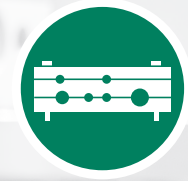


Block Clamps



Special Clamps



Light Series



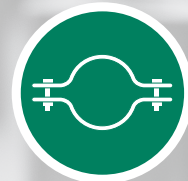
Saddle Clamps



U-Bolt Clamps



Metal Clamps



Construction Series



Germany

Walter Stauffenberg GmbH & Co. KG

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E-Mail: sales@stauff.com
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.

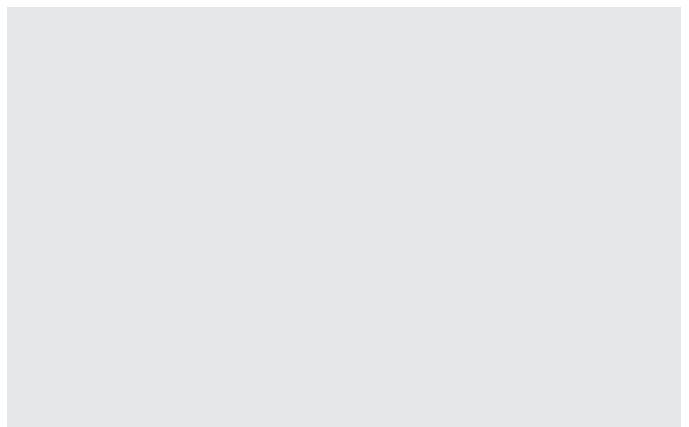
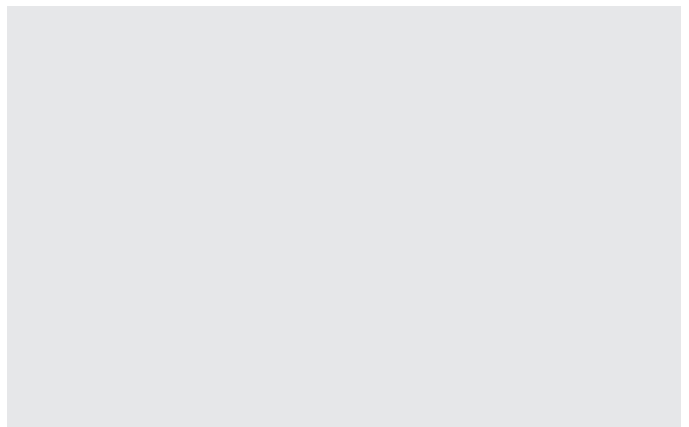
Please note: Unless otherwise stated, all data and figures in this product catalogue are approximate values and are only valid as references, which are not binding (also in respect to any third parties' rights of protection) and thus do not release the customer / user from checking and testing the suitability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



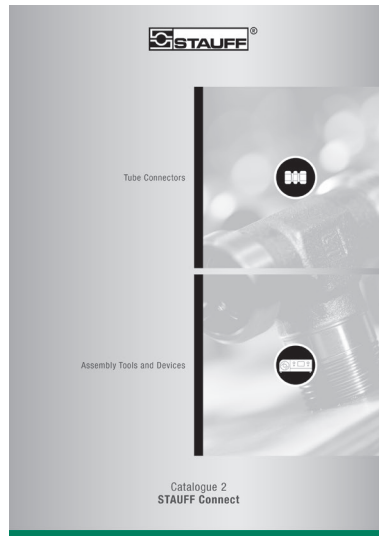
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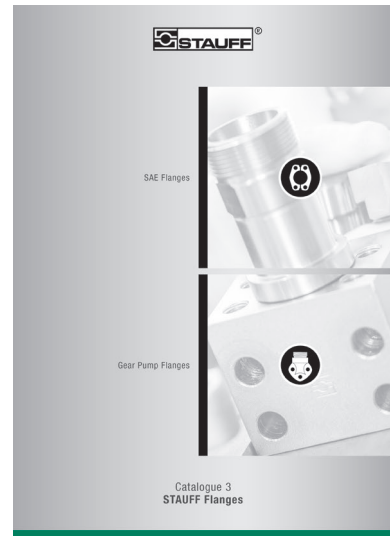
**Catalogue 1
STAUFF Clamps**

- 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



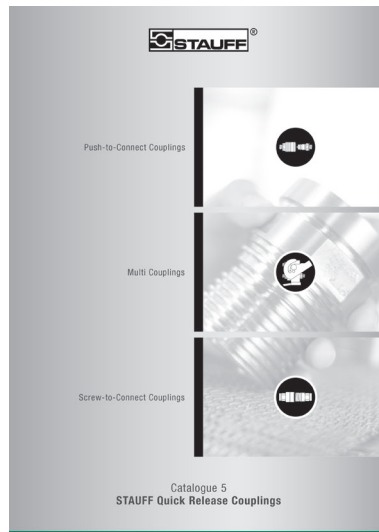
**Catalogue 3
STAUFF Flanges**

- 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



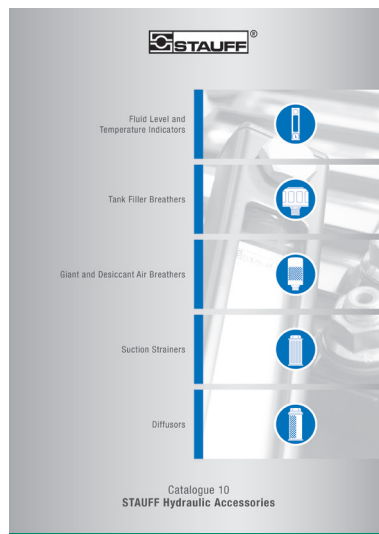
**Catalogue 8
STAUFF Diagtronics**

- 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
- Giant 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 40000 standard products as well as numerous special and system solutions according to customer's specifications or based on our in-house development.

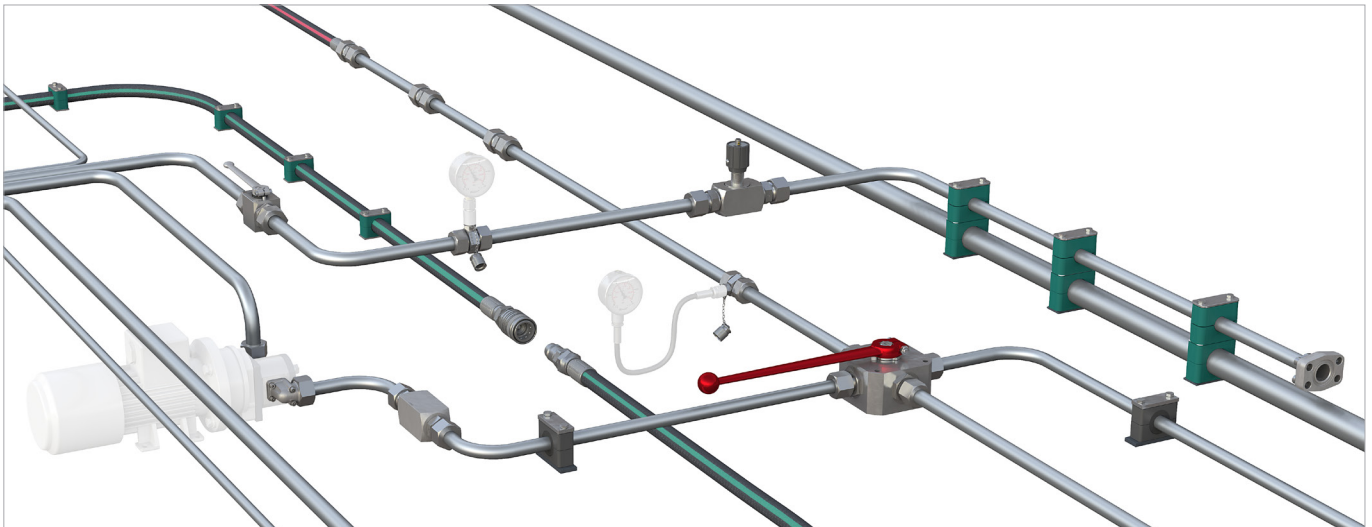
All STAUFF products undergo relevant testing in accordance with international regulations and are governed by the high standards of the in-house quality management system. Furthermore, many items have received certifications and approvals from various international institutes, organisations and authorities 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 OHSAS – 18001:2007

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.

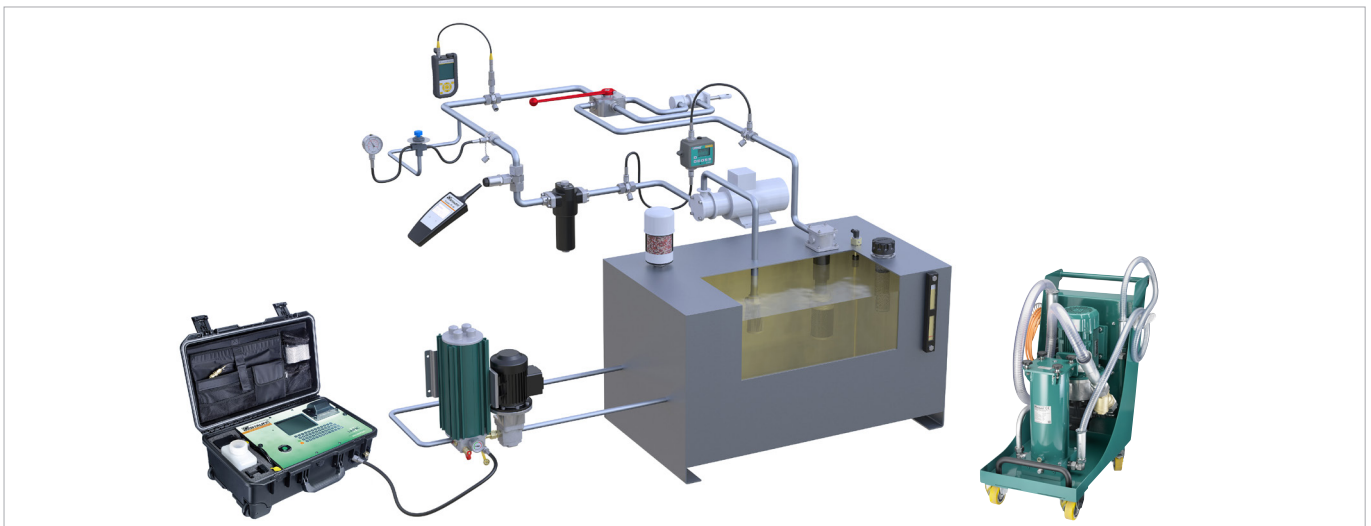
In order to perfectly match each other, STAUFF Line products are designed and offered on a high, uniform level of quality. A large proportion of the range made from steel comes as standard with the premium STAUFF Zinc/Nickel surface coating, which is also optionally available for many of the other components.

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

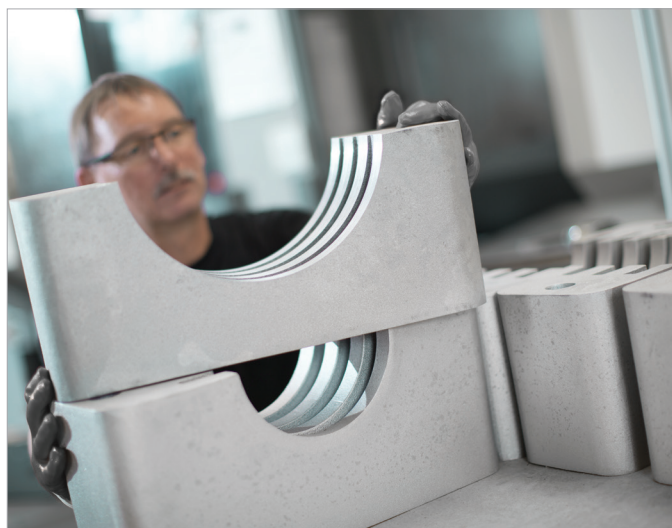
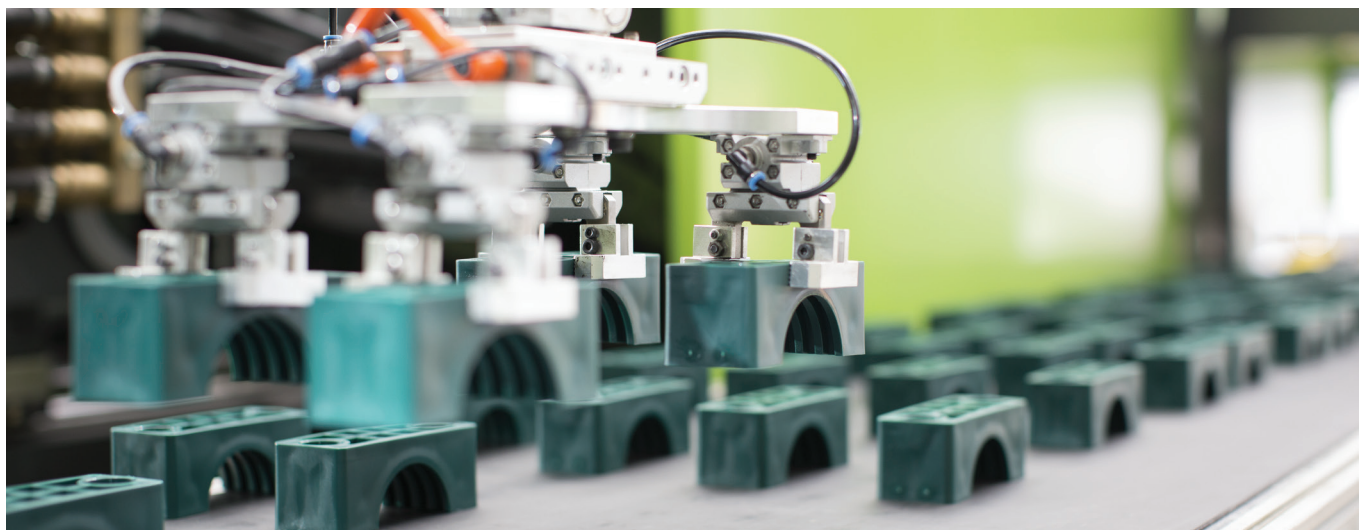
- **STAUFF Test**
- **STAUFF Diagtronics**
- **STAUFF Filtration Technology**
- **STAUFF Hydraulic Accessories**

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

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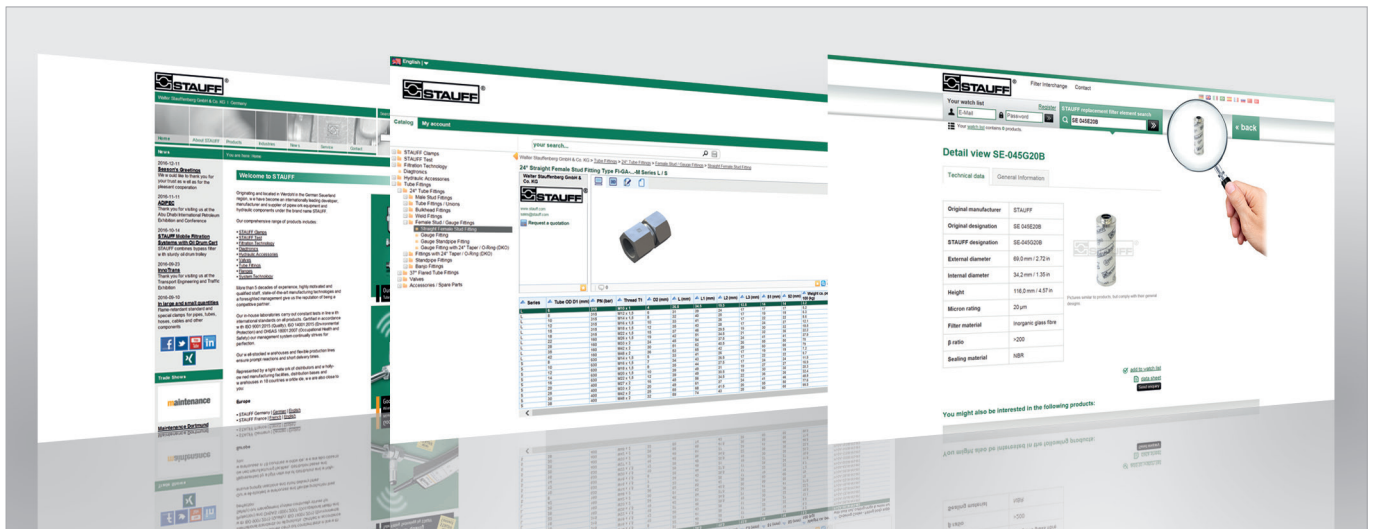
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* may require a suitable app





www.stauff.com

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

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

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Clamp Body
Profiled Inside Surface with Tension Clearance

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Clamp Body
Smooth Inside Surface without Tension Clearance

15



Clamp Body with Elastomer Insert

16



Noise Reduction Clamp

17



Clamp Body for Conduit Hoses and Cable Inserts

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Clamp Body
Compact Design for both Compact / Regular Hydraulic Hoses

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Clamp Body
Rectangular Design for Proximity Switches

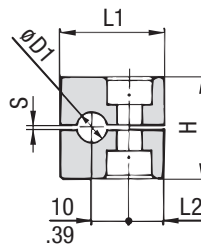
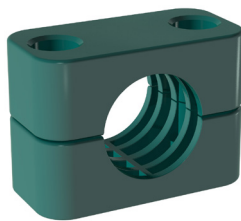
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	Weld Plate SP	20		Cover Plate DP	26
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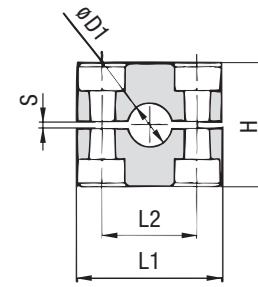


Clamp Body - Profiled Design

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: **SA**



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

See pages 154 / 155 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 156 / 157 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 Pipe (in)	Copper Tube ASTM B88 (in)	Ordering Codes (2 Clamp Halves) (** = Material)	Dimensions (mm/in)						
			Ø D1 (mm)	(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	12					112-**							
		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		
2	2	10		1/8			110A-**							
		12					112A-**							
		12,7	1/2		3/8		212.7-**							
		13,5		1/4			213.5-**							
		14					214-**							
		15					215-**	42	26	33	0,6	30		
		16	5/8		1/2		216-**	1.65	1.02	1.30	.02	1.18		
3	3	17,2		3/8			217.2-**							
		18					218-**							
		19	3/4				319-**							
		20					320-**							
		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-**							
4	4	25,4	1				325.4-**							
		26,9		3/4			426.9-**							
		28					428-**							
		28,6			1		428.6-**	59	40	42	0,6	30		
		30					430-**	2.32	1.57	1.65	.02	1.18		
5	5	32					432-**							
		32	1-1/4				532-**							
		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-**							
6	6	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-**							
7	7	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-**							
		76,1	3	2-1/2 (DIN EN 10220)			776.1-**							
8	8	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		

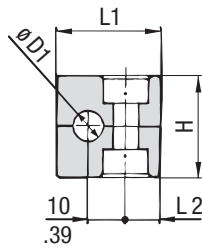
Additional outside diameters are available upon request. Please contact STAUFF for further information.

Dimensional drawings: All dimensions in mm (in).

