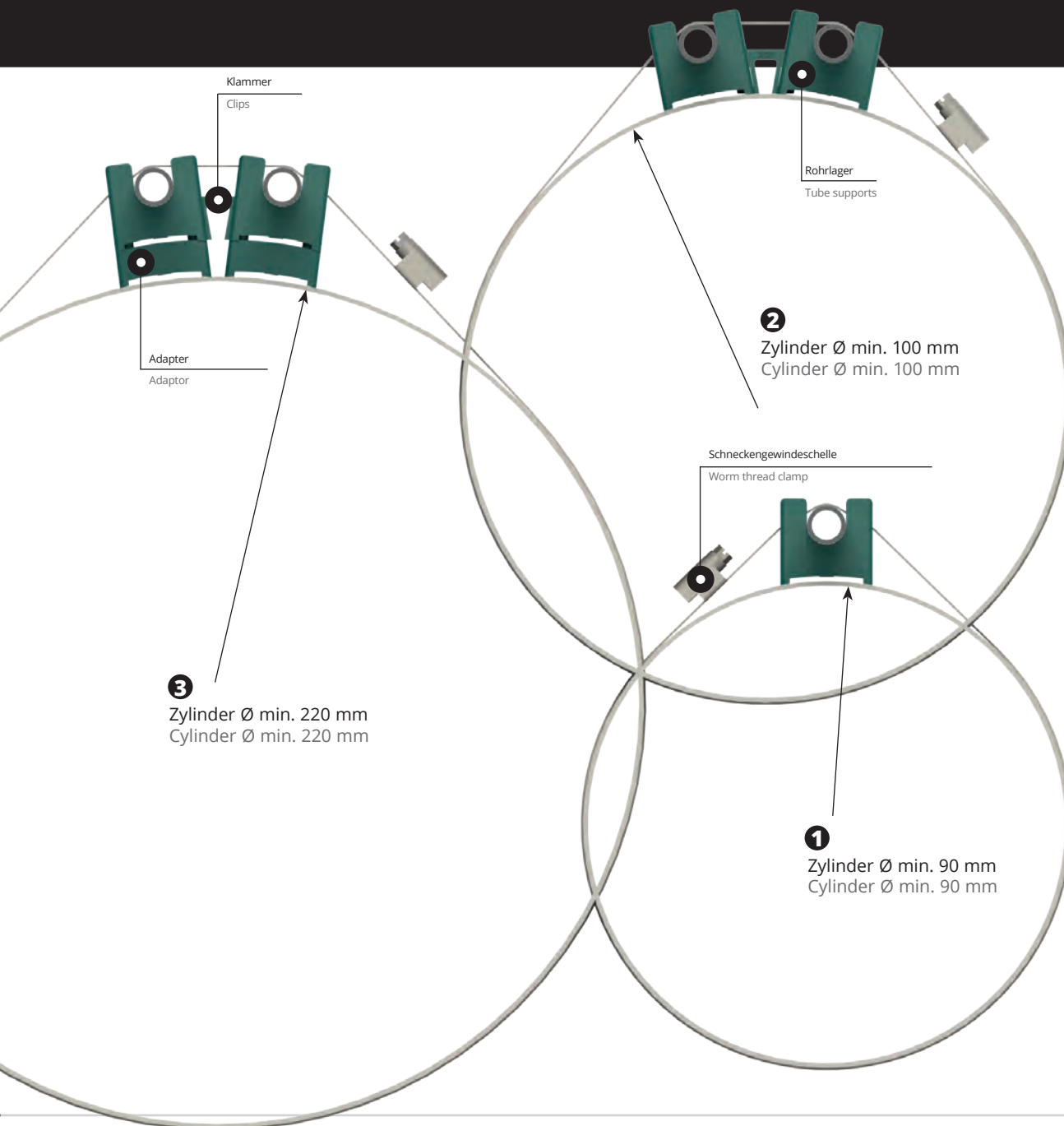
// 06

ROHRBEFESTIGUNG AUF EINEM ZYLINDER

Rohrlager – Adapter – Klammer – Spannband

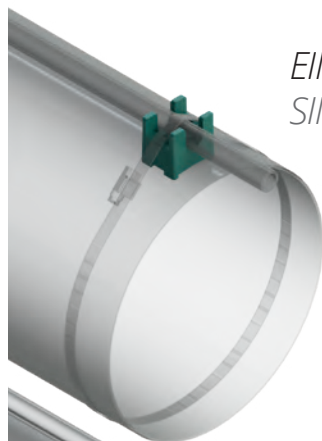
TUBE FASTENING ON A CYLINDER

Tube support – Adaptor – Clip – Worm thread clamps



DIE MONTAGE: DAS „CLIP + FERTIG“-PRINZIP! ASSEMBLY: THE “CLIP + READY”-SYSTEM!

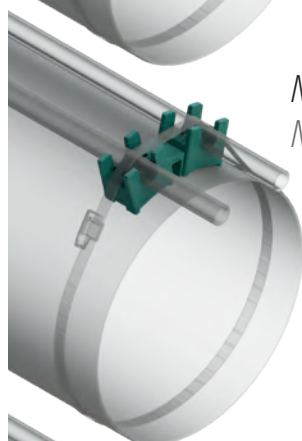
1.



EINZELMONTAGE
 SINGLE ASSEMBLY

Rohrlager ohne Adapter
 Tube support without adaptor

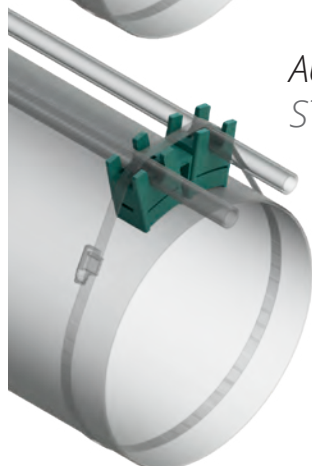
2.



MEHRFACH-MONTAGE
 MULTIPLE ASSEMBLY

Rohrlager mit Klammer
 Tube support with clip

3.



AUFBAU-MONTAGE
 STACKING ASSEMBLY

Rohrlager mit Adapter
 Tube support with adaptor

ROHRLAGER, ADAPTER, KLAMMER UND SPANNBAND SIND ALS SYSTEM AUSGELEGT.

Als Einzelteil oder in Kombination lassen sich praxisbezogen unterschiedliche Montagesituationen realisieren.

Berücksichtigt werden hierbei:

- Montage von Rohren oder Schläuchen auf Hydraulik-Zylindern
- unterschiedliche Rohr- oder Schlauch-Durchmesser
- unterschiedliche Rohrabstände zum Zylinder
- die Montage mehrerer Rohrlager für unterschiedliche Rohrdurchmesser

THE COMPLETE SYSTEM CONSISTS OF THE FOLLOWING INDIVIDUAL COMPONENTS:

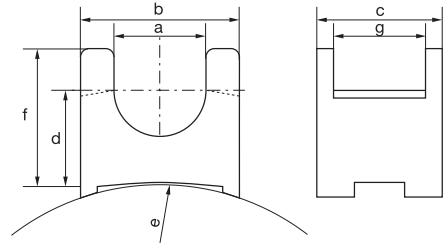
Tube support, adaptor, clip and worm thread clamps. Practical solutions for many different assembly situations can be found by either using an individual component or by combining all the components.

For example:

- Assembly of tubes or hoses on hydraulic cylinder
- different tube or hose diameters
- different distances between tubes and cylinder
- the assembly of several tube supports for different tube diameters

	BILD / FIGURE 1.	BILD / FIGURE 2.	BILD / FIGURE 3.
Montage auf Hydr.-Zylinder Assembly hydr. cylinder	Einzelmontage Rohrlager ohne Adapter Single-part assembly Tube support without adaptor	Montage mehrerer Rohrlager mit Klammer ohne Adapter Assembly several tube supports with clip without adaptor	Montage mehrerer Rohrlager für verschiedene Rohr-Ø mit Klammer und Adapter Assembly several tube supports with clip adaptors
Zylinder / Cylinder Ø	min. Ø 90 mm	min. Ø 100 mm	min. Ø 220 mm

// ROHRLAGER // TUBE SUPPORT



Bestellzeichen:

Polypropylen **RLP**

Mit dem Rohrlager RLP werden Rohre oder Schläuche unter Verwendung einer Schnecken-gewindeschelle (Spannband) auf Hydraulik-Zylinder montiert.

Siehe Bild 1

Order codes:

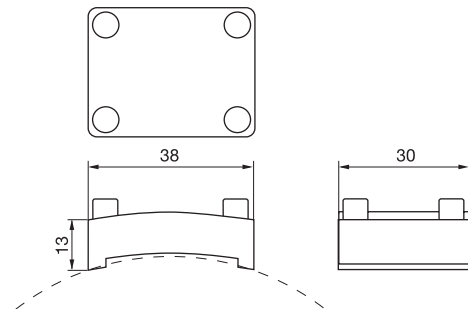
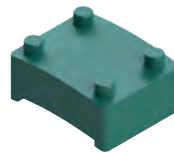
Polypropylene **RLP**

With the RLP tube support, tubes or hoses can be fitted on hydraulic cylinders by using a worm thread clamp.

See figure 1

GRÖSSE SIZE Rohr-Ø / Tube Ø mm	Bestellzeichen Order Codes	a	b	c	d	e	f	g
8	RLP-8	8						
10	RLP-10	10						
12	RLP-12	12						
15	RLP-15	15						
16	RLP-16	16	38	30	21	R 110	32	22
18	RLP-18	18						
20	RLP-20	20						
22	RLP-22	22						
25	RLP-25	25						

// ADAPTER // ADAPTOR



Bestellzeichen:

Polypropylen **ADP**

Der Adapter ADP wird unter das Rohrlager geklippt, um größere Rohrabstände zum Zylinder zu erzielen.

Siehe Bild 3

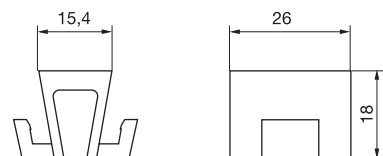
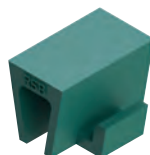
Order codes:

Polypropylene **ADP**

The ADP adaptor is clipped beneath the tube support in order to get a bigger distance between the tube and the cylinder.

See figure 3

// KLAMMER // CLIPS



Bestellzeichen:

Polypropylen **KLP**

Mit der Klammer KLP können Rohrlager zusammen-gefasst werden, um eine Montage von mehreren Rohren oder Schläuchen zu erleichtern.

Siehe Bild 2 und 3

Order codes:

Polypropylene **KLP**

KLP clips allow the assembly of tube supports. The tube supports are clipped together with the clip.

See figures 2 and 3

// SCHNECKENGEWINDESCHELLEN // WORM THREAD CLAMPS

Bestellzeichen: **SGS**

* Bestellzeichen ergänzen:
W1: Stahl verzinkt
W5: Rostfreier Stahl

**Abmessungen nur für eine Rohrleitung auf Rohrlager!

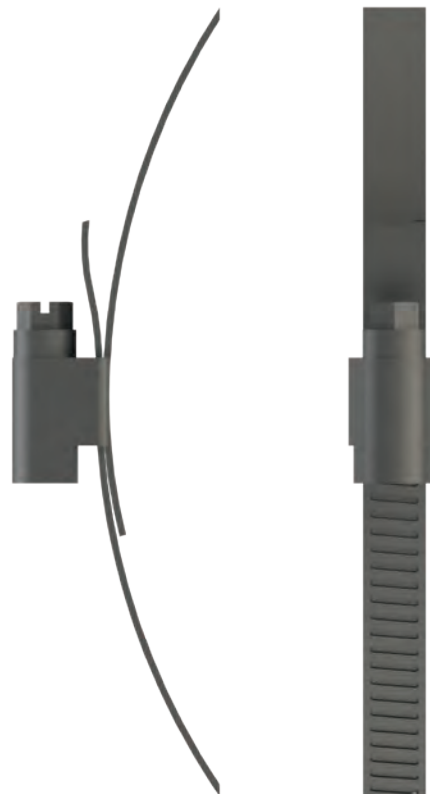
Bei Montage von mehr als einer Rohrleitung auf den Zylinder oder/und Aufbau mit Adapter sind entsprechend größere Schellen zu verwenden!

Order codes: **SGS**

* please add. to order code:
W1: Steel zinc plated
W5: Stainless steel

**Dimensions to use 1 pipe on 1 support!

Use clamps of the correct size when assembling more than one tube on the cylinder or/and when using the adaptor!



SCHNECKENGEWINDESCHELLEN NACH DIN 3017 / WORM THREAD CLAMPS DIN 3017		
Bandbreite Strip width	Bestellzeichen Order Codes	Passend für Zylinder-Ø** Fits cylinders**
12	SGS-100-120/W*	90 – 110
	SGS-110-130/W*	100 – 120
	SGS-120-140/W*	110 – 130
	SGS-130-150/W*	120 – 140
	SGS-140-160/W*	130 – 150
	SGS-150-170/W*	140 – 160
	SGS-160-180/W*	150 – 170
	SGS-170-190/W*	160 – 180
	SGS-180-200/W*	170 – 190
	SGS-190-210/W*	180 – 200
	SGS-200-220/W*	190 – 210
	SGS-210-230/W*	200 – 220
	SGS-220-240/W*	210 – 230
	SGS-230-250/W*	220 – 240
	SGS-240-260/W*	230 – 250
SGS-250-270/W*	240 – 260	
SGS-260-280/W*	250 – 270	



// 07

Sicher und vibrationshämmend

HYDRAULIK-STAHLSCHELLE

Save and vibration-insulation

HYDRAULIC STEEL CLAMP



*GERINGER PLATZBEDARF
NACHTRÄGLICHE ANSCHWEISSMÖGLICHKEIT
SCHWINGUNGSFREIES VERLEGEN VON ROHREN*

*SPACE-SAVING SYSTEM
CAN BE WELDED AFTERWARDS
ALLOWS VIBRATION-FREE LAYING AND MOUNTING OF TUBES*

KONSTRUKTION

Obere und untere Schellenhälfte sind identisch. Das Halteteil wird flach oder hochkant angeschweißt.

ANWENDUNGSBEREICHE

Die Schelle ist in der gesamten Mobil-Hydraulik, auch für den nachträglichen Einbau, einsetzbar.

DESIGN

Top and bottom clamp halves are identical. The support-block is welded in upend or flat position.

FIELD OF APPLICATION

The clamp is used for the whole mobile hydraulic. The small dimension of the clamp allows hydraulic tubes and hoses to be mounted afterwards.

MACHEN SIE IHRE BAUMASCHINEN FIT MIT HSRs

HYDRAULIK-ROHRSCHELLE HSRs

DO UP YOUR CONSTRUCTION MACHINES WITH HSRs

HYDRAULIC STEEL CLAMP HSRs

NACHTRÄGLICHE ANSCHWEISSMÖGLICHKEIT SCHWINGUNGSFREIES VERLEGEN VON ROHREN

WELD-ON POSSIBILITY LATER ON VIBRATION-FREE INSTALLATION OF TUBES AND HOSES

Die robuste Bauart der Schelle wirkt schlag- und vibrationsdämmend. Ein nachträgliches Verlegen von Hydraulikleitungen – zum Beispiel für den Anbau von Zusatzgeräten an Baumaschinen – ist durch die geringe Höhe der Schelle jederzeit möglich.

Die Schalldämmeinlage sorgt für eine verbesserte Geräuschkämpfung und garantiert eine sichere Befestigung empfindlicher Rohr- und Schlauchleitungen.

The robust construction of the clamp provides for impact and vibration reduction. The low height of this clamp type allows hydraulic lines to be installed at any time later on – e.g. for the installation of additional units on construction machines.

The noise protection inlay provides for an improved noise reduction and guarantees the safe fastening of sensitive tubes and host lines.



// HYDRAULIK-STAHLSCHELLE

// HYDRAULIC STEEL CLAMP

Bestellzeichen:

W1: Stahl verzinkt **HSRS-***

* Bestellzeichen ergänzen mit $\varnothing d_2$

Hydraulik-Stahlschellen HSRS finden vorwiegend im Bereich Baumaschinen Verwendung.

Das Halteteil wird hochkant oder flach aufliegend an den Maschinenkörper oder ein anderes Bauteil geschweißt. Die Rohrschelle wird angeschraubt.

Die robuste Bauart der Schelle wirkt schlag- und vibrationsdämmend. Ein nachträgliches Verlegen von Hydraulikleitungen – zum Beispiel für den Anbau von Zusatzgeräten an Baumaschinen – ist durch die geringe Höhe der Schelle jederzeit möglich.