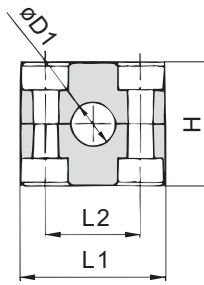


Clamp Body - Type H

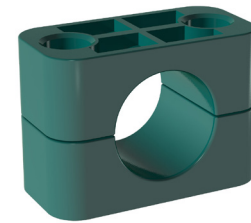
Smooth Inside Surface without Tension Clearance



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	28	9,5	26	30
		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	37	20	26	30
		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	42	26	32	30
		13,5		213.5-**-H					
		14		214-**-H					
		15		215-**-H					
		16	5/8	216-**-H					
		17,2		217.2-**-H					
		18		218-**-H					
3	3	19	3/4		319-**-H	50	33	35,5	30
		20		320-**-H					
		21,3		321.3-**-H					
		22	7/8	322-**-H					
		25		325-**-H					
		25,4	1	325.4-**-H					
4	4	26,9			426.9-**-H	59	40	41,5	30
		28		428-**-H					
		30		430-**-H					
		32		432-**-H					
		32	1-1/4	532-**-H					
5	5	33,7			533.7-**-H	71	52	56,5	30
		35		535-**-H					
		38	1-1/2	538-**-H					
		40		540-**-H					
		42		542-**-H					
		44,5	1-3/4	644.5-**-H					
6	6	48,3			648.3-**-H	86	66	64,5	30
		50,8	2	650.8-**-H					
		54		654-**-H					
		57,2	2-1/4	757.2-**-H					
		60,3		760.3-**-H					
7	7	63,5	2-1/2		763.5-**-H	121	94	92	30
		70	2-3/4	770-**-H					
		73		773-**-H					
		76,1	3	776.1-**-H					
		88,9		888.9-**-H					
		102	4	8102L-**-H					

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: **SA-H**

See pages 154 / 155 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 156 / 157 for material properties and technical information.

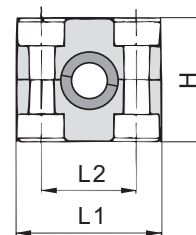
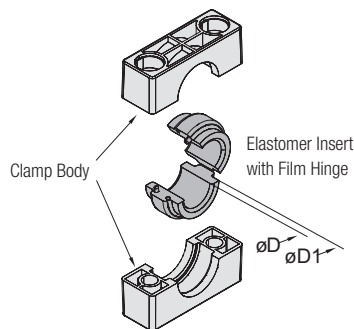
Product Features

- 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

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



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-R**

Clamp Body ***4-*PP-R**

One clamp body is consisting of two clamp halves.

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

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

- * Elastomer Insert **RI**
- * Exact outside diameter Ø D (mm) **06**
- * STAUFF Group 4 (Standard) and 4S (Heavy) **4/4S**
- 6 (Standard) and 5S (Heavy) **6/5S**

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

See pages 154 / 155 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 156 / 157 for material properties and technical 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

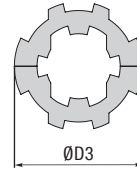
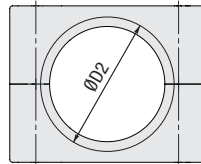
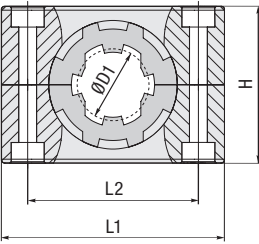
Group	STAUFF	DIN	Outside Diameter Pipe / Tube / Hose		Ordering Codes Clamp Assembly (Clamp Body + Insert)	Ordering Codes (**R = Clamp Body Material)			Dimensions (mm/in)				
			Ø D (mm)	(in)		Clamp Body (2 Clamp Halves)	Clamp Body	Insert *	Ø D1	L1	L2	H	Width
4	4	4	6		406-**-R	4-**-R		RI-06-4/4S	25 .98	59 2.32	40 1.57	41,2 1.62	30 1.18
			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						
			19	3/4	419-**-R		RI-19-4/4S						
			6	6	6		20						
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							

* 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.



Noise Reduction Clamp
Type NRC



A

Group	STAUFF	DIN	Outside Diameter		Ordering Codes Clamp Assembly (Clamp Body + NRC Insert)	Clamp Body (2 Clamp Halves)	NRC Insert (2 Insert Halves)	Dimensions (mm/in)						
			Ø D1 (mm)	(in)				ØD2	ØD3	L1	L2	H	Width	
2	2	2	6		206-PP-NRC	2-PP-NRC	RI-NRC-6-2							
			8	5/16	208-PP-NRC		RI-NRC-8-2							
			10		210-PP-NRC		RI-NRC-10-2	25	26	42	26	32	30	
			12		212-PP-NRC		RI-NRC-12-2	.98	1.02	1.65	1.02	1.26	1.18	
			12,7	1/2	212.7-PP-NRC		RI-NRC-12.7-2							
3	3	3	14		314-PP-NRC	3-PP-NRC	RI-NRC-14-3							
			15		315-PP-NRC		RI-NRC-15-3	28	29	50	33	35,5	30	
			16	5/8	316-PP-NRC		RI-NRC-16-3	1.10	1.14	1.97	1.30	1.40	1.18	
4	4	4	18		418-PP-NRC	4-PP-NRC	RI-NRC-18-4	34	35	59	40	41,5	30	
			20		420-PP-NRC		RI-NRC-20-4	1.34	1.38	2.32	1.57	1.63	1.18	
5	5	5	21,3		521.3-PP-NRC	5-PP-NRC	RI-NRC-21.3-5							
			22	7/8	522-PP-NRC		RI-NRC-22-5							
			25		525-PP-NRC		RI-NRC-25-5							
			26,9		526.9-PP-NRC		RI-NRC-26.9-5	49	50	71	52	56,5	30	
			28		528-PP-NRC		RI-NRC-28-5	1.93	1.97	2.80	2.05	2.22	1.18	
			30		530-PP-NRC		RI-NRC-30-5							
6	6	6	32	1-1/4	532-PP-NRC	6-PP-NRC	RI-NRC-32-5							
			33,7		633.7-PP-NRC		RI-NRC-33.7-6							
			35		635-PP-NRC		RI-NRC-35-6							
			38	1-1/2	638-PP-NRC		RI-NRC-38-6	60	61	86	66	64,5	30	
			40		640-PP-NRC		RI-NRC-40-6	2.36	2.40	3.39	2.60	2.54	1.18	
			42		642-PP-NRC	RI-NRC-42-6								

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-NRC**

NRC Clamp Body ***2-*PP-NRC**

One NRC clamp body is consisting of two clamp halves.

- * STAUFF Group **2**
- * Material code (see below) **PP-NRC**

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

One NRC elastomer insert is consisting of two insert halves.

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

Standard Materials

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

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

See pages 154 / 155 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 156 / 157 for material properties and technical information.

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

Product Features

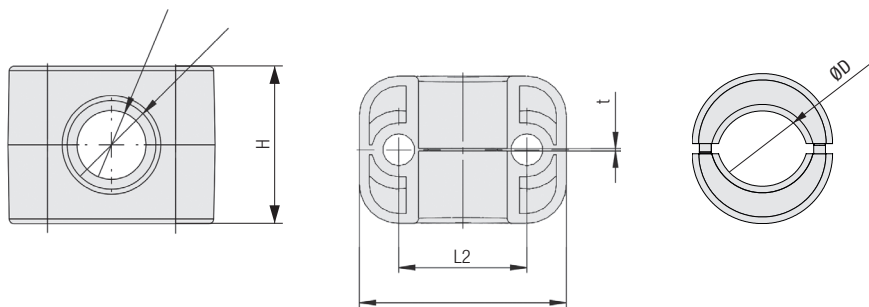
- Designed for the noise and vibration reducing installation of pipes and tubes
- Suitable for the most common outside diameters from 6 to 42 mm and from ¼ to 1 ½ inch respectively
- Working principle based on a specially shaped, two-part elastomer insert, which mechanically absorbs vibration in the 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*SA-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) **SA-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*SA-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) **SA-VO**

Group	Nominal Size	ØD (mm/in)	Ordering Codes (* = Material)			Dimensions (mm/in)						
			Clamp Assembly (Clamp Body + Insert)	Clamp Body (2 Halves)	CHC-Insert (2 Halves)	ØD1	ØD2	t	L1	L2	H	Width
2	2	6 ... 8		210-*		13	11	0,5	42	26	32	30
		.2431				.51	.43	.02	1.65	1.02	1.26	1.18
3	3	7 ... 10	317-7/10-*-*	317-*	RI-CHC-7/10-3-*	21,5	18	0,7	50	33	35,5	30
		.2839				.85	.71	.03	1.97	1.30	1.40	1.18
		10 ... 14				423-14/18-*-*	423-*	RI-CHC-14/18-4-*	29	24,5	0,7	59
.3955	1.14	.96	.03	2.32	1.57				1.63	1.18		
4	4	14 ... 18	423-14/18-*-*	423-*	RI-CHC-14/18-4-*	35	30,5	1,0	71	52	56,5	30
		.5571				1.38	1.20	.04	2.80	2.05	2.22	1.18
5	5	18 ... 20	423-*	423-*	RI-CHC-14/18-4-*	43	38,5	1,0	71	94	92	30
		.7179				1.69	1.52	.04	2.80	2.05	2.22	1.18
		20 ... 26,9				529-*			55	49,5	1,0	86
.79 ... 1.06	2.17	1.95	.51	3.39	2.60				2.54	1.18		
6	6	26,9 ... 33,7	529-*			55	49,5	1,0	86	66	64,5	30
		1.06 ... 1.33				2.17	1.95	.51	3.39	2.60	2.54	1.18
6	6	33,7 ... 42	648-*			55	49,5	1,0	86	66	64,5	30
		1.33 ... 1.65				2.17	1.95	.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: **SA**

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

See pages 154 - 157 for material properties and technical information.

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

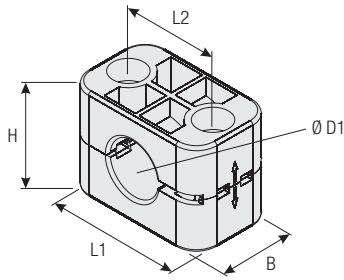
Recommended Bolt Lengths (Socket Cap Screw IS)

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

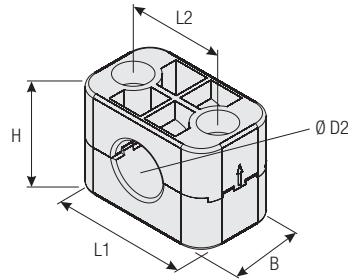
Group	STAUFF	DIN	Metric ISO thread	Unified coarse (UNC) thread
2		2	M6 x 25	1/4-20 UNC x 1
3		3	M6 x 30	1/4-20 UNC x 1-1/8
4		4	M6 x 35	1/4-20 UNC x 1-3/8
5		5	M6 x 50	1/4-20 UNC x 2
6		6	M6 x 60	1/4-20 UNC x 2-1/2

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

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 156 / 157 for material properties and technical information.

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**



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

See pages 154 / 155 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

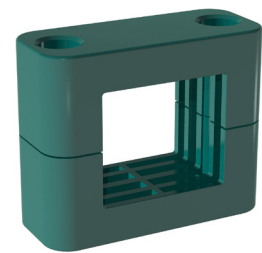
Clamp Body **540-36-PP-VK**
Rectangular design with a square of 40 mm x 36 mm / 1.57 in x 1.42 in

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

Product Features

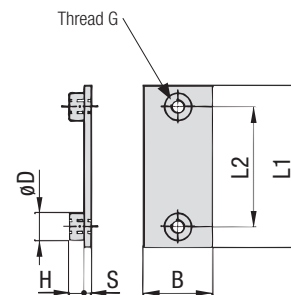
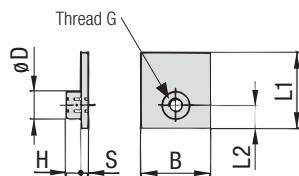
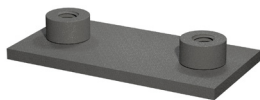
- Outer dimensions of clamp body according to Standard Series, STAUFF Group 5
- For proximity switches according to DIN EN 60947-5-2 or similar, rectangular construction, with a square of 40 mm x 40 mm / 1.57 in x 1.57 in or 40 mm x 36 mm / 1.57 in x 1.42 in
- For proximity switches according to DIN 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

A



STAUFF Group 1

STAUFF Group 1A to 8

Ordering Codes

Weld Plate

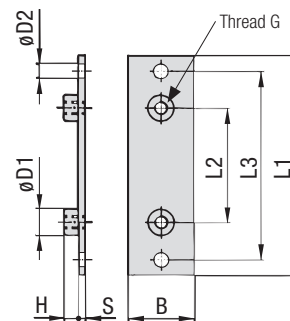
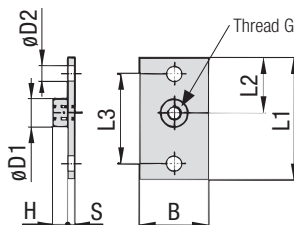
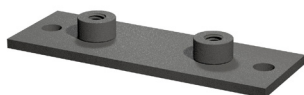
***SP-*1-*M-*W2**

* Single Weld Plate	SP
* 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) Stainless Steel V4A W5 1.4401 / 1.4571 (AISI 316 / 316 Ti) Aluminium EN AW-6060 W85 (Dimension S: 5 mm / .20 in)

Group	DIN	Dimensions (mm/m)	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

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

Ordering Codes

Weld Plate

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

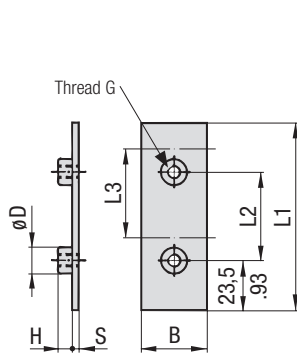
* Elongated Weld Plate	SPV
* STAUFF Group	1
* Thread code	Metric ISO thread M Unified coarse (UNC) thread U
* Material code	Carbon Steel, phosphated W2 Carbon Steel, zinc/nickel-plated W3 Stainless Steel V2A W4 1.4301 / 1.4305 (AISI 304 / 303) Stainless Steel V4A W5 1.4401 / 1.4571 (AISI 316 / 316 Ti)

Group	DIN	Dimensions (mm/m)	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

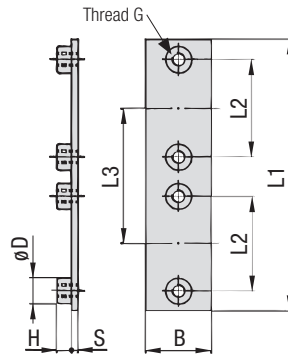
All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



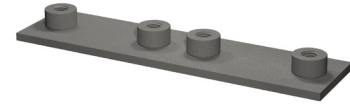
**Twin Weld Plate
for 2 Clamp Bodies
Type DSP**



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

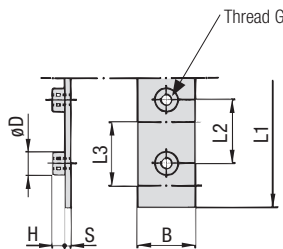
All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Ordering Codes

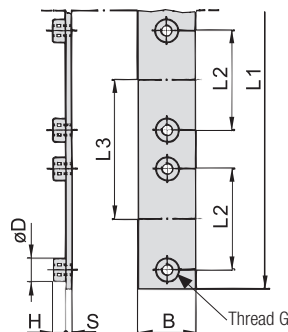
Weld Plate *DSP-*1-*40-*M-*W2

- * 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**

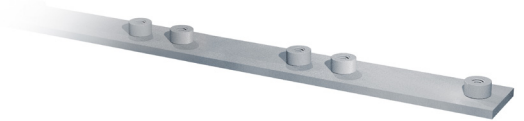
**Group Weld Plate
for 5 or 10 Clamp Bodies
Type RAP**



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

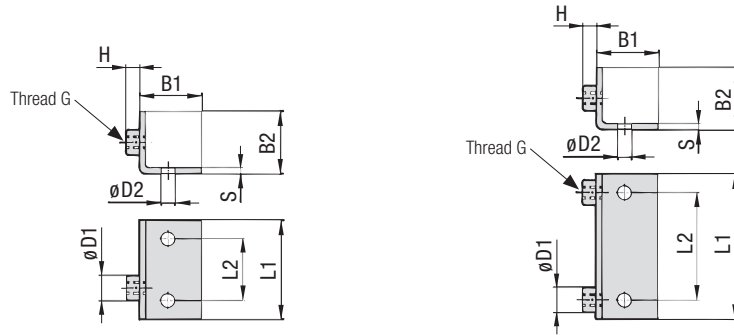
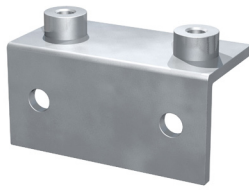
Weld Plate *RAP-*1-*31-*10-*M-*W1

- * 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

Ordering Codes

Weld Plate

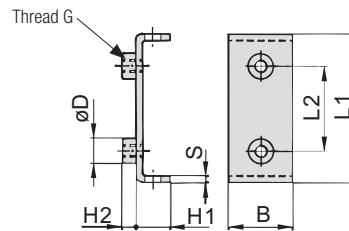
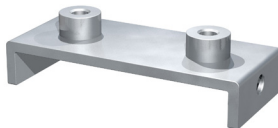
***WSP-*1-*M-*W1**

- * Angled Weld Plate **WSP**
- * 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)

Group STAUFF	DIN	Dimensions (mm/m)								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-W1	WSP-1-U-W1
		1/4-20 UNC	1.18	.55	1.18	1.18	.12	.26	.47	.26		
1A	1	M6	36	20	30	30	3	6,5	12	6,5	WSP-1A-M-W1	WSP-1A-U-W1
		1/4-20 UNC	1.26	.79	1.18	1.18	.12	.26	.47	.26		
2	2	M6	42	26	30	30	3	6,5	12	6,5	WSP-2-M-W1	WSP-2-U-W1
		1/4-20 UNC	1.65	1.02	1.18	1.18	.12	.26	.47	.26		
3	3	M6	50	33	30	30	3	6,5	12	6,5	WSP-3-M-W1	WSP-3-U-W1
		1/4-20 UNC	1.97	1.30	1.18	1.18	.12	.26	.47	.26		
4	4	M6	60	40	30	30	3	6,5	12	6,5	WSP-4-M-W1	WSP-4-U-W1
		1/4-20 UNC	2.36	1.57	1.18	1.18	.12	.26	.47	.26		
5	5	M6	70	52	30	30	3	6,5	12	6,5	WSP-5-M-W1	WSP-5-U-W1
		1/4-20 UNC	2.76	2.05	1.18	1.18	.12	.26	.47	.26		
6	6	M6	88	66	30	30	3	6,5	12	6,5	WSP-6-M-W1	WSP-6-U-W1
		1/4-20 UNC	3.46	2.60	1.18	1.18	.12	.26	.47	.26		

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

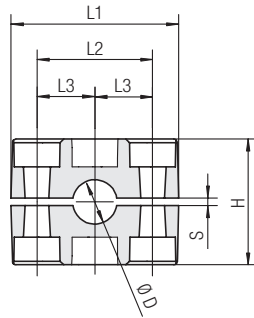
***BSP-*1A-*M-*W1**

- * 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)
Stainless Steel V4A **W5**
1.4401 / 1.4571 (AISI 316 / 316 Ti)

Group STAUFF	DIN	Dimensions (mm/m)								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-W1	BSP-1A-U-W1
		1/4-20 UNC	1.89	.79	1.18	.12	.52	.26	.47	.26		
2	2	M6	54	26	30	3	13	6,5	12	6,5	BSP-2-M-W1	BSP-2-U-W1
		1/4-20 UNC	2.13	1.02	1.18	.12	.52	.26	.47	.26		
3	3	M6	62	33	30	3	13	6,5	12	6,5	BSP-3-M-W1	BSP-3-U-W1
		1/4-20 UNC	2.44	1.30	1.18	.12	.52	.26	.47	.26		
4	4	M6	71	40	30	3	13	6,5	12	6,5	BSP-4-M-W1	BSP-4-U-W1
		1/4-20 UNC	2.80	1.57	1.18	.12	.52	.26	.47	.26		
5	5	M6	85	52	30	3	13	6,5	12	6,5	BSP-5-M-W1	BSP-5-U-W1
		1/4-20 UNC	3.35	2.05	1.18	.12	.52	.26	.47	.26		
6	6	M6	98	66	30	3	13	6,5	12	6,5	BSP-6-M-W1	BSP-6-U-W1
		1/4-20 UNC	3.86	2.60	1.18	.12	.52	.26	.47	.26		

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.