Order codes:

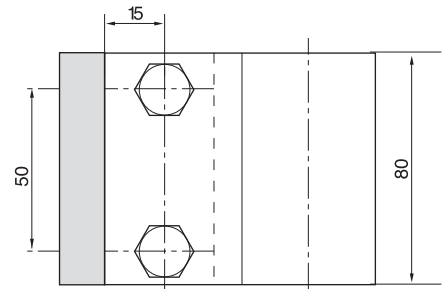
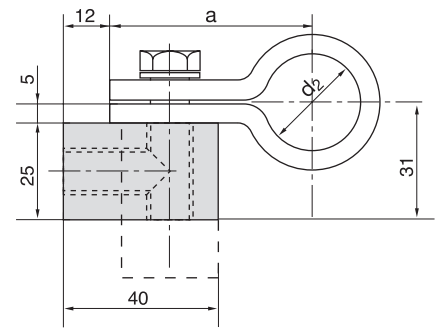
W1: Steel zinc plated **HSRS-***

* please add. $\varnothing d_2$

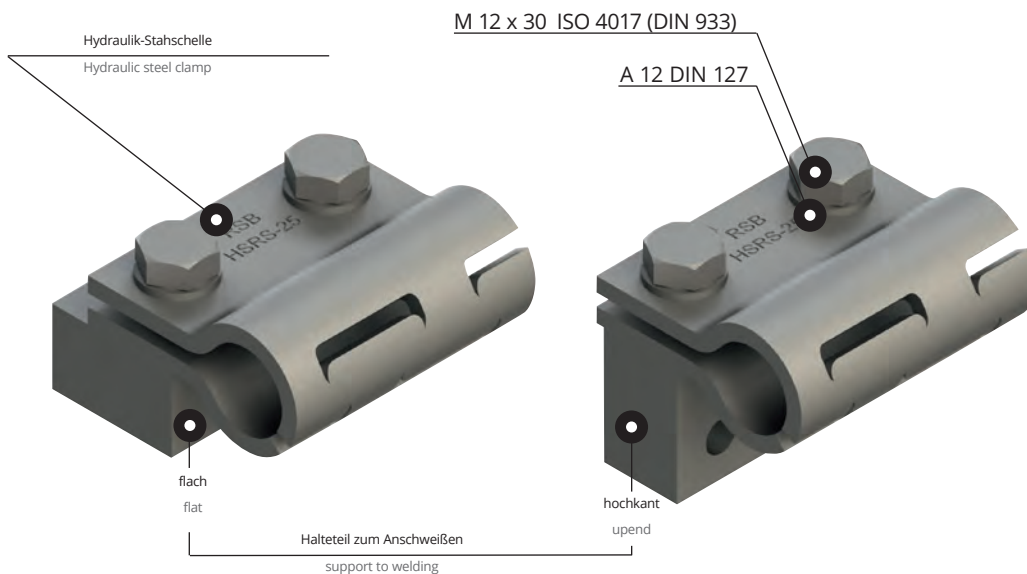
HSRS hydraulic steel clamps are mainly used in the field of construction machinery.

The support-block is welded to the machine body or another component either in upend or flat position.

The robust construction of the clamp has an impact- and vibration-insulation effect. The small dimension/height of the clamp allows hydraulic cables to be fitted on later – e.g. for installing additional equipment to building machinery.



Bestellzeichen Order codes	Maße / Measurement	
	$\varnothing d_2$	a
HSRS-25	25	52,5
HSRS-30	30	55
HSRS-35	35	57,5
HSRS-38	38	59
HSRS-42	42	61
HSRS-48	48	64
HSRS-50	50	65
HSRS-60 ¹⁾	60	70



¹⁾ Halteteil nur hochkant einsetzbar

¹⁾ The support can only be used in upright position

SCHALLDÄMMEINLAGE
NOISE PROTECTION INSERT

Bestellzeichen: EE-*

* Bestellzeichen ergänzen mit Nenngröße der Schelle und Rohraußendurchmesser

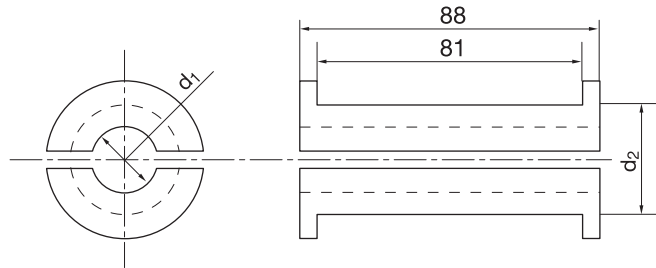
Hydraulik-Stahlschelle HSRS wahlweise auch mit Schalldämmeinlage.

Vorteil:

- verbesserte Geräusch- und Vibrationsdämmung
- sichere Befestigung auch empfindlicher Rohr und Schlauchleitungen
- mehrere Rohrdurchmesser mit einer Schelle möglich

Werkstoff:

- TPE 64° Shore
- hohe Öl- und Witterungsbeständigkeit,
 - Temperaturbeständigkeit von -40 bis +120°C



Order codes: EE-*

* complete with nominal clamp size and outside tube diameter

Hydraulic steel clamp HSRS also available with noise protection insert.

The advantages:

- improved quality as regards noise and vibration reduction
- safe fastening method even for very sensitive tube and hose lines
- only one clamp for different tube diameters

Material:

- TPE 64° Shore
- high oil and weathering resistance
 - Temperature stability between -40°C and +120°C

Bestellzeichen Order codes	Schelle Nenngröße Nominal size Ø d ₂	Rohr-Ø mm Tube Ø mm d ₁
EE 25-12	HSRS-25	12
EE 25-15		15
EE 30-20	HSRS-30	20
EE 35-25	HSRS-35	25
EE 42-30	HSRS-42	30
EE 50-35	HSRS-50	35
EE 50-38		38
EE 50-42		42
EE 60-47	HSRS-60	47
EE 60-50		50





VISITEC

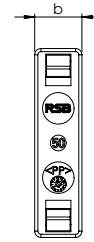
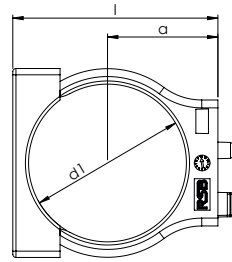
SCHLAUCHFÜHRUNG

HOSE GUIDE



Bestellzeichen:
Polypropylen **SHP**

Order codes:
Polypropylene **SHP**



Bestellzeichen Order Codes	SHP Maße Measurements			
	d ₁	a	l	b
SHP-14	14	17	35,6	15
SHP-16	16	18	36,9	
SHP-17	17	18,5	37,5	
SHP-18	18	19	38,1	
SHP-20	20	20	40,3	
SHP-21,5	21,5	20,8	41,6	
SHP-24	24	22	43,6	
SHP-26	26	23	45,3	
SHP-28,5	28,5	24,3	46	
SHP-30	30	25	48,3	
SHP-35	35	27,5	54,7	
SHP-43	43	31,5	60,3	
SHP-50	50	35	65	
SHP-65	65	42,5	79,8	

// BESTELLBEISPIEL

SH | P | - | 35 | Visitec

Durchmesser /
Anzahl Verbindungsstellen

Werkstoff
P=Polypropylen

SH=Schlauchführung (mit Sicherungsbügel)
ASH=Anschraubverbinder für Schlauchführung
VSH=Verbinder für Schlauchführungen

// EXAMPLE OF ORDER

SH | P | - | 35 | Visitec

Diameter /
Number of junctions

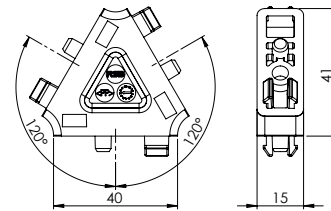
Material
P=polypropylene

SH=Hose guide (with safety bracket)
ASH=Screw connector for hose guide
VSH=Connector for hose guides

// 3ER-VERBINDER FÜR SCHLAUCHFÜHRUNGEN // 3-WAY CONNECTOR FOR HOSE GUIDES

Bestellzeichen:
Polypropylen **VSHP-3**

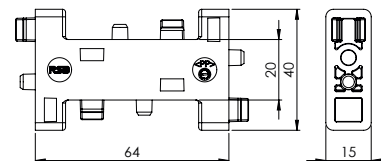
Order codes:
Polypropylene **VSHP-3**



// 4ER-VERBINDER FÜR SCHLAUCHFÜHRUNGEN // 4-WAY CONNECTOR FOR HOSE GUIDES

Bestellzeichen:
Polypropylen **VSHP-4**

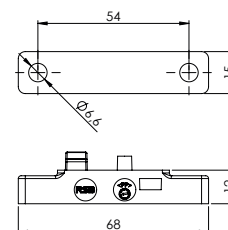
Order codes:
Polypropylene **VSHP-4**



// ANSCHRAUBVERBINDER FÜR SCHLAUCHFÜHRUNGEN // SREW CONNECTOR FOR HOSE GUIDES

Bestellzeichen:
Polypropylen **ASHP-1**

Order codes:
Polypropylene **ASHP-1**



ÜBERZEUGENDE VORTEILE
CONVINCING ADVANTAGES

- Einfache Montage ohne Beschädigung der Schläuche
- Flexible Installation
- Variable Durchmesser
- Fixation von bis zu vier Schläuchen unterschiedlicher Durchmesser
- Erhaltung der vollen Flexibilität
- Erfolgreiche Erprobung in der Praxis

Die besondere Fertigung und das neue Design ermöglichen eine flexible Installation der Schläuche; gleichzeitig werden Beschädigungen während der Montage verhindert.