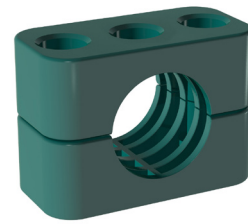


STAUFF Group 5

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	71	52	26	58	0,8	30
	21,3			521.3-**-MGR						
	22			522-**-MGR						
	23			523-**-MGR						
	25	525-**-MGR								
	26,9	526.9-**-MGR								
	28	528-**-MGR								
	30	530-**-MGR								
	32	532-**-MGR								
	33,7	533.7-**-MGR								
	35	535-**-MGR								
	38	538-**-MGR								
	40	540-**-MGR								
	42	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**

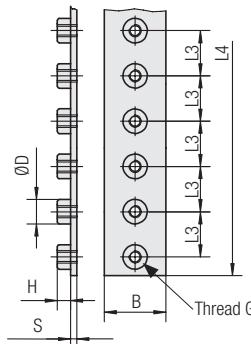
Polyamide
Colour: Black
Material code: **PA-MGR**

See pages 154 / 155 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 42mm (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**

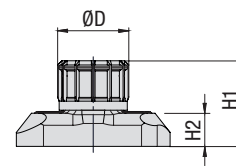
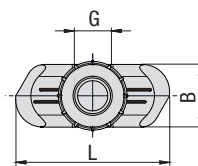
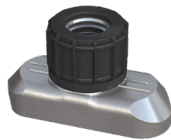


Hexagon Rail Nut

(for Use with Mounting Rail TS)

Type SM / SMG

A



Ordering Codes

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

- * Hexagon Rail Nut
 - Carbon Steel **SM**
 - Stainless Steel **SMG**
- * 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 **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)						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							

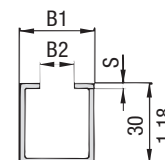
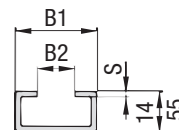
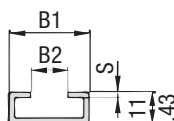
Hexagon Rail Nuts, type SM-1-8/1D are also suitable for Twin Series, STAUFF Group 1D.

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 / SMG)

Type TS



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 **W4**
 - 1.4301 / 1.4305 (AISI 304 / 303)
 - Stainless Steel V4A **W5**
 - 1.4401 / 1.4571 (AISI 316 / 316 Ti)

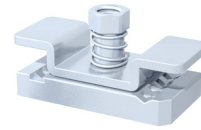
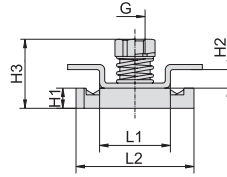
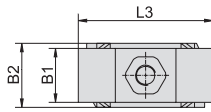
Group STAUFF	DIN	Dimensions (mm/m)			Ordering Codes (Standard Options)	
		B1	B2	S	Length of Rail: 1 m / 3.28ft	Length of Rail: 2 m / 6.56ft
1	0					
1A	1				Height 11 mm / .43 in TS-11-1M-W1	Height 11 mm / .43 in TS-11-2M-W1
2	2					
3	3					
4	4	28	11	2	Height 14 mm / .55 in TS-14-1M-W1	Height 14 mm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



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

A



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	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	
5	5											
6	6											
7	7											
8	8											

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**

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.

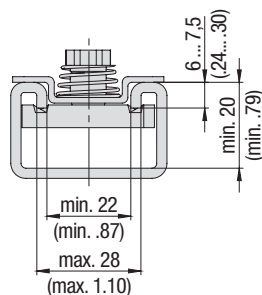


Compatibility with Channel Rails

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.



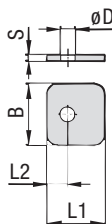
Basic dimensional requirements for channel rails to be used with STAUFF Channel Rail Adaptors, type CRA

Dimensional drawings: All dimensions in mm (in).

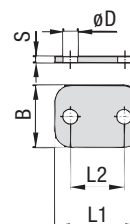


Cover Plate
Type DP

A



STAUFF Group 1



STAUFF Group 1A to 8

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

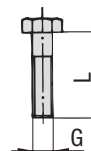
Group STAUFF	DIN	Dimensions (mm/m)					Ordering Codes (Standard Options)
		L1	L2	B	S	ØD	
1	0	28	9,5	30	3	7	DP-1-W3
		1.10	.37	1.18	.12	.28	
1A	1	34	20	30	3	7	DP-1A-W3
		1.34	.79	1.18	.12	.28	
2	2	40,5	26	30	3	7	DP-2-W3
		1.59	1.02	1.18	.12	.28	
3	3	48	33	30	3	7	DP-3-W3
		1.89	1.30	1.18	.12	.28	
4	4	57	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	

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)	

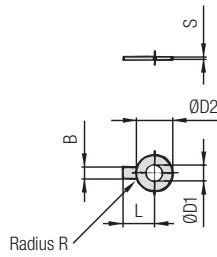
Group STAUFF	DIN	Dimensions (mm/m)		Ordering Codes (Standard Options)
		Thread G x L		
1	0	M6 x 30		AS-M6x30-W3
		1/4-20 UNC x 1-1/4		AS-1/4-20UNCx1-1/4-W3
1A	1	M6 x 30		AS-M6x30-W3
		1/4-20 UNC x 1-1/4		AS-1/4-20UNCx1-1/4-W3
2	2	M6 x 35		AS-M6x35-W3
		1/4-20 UNC x 1-3/8		AS-1/4-20UNCx1-3/8-W3
3	3	M6 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

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/m)						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	

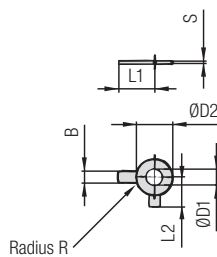
Safety Washers, type SI are used as locking devices to prevent Hexagon Head Bolts, type AS from loosening. Safety Washers, type SI are suitable for all Standard Series group sizes.

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/m)						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

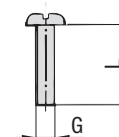
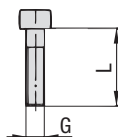
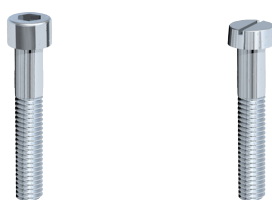
Safety Washer *SI-*6.4-*DIN463-*W3

- * 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**

A



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**

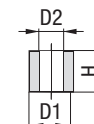
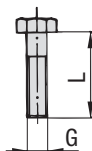
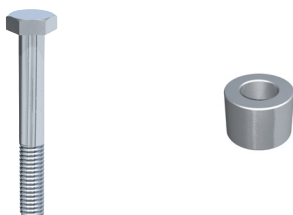
* Material code Carbon Steel, zinc/nickel-plated **W3**
Stainless Steel V2A **W4**
1.4301 / 1.4305 (AISI 304 / 303)
Stainless Steel V4A **W5**
1.4401 / 1.4571 (AISI 316 / 316 Ti)

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
Type AS

Insert
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)	
			AS-M6x27-W3	AS-1/4-20UNCx1-1/8-W3
1	0	M6 x 27	AS-M6x27-W3	AS-1/4-20UNCx1-1/8-W3
		1/4-20 UNC x 1-1/8	AS-1/4-20UNCx1-1/8-W3	AS-1/4-20UNCx1-1/8-W3
1A	1	M6 x 27	AS-M6x27-W3	AS-1/4-20UNCx1-1/8-W3
		1/4-20 UNC x 1-1/8	AS-1/4-20UNCx1-1/8-W3	AS-1/4-20UNCx1-1/8-W3
2	2	M6 x 32	AS-M6x32-W3	AS-1/4-20UNCx1-3/8-W3
		1/4-20 UNC x 1-3/8	AS-1/4-20UNCx1-3/8-W3	AS-1/4-20UNCx1-3/8-W3
3	3	M6 x 35	AS-M6x35-W3	AS-1/4-20UNCx1-3/8-W3
		1/4-20 UNC x 1-3/8	AS-1/4-20UNCx1-3/8-W3	AS-1/4-20UNCx1-3/8-W3
4	4	M6 x 42	AS-M6x42-W3	AS-1/4-20UNCx1-5/8-W3
		1/4-20 UNC x 1-5/8	AS-1/4-20UNCx1-5/8-W3	AS-1/4-20UNCx1-5/8-W3
5	5	M6 x 57	AS-M6x57-W3	AS-1/4-20UNC-2-3/8-W3
		1/4-20 UNC x 2-3/8	AS-1/4-20UNC-2-3/8-W3	AS-1/4-20UNC-2-3/8-W3
6	6	M6 x 65	AS-M6x65-W3	AS-1/4-20UNCx2-3/4-W3
		1/4-20 UNC x 2-3/4	AS-1/4-20UNCx2-3/4-W3	AS-1/4-20UNCx2-3/4-W3
7	7	M6 x 95	AS-M6x95-W3	AS-1/4-20UNCx4-W3
		1/4-20 UNC x 4	AS-1/4-20UNCx4-W3	AS-1/4-20UNCx4-W3
8	8	M6 x 118	AS-M6x118-W3	AS-1/4-20UNCx4-3/4-W3
		1/4-20 UNC x 4-3/4	AS-1/4-20UNCx4-3/4-W3	AS-1/4-20UNCx4-3/4-W3

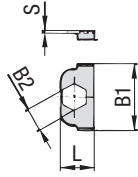
Group STAUFF	DIN	Dimensions (mm/in)				Ordering Codes (Standard Options)	
		D1	D2	H ES	H EP	ES-W3	EP
1 to 8	0 to 8	11,8 .46	6,5 .26	7,8 .31	8,6 .34	ES-W3	EP

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.

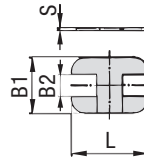


Safety Locking Plate
(for Use with Stacking Bolt AF)
Type SIG

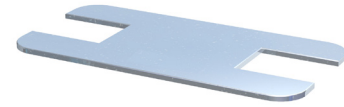
A



STAUFF Group 1



STAUFF Group 1A to 8



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	

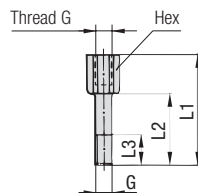
Ordering Codes

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)

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

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

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** (Carbon Steel)
Code: **SMG** (Stainless Steel)

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
3 (3)	17,2	●	●	○	217.2
	18	●	●	○	218
	19	●	●	○	319
	20	●	●	○	320
	21,3	●	●	○	321.3
	22	●	●	○	322
	25	●	●	○	325
4 (4)	25,4	●	●	○	325.4
	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	
	6 (6)	20	○	○	●	620
		21,3	○	○	●	621.3
		22	○	○	●	622
25		○	○	●	625	
26,9		○	○	●	626.9	
28		○	○	●	628	
30		○	○	●	630	
32		○	○	●	632	
44,5		●	●	○	644.5	
48,3		●	●	○	648.3	
7 (7)	50,8	●	●	○	650.8	
	54	●	●	○	654	
	57,2	●	●	○	757.2	
	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 32 and 33 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: **SA**



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: **SA-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 154 / 155 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 26.

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.

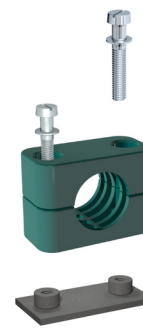


- 2x **Socket Cap Screw**
with Washer
Surface: W3
Thread: Metric
- 1x **Clamp Body** (two halves)
STAUFF Group 2 (DIN 2)
O.D. 12,7 mm / .50 in
Material: Polypropylene
Profiled inside surface
with tension clearance
- 1x **Single Weld Plate**
Surface: W2
Thread: Metric

Order Code

SP-212.7-PP-IS-M-W10

W10 is the standard option for this type of installation.

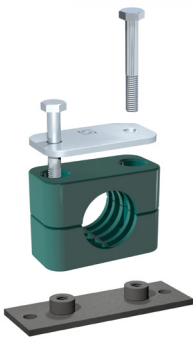


- 2x **Slotted Head Screw**
with Washer
Surface: W3
Thread: Metric
- 1x **Clamp Body** (two halves)
STAUFF Group 2 (DIN 2)
O.D. 12,7 mm / .50 in
Material: Polypropylene
Profiled inside surface
with tension clearance
- 1x **Single Weld Plate**
Surface: W2
Thread: Metric

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.



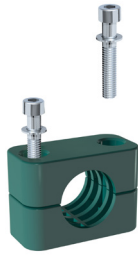


- 2x **Hexagon Head Bolt**
Surface: W3
Thread: Metric
- 1x **Cover Plate**
Surface: W3
- 1x **Clamp Body** (two halves)
STAUFF Group 2 (DIN 2)
O.D. 12,7 mm / .50 in
Material: Polypropylene
Profiled inside surface
with tension clearance

Order Code

212.7-PP-DP-AS-M-W3

W3 is the standard option for this type of installation.

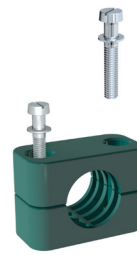


- 2x **Socket Cap Screw**
with Washer
Surface: W3
Thread: Metric
- 1x **Clamp Body** (two halves)
STAUFF Group 2 (DIN 2)
O.D. 12,7 mm / .50 in
Material: Polypropylene
Profiled inside surface
with tension clearance

Order Code

212.7-PP-IS-M-W3

W3 is the standard option for this type of installation.

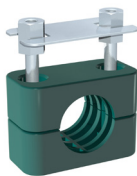


- 2x **Slotted Head Screw**
with Washer
Surface: W3
Thread: Metric
- 1x **Clamp Body** (two halves)
STAUFF Group 2 (DIN 2)
Tube-O.D. 12,7 mm / .50 in
Material: Polypropylene
Profiled inside surface
with tension clearance

Order Code

212.7-PP-LI-M-W3

W3 is the standard option for this type of installation.

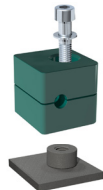


- 2x **Stacking Bolt**
Surface: W3
Thread: Metric
- 1x **Safety Locking Plate**
Surface: W3
- 1x **Clamp Body** (two halves)
STAUFF Group 2 (DIN 2)
O.D. 12,7 mm / .50 in
Material: Polypropylene
Profiled inside surface
with tension clearance

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

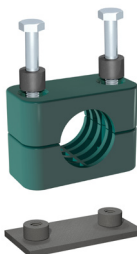
Material codes

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.

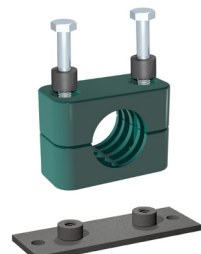


- 2x **Hexagon Head Bolt**
Surface: W3
Thread: Metric
- 2x **Insert**
Material: Plastic
- 1x **Clamp Body** (two halves)
STAUFF Group 2 (DIN 2)
O.D. 12,7 mm / .50 in
Material: Polypropylene
Profiled inside surface
with tension clearance
- 1x **Single Weld Plate**
Surface: W2
Thread: Metric

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

36



Clamp Body
Smooth Inside Surface without Tension Clearance

38



Clamp Body with Elastomer Insert

39



Weld Plate for Single Clamps
SPAL

40



Weld Plate for Double Clamps
SPAS

40



Elongated Weld Plate for Single Clamps
SPAL-DUEB

41



Elongated Weld Plate for Double Clamps
SPAS-DUEB

41



Mounting Rail Nut
GMV

42



Mounting Rail
STSV

42



Channel Rail Adaptor
CRA

43



Cover Plate for Single Clamps
DPAL

44



Cover Plate for Double Clamps
DPAL

44



Hexagon Head Bolt
AS

45



Socket Cap Screw
IS

45



Safety Washer (DIN 93)
SI

46



Safety Washer (DIN 463)
SI

46



Safety Locking Plate
SIP

47



Stacking Bolt
AF

47

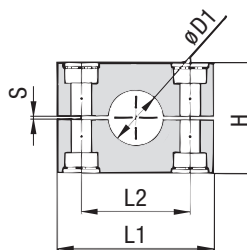
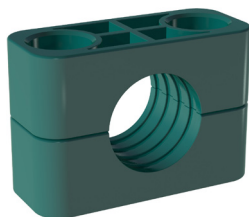
Clamp Assemblies

48



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: **SA**



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

See pages 154 / 155 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 156 / 157 for material properties and technical information.

Product Features

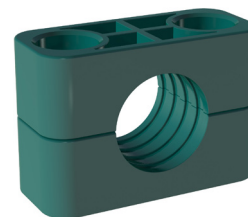
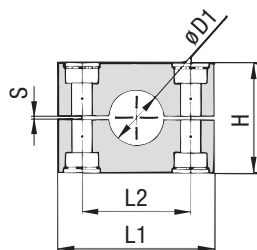
- Proven, tested and trusted product in various markets
- Recommended for the safe installation of rigid pipes and tubes
- Available for all commonly used pipe and tube outside diameters
- Environmental protection due to vibration/noise reducing design
- Excellent weathering resistance, even under extreme 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-**-**								
		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-**-**	55	56	33	32	0,6	30,5		
		13,5		1/4			3013.5-**-**	2.16	2.20	1.30	1.26	.02	1.20		
		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-**-**								
		20					4020-**-**								
		21,3		1/2			4021.3-**-**								
		22	7/8	3/4			4022-**-**	70	70	45	48	0,6	30,5		
		25					4025-**-**	2.76	2.76	1.77	1.89	.02	1.20		
		25,4	1				4025.4-**-**								
		26,9		3/4			4026.9-**-**								
		28					4028-**-**								
		30					4030-**-**								
		30					5030-**-**								
5S	3	32	1-1/4				5032-**-**								
		33,7		1			5033.7-**-**								
		35		1-1/4			5035-**-**	85	85	60	60	0,6	30,5		
		38	1-1/2				5038-**-**	3.35	3.35	2.36	2.36	.02	1.20		
		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-**-**								
		50,8	2				6050.8-**-**								
		54		2			6054-**-**	115	120	90	89	2	45		
		55					6055-**-**	4.53	4.72	3.54	3.50	.08	1.77		
		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 37 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	STAUFF	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
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-***						
		88,9	3-1/2	3	7088.9-***						
8S	6	88,9	3-1/2	3	8088.9-***	206	208	168	168	2	80
		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-***	9.88	10.04	8.07	7.87	.12	3.58
		168		6	10168-***						
		177,8			10177.8-***						
		193,7			10193.7-***						
		203	8		10203-***						
11S	9	216			10216-***	13.22	12.83	10.43	10.63	.12	4.72
		219		8	10219-***						
		219		8	11219-***						
		273		10	11273-***						
12S	10	324		12	11324-***	18.50	18.50	15.55	16.14	.31	6.38
		356		14	12356-***						
		406		16	12406-***						

Ordering Codes
Clamp Body
***7*060.3-*PP**

One clamp body is consisting of two clamp halves.

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

**7
060.3
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 154 / 155 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 156 / 157 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

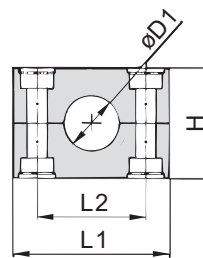
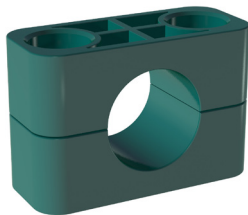
See page 36 for STAUFF Group 3S to 6S (DIN Group 1 to 4).

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



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: **SA-H**

See pages 154 / 155 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 156 / 157 for material properties and technical information.

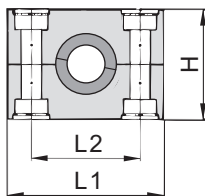
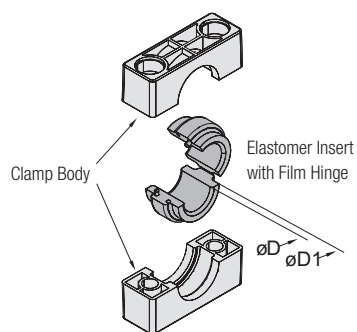
Product Features

- 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					
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					
		41,3		5041.3-**-H					
6S	4	42		5042-**-H	115 4.53	90 3.54	87 3.43	45 1.77	
		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.