Durch die variable Anzahl der Durchmesser sind Führungen von bis zu vier Schläuchen möglich. Die neue VISITEC Schlauchführung von RSB steht für eine schnelle und einfache Montage mit vielfältigen Installationsmöglichkeiten.

- Simple assembly without damaging the hoses
- Flexible installation
- Variable diameters
- Fixation of up to four hoses with different diameters
- Maintaining complete flexibility
- Successful field testing

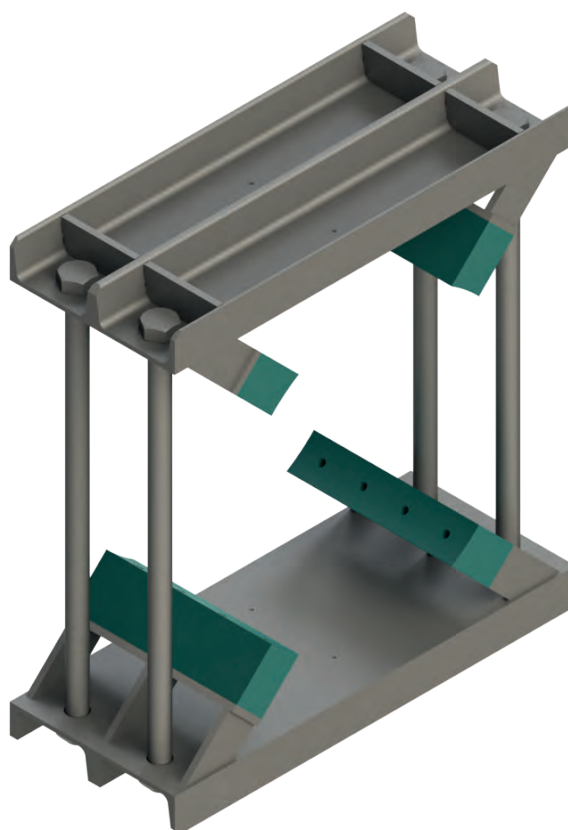
The special manufacture and the new design allow for a flexible installation of the hoses; at the same time, damage during assembly is prevented. Due to the variable number of diameters, guides of up to four hoses are possible. The new VISITEC hose guide from RSB features can be assembled quickly and easily with many different installation options.



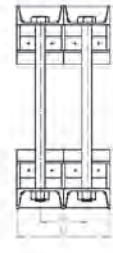
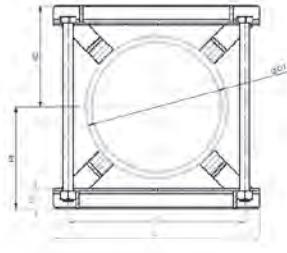
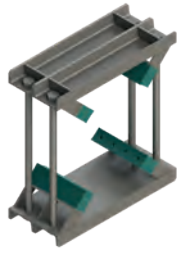
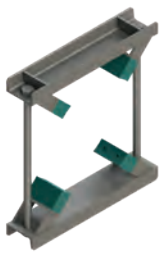
11 07

STAHL-KONSTRUKTIONSSCHELLE MIT ROHRUNTERLAGEN

**STEEL-CONSTRUCTION CLAMP
WITH TUBE SADDLES**



STAHL-KONSTRUKTIONSSHELLE MIT ROHRUNTERLAGEN | EINZELTEILE
STEEL-CONSTRUCTION CLAMP WITH TUBE SADDLES | COMPONENTS



Rohr-AD mm O.D.mm D1	Stahl-Konstruktionsschelle Steel-construction clamp								Sechskantschraube Hexagon head screw	Anzahl der Rohrunterlagen Number of tube saddles
	L1	L2	H1	H2	H3	B1	B2	B3		
220 - 275	420	330	220	220	60	140	280	140	M30 x 370	4
276 - 325	460	370	240	240	60	140	280	140	M30 x 410	4
326 - 370	510	420	260	260	60	140	280	140	M30 x 450	4
371 - 425	570	480	290	290	60	140	280	140	M30 x 510	4
426 - 485	620	530	305	305	60	140	280	140	M30 x 540	4
486 - 550	680	590	370	370	60	140	280	140	M30 x 670	4
551 - 630	760	670	410	410	60	140	280	140	M30 x 750	5
631 - 715	845	755	452	452	60	140	280	140	M30 x 840	5
716 - 800	940	850	495	495	60	140	280	140	M30 x 920	5

// BESTELLBEISPIEL

RKP-355,6/CRVIF
 RRPD-273/Zn

RK P - 220 / CRVIF

Durchmesser
 220

Ausführung
 D = doppelt

Werkstoff (Rohrunterlagen)
 P = Polypropylen, N = Polyamid

RK = Stahl-Konstruktionsschelle mit Rohrunterlagen

Merkmale
 Zn = verzinkt
 CRVIF = chrom VI frei
 Phos = phosphatiert
 P = grundiert
 1.4571 = Edelstahl
 1.4301 = Edelstahl

// EXAMPLE OF ORDER

RKP-355,6/CRVIF
 RRPD-273/Zn

RK P - 220 / CRVIF

Diameter
 220

Version
 D = double

Material (tube saddles)
 P = polypropylene, N = polyamide

RK = Steel-construction clamp with tube saddles

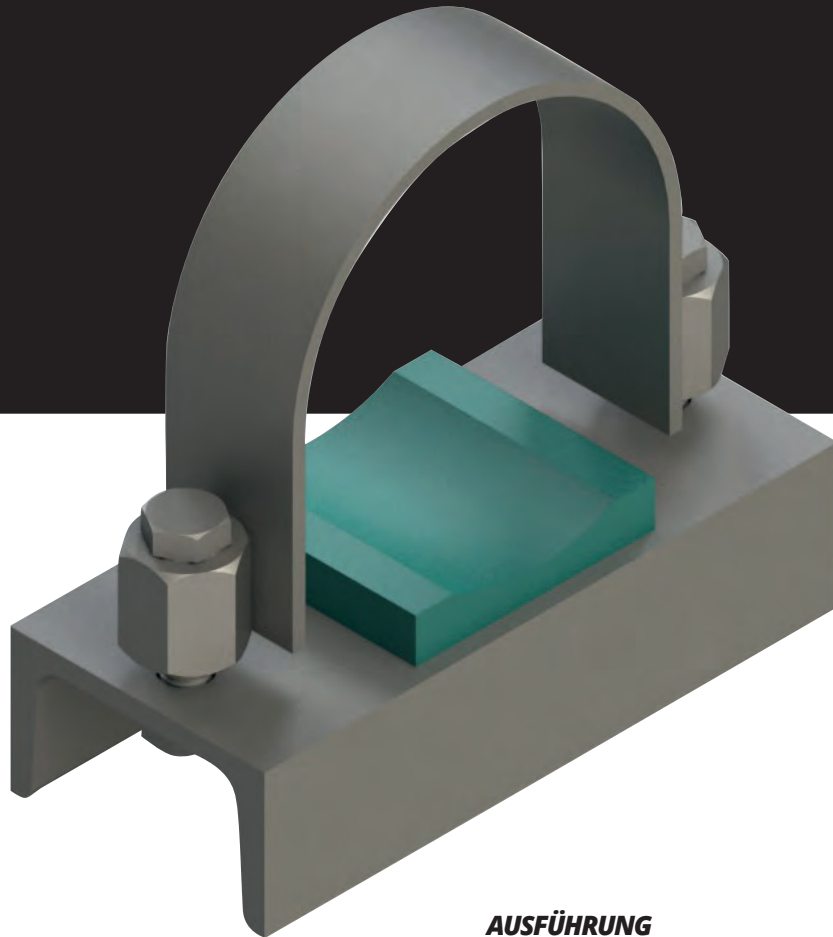
Features
 Zn = zinc plated
 CRVIF = chromium VI free
 Phos = phosphated
 P = primed
 1.4571 = stainless steel
 1.4301 = stainless steel



// 07

FLACHSTAHLBÜGEL

FLAT STEEL U-BOLTS



EINSATZBEREICH

Flachstahlbügel sind nur als Festpunkt-Befestigung einsetzbar

AREA OF APPLICATION

Flat steel U-bolts are to be used as fixed point-fastening only.

AUSFÜHRUNG

Flachstahlbügel mit U-Profil und kurzer Rohrunterlage KUPK.

Flachstahlbügel sind für Rohrdurchmesser von 48,3 bis 521 mm lieferbar.

Die Rohrunterlagen werden aus Polypropylen und Polyamid hergestellt.

CONSTRUCTION

Flat steel U-bolts with U-profile and short tube-saddle KUPK.

Flat steel U-bolts are available for tube diameters from 48,3mm to 521 mm.

The tube saddles are made of polypropylene and polyamide.



// 07

RUNDSTAHLBÜGEL MIT ROHRUNTERLAGE FLACHSTAHL-ROHRSCHELLE

Stahl, verzinkt
und Edelstahl

U-BOLT WITH TUBE SADDLE FLAT STEEL TUBE CLAMP

steel, galvanized steel and stainless steel

EINSATZBEREICH

Eignung besonders zum Befestigen von Rohren mit Wärmeausdehnung. Die Rohre können mit dem Bügel wahlweise fest verspannt, oder mit Gleitspiel versehen werden.

AUSFÜHRUNG

Rundstahlbügel sind in zwei Ausführungen lieferbar:

RUBD Rundstahlbügel DIN 3570 mit 2 Muttern und **RUBL** Rundstahlbügel mit 4 Muttern unter Verwendung mit **KUPK** oder **KUPL** Rohrunterlagen. Rundstahlbügel sind für Rohrdurchmesser von 17 bis 762 mm lieferbar.

Die Rohrunterlagen werden in kurzer oder langer Ausführung aus Polypropylen und Polyamid hergestellt.

AREA OF APPLICATION

Especially suitable for securing tubes with heat expansion. The tubes can be braced firmly to the bow or, alternatively, slide along grooves.

CONSTRUCTION

U-bolts are available in two designs:

RUBD DIN 3570 with 2 nuts and **RUBL** U-bolts with 4 nuts to be used with tube saddle **KUPK** or **KUPL**. U-bolts are available for tube diameters from 17 to 762 mm.

The tube saddles are made of polypropylene and polyamide and are produced in a short or long version.

Rundstahlbügel mit
Rohrunterlage lang

U-bolt with
tube saddle long



Rundstahlbügel mit
Rohrunterlage kurz

U-bolt with
tube saddle short



Rundstahlbügel

U-bolt



Flachstahl-
Rohrschelle

Flat steel
tube clamp



RUNDSTAHLBÜGEL DIN 3570 MIT 2 MUTTERN | EINZELTEILE U-BOLT WITH 2 NUTS DIN 3570 | COMPONENTS

Bestellzeichen:

Stahl
Stahl verzinkt
Edelstahl 1.4571

RUBD-*
RUBD-*/Zn
RUBD-*/1.4571

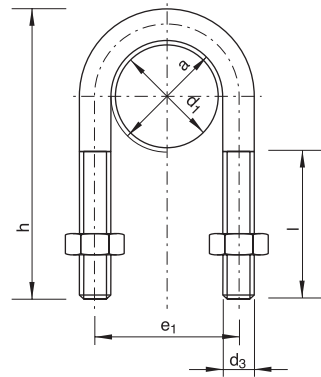
* mit Größe und Maß a ergänzen

Order codes:

Steel
Steel zinc plated
Stainless steel 1.4571

RUBD-*
RUBD-*/Zn
RUBD-*/1.4571

* complete with size and measure a



GRÖSSE SIZE	für Rohr for tube		RUBD Bestellzeichen Order Codes	a	l	d ₃	e ₁	h
	NW	d ₁						
15	3/8"	17,2	RUBD-15/24	24	40	M 10	34	65
	1/2"	21,3						
20	3/4"	25	RUBD-20/30	30	40	M 10	40	70
		26,9						
25	1"	30	RUBD-25/38	38	50	M 10	48	76
		33,7						
32	1 1/4"	38	RUBD-32/46	46	50	M 10	56	86
40	1 1/2"	44,5	RUBD-40/52	52			62	92
50	2"	57	RUBD-50/64	64	50	M 12	76	109
65	2 1/2"	60,3	RUBD-65/82	82			94	125
80	3"	76,1	RUBD-80/94	94	60	M 16	106	138
100	4"	88,9	RUBD-100/120	120			136	171
125	5"	108	RUBD-125/148	148	60	M 16	164	191
150	6"	114,3	RUBD-150/176	176			192	217
175		159	RUBD-175/202	202	70	M 20	218	249
200	8"	168,3	RUBD-200/228	228			248	283
250	10"	216	RUBD-250/282	282	70	M 20	302	334
300	12"	267	RUBD-300/332	332			352	385
350	14"	318	RUBD-350/378	378	70	M 24	402	435
400	16"	323,9	RUBD-400/428	428			452	487
500	20"	406,4	RUBD-500/530	530	70	M 24	554	589
		419						
		508						
		521						

Rundstahlbügel sind mit Rohrunterlagen kombinierbar. Bügel und Rohrunterlagen können auch einzeln bezogen werden.
RUBD mit KUPK oder KUPL sind als Gleit- und Festpunkt-Befestigung einsetzbar.
Lieferbar: ohne Oberflächenbehandlung, verzinkt und Edelstahl.

U-bolts be combined with tube saddles. U-bolts and tube saddles are also available in single pieces.
RUBD with KUPK or KUPL may be used as glide- or fixed point-fastening.
Available: without surface treatment, galvanized and stainless steel.



RUNDSTAHLBÜGEL MIT 4 MUTTERN | EINZELTEILE U-BOLT WITH 4 NUTS | COMPONENTS

Bestellzeichen:

Stahl
Stahl verzinkt
Edelstahl 1.4571

RUBL-*
RUBL-*/Zn
RUBL-*/1.4571

* mit Größe und Maß a ergänzen

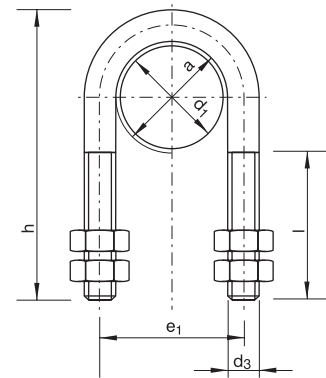
Order codes:

Steel
Steel zinc plated
Stainless steel 1.4571

RUBL-*
RUBL-*/Zn
RUBL-*/1.4571

* complete with size and measure a

Rundstahlbügel ähnlich DIN 3570
U-Bolts similar to DIN 3570



GRÖSSE SIZE	für Rohr for tube		RUBL Bestellzeichen Order Codes	a	l	d ₃	e ₁	h
	NW	d ₁						
15	3/8"	17,2	RUBL-15/24	24	40	M 10	34	70
	1/2"	21,3						
20	3/4"	25	RUBL-20/30	30	46		40	73,5
		26,9						
25	1"	30	RUBL-25/38	38	50		48	81
		33,7						
32	1 1/4"	38	RUBL-32/46	46			56	89
		42,4						
40	1 1/2"	44,5	RUBL-40/52	52	55		62	100
		48,3						
50	2"	57	RUBL-50/64	64	63	76	118	
		60,3						
65	2 1/2"	76,1	RUBL-65/82	82	77	94	135	
		88,9						
80	3"	88,9	RUBL-80/94	94	82	106	152	
100	4"	108	RUBL-100/120	120		136	190	
		114,3						
125	5"	133	RUBL-125/148	148	105	164	217	
		139,7						
150	6"	159	RUBL-150/176	176		192	247	
		168,3						
175		193,7	RUBL-175/202	202		218	273	
200	8"	216	RUBL-200/228	228		248	311	
		219,1						
250	10"	267	RUBL-250/282	282	125	302	364	
		273						
300	12"	318	RUBL-300/332	332		352	418	
		323,9						
350	14"	355,6	RUBL-350/378	378		402	475	
		368						
400	16"	406,4	RUBL-400/428	428	145	452	526	
		419						
500	20"	508	RUBL-500/530	530		554	627	
		521						
550		558,8	RUBL-550/570	570		600	689	
600		609,6	RUBL-600/622	622		652	741	
650		660,4	RUBL-650/680	680	175	710	795	
700		711,2	RUBL-700/730	730		760	845	
750		762	RUBL-750/785	785		815	898	

Rundstahlbügel sind mit Rohrunterlagen kombinierbar. Bügel und Rohrunterlagen können auch einzeln bezogen werden.
RUBL mit KUPK oder KUPL sind als Gleit- und Festpunkt-Befestigung einsetzbar.
Lieferbar: ohne Oberflächenbehandlung, verzinkt und Edelstahl.

U-bolts be combined with tube saddles. U-bolts and tube saddles are also available in single pieces.
RUBL with KUPK or KUPL may be used as glide- or fixed point-fastening.
Available: without surface treatment, galvanized and stainless steel.