**Clamp Body with Elastomer Insert
Type RI**

B

Group	STAUFF	DIN	Outside Diameter		Ordering Codes Clamp Assembly (Clamp Body + Insert)	***R = Clamp Body Material Clamp Body (2 Clamp Halves)	Insert *	Dimensions (mm/in)				
			Ø D (mm)	(in)				Ø D1	L1	L2	H	Width
4S	2	6			4006-***-R	4S-***-R	RI-06-4/4S	25	70	45	46,5	30,5
		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							
19	3/4	4019-***-R	RI-19-4/4S									
5S	3	20			5020-***-R	5S-***-R	RI-20-6/5S	38	85	60	58	30,5
		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							
35		6035-***-R	RI-35-6S									
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			7055-***-R	7S-***-R	RI-55-7S	88	154	122	120	60
		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							
		80		8080-***-R	RI-80-8S							
		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	251	205	200	91
		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	336	265	270	120
		165		10165-***-R	RI-165-10S							
		168		10168-***-R	RI-168-10S							
		172		10172-***-R	RI-172-10S							

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

- * 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**

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)
 7S to 10S: **EPDM** (70 Shore-A)
 Colour: Black

See pages 154 / 155 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 156 / 157 for material properties and technical information.
Product Features

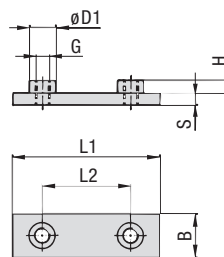
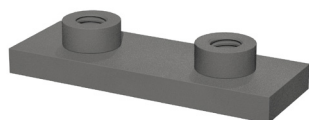
- Proven, tested and trusted product in various markets
- Either for the extra vibration/noise reducing installation of pipes and tubes or the extra gentle installation of hoses and cables
- Available for all commonly used outside diameters
- Excellent weathering resistance, even under extreme conditions

* 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.



Weld Plate for Single Clamps Type SPAL



B

Ordering Codes

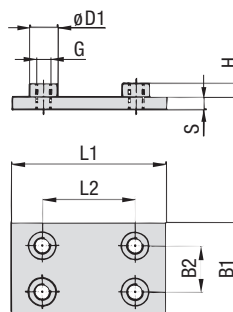
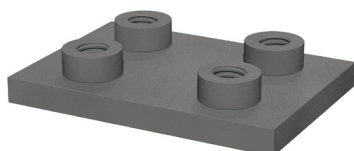
Weld Plate *SPAL-*3S-*M-*W2

* 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

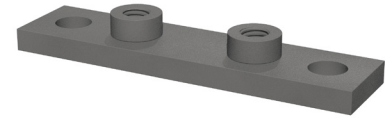
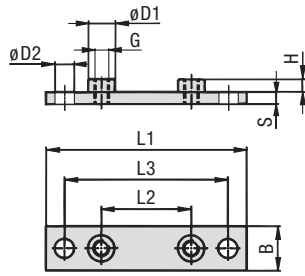
* Weld Plate for Double Clamps		SPAS
* STAUFF Group		3S
* Thread code	Metric ISO thread	M
	Unified coarse (UNC) thread	U
* Material code	Carbon Steel, uncoated	W1
	Carbon Steel, phosphated	W2
	Carbon Steel, zinc/nickel-plated	W3
	Stainless Steel V2A	W4
	1.4301 / 1.4305 (AISI 304 / 303)	
	Stainless Steel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

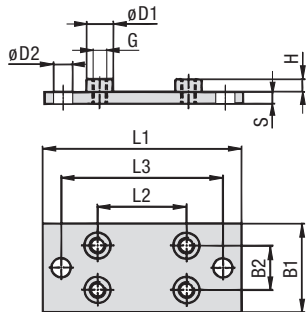
Group STAUFF	DIN	Dimensions (mm/m)							Ordering Codes (Standard Options)		
		L1	L2	L3	B	S	H	Thread G	ØD1	ØD2	
3S	1	113	33	85	30	8	8	M10	18	13	SPAL-DUEB-3S-M-W2
		4.45	1.30	3.35	1.18	.31	.31	3/8-16 UNC	.71	.51	SPAL-DUEB-3S-U-W2
4S	2	125	45	97	30	8	8	M10	18	13	SPAL-DUEB-4S-M-W2
		4.92	1.77	3.82	1.18	.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	.12	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

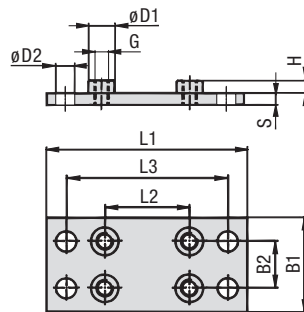
Weld Plate *SPAL-DUEB-*3S-*M-*W2

- * 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) **W4**
Stainless Steel V4A **W5**
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.

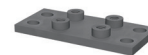
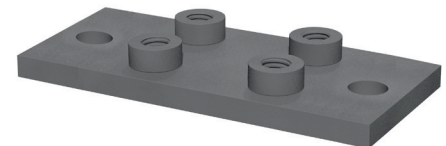


STAUFF Group 3S to 9S



STAUFF Group 10S to 12S

Elongated Weld Plate for Double Clamps
Type SPAS-DUEB



Design for 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

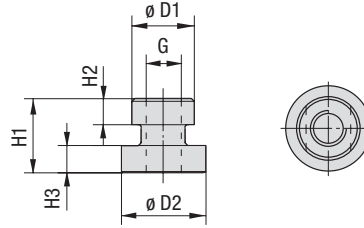
Weld Plate *SPAS-DUEB-*3S-*M-*W2

- * 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) **W4**
Stainless Steel V4A **W5**
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.



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



B

Ordering Codes

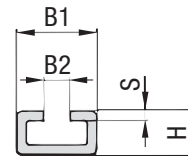
Mounting Rail Nut *GMV-*3-5S*M-*W3

- * 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/m)					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 / 3.28ft **1M**
2 m / 6.56ft **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)

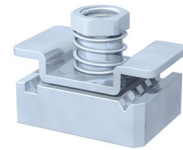
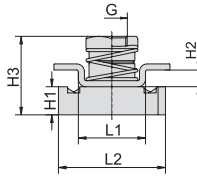
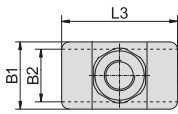
Group STAUFF	DIN	Dimensions (mm/m)				Ordering Codes (Standard Options)	
		B1	B2	H	S	Length of Rail: 1 m / 3.28ft	Length of Rail: 2 m / 6.56ft
3S	1						
4S	2	40	13	22	5	STSV -1M-W1	STSV -2M-W1
5S	3	1.57	.51	.86	.19		
6S	4						

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/in)									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	27,5	CRA-6S-M-W3		
		7/16-14 UNC	.85	1.38	1.77	.98	.75	.36	.20	1.08	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 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.

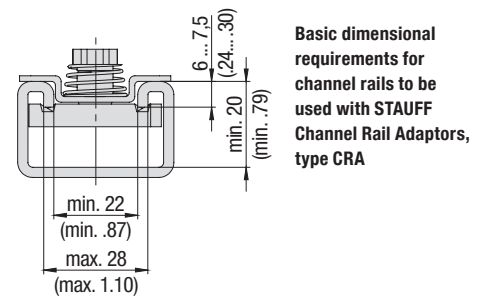
Compatibility with Channel Rails

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

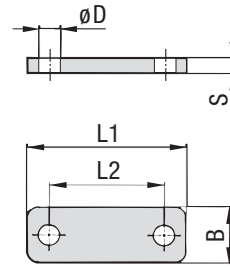
Group STAUFF	DIN	Hexagon Head Bolts AS (used with Cover Plates DPAL or DPAS)		Socket Cap Screws IS (used without Cover Plates DPAL or DPAS)	
		Metric ISO thread	Unified coarse (UNC) thread	Metric ISO thread	Unified coarse (UNC) thread
3S	1	M10 x 40	3/8-16 UNC x 1-1/2	M10 x 25	3/8-16 UNC x 1
4S	2	M10 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.



**Cover Plate for Single Clamps
Type DPAL**

B



Ordering Codes

Cover Plate

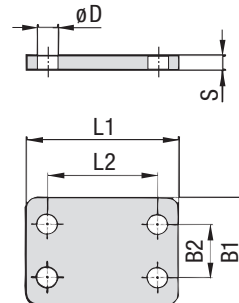
***DPAL-*3S-*W2**

- * 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) **W4**
 - Stainless Steel V4A **W5**
 - 1.4401 / 1.4571 (AISI 316 / 316 Ti) **W5**
 - Aluminium EN AW-6060 **W85**
 - (for group sizes 3S to 5S only)

Group STAUFF	DIN	Dimensions (mm/m)					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

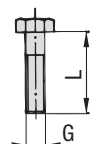
***DPAS-*3S-*W2**

- * 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) **W4**
 - Stainless Steel V4A **W5**
 - 1.4401 / 1.4571 (AISI 316 / 316 Ti) **W5**

Group STAUFF	DIN	Dimensions (mm/m)					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**

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

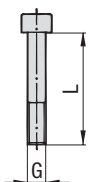
Group STAUFF	DIN	Dimensions (mm/in) Thread G x L	Ordering Codes (Standard Options)
3S	1	M10 x 45	AS-M10x45-W1
		3/8-16 UNC x 1-3/4	AS-3/8-16UNCx1-3/4-W3*
4S	2	M10 x 60	AS-M10x60-W1
		3/8-16 UNC x 2-1/4	AS-3/8-16UNCx2-1/4-W3*
5S	3	M10 x 70	AS-M10x70-W1
		3/8-16 UNC x 2-3/4	AS-3/8-16UNCx2-3/4-W3*
6S	4	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 1.4301 / 1.4305 (AISI 304 / 303)	W4
	Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)	W5

* 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/in) 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 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.

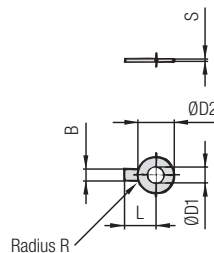
* Standard finishing option in North America is W3 (Carbon Steel, zinc/nickel-plated).



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)

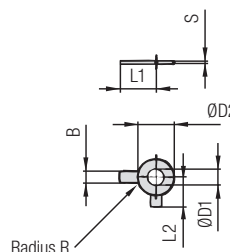
Group STAUFF	DIN	Dimensions (mm/m)						Ordering Codes (Standard Options)
		ØD1	B	ØD2	L	R	S	
3S	1	10,5	10	26	22	4	0,75	SI-10.5-DIN93-W3
		.41	.39	1.02	.87	.16	.03	
4S	2	10,5	10	26	22	4	0,75	SI-10.5-DIN93-W3
		.41	.39	1.02	.87	.16	.03	
5S	3	10,5	10	26	22	4	0,75	SI-10.5-DIN93-W3
		.41	.39	1.02	.87	.16	.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

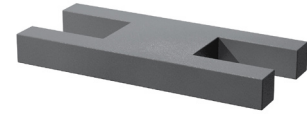
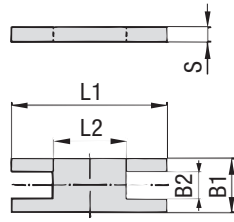
- * Safety Washer **SI**
- * Exact inner diameter ØD1 (mm) **10.5**
- * Type of washer Safety washer with 2 tabs (according to DIN 463) **DIN 463**
- * Material code Carbon Steel, zinc/nickel-plated **W3**
- Stainless Steel V4A **W5**
- 1.4401 / 1.4571 (AISI 316 / 316 Ti)

Group STAUFF	DIN	Dimensions (mm/m)						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	

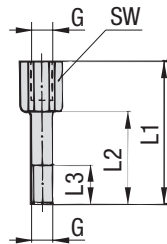
Ordering Codes

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	
133	●	○	○	8133		
9S (7)	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	
	219	●	○	○	11219	
11S (9)	273	●	○	○	11273	
	324	●	○	○	11324	
12S (10)	356	●	○	○	12356	
	406	●	○	○	12406	

● Standard Option



Please see pages 50 and 51 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: **SA** (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: **SA-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 154 / 155 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 45.

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.

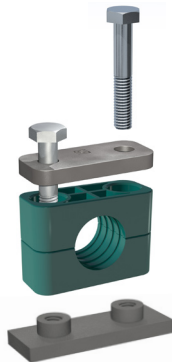
Components supplied separately
Code: **none** (standard option)

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

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



B

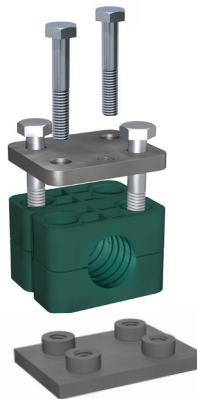


- 2x **Hexagon Head Bolt**
Surface: W1
Thread: Metric
- 1x **Cover Plate for Single Clamps**
Surface: W2
- 1x **Clamp Body** (two halves)
STAUFF Group 3S (DIN 1)
O.D. 6 mm / .24 in
Material: Polypropylene
Profiled inside surface with tension clearance
- 1x **Weld Plate for Single Clamps**
Surface: W2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

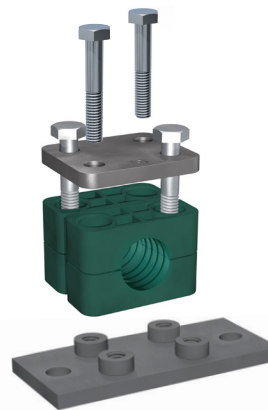


- 2x **Hexagon Head Bolt**
Surface: W1
Thread: Metric
- 1x **Cover Plate for Single Clamps**
Surface: W2
- 1x **Clamp Body** (two halves)
STAUFF Group 3S (DIN 1)
O.D. 6 mm / .24 in
Material: Polypropylene
Profiled inside surface with tension clearance
- 1x **Elongated Weld Plate for Single Clamps**
Surface: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

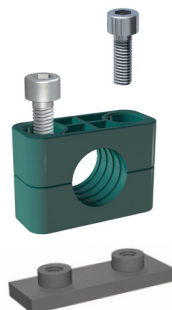


- 4x **Hexagon Head Bolt**
Surface: W1
Thread: Metric
- 1x **Cover Plate for Double Clamps**
Surface: W2
- 2x **Clamp Body** (four halves)
STAUFF Group 3S (DIN 1)
O.D. 6 mm / .24 in
Material: Polypropylene
Profiled inside surface with tension clearance
- 1x **Elongated Weld Plate for Double Clamps**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

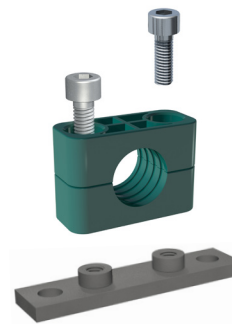


- 2x **Socket Cap Screw**
Surface: W1
Thread: Metric
- 1x **Clamp Body** (two halves)
STAUFF Group 3S (DIN 1)
O.D. 6 mm / .24 in
Material: Polypropylene
Profiled inside surface with tension clearance
- 1x **Weld Plate for Single Clamps**
Surface: W2
Thread: Metric

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

SPAS-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.

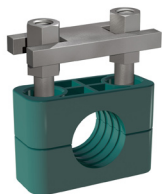


- 2x **Hexagon Head Bolt**
Surface: W1
Thread: Metric
- 1x **Cover Plate for Single Clamps**
Surface: W2
- 1x **Clamp Body** (two halves)
STAUFF Group 3S (DIN 1)
O.D. 6 mm / .24 in
Material: Polypropylene
Profiled inside surface with tension clearance

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.

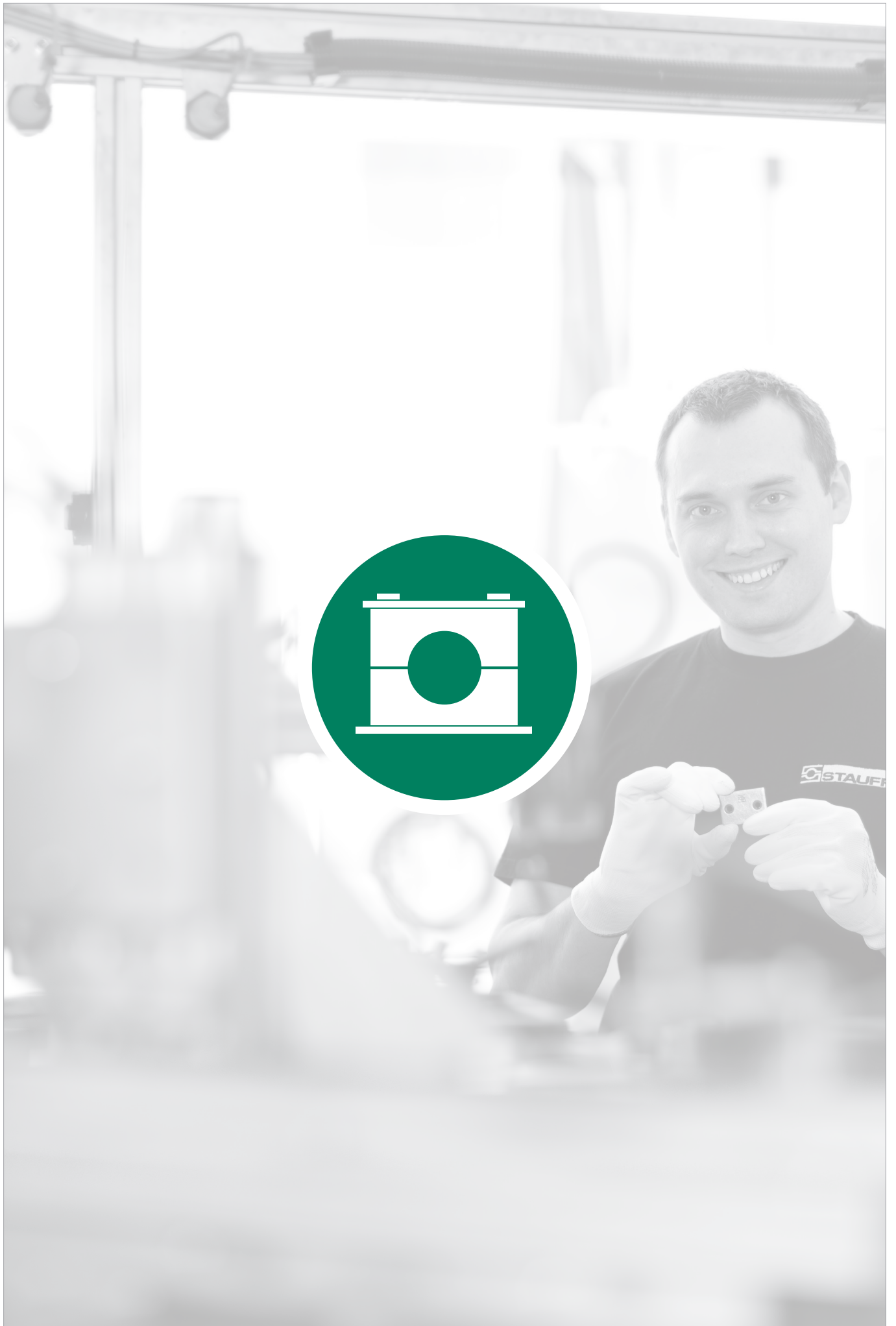
Metric ISO thread	M
Unified coarse (UNC) thread	U

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

54



Clamp Body
Smooth Inside Surface without Tension Clearance

54



Single Weld Plate
SP

55



Group Weld Plate
RAP

55



Hexagon Rail Nut
SM / SMG

56



Mounting Rail
TS

56



Channel Rail Adaptor
CRA

57



Cover Plate
GD

58



Hexagon Head Bolt
AS

58



Socket Cap Screw
IS

59



Safety Locking Plate
SI

60



Safety Locking Plate
SIV

60



Stacking Bolt
AF

61

Clamp Assemblies

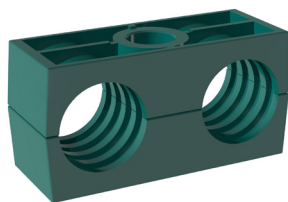
62

C



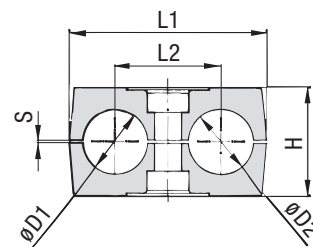
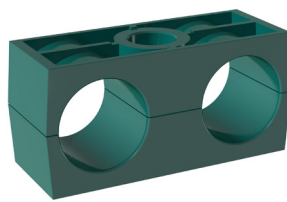
Clamp Body - Profiled Design

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 154 / 155 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 156 / 157 for material properties and technical information.