Bestellzeichen:

Polypropylen
 Polyamid 6

KUPL-*
KUNL-*

* mit Größe und Durchmesser d_1 ergänzen

Bei Bedarf Standardkurzzeichen KUPL in der Spalte „Bestellzeichen“ austauschen.

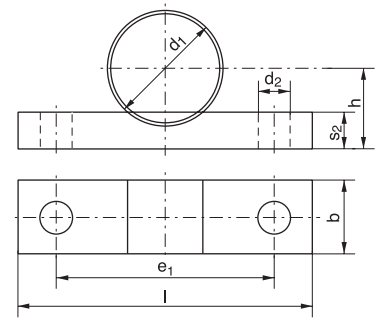
Order codes:

Polypropylene
 Polyamide 6

KUPL-*
KUNL-*

* complete with size and diameter d_1

Replace standard abbreviation KUPL in column "Order codes" as required.



GRÖSSE SIZE	für Rohr for tube		KUPL Bestellzeichen Order Codes	l	b	s ₂	h	e ₁	d ₂
	NW	d ₁							
15	3/8"	17,2	KUPL-15/17,2	60	25	10	13,5	34	
	1/2"	21,3	KUPL-15/21,3				15,5		
20	3/4"	25	KUPL-20/25	75	30	12	17,5	40	
		26,9	KUPL-20/26,9				18,5		
25	1"	30	KUPL-25/30	80	35	15	20	48	11
		33,7	KUPL-25/33,7				22		
32	1 1/4"	38	KUPL-32/38	90	40	20	24	56	
		42,4	KUPL-32/42,4				26,2		
40	1 1/2"	44,5	KUPL-40/44,5	95	45	25	27,2	62	
		48,3	KUPL-40/48,3				29		
50	2"	57	KUPL-50/57	110	50	30	33,5	76	14
		60,3	KUPL-50/60,3				35,2		
65	2 1/2"	76,1	KUPL-65/76,1	135	55	35	43	94	
80	3"	88,9	KUPL-80/88,9	145	60	40	54,5	106	
100	4"	108	KUPL-100/108	190	65	45	64	136	
		114,3	KUPL-100/114,3				67		
125	5"	133	KUPL-125/133	220	70	50	76,5	164	18
		139,7	KUPL-125/139,7				80		
150	6"	159	KUPL-150/159	250	75	55	91,5	192	
		168,3	KUPL-150/168,3				96		
175	8"	193,7	KUPL-175/193,7	270	80	60	109	218	
		216	KUPL-200/216				120		
200	10"	219,1	KUPL-200/219,1	315	85	65	121,5	248	
		267	KUPL-250/267				145,5		
250	12"	273	KUPL-250/273	370	90	70	148,5	302	22
		318	KUPL-300/318				174		
300	14"	323,9	KUPL-300/323,9	420	95	75	177	352	
		355,6	KUPL-350/355,6				193		
350	16"	368	KUPL-350/368	480	100	80	199	402	
		406,4	KUPL-400/406,4				218		
400	18"	419	KUPL-400/419	540	105	85	224,5	452	26
		508	KUPL-500/508				269		
500	20"	521	KUPL-500/521	640	110	90	276	554	
		558,8	KUPL-550/558,8				300		
600		609,6	KUPL-600/609,6	750	115	95	325	652	
650		660,4	KUPL-650/660,4	810	120	100	350	710	33
700		711,2	KUPL-700/711,2	870	125	105	376	760	
750		762	KUPL-750/762	910	130	110	401	815	

ROHRUNTERLAGE, KURZ | EINZELTEILE
TUBE SADDLE, SHORT | COMPONENTS

Bestellzeichen:

Polypropylen
 Polyamid 6

KUPK-*
KUNK-*

* mit Größe und Durchmesser d_1 ergänzen

Bei Bedarf Standardkurzzeichen KUPK in der Spalte „Bestellzeichen“ austauschen.

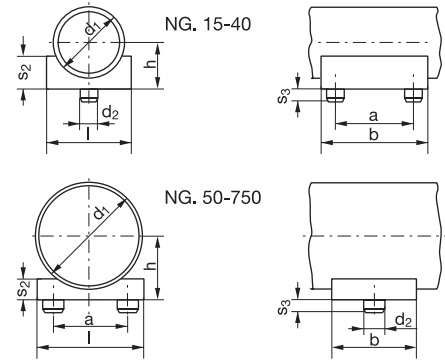
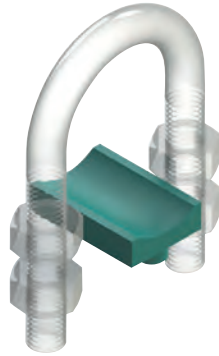
Order codes:

Polypropylene
 Polyamide 6

KUPK-*
KUNK-*

* complete with size and diameter d_1

Replace standard abbreviation KUPK in column "Order codes" as required.



GRÖSSE SIZE	für Rohr for tube		KUPK Bestellzeichen Order Codes	l	b	s ₂	h	a	d ₂	s ₃																																																						
	NW	d ₁																																																														
15	3/8"	17,2	KUPK-15/17,2	24	35	8	13,6	25	8	5																																																						
	1/2"	21,3	KUPK-15/21,3				15,65																																																									
20	3/4"	25	KUPK-20/25				38				50	10	17,5	10	6																																																	
		26,9	KUPK-20/26,9										18,45																																																			
25	1"	30	KUPK-25/30										75			70	14	20	90	25																																												
		33,7	KUPK-25/33,7															21,85																																														
32	1 1/4"	38	KUPK-32/38															140			75	23	24	150	30																																							
		42,4	KUPK-32/42,4																				26,2																																									
40	1 1/2"	44,5	KUPK-40/44,5																				220			75	30	27,25	150	30																																		
		48,3	KUPK-40/48,3																									29,15																																				
50	2"	57	KUPK-50/57																									300			75	38	33,5	220	30																													
		60,3	KUPK-50/60,3																														35,15																															
65	2 1/2"	76,1	KUPK-65/76,1																														300			75	38	43,05	220	30																								
80	3"	88,9	KUPK-80/88,9																																			300			75	38	52,45	220	30																			
		100	4"																																								108			KUPK-100/108	300	75	38	62	220	30												
114,3	KUPK-100/114,3																																										65,15																					
125	5"	133	KUPK-125/133																																								300			75				38			74,5	220	30									
		139,7	KUPK-125/139,7																																																		77,85											
150	6"	159	KUPK-150/159																																																		300			75	38	87,5	220	30				
		168,3	KUPK-150/168,3																																																							92,15						
175	8"	193,7	KUPK-175/193,7	300	75	38		104,85	220	30																																																						
		200	10"					216																																																		KUPK-200/216			300	75	38	116
219,1	KUPK-200/219,1						117,55																																																									
250	12"	267	KUPK-250/267				300	75			38	141,5		220	30																																																	
		273	KUPK-250/273									144,5																																																				
300	14"	318	KUPK-300/318									300	75			38	167		220	30																																												
		323,9	KUPK-300/323,9														169,95																																															
350	16"	355,6	KUPK-350/355,6														300	75			38	185,8		220	30																																							
		368	KUPK-350/368																			192																																										
400	20"	406,4	KUPK-400/406,4																			300	75			38	211,2		220	30																																		
		419	KUPK-400/419																								217,5																																					
500	22"	508	KUPK-500/508																								300	75			38	262		220	30																													
		521	KUPK-500/521																													268,5																																
550		558,8	KUPK-550/558,8																													300	75			38	287,4	220	30																									
600		609,6	KUPK-600/609,6																																		300			75	38	312,8		220	30																			
650		660,4	KUPK-650/660,4																																							300					75	38	338,2		220	30												
700		711,2	KUPK-700/711,2																																								300			75			38	363,6				220	30									
750		762	KUPK-750/762																																															300								75						38

FLACHSTAHL-ROHRSCHELLEN DIN 3567 (FORM A) | EINZELTEILE
FLAT STEEL TUBE CLAMPS DIN 3567 (SERIES A) | COMPONENTS

Bestellzeichen:

Stahl
 Stahl feuerverzinkt
 Edelstahl 1.4571

FRD-*A
FRD-*A/FZn
FRD-*A/1.4571

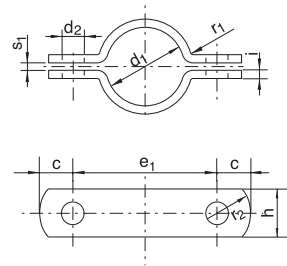
* mit Größe ergänzen

Order codes:

Steel
 Steel hot-dip galvanized
 Stainless steel 1.4571

FRD-*A
FRD-*A/FZn
FRD-*A/1.4571

* complete with size



GRÖSSE SIZE d ₁	FRD Bestellzeichen Order Codes	Für Rohr Nennweite For tube NB	Maße Measurements								erforderl. Schrauben mit Mutter Matching screws with nut								
			e ₁	c	d ₂	s ₁	r ₁	r ₂	h	i									
20	FRD-20 A	15	57	15	11,5	7	4	18	30	5	M 10 x 30								
22	FRD-22 A		59																
25	FRD-25 A	20	62																
27	FRD-27 A		66																
30	FRD-30 A	25	68																
34	FRD-34 A		72																
38	FRD-38 A	32	76																
43	FRD-43 A		82																
45	FRD-45 A	40	84																
49	FRD-49 A		88																
57	FRD-57 A	50	104									18	14	9	6	24	40	6	M 12 x 35
61	FRD-61 A		108																
77	FRD-77 A	122																	
89	FRD-89 A	80	136									24	18	11	6	30	50	8	M 16 x 45
108	FRD-108 A	100	172																
115	FRD-115 A		178																
133	FRD-133 A	125	196																
140	FRD-140 A		204																
159	FRD-159 A	150	222																
169	FRD-169 A		232																
191	FRD-191 A	175	254																
194	FRD-194 A		258																
216	FRD-216 A	200	280																
220	FRD-220 A		284																
267	FRD-267 A	250	342	30	23	14	8	36	60	8	M 20 x 50								
273	FRD-273 A		348																
318	FRD-318 A	300	392																
324	FRD-324 A		398																
356	FRD-356 A	350	432																
368	FRD-368 A		444																
407	FRD-407 A	400	498	36	27	18	8	42	70	10	M 24 x 60								
419	FRD-419 A		510																
508	FRD-508 A	500	600																
521	FRD-521 A		614																

Lieferbar: ohne Oberflächenbehandlung, verzinkt und Edelstahl.
 Available: without surface treatment, galvanized and stainless steel.



// 08

BEZEICHNUNGSSYSTEM

Flexible Montage, informative Kennzeichnung, variabler Anwendungsbereich

LABELING SYSTEM

Flexible assembly, informative symbols, variable areas of application



DAS SYSTEM

Das RSB-Bezeichnungssystem besteht aus Schilderhalterungen, an welchen die Bezeichnungsschilder durch Aufklipsen der Schutzabdeckung befestigt werden.

EINSATZBEREICH

Die Vielfalt der Befestigungsmöglichkeiten, von der einfachen Schraubmontage über Spannbänder, bis zur speziellen Halterung für isolierte Rohre, ermöglicht alle in der Praxis vorkommenden Bezeichnungsarten:

- Gebäudeinstallation mit Gas-, Wasser-, Elektro- und Heizungsanlagen
- industrielle Installation in der Schiffs-, Flug- und Bergwerktechnik, sowie im Hydraulik- und Schaltanlagenbereich

HALTBARKEIT

Durch die Schutzwirkung der Abdeckkappe sind die Informationen auch noch nach Jahren lesbar. Sie sind leicht zu reinigen oder auszuwechseln und bieten einen optimalen Schutz vor Umwelteinflüssen.

THE SYSTEM

The RSB-Labeling system consists of plates support and cover, into which the engraved plate of solid or double layer material is inserted.

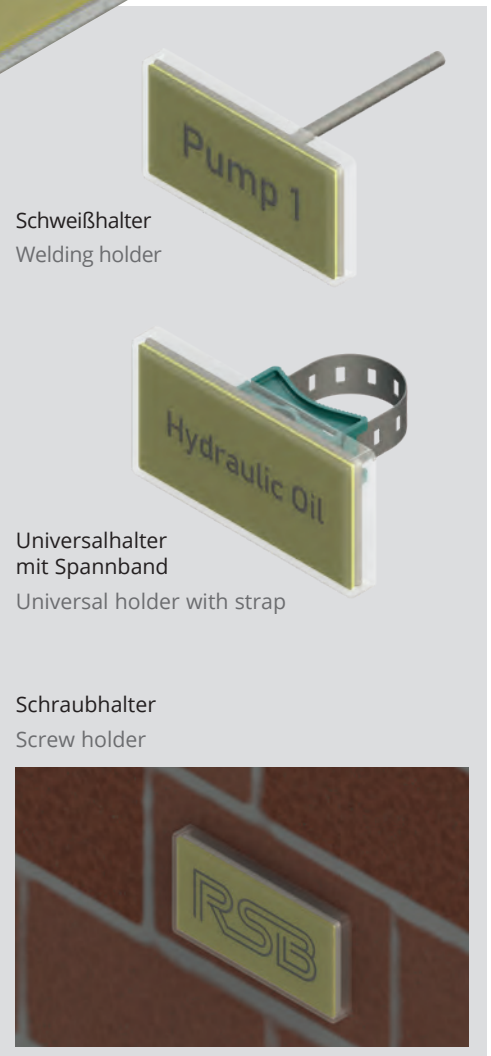
AREAS OF APPLICATION

The versatility of fixing possibilities, from the simplest screw assembly via straps to special supports for insulated tubes, enables every in practice occurring type of labelling:

- Building systems with gas, water, electro and heating installations
- industrial installations in the naval, aero and mining technology, as well as in the hydraulic and switchgear field

STABILITY

The protective effect of the cover ensures that the data is still legible, even after years. It can easily be cleaned or changed and offers optimal protection against environmental influences.



Schweißhalter
Welding holder

Universalhalter
mit Spannbänder
Universal holder with strap

Schraubhalter
Screw holder



UNIVERSALHALTER / UNIVERSAL HOLDER

Komplett mit Kunststoffabdeckung und verzinktem Spannband.
Passend für Rohre bis 2 1/2".
Complete with plastic cover and galvanized steel strap.
For tubes up to 2 1/2".

Bestellzeichen / Order code: UNH

Verpackung 25 Stück / Packs of 25



SCHWEISSHALTER / WELDING HOLDER

Komplett mit Kunststoffabdeckung und Anschweißstift 100 mm lang.
Complete with plastic cover and 100 mm welding pin.

Bestellzeichen / Order code: SWH

Verpackung 25 Stück / Packs of 25



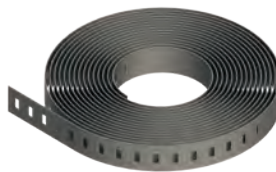
SCHRAUBHALTER / SCREW HOLDER

Komplett mit Kunststoffabdeckung, ange-
nieteter Mutter M 8 und zwei zusätzlichen
Schraublöchern Ø 4 mm.

Complete with plastic cover, M 8 nut and
two additional screw holes Ø 4 mm.

Bestellzeichen / Order code: SRH

Verpackung 25 Stück / Packs of 25



SPANNBAND / STRAP

Passend für Universalhalter.
Einsatz für Rohre > 2 1/2".

Suitable for the universal holder.
Use with tubes > 2 1/2".

Bestellzeichen / Order codes:
Stahl verzinkt / Galvanized steel: **SPR/Zn**
Edelstahl / Stainless steel 1.4571: **SPR/1.4571**

Verpackung 1 Rolle á 5 m / Packed in 5 m rolls



**KUNSTSTOFFABDECKUNG /
PLASTIC COVER**

Glasklar, passend zu allen Haltertypen.
Transparent, suitable for all holder types.

Bestellzeichen / Order code: KAD

Abmessung 105 x 55 mm /
Measurement 105 x 55 mm

Verpackung 50 Stück / Packs of 50



**SCHILD GRAVIERT /
ENGRAVED PLATE**

Zweischicht-Kunststoff, Schrift weiß,
graviert nach Kundenwunsch.

Double-layer plastic, white lettering,
engraved to order.

**Bestellzeichen- Order codes-
Farben colours:**
SGR-rot SGR-red
SGR-blau SGR-blue
SGR-grün SGR-green
SGR-gelb SGR-yellow

Abmessung 100 x 50 mm /
Measurement 100 x 50 mm

Verpackung 25 Stück /
Packs of 25



**SCHILD GLATT /
SMOOTH PLATE**

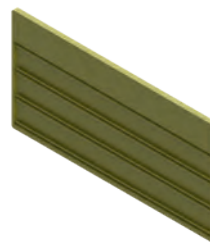
Glatte Oberfläche zum Aufkleben
von Prägebändern.

Smooth surface for the adhesion
of stamped strips.

**Bestellzeichen- Order codes-
Farben colours:**
SGL-rot SGL-red
SGL-blau SGL-blue
SGL-grün SGL-green
SGL-gelb SGL-yellow

Abmessung 100 x 50 mm /
Measurement 100 x 50 mm

Verpackung 25 Stück /
Packs of 25



**LEERSCHILD MIT NUTEN/
EMPTY GROOVED PLATE**

Mit Nuten zum Einschieben
von Prägebändern 9,5 mm.