Product Features

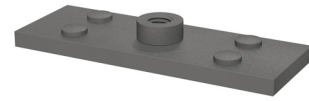
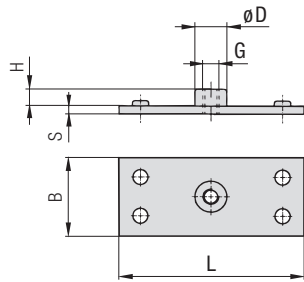
- Proven, tested and trusted product in various markets
- Profiled design recommended for the safe installation of rigid pipes and tubes; type H recommended for the safe installation of hoses and cables
- Available for all commonly used pipe and tube outside diameters
- Environmental protection due to 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)	(in)	(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-**-*											
			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



C

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

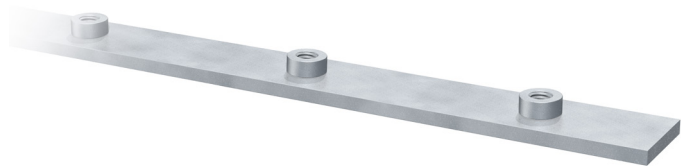
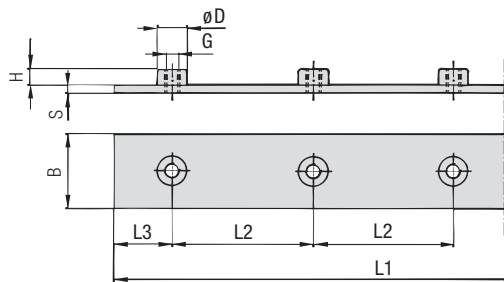
Weld Plate

***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)	W4
	Stainless Steel V4A	W5
	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.

Group Weld Plate
for 5 Clamp Bodies
Type RAP



Group STAUFF	DIN	Dimensions (mm/in)							Ordering Codes (Standard Options)		
		L1	L2	L3	B	S	H	ØD	Thread G		
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	

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)	W4
	Stainless Steel V4A	W5
	1.4401 / 1.4571 (AISI 316 / 316 Ti)	W5

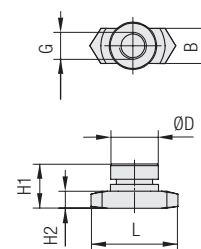
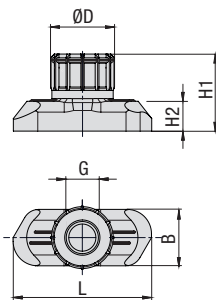
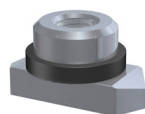
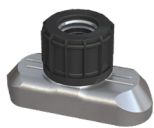
All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



Hexagon Rail Nut

(for Use with Mounting Rail TS)

Type SM / SMG



STAUFF Group 1D

STAUFF Group 2D to 5D

STAUFF Group 1D

STAUFF Group 2D to 5D

Ordering Codes

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

* Hexagon Rail Nut

Carbon Steel **SM**
Stainless Steel **SMG**

* STAUFF Group 1D (DIN Group 1) **1-8/1D**
2D to 5D (DIN Group 2 to 5) **2-5D**

* 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/m)						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							
3D	3	M8	25,5	10,4	13	5	14	SM-2-5D-M-W3
		5/16-18 UNC	1.00	.41	.51	.20	.55	SM-2-5D-U-W3
4D	4							
5D	5							

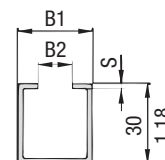
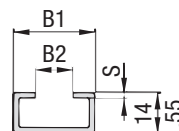
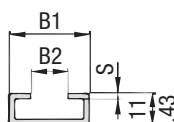
The Hexagon Rail Nut, type SM-1-8/1D is also suitable for Standard Series, STAUFF Group 1 to 8.

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 / SMG)

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 **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)			Ordering Codes (Standard Options)	
		B1	B2	S	Length of Rail: 1 m / 3.28 ft	Length of Rail: 2 m / 6.56 ft
1D	1				Height 11 mm / .43 in TS-11-1M-W1	Height 11 mm / .43 in TS-11-2M-W1
2D	2					
3D	3	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		
4D	4					
5D	5				Height 30 mm / 1.18 in TS-30-1M-W1	Height 30 mm / 1.18 in TS-30-2M-W1

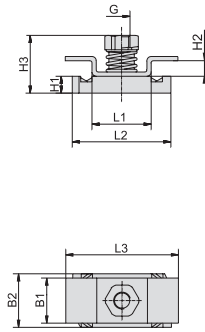
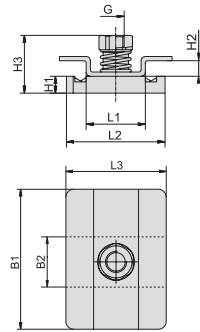
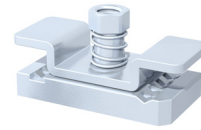
Mounting Rails, type TS-11/14/30 are suitable for all Twin Series and Standard Series group sizes.

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

Dimensional drawings: All dimensions in mm (in).



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


STAUFF Group 1D

STAUFF Group 2-3D / 4-5D

C

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	
3D	3	5/16-18 UNC	.83	1.38	1.50	2.09	.75	.35	.22	.93	CRA-2-3D-U-W3	
4D	4	M8	21	35	38	80	19	9	5,5	23,5	CRA-4-5D-M-W3	
5D	5	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.

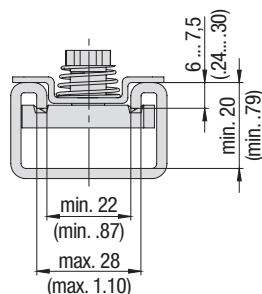
All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

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.

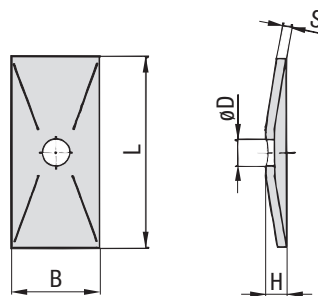
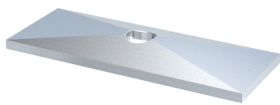


**Basic dimensional requirements for channel rails to be used with
STAUFF Channel Rail Adaptors, type CRA**

Dimensional drawings: All dimensions in mm (in).



Cover Plate Type GD



Ordering Codes

Cover Plate

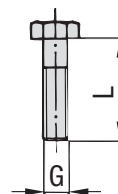
***GD-*1D-*W3**

* 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

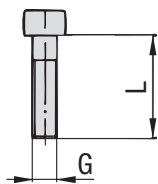
Hexagon Head Bolt *AS-*M8x35-*W3

* 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

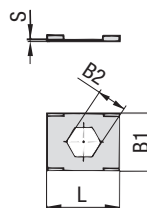
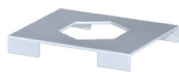
* Type of bolt	Socket Cap Screw (according to ISO 4762 or ANSI / ASME B18.3)	IS
* Thread type and size acc. to dimension table	M8x35	
* Material code	Carbon Steel, zinc/nickel-plated	W3
	Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303)	W4
	Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)	W5

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**

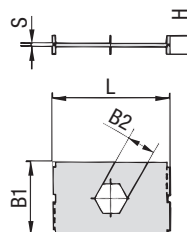
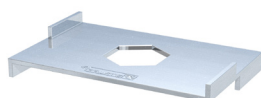
- * Safety Locking Plate **SI**
- * STAUFF Group 1D (DIN Group 1) **1D**
2D to 5D (DIN Group 2 to 5) **2-5D**
- * Material code Carbon Steel, zinc/nickel-plated **W3**
Stainless Steel V2A **W4**
1.4301 / 1.4305 (AISI 304 / 303)
Stainless Steel V4A **W5**
1.4401 / 1.4571 (AISI 316 / 316 Ti)

Group STAUFF	DIN	Dimensions (mm/m)				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					
5D	5	1.06	.86	.48	.02	

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)

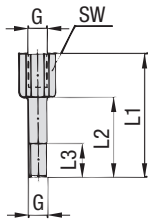
Group STAUFF	DIN	Dimensions (mm/m)					Ordering Codes (Standard Options)
		L	B1	B2	S	H	
1D	1	27	28	11,1	1	7	SIV-1D-W3
		1.06	1.10	.44	.04	.27	
2D	2	45	28	12,1	1	7	SIV-2-3D-W3
3D	3						
		1.77	1.10	.48	.04	.27	

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/m)				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 63 with detailed order examples for some of the most popular Twin Series clamp assemblies.

C

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** (Carbon Steel)
Code: **SMG** (Stainless Steel)

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 154 / 155 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

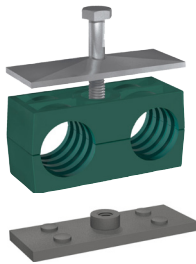
If required, please select an additional assembling and kitting option and add the corresponding Code to the last position of the order code for your clamp assembly.

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

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

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



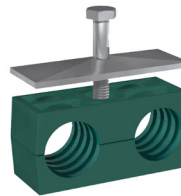


- 1x **Hexagon Head Bolt**
Surface: W3
Thread: Metric
- 1x **Cover Plate**
Surface: W3
- 1x **Clamp Body** (two halves)
STAUFF Group 1D (DIN 1)
both O.D. 6 mm / .24 in
Material: Polypropylene
Profiled inside surface
with tension clearance
- 1x **Weld Plate**
Surface: W2
Thread: Metric

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.

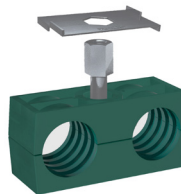


- 1x **Stacking Bolt**
Surface: W3
Thread: Metric
- 1x **Safety Locking Plate (Type SI)**
Surface: W3
Thread: Metric
- 1x **Clamp Body** (two halves)
STAUFF Group 1D (DIN 1)
both O.D. 6 mm / .24 in
Material: Polypropylene
Profiled inside surface
with tension clearance

Order Code

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

W3 is the standard option for this type of installation.

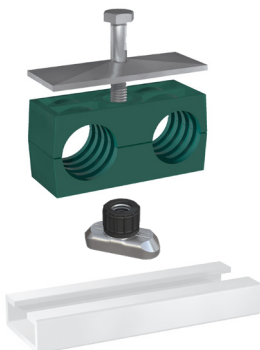


- 1x **Stacking Bolt**
Surface: W3
Thread: Metric
- 1x **Safety Locking Plate (Type SIV)**
Surface: W3
Thread: Metric
- 1x **Clamp Body** (two halves)
STAUFF Group 1D (DIN 1)
both O.D. 6 mm / .24 in
Material: Polypropylene
Profiled inside surface
with tension clearance

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

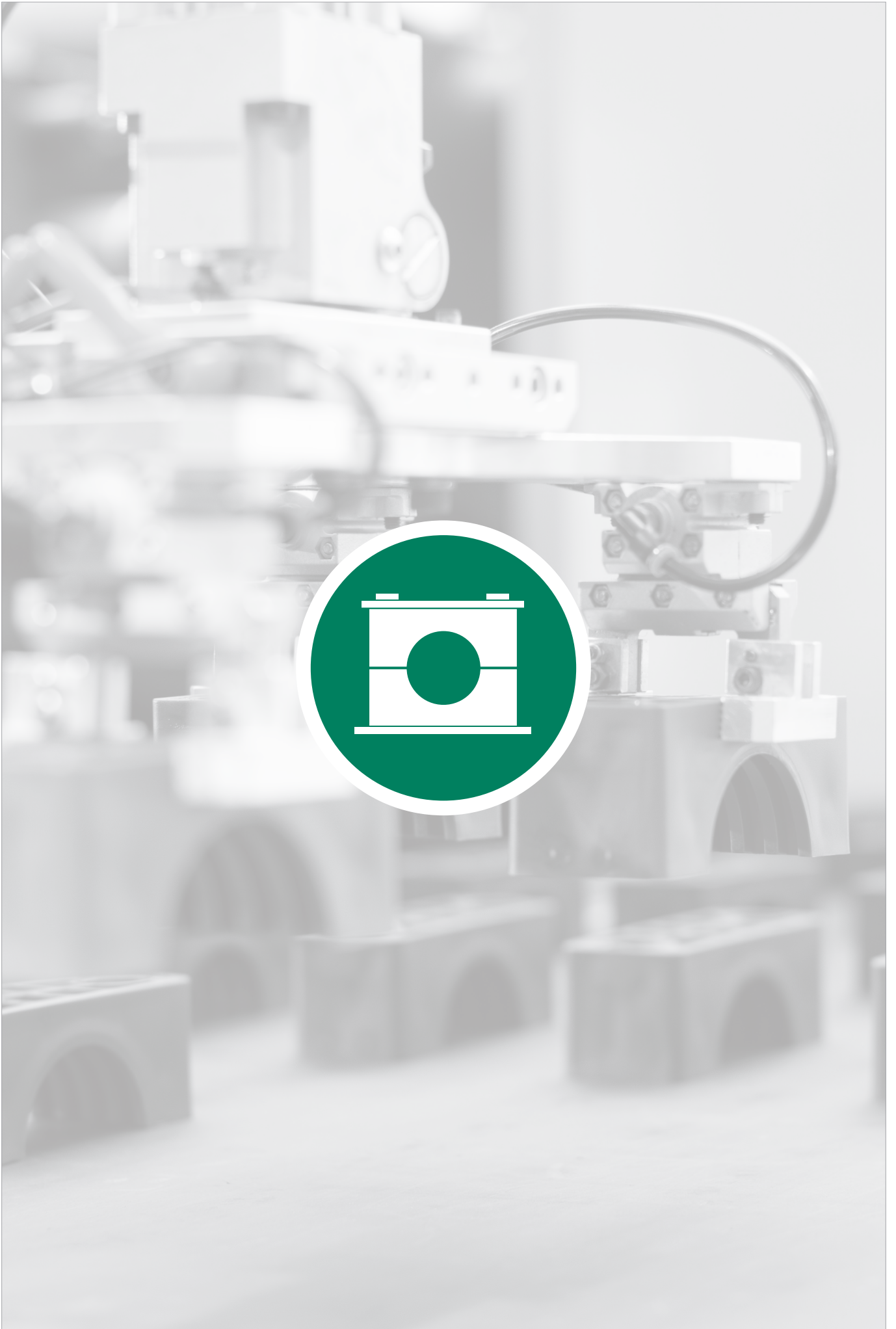
Material Codes












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



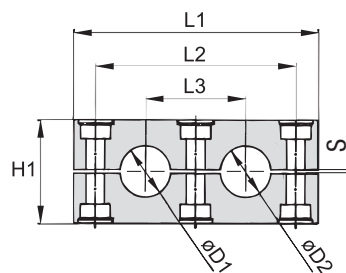
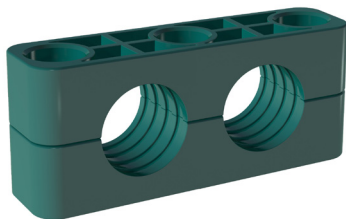


	Clamp Body Profiled Inside Surface with Tension Clearance	66
	Clamp Body with Elastomer Inserts	66
	Weld Plate SPAD	67
	Cover Plate DPAD	67
	Hexagon Head Bolt AS	68
	Mounting Rail Nut GMV	68
	Mounting Rail STSV	68
	Channel Rail Adaptor CRA	68
	Socket Cap Screw IS	68
	Safety Locking Plate SIP	68
	Stacking Bolt AF	68
	Clamp Assemblies	69

D


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**



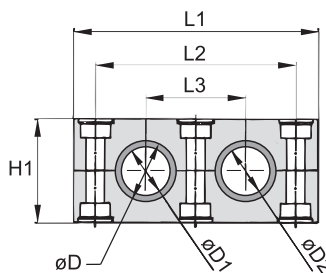
Polyamide
Colour: Black
Material code: **PA**

See pages 154 / 155 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 39 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**

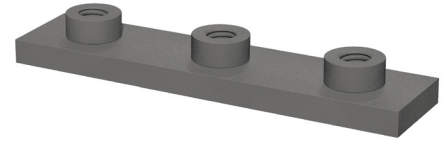
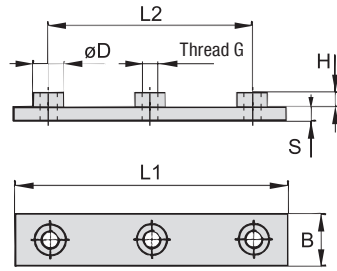


Elastomer Inserts
Thermoplastic Elastomer (73 Shore-A)
Colour: Black

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							
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 154 / 155 for properties and technical information. Additional outside diameters are available upon request. Please contact STAUFF for further information.



**Weld Plate
Type SPAD**


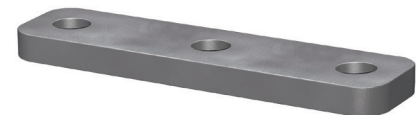
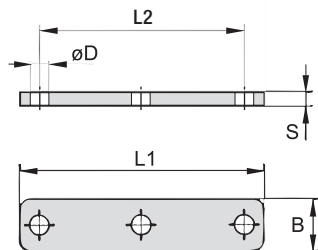
Group STAUFF	Dimensions (mm/in)		B	S	H	Thread G	ØD	Ordering Codes (Standard Options)
	L1	L2						
4S-D	130	90	30	8	8,5	M10	18	SPAD-4S-M-W1
	5.12	3.54	1.18	.31	.33	3/8-16 UNC	.71	SPAD-4S-U-W2*
5S-D	160	120	30	8	8,5	M10	18	SPAD-5S-M-W1
	6.30	4.72	1.18	.31	.33	3/8-16 UNC	.71	SPAD-5S-U-W2*

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.

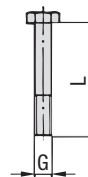
* Standard finishing option in North America is W3 (Carbon Steel, phosphated).

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*

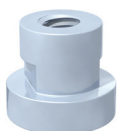
All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

If required, use Safety Washers, type SI as locking devices to prevent Hexagon Head Bolts, type AS from loosening. See page 46 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



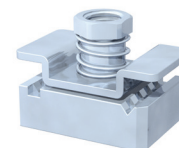
**Mounting Rail Nut
Type GMV**

Heavy Series, STAUFF Group 4S and 5S
(See page 42 for details)



**Mounting Rail
Type STSV**

Heavy Series
(See page 42 for details)



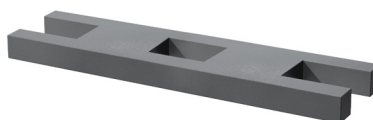
**Channel Rail Adaptor
Type CRA**

Heavy Series, STAUFF Group 4S and 5S
(See page 43 for details)



**Socket Cap Screw
Type IS**

Heavy Series, STAUFF Group 4S and 5S
(See page 45 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 47 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

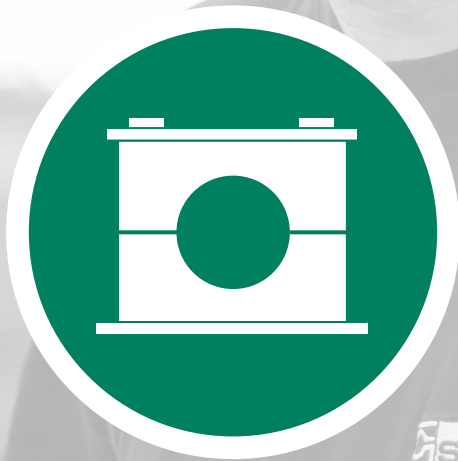
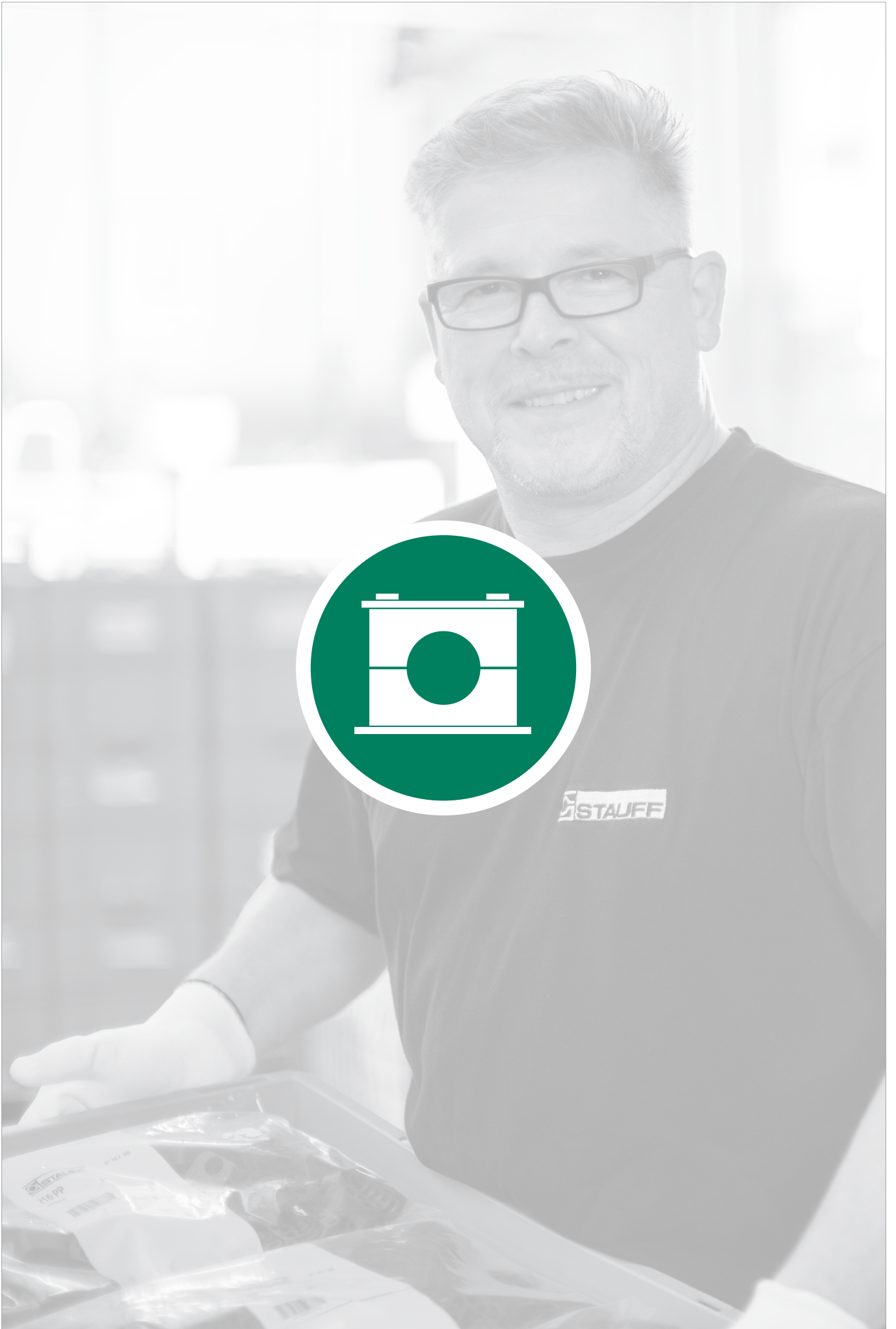
If required, please select an additional assembling and kitting option and add the corresponding Code to the last position of the order code for your clamp assembly.

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

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



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





STAUFF

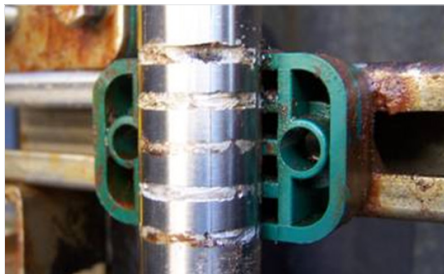
STAUFF
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STAUFF ACT
Anti-Corrosion Technology

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



Technology protected
 by utility model patent

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

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.

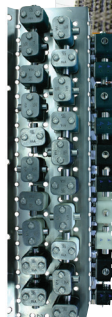
The STAUFF ACT clamp body design is available for the Standard Series (DIN 3015, Part 1) and the Twin Series (DIN 3015, Part 3) to cover the most commonly used metric and imperial pipe diameters from 6 mm to 42 mm (1/4 inch to 1 1/2 inch).

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.



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).

The Norsok Organisation



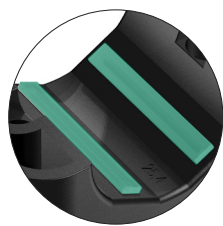
Norsok is a Norwegian industry initiative to add value, reduce cost and lead time and remove unnecessary activities in offshore field developments and operations.

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).

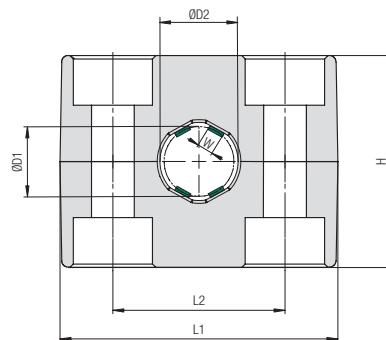
The purpose of the Norsok industry standards is to replace the individual oil company specifications for use in existing and future petroleum industry developments, subject to the individual company's review and application.



Standard Series according to DIN 3015, Part 1
ACT Clamp Body



Integrated Rubber Strips
 made of Anti-Corrosion Elastomer (ACE)



Ordering Codes

Clamp Body *2-*12.7-*ACT
 Clamp Body, STAUFF Group 1A *1-*06.4A-*ACT

One clamp body consists of two identical clamp halves, each with two integrated rubber strips.

- * STAUFF Group **2**
- * Exact outside diameter Ø D1 (mm) **12.7**
- * Material code **ACT**

Group Size		Outside Diameter Ø D1		Ordering Code	Packaging Unit	Dimensions (mm/in)					
STAUFF	DIN	(mm)	(in)	(2 Clamp Halves)	(in pieces / bag)	ØD2	W	L1	L2	H	Width
1A	1	6		106A-ACT	25	9 .35	1,4 .06	37	20	26	30
		6,4	1/4	106.4A-ACT	25	9,4 .37	1,5 .06				
		8		108A-ACT	25	11,0 .43	1,8 .07				
		9,5	3/8	109.5A-ACT	25	12,5 .49	2,2 .09				
		10		110A-ACT	25	13 .51	2,3 .09				
		12		112A-ACT	25	15 .59	2,8 .11				
2	2	12,7	1/2	212.7-ACT	25	15,7 .62	3,5 .14	42	26	32	30
		14		214-ACT	25	17 .67	3,5 .14				
		14,3	9/16	214.3-ACT	25	17,3 .68	3,5 .14				
		15		215-ACT	25	18 .71	3,5 .14				
		16	5/8	216-ACT	25	19 .74	3,5 .14				
		18		218-ACT	25	21 .83	3,5 .14				
3	3	19	3/4	319-ACT	25	22 .87	3,5 .14	50	33	35,5	30
		20		320-ACT	25	23 .91	3,5 .14				
		21,3		321.3-ACT	25	24,3 .96	3,5 .14				
		25		325-ACT	25	28 1.10	3,5 .14				
		25,4	1	325.4-ACT	25	28,4 1.12	3,5 .14				
4	4	26,9		426.9-ACT	25	31,1 1.22	6,0 .24	59	40	42	30
		28		428-ACT	25	32,2 1.27	6,0 .24				
		30		430-ACT	25	34,2 1.35	6,0 .24				
5	5	32	1 1/4	532-ACT	25	36,2 1.43	7 .28	71	52	58	30
		35		535-ACT	25	39,2 1.54	7 .28				
		38	1 1/2	538-ACT	25	42,2 1.66	8 .31				
		42		542-ACT	25	46,2 1.82	8 .31				

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





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

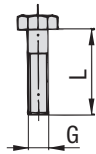
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

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)

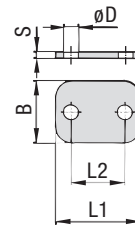


Dimensions applicable only when used with Cover Plate DP and Weld Plate SP



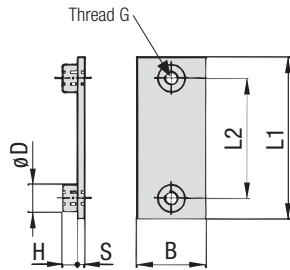
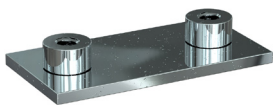
Group STAUFF	DIN	Dimensions (mm/in) Thread G x L	Ordering Code	Packaging Unit (in pieces / bag)
1A	1	M6 x 30	AS-M6x30-W55	25
		M6 x 1.18		
2	2	M6 x 35	AS-M6x35-W55	25
		M6 x 1.38		
3	3	M6 x 40	AS-M6x40-W55	25
		M6 x 1.57		
4	4	M6 x 45	AS-M6x45-W55	25
		M6 x 1.77		
5	5	M6 x 60	AS-M6x60-W55	25
		M6 x 2.36		

ACT Cover Plate Type DP ... W55



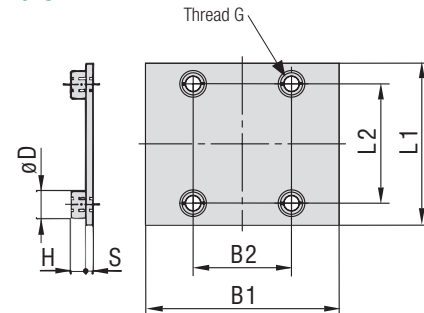
Group STAUFF	DIN	Dimensions (mm/in)					Ordering Code	Packaging Unit (in pieces / bag)
		L1	L2	B	S	ØD		
1A	1	34	20	30	3	7	DP-1A-W55	25
		1.34	.79	1.18	.12	.28		
2	2	40,5	26	30	3	7	DP-2-W55	25
		1.59	1.02	1.18	.12	.28		
3	3	48	33	30	3	7	DP-3-W55	25
		1.89	1.30	1.18	.12	.28		
4	4	57	40	30	3	7	DP-4-W55	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 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		

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 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).

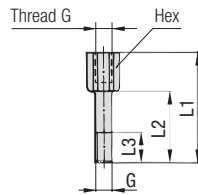
Material Code **W55** ACT Mounting Hardware Material Properties and Handling Instructions

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.

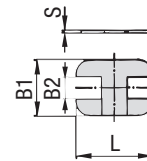
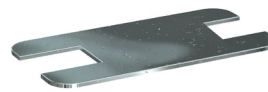
Always make sure that ACT Mounting Hardware is stored separately from carbon steel and any other metals, and that appropriate tools are used to assemble the clamps.
Details: www.stauff.com/act/assembly

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-M-W55	25
			1.73	1.18	.47	.43		
4	4	M6	49	35	12	11	AF-4-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

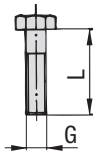
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

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)

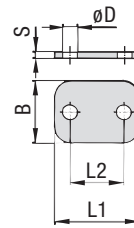


Dimensions applicable only when used with Cover Plate DP and Weld Plate SP



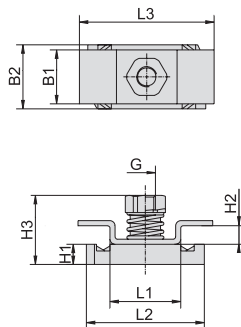
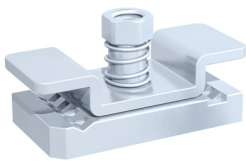
Group STAUFF	DIN	Dimensions (mm/in) Thread G x L	Ordering Code	Packaging Unit (in pieces / bag)
1A	1	M6 x 30	AS-M6x30-W55	25
		M6 x 1.18		
2	2	M6 x 35	AS-M6x35-W55	25
		M6 x 1.38		
3	3	M6 x 40	AS-M6x40-W55	25
		M6 x 1.57		
4	4	M6 x 45	AS-M6x45-W55	25
		M6 x 1.77		
5	5	M6 x 60	AS-M6x60-W55	25
		M6 x 2.36		

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

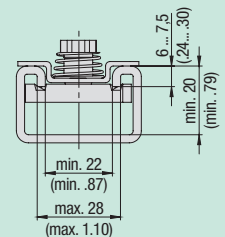


Group STAUFF	DIN	Dimensions (mm/in)									Ordering Code	Packaging Unit (in pieces / bag)
		G	L1	L2	L3	B1	B2	H1	H2	H3		
1A	1	M6	21 .83	35 1.38	40 1.57	16 .63	19 .75	6 .24	5,5 .22	20,5 .81	CRA-1-8/1D-M-W55	25
2	2											
3	3											
4	4											
5	5											

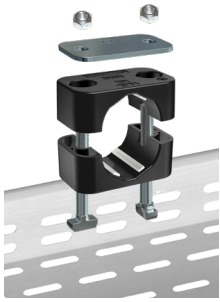
Suitability Chart for ACT Channel Rail Adaptors in the Standard Series

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

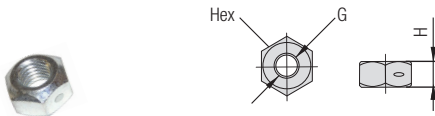
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

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)

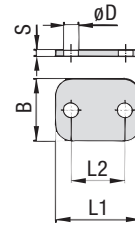


For use with ACT Hammerhead Bolts HKS ... W55



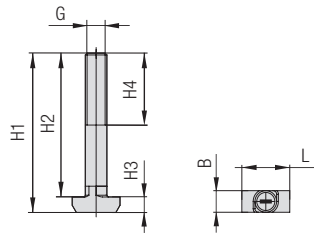
Group	STAUFF	DIN	Dimensions (mm/in)			Ordering Code	Packaging Unit
			Thread G	H	Hex		(in pieces / bag)
1A	1		M6	5	10	MUS-HKS-M6-W55	25
2	2						
3	3						
4	4						
5	5						

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

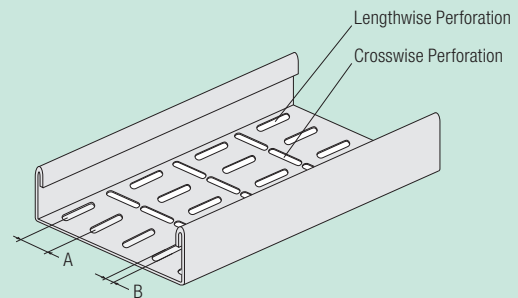


For use with Self-Locking ACT Nuts MUS-HKS ... W55



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

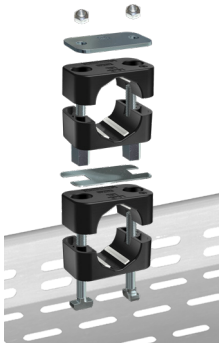


ACT Hammerhead Bolts are suitable for field trays and cable ladders with diagonal, lengthwise and/or crosswise slots and perforations that meet the following requirements:

- **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

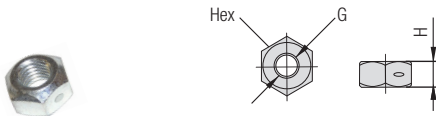
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

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

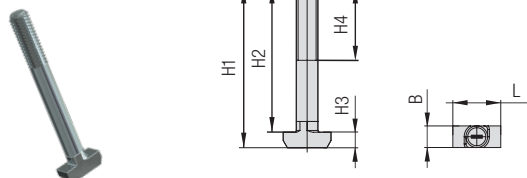
Group	STAUFF	DIN	Dimensions (mm/in)				Ordering Code	Packaging Unit
			G	L1	L2	L3 min. Hex		(in pieces / bag)
1A	1	M6	44	30	12	11	AF-HKSK-1A-M-W55	25
			1.73	1.18	.47	.43		
2	2	M6	54	40	12	11	AF-HKSK-2-M-W55	25
			2.13	1.57	.47	.43		
3	3	M6	54	40	12	11	AF-HKSK-3-M-W55	25
			2.13	1.57	.47	.43		

ACT Safety Locking Plate Type SIG ... ACT-W55



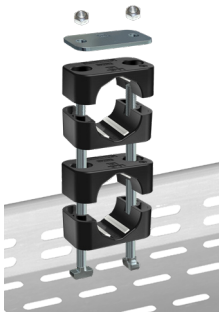
Group	STAUFF	DIN	Dimensions (mm/in)				Ordering Code	Packaging Unit
			L	B1	B2	S	(in pieces / bag)	
1A	1		33	28	11,2	2	SIG-1A-ACT-W55	25
			1.30	1.10	.44	.08		
2	2		39	28	11,2	2	SIG-2-ACT-W55	25
			1.54	1.10	.44	.08		
3	3		47	28	11,2	2	SIG-3-ACT-W55	25
			1.85	1.10	.44	.08		

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

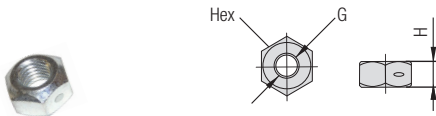
Material Code **W55** ACT Mounting Hardware Material Properties and Handling Instructions

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)

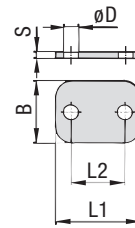


For use with ACT Hammerhead Bolts HKS ... W55



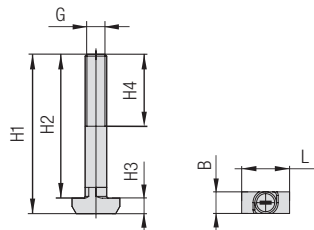
Group	STAUFF	DIN	Dimensions (mm/in)			Ordering Code	Packaging Unit
			Thread G	H	Hex		(in pieces / bag)
1A	1		M6	5 .20	10 .39	MUS-HKS-M6-W55	25
2	2						
3	3						

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	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 Hammerhead Bolt Type HKS ... W55

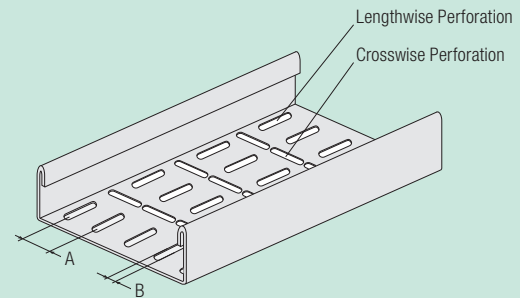


For use with Self-Locking ACT Nuts MUS-HKS ... W55



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	64	4,3	20	6,1	13,3	HKS-V-M6x64-W55	25	
			2.69	2.52	.17	.79	.24	.52			
2	2	M6	80,3	76	4,3	20	6,1	13,3	HKS-V-M6x76-W55	25	
			3.16	2.99	.17	.79	.24	.52			
3	3	M6	87,3	83	4,3	20	6,1	13,3	HKS-V-M6x83-W55	25	
			3.44	3.27	.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.



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.

Order Code
SP-110a-ACT-DP-AS-M-W55

W55 is the recommended option for metal hardware to be used with STAUFF ACT Clamps.

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
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.).

Order Code
CRA-110a-ACT-DP-AS-M-W55

W55 is the recommended option for metal hardware to be used with STAUFF ACT Clamps.

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
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.

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.

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.