With grooves for inserting
stamped strips 9,5 mm.

**Bestellzeichen- Order codes-
Farben colours:**
SNU-rot SNU-red
SNU-blau SNU-blue
SNU-grün SNU-green
SNU-gelb SNU-yellow

Abmessung 100 x 50 mm /
Measurement 100 x 50 mm

Verpackung 25 Stück /
Packs of 25

Metallteile auch in Edelstahl lieferbar.
All metal parts available in stainless steel.





***// WIR SIND EIN MITTELSTÄNDISCHES
UNTERNEHMEN DER FEINWERK-
TECHNIK, KUNSTSTOFFVERARBEITUNG
UND BELEUCHTUNGSTECHNIK.***

***// WE OPERATE A MEDIUM-SIZED BUSINESS IN THE FIELD
OF PRECISION ENGINEERING, PLASTICS PROCESSING AND
LIGHTING ENGINEERING.***

// WIR ÜBER UNS

Wir sind ein mittelständisches Unternehmen der Feinwerktechnik, Kunststoffverarbeitung und Beleuchtungstechnik.

Wir stanzen, biegen, schweißen auf modernsten Maschinen. Unser Know-how in der spanlosen Fertigung macht uns zu einem leistungsfähigen Hersteller in der Blechverarbeitung. Die spanabhebende Fertigung gibt uns die Möglichkeit, spezielle Kundenwünsche schnell zu realisieren. Flexibilität ist die Stärke unserer Kunststoffverarbeitung.

Wir vereinen zwei Produktbereiche in unserem Haus:

- **RSB** – Rohrschellen
- **TECHMALUX®** – Lichttechnik

// SO ERREICHEN SIE UNS

Oberndorf liegt im Neckartal, zwischen Schwarzwald und Schwäbischer Alb, verkehrsgünstig an der BAB Stuttgart – Westlicher Bodensee (A 81) mit eigener Anschlussstelle und an der B 14 zwischen Rottweil und Horb.

Es bestehen Bahnverbindungen zu allen größeren Städten der Umgebung, sowie in die Schweiz und Italien.

// WE ABOUT US

We operate a medium-sized business in the field of precision engineering, plastics processing and lighting engineering.

We stamp, bend, weld on state-of-the-art-machines. Our know-how in the field of chipless production makes us an efficient manufacturer in sheet metal processing. Our cutting shaping equipment allows us to realise our customers' wishes without delay. Our plastics processing's strenght lies in its flexibility.

We combine two product ranges under one roof:

- **RSB** – Tube Clamps
- **TECHMALUX®** – Lighting Technology

// THAT'S HOW TO GET TO US

Oberndorf is situated in the Neckartal, a valley conveniently situated between the Black Forest and the Swabian mountains and has an own junction to the A 81, the federal motorway between Stuttgart and the Western part of the Lake Constance region. Oberndorf is situated between cities of Rottweil and Horb.

The railway system is connected to all major cities in the surrounding region well as to Switzerland and Italy.





**FEINWERKTECHNIK
KUNSTSTOFFVERARBEITUNG
BELEUCHTUNGSTECHNIK**

Wehrstrasse 15/27
D-78727 Oberndorf

Tel.: +49 (0) 7423/9298-0
Fax: +49 (0) 7423/9298-55


**FKB@FKB-GMBH.COM
WWW.FKB-GMBH.COM**

Voorraadlijst leidingklemmen


De leidingklemmen van Nagel Hydraulics zorgen voor een sterke bevestiging van uw leidingwerk. Hiervoor hebben we over de jaren heen onze eigen beugels ontworpen, om zo verzekerd te zijn van de juiste kwaliteit en voorraad. Maatwerk is uiteraard ook mogelijk, informeer hiervoor naar de mogelijkheden.

Tevens hebben wij ook klauwbeugels van onze leveranciers op voorraad, welke onderaan dit overzicht te vinden zijn. Voor deze, en onze eigen modellen, zijn rubber inlages beschikbaar. Voor kunststofleidingbeugels verwijzen wij u graag naar onze standaardartikelen.

ENKELE LEIDINGBEUGELS, STAAL

Artikelnummer	Beschrijving	Gat maat [mm]	Afbeelding
NLB 16	LEIDING BEUGEL Ø16	Ø14	
NLB 20	LEIDING BEUGEL Ø20	Ø14	
NLB 28	LEIDING BEUGEL Ø28	Ø14	
NLB 42	LEIDING BEUGEL Ø42	Ø14	
NLB 50	LEIDING BEUGEL Ø50	Ø18	
NLB 60	LEIDING BEUGEL Ø60	Ø18	


DUBBELE LEIDINGBEUGELS, STAAL

Artikelnummer	Beschrijving	Gat maat [mm]	Afbeelding
NLB16-16	LEIDING BEUGEL DUBBEL Ø16	Ø14	
NLB20-20	LEIDING BEUGEL DUBBEL Ø20	Ø14	
NLB25-22	LEIDING BEUGEL DUBBEL Ø25-22	Ø14	
NLB25-25	LEIDING BEUGEL DUBBEL Ø25	Ø14	
NLB30-30	LEIDING BEUGEL DUBBEL Ø30	Ø14	
NLB38-38	LEIDING BEUGEL DUBBEL Ø38	Ø14	
NLB42-38	LEIDING BEUGEL DUBBEL Ø42-38	Ø14	
NLB42-42	LEIDING BEUGEL DUBBEL Ø42	Ø14	
NLB50-38	LEIDING BEUGEL DUBBEL Ø50-38	Ø18	
NLB50-42	LEIDING BEUGEL DUBBEL Ø50-42	Ø18	
NLB50-50	LEIDING BEUGEL DUBBEL Ø50	Ø18	
NLB60-60	LEIDING BEUGEL DUBBEL Ø60	Ø18	


NAGEL HYDRAULICS IS EEN HANDELSNAAM VAN NAGEL GRONDVERZETMACHINES B.V.

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 IBAN NL66.INGB.0671.9142.43 | BIC INGBNL2A | BTW NL8225.42.250.B.01 | KvK 50.09.88.61


ENKELE LEIDINGBEUGELS, HITACHI, STAAL

Artikelnummer	Beschrijving	Gat maat [mm]	Afbeelding
N30012310	HITACHI LEIDING BEUGEL Ø30	Ø14	
N30012311	HITACHI LEIDING BEUGEL Ø38	Ø14	

ENKELE LEIDINGCLIPS, STAAL

Artikelnummer	Beschrijving	Gat maat [mm]	Afbeelding
NLC 16	LEIDING CLIP Ø16	Ø14	
NLC22	LEIDING CLIP Ø22	Ø14	
NLC28	LEIDING CLIP Ø28	Ø14	
NLC34	LEIDING CLIP Ø34	Ø14	

DUBBELE LEIDINGBEUGELS, STAAL

Artikelnummer	Beschrijving	Gat maat [mm]	Afbeelding
NLC12-12	LEIDING CLIP DUBBEL Ø12	Ø14	
NLC16-16	LEIDING CLIP DUBBEL Ø16	Ø14	
NLC22-22	LEIDING CLIP DUBBEL Ø22	Ø14	
NLC28-28	LEIDING CLIP DUBBEL Ø28	Ø14	
NLC30-30	LEIDING CLIP DUBBEL Ø30	Ø14	


ENKELE KLAUWBEUGELS, STAAL

Artikelnummer	Beschrijving	Gat maat [mm]	Afbeelding
331990	KLAUWBEUGEL STAAL 20 MM	Ø14	
331992	KLAUWBEUGEL STAAL 25 MM	Ø14	
331994	KLAUWBEUGEL STAAL 30 MM	Ø14	
331995	KLAUWBEUGEL STAAL 35 MM	Ø14	
331996	KLAUWBEUGEL STAAL 60 MM	Ø14	
331997	KLAUWBEUGEL STAAL 38 MM	Ø14	
331998	KLAUWBEUGEL STAAL 42 MM	Ø14	
331999	KLAUWBEUGEL STAAL 50 MM	Ø14	

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ELASTOMEER INLAGE, RUBBER

Artikelnummer	Beschrijving	Afbeelding
331992-12	ELASTOMEER INLAGE Ø25-Ø12	
331992-15	ELASTOMEER INLAGE Ø25-Ø15	
331994-20	ELASTOMEER INLAGE Ø30-Ø20	
331995-25	ELASTOMEER INLAGE Ø35-Ø25	
331998-30	ELASTOMEER INLAGE Ø42-Ø30	
331999-35	ELASTOMEER INLAGE Ø50-Ø35	
331999-38	ELASTOMEER INLAGE Ø50-Ø38	
331999-42	ELASTOMEER INLAGE Ø50-Ø42	

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