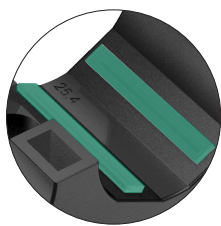
Order Codes

Upper Level: **212.7-ACT** (Clamp Body only)
 Lower Level: **HKSV-212.7-ACT-DP-MUS-M-W55**

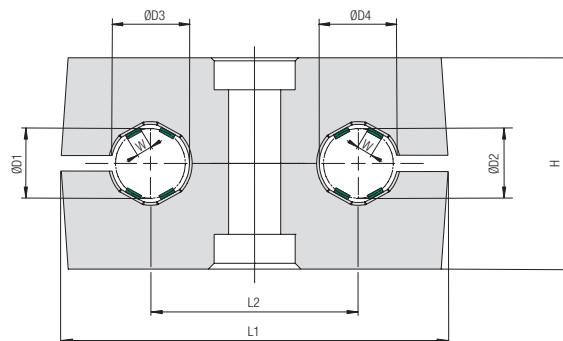
W55 is the recommended option for metal hardware to be used with STAUFF ACT Clamps.



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	36 1.42	20 .79	26,6 1.05	30 1.18
		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				
		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	53 2.09	29 1.14	26,6 1.05	30 1.18
		14		214/14-ACT	25	17 .67	3,5 .14				
3D	3	18		318/18-ACT	25	21 .83	3,5 .14	67 2.64	36 1.42	36,6 1.44	30 1.18
		19	3/4	319/19-ACT	25	22 .87	3,5 .14				
		20		320/20-ACT	25	23 .91	3,5 .14				
		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

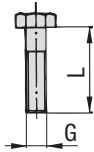
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

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)

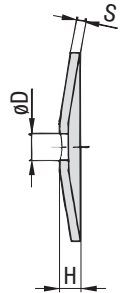
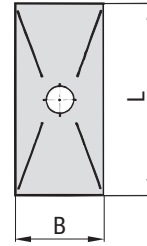


Dimensions applicable only when used with Cover Plate GD and Weld Plate SP



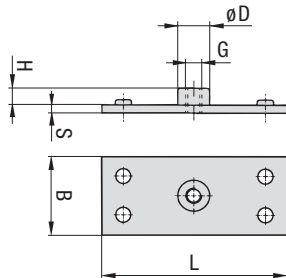
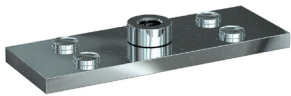
Group STAUFF	DIN	Dimensions (mm/in) Thread G x L	Ordering Code	Packaging Unit (in pieces / bag)
1D	1	M6 x 35	AS-M6x35-W55	25
		M6 x 1.38		
2D	2	M8 x 35	AS-M8x35-W55	25
		M8 x 1.38		
3D	3	M8 x 45	AS-M8x45-W55	25
		M8 x 1.77		

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		

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 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).

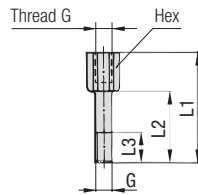
Material Code **W55** ACT Mounting Hardware Material Properties and Handling Instructions

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.

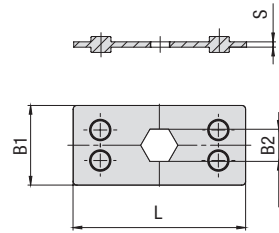
Always make sure that ACT Mounting Hardware is stored separately from carbon steel and any other metals, and that appropriate tools are used to assemble the clamps.
Details: www.stauff.com/act/assembly

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			
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		
3D	3		65	30	12,1	2	SIV-3D-PP-V0-ACT	25
			2.56	1.18	.48	.08		



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

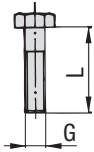
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

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)

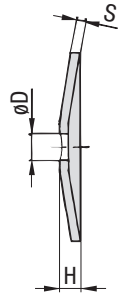
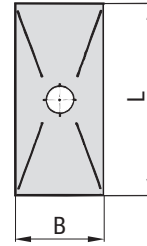


Dimensions applicable only when used with Cover Plate GD and Weld Plate SP



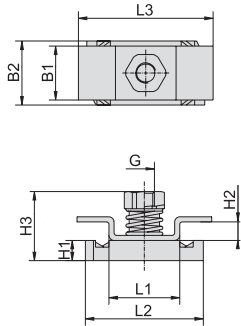
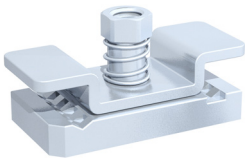
Group STAUFF	DIN	Dimensions (mm/in) Thread G x L	Ordering Code	Packaging Unit (in pieces / bag)
1D	1	M6 x 35	AS-M6x35-W55	25
		M6 x 1.38		
2D	2	M8 x 35	AS-M8x35-W55	25
		M8 x 1.38		
3D	3	M8 x 45	AS-M8x45-W55	25
		M8 x 1.77		

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		

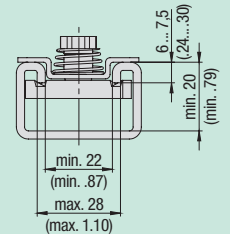
Channel Rail Adaptor Type CRA ... W55



Group STAUFF	DIN	Dimensions (mm/in) G	L1	L2	L3	B1	B2	H1	H2	H3	Order Code	Packaging Unit (in pieces / bag)
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

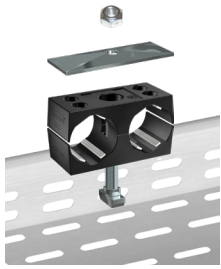
The STAUFF Channel Rail Adaptor, type CRA, is suitable for various brands and types of channel rails (including Halfen, Hilti, Unistrut® etc.). The drawing describes the basic dimensional requirements for channel rails to be used with STAUFF Channel Rail Adaptors, type CRA.



In case of doubt, please do not hesitate to contact STAUFF prior to field application.



ACT Mounting Hardware Installation in Field Trays / Cable Ladders



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.

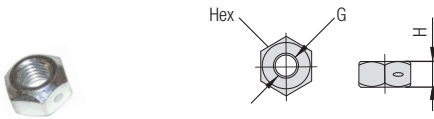
Material Code **W55** ACT Mounting Hardware Material Properties and Handling Instructions

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

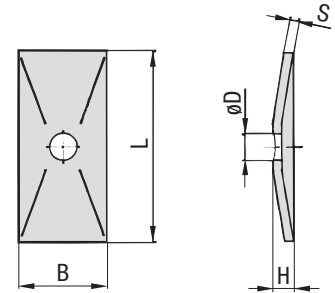
All-Metal Self-Locking ACT Nut Type MUS-HKS ... W55 (similar to DIN 980 / Biloc)



For use with ACT Hammerhead Bolts HKS ... W55

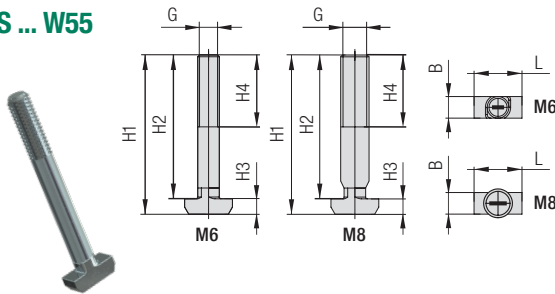
Group	STAUFF	DIN	Dimensions (mm/in)			Ordering Code	Packaging Unit
			Thread G	H	Hex		(in pieces / bag)
1D	1	M6	5	.20	10	MUS-HKS-M6-W55	25
2D	2	M8	6.5	.26	13	MUS-HKS-M8-W55	25
3D	3				.51		

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	1	34	30	7	3	7	GD-1D-W55	25
			1.34	1.18	.28	.12	.28		
2D	2	2	52	30	7	3	9	GD-2D-W55	25
			2.05	1.18	.28	.12	.35		
3D	3	3	65	30	7	3	9	GD-3D-W55	25
			2.56	1.18	.28	.12	.35		

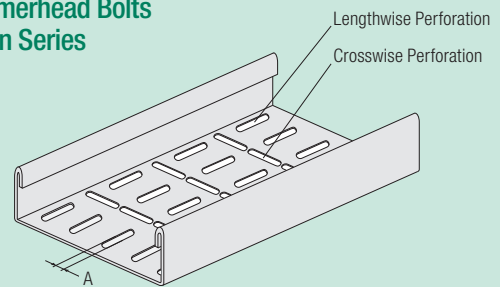
ACT Hammerhead Bolt Type HKS ... W55



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)
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			

Suitability Chart for ACT Hammerhead Bolts in the Twin Series

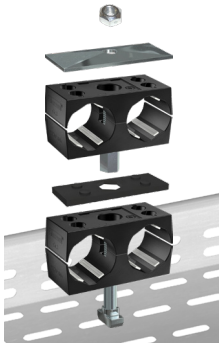


ACT Hammerhead Bolts are suitable for field trays and cable ladders with diagonal, lengthwise and/or crosswise slots and perforations that meet the following requirements:

- **Dimension A:** 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-HSK...W55
- 1 ACT Safety Locking Plate SIV...ACT
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 ACT Hammerhead Bolt HSKS ... W55

Material Code
W55

ACT Mounting Hardware Material Properties and Handling Instructions

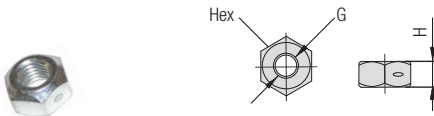
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

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)
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	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		
3D	3	3	65 2.56	30 1.18	7 .28	3 .12	9 .35	GD-3D-W55	25

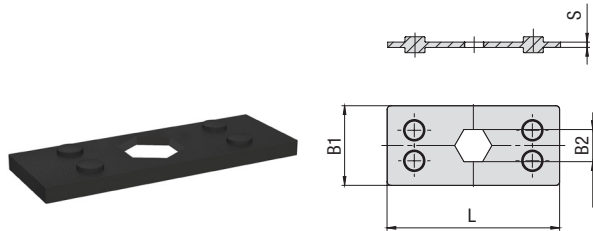
ACT Stacking Bolt Type AF-HSKS ... W55



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-HSKS-1D-M-W55	25
2D	2		M8	50 1.97	37 1.47	11 .43		
3D	3	M8		61 2.40	46 1.81	15 .59	12 .47	AF-HSKS-3D-M-W55

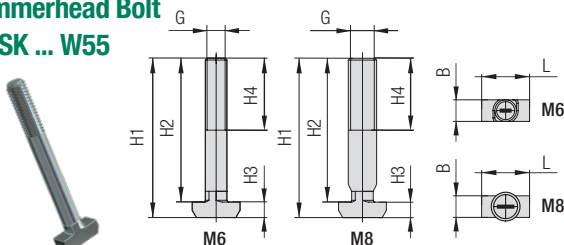
ACT Safety Locking Plate Type SIV ... ACT



Made of flame-retardant PP-V0 plastic material; tested and V0 classified according to UL 94

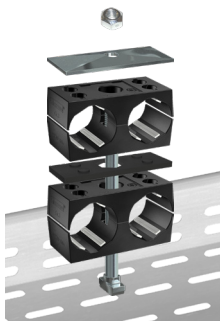
Group	STAUFF	DIN	Dimensions (mm/in)				Order Code	Packaging Unit
			L	B1	B2	S	(in pieces / bag)	
1D	1	1	34 1.39	30 1.18	11,2 .44	2 .08	SIV-1D-PP-V0-ACT	25
2D	2		52 2.05	30 1.18	12,1 .48	2 .08		
3D	3	3	65 2.56	30 1.18	12,1 .48	2 .08	SIV-3D-PP-V0-ACT	25

ACT Hammerhead Bolt Type HSKS ... 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	HKS-K-M6x25-W55	25
2D	2		M8	32,3 1.27	28 1.10	4,3 .17	20 .79	6 .24		
3D	3	M8		42,3 1.67	38 1.50	4,3 .17	20 .79	6 .24	13,3 .52	HKS-K-M8x38-W55





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

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.

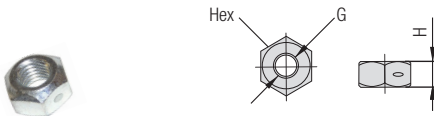
ACT Mounting Hardware is always delivered in hermetically-sealed quality storage bags with 25 pieces each to avoid contamination during transport.

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)

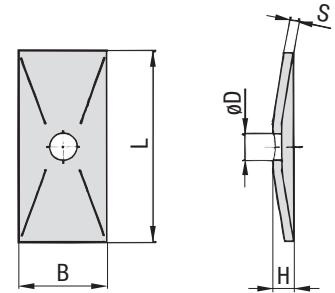


For use with ACT Hammerhead Bolts HKS ... W55

Group	STAUFF	DIN	Dimensions (mm/in)			Ordering Code	Packaging Unit
			Thread G	H	Hex		(in pieces / bag)
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

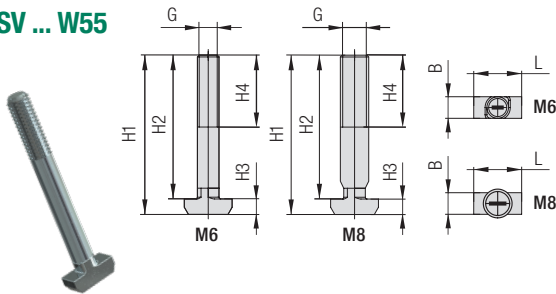
Type GD ... W55



Group	STAUFF	DIN	Dimensions (mm/in)					Ordering Code	Packaging Unit
			L	B	H	S	ØD		(in pieces / bag)
1D	1		34	30	7	3	7	GD-1D-W55	25
2D	2		52	30	7	3	9	GD-2D-W55	25
3D	3		65	30	7	3	9	GD-3D-W55	25
			2.56	1.18	.28	.12	.35		

ACT Hammerhead Bolt

Type HKSV ... W55

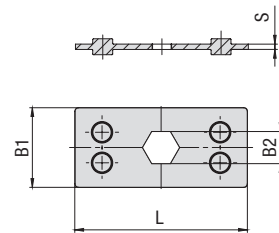


For use with Self-Locking ACT Nuts MUS-HKS ... W55

Group	STAUFF	DIN	Dimensions (mm/in)							Ordering Code	Packaging Unit
			G	H1	H2	H3	H4 min	B	L		(in pcs. / bag)
1D	1	M6	76,3	72	4,3	20	6,1	13,3		HKSV-M6x72-W55	25
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
			L	B1	B2	S		(in pieces / bag)
1D	1		34	30	11,2	2	SIV-1D-PP-V0-ACT	25
2D	2		52	30	12,1	2	SIV-2D-PP-V0-ACT	25
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):

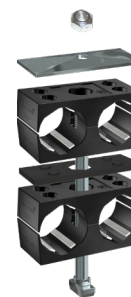
- 1 Self-Locking Nut MUS-HKS ... W55
- 1 Cover Plate GD ... W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 Stacking Bolt AF-HKSK...W55
- 1 Safety Locking Plate SIV...ACT
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 Hammerhead Bolt HKSK ... W55

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.





	Introduction	92
	Weld Stud with Female Thread SWG-SF	92
	Distance Plate for DIN 3015 Clamps SWG-DIP	93
	Cable Tie Holder SWG-CTH-11-M6	93
	Cable Tie / Tension Belt Holder SWG-CTH-30-M6-1	93
	Cable Tie / Tension Belt Holder SWG-CTH-30-M6-2	93
	Starterkit SWG-WI06-Starterkit	94
	Weld Inverter SWG-WI06	94
	Weld Gun - Arc Ignition SWG-WG	94
	Distance Adaptor SWG-AGS	95
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	Ground Cable SWG-GC	95



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.

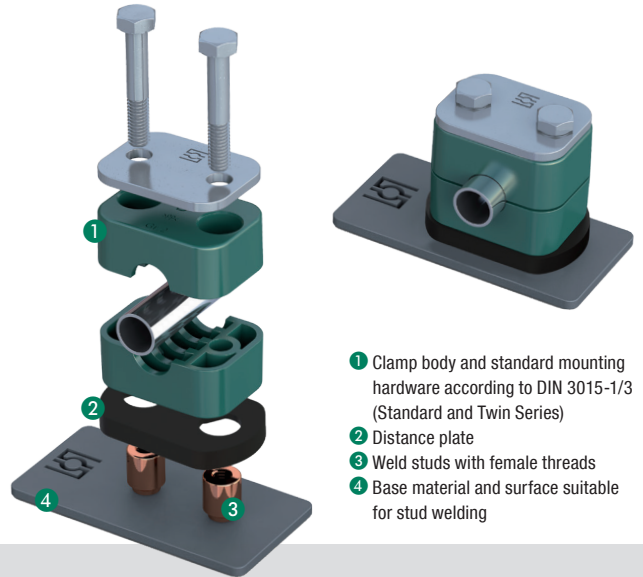
If required, the system can also be adopted for alternative fastening methods, e.g. for clamping belts, cable ties or conduit hoses.

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

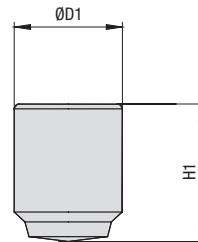
Assembly using weld plates
100%

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



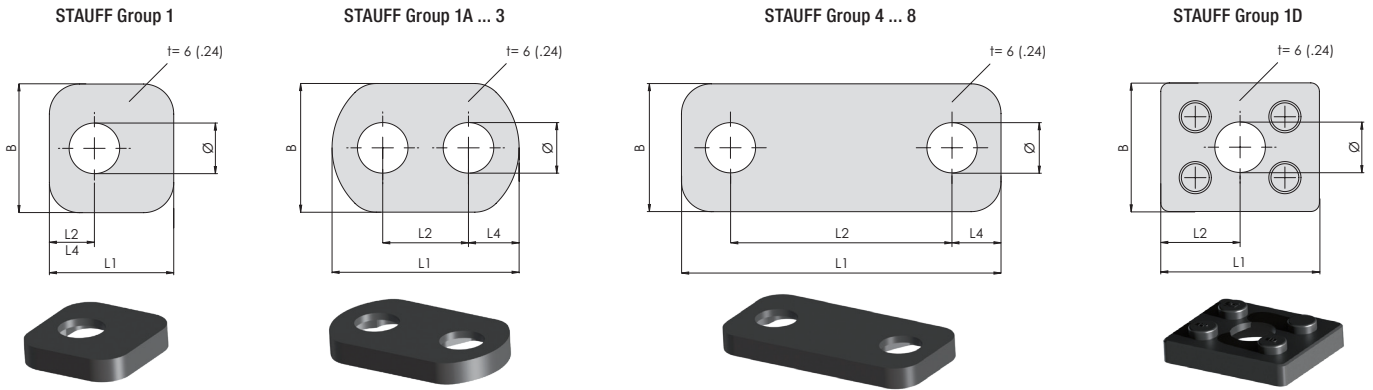
Ordering Codes	
Weld Stud	*SWG-SF-*M6x11x14-*W124
* Weld Stud with Female Thread	SWG-SF
* Thread code	Metric ISO thread M6x11x14 Unified coarse (UNC) thread UNC1/4-20x11x14
* Material code	Steel 4.8 with galvanised copper coating C1E (DIN EN ISO 4042) W124

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 161 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) Clamp Body	Dimensions (mm/in)					Order Codes (Standard Options)	Packaging Units (in pcs. / per bag)
			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

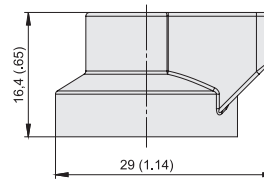
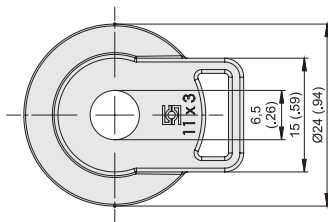
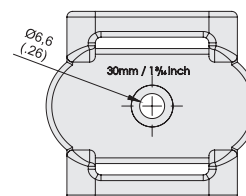
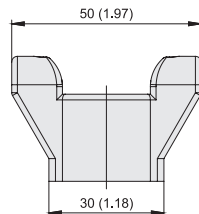
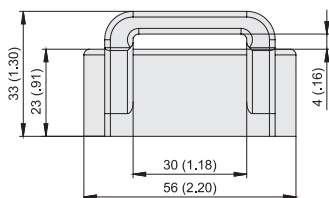
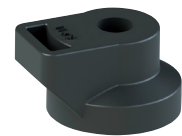
Alternative materials are available upon request. Please contact STAUFF for further information.

* ±0,1(.003)

Material: Polyamide (reinforced)

Suitable for hexagon socket button cap screws M6x12 (ISO 7380-1)

Standard packaging unit: 25 pcs.

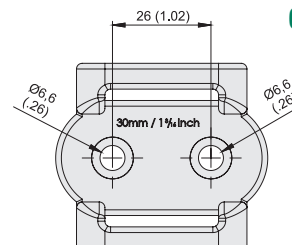

**Cable Tie Holder
Type SWG-CTH-11-M6**


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**


Starterkit Type SWG-WI06-Starterkit



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

F



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)

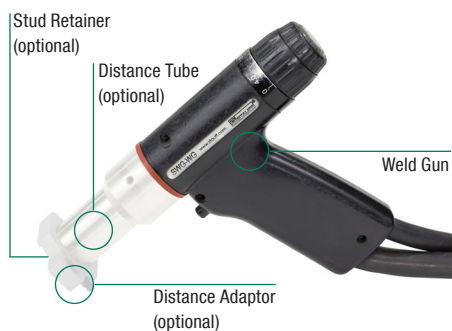
Ambient Temperature Limits

- ± 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

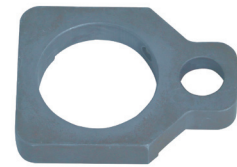
Dimensions (L x W x H)

- 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**

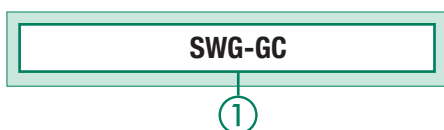
Type	for use with	Ordering Codes
A	Distance Adaptor SWG-AGS-1A	DIT-SR6-SWG-WG25
B	Distance Adaptor SWG-AGS-2...8	DIT-SR6-SWG-WG30


F
**Stud Retainer
Type SWG-SR6**
Order Code

① Type

 Stud Retainer **SWG-SR6**

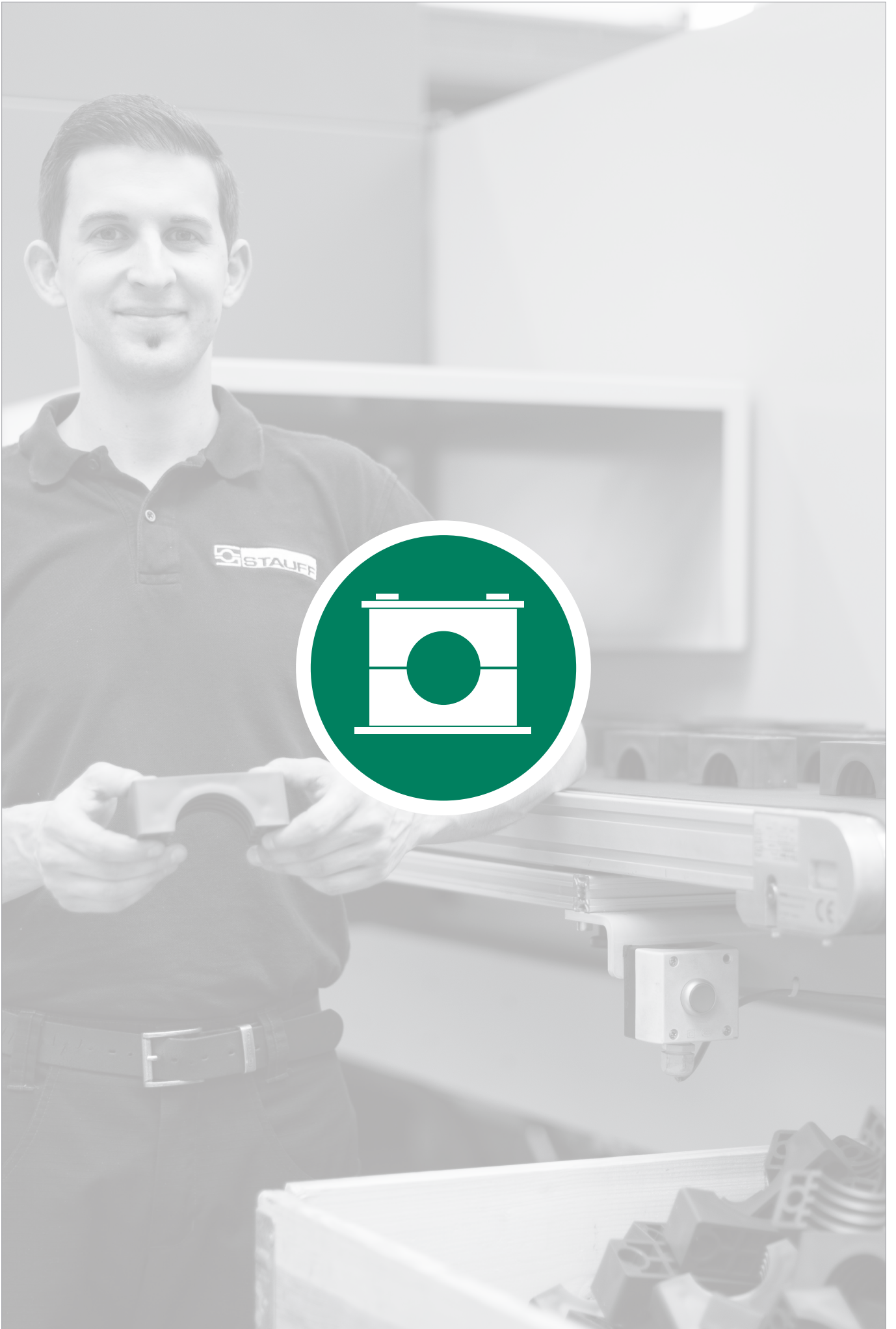
Standard packaging unit: 5 pcs.







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	98
	STAUFF Bond Plate for DIN 3015 Clamps SBP	99
	Adhesive Cartridge CB420-50(E)	100
	Manual Adhesive Dispenser SBD	101
	Dispenser Slide SBDS-81	101
	Mixing Tip SBMT	101

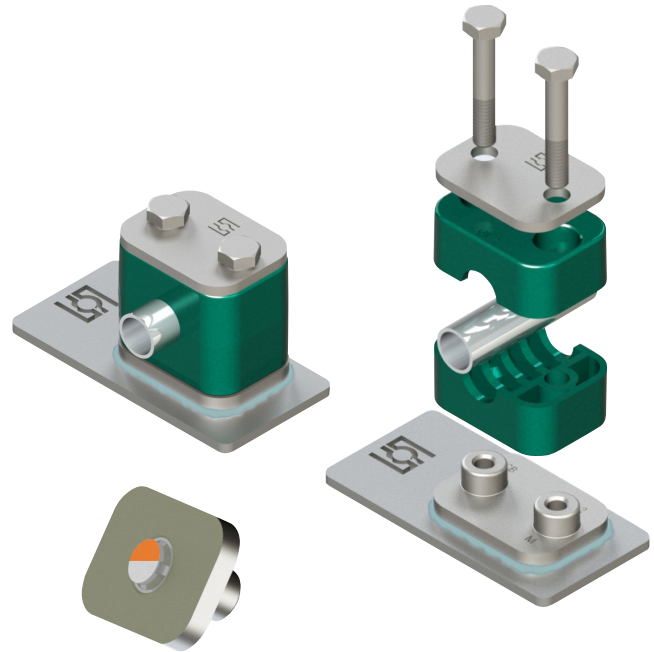


STAUFF Bond Adhesive Bonded Fastening

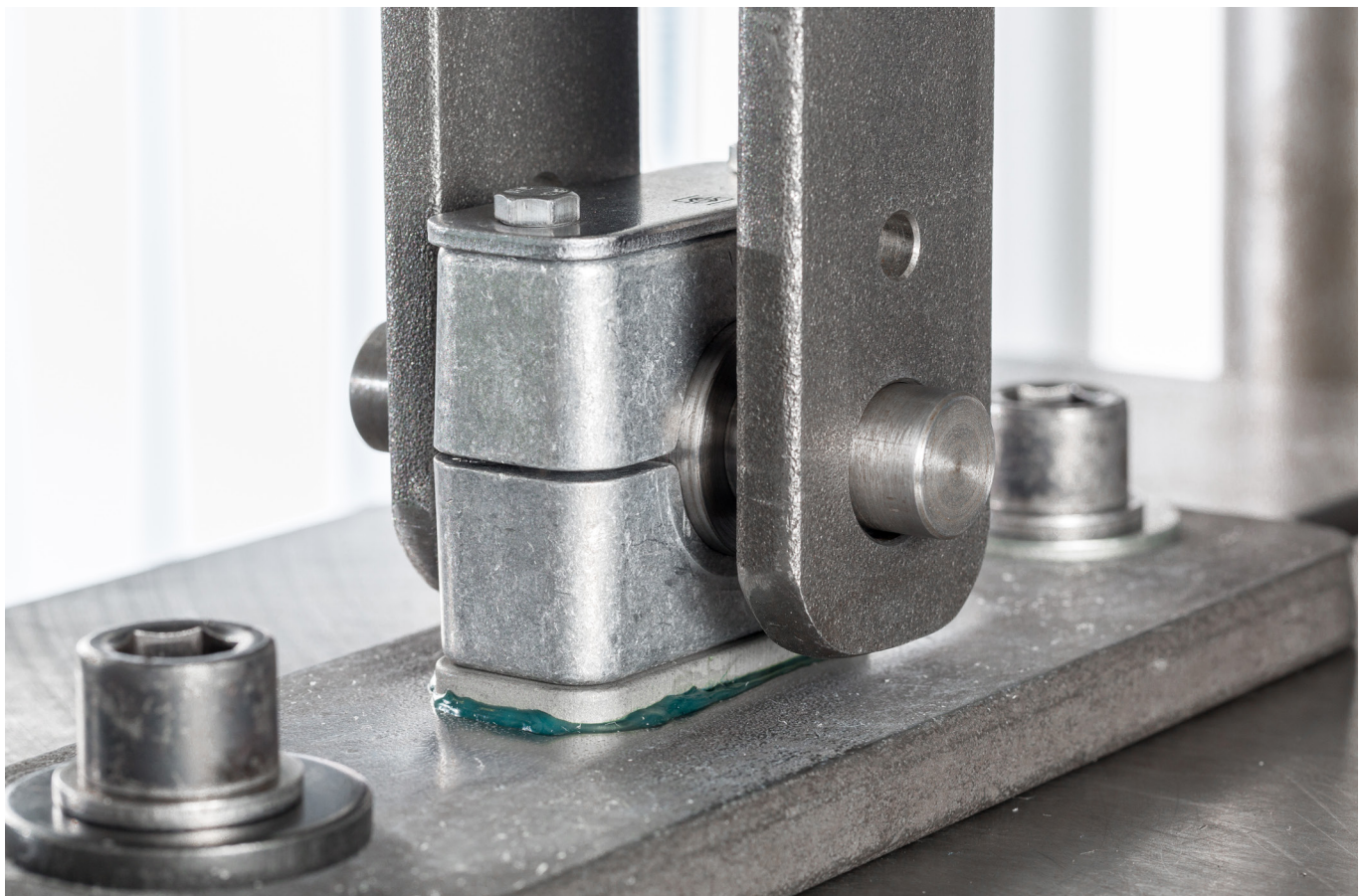
The innovative STAUFF Bond system allows for pipes, tubes, hoses, cables and other components with outside diameters up to 102 mm / 4.00 in to be adhesively bonded to almost any surface material, such as prepared or unprepared metals, thermoplastics and composites.

It enables assembly and service technicians such as tube fitters to replace expensive and sometimes complicated mechanical fastening methods for STAUFF Clamps such as welding, brazing, bolting and riveting - a crucial benefit especially in safety-critical situations where welding is usually not considered to be an option.

- Reduce cycle time and labor cost during installation
- Eliminate need for hot work, fire watch and gas freeing
- Expensive tools and welding equipment no longer necessary
- No external power supply or electrical power required for installation
- Can be used with a variety of surfaces, especially in safety-critical situations when welding is not an option
- Enhance structural design, strength and integrity
- Reduce number of holes drilled into the structure
- Prevent galvanic corrosion and potential leak paths
- Maximize design and work sequence flexibility
- Facilitate last minute changes and additions
- Simplify subsequent modification and repair

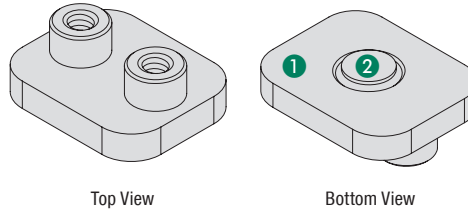
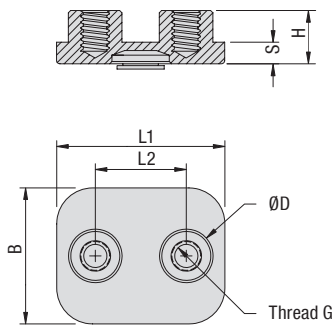


G



Tensile testing of the STAUFF Bond Plate (type SBP) with STAUFF Bond Adhesive (type CB420-50E) in the STAUFF Technology Centre. Please contact STAUFF for detailed test reports.



**STAUFF Bond Plate for DIN 3015 Clamps
Type SBP**


- ① Adhesive to be applied to this primed area of the bond plate
- ② Internal dynamic installation fixture providing constant positive pressure and holding the bond plate in position while the adhesive cures¹



Group STAUFF	DIN	Dimensions (mm/in)		Dimensions (mm/in)							Order Codes (Standard Options)	Packaging Unit (in Pieces)
		Diameter (mm/in) Clamp Body	Thread G	L1	L2	B	S	H	ØD			
1A	1	6 ... 12	M6	36	20	30	5	11,3	11,8	SBP-1A-M-W5	25	
		.2448	1/4-20 UNC	1.42	.79	1.18	.20	.44	.46	SBP-1A-U-W5		
2	2	12,7 ... 18	M6	42	26	30	5	11,3	11,8	SBP-2-M-W5	25	
		.5071	1/4-20 UNC	1.65	1.02	1.18	.20	.44	.46	SBP-2-U-W5		
3	3	19 ... 25,4	M6	50	33	30	5	11,3	11,8	SBP-3-M-W5	25	
		.75 ... 1.00	1/4-20 UNC	1.97	1.30	1.18	.20	.44	.46	SBP-3-U-W5		
4	4	26,9 ... 32	M6	60	40	30	5	11,3	11,8	SBP-4-M-W5	25	
		1.06 ... 1.26	1/4-20 UNC	2.36	1.57	1.18	.20	.44	.46	SBP-4-U-W5		
5	5	32 ... 42	M6	71	52	30	5	11,3	11,8	SBP-5-M-W5	25	
		1.26 ... 1.65	1/4-20 UNC	2.80	2.05	1.18	.20	.44	.46	SBP-5-U-W5		
6 ¹	6	44,5 ... 54	M6	88	66	30	5	11,3	11,8	SBP-6-M-W5	25	
		1.75 ... 2.12	1/4-20 UNC	3.46	2.60	1.18	.20	.44	.46	SBP-6-U-W5		

Ordering Codes
STAUFF Bond Plate *SBP-*2-*M-*W5

* STAUFF Bond Plate		SBP
* STAUFF Group		2
* Thread code	Metric ISO thread	M
	Unified coarse (UNC) thread	U
* Material code	Stainless Steel V4A 1.4408 (AISI 316)	W5

Please note: The bonding surface of the STAUFF Bond Plate is primed with a two-component chemically cured waterborne primer (MIL-PRF-85582) that forms a film that is resistant to chemicals, solvents, moisture and abrasion.

¹Please note: For STAUFF Group 6, STAUFF Bond Plates are equipped with each two internal installation fixtures.



Adhesive Cartridge Type CB420-50(E)



Characteristics

The STAUFF Bond acrylic structural adhesive is a two-component thixotropic paste adhesive (mixing ratio of 10:1) packed in a suitable 35 ml / 1.23 oz dual cartridge.

It is capable of bonding a wide variety of prepared or unprepared metals, engineering thermoplastics and composites, and replacing commonly used mechanical fastening methods such as welding, brazing, bolting and riveting in various industries.

The STAUFF Bond adhesive cures quickly at room temperature and exhibits excellent environmental and chemical resistance.

Processing instructions

Cure Time

15 to 18 minutes to 75% of ultimate strength and 24 hours to 100% of ultimate strength at room temperature of +24 °C / +75 °F.

Shelf Life

Minimum 9 months when stored in a dry place and in the original package at temperatures from +13 °C to +24 °C / +55 °F to +75 °F

Shelf life can be maximized by refrigeration at temperatures from +7 °C to +13 °C / +45 °F to +55 °F.

Do not freeze adhesive!

Temperature

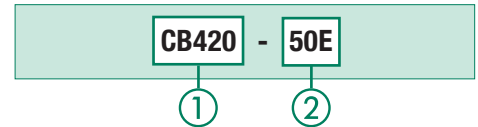
Operating temperature range from -55 °C to +121 °C / -67 °F to +240 °F.

Pay attention to the expiry dates printed on the cartridges.

Alternative types of adhesives are available on request. Please contact STAUFF for further information.

Find the safety data sheets at www.stauff.com/en/bond/sds

Ordering Code



① Type

Adhesive Cartridge **CB420**

② Execution

International **50**
Europe (Delivery Standard Europe) **50E**

Required Accessories

- Adhesive Dispenser, Dispenser Slide, Mixing Tip

Recommended number of STAUFF Bond Plates SBP to be installed with a single Adhesive Cartridge Type CB420-50(E)								
STAUFF Group	1A	2	3	4	5	6	7	8
No. of Bond Plates	25	25	20	20	15	15	5	5

Installation Guideline

Surface Preparation

Thorough surface preparation is an essential part of adhesive bonding and at least as important as the actual installation.

Lightly abrade glossy surfaces to improve the adhesive bond strength. Just prior to adhesive application, clean surfaces with solvent using clean and lintless rags or paper towels. Do not use shop towels, rags or paper wipes contaminated with oil, soap or reclaimed solvents.

Clean one small area at a time, then dry with a clean cloth before the solvent evaporates to prevent re-deposition of contaminants. To maintain a clean solvent supply, always pour the solvent onto the washing cloth.

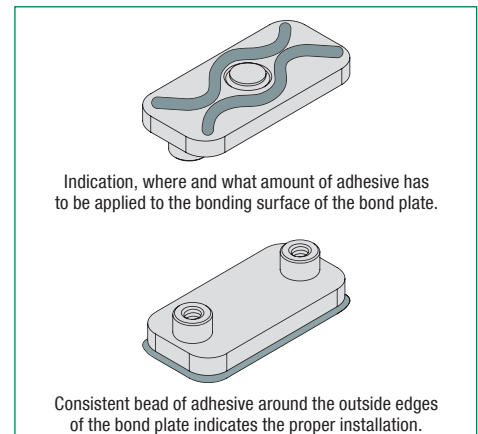
You may also want to clean the bottom of the bond plate prior to adhesive preparation. Use a clean cloth saturated with solvent to wipe the part with a single circular motion. Use caution not to disturb the internal fixture.

Safety note: Always wear gloves and protective glasses!

Dispensing Directions

- Place the cartridge into the retaining lip on the dispensing gun. Mark the position of the cap of the cartridge, remove it by turning counter-clockwise and keep it for later use. When reclosing the cartridge, the cap must be used in the exact same position as it was before to avoid unwanted mixing and curing.
- Activate the dispensing gun slightly to extrude a small amount of adhesive onto scrap material to ensure adequate flow of both components. Attach the mixing tip to the adhesive cartridge and dispense a small line of adhesive onto scrap material to ensure adequate mixing.
- Remove the protective foil from the internal dynamic installation fixture(s) of the bond plate.
- Apply suitable amount of adhesive to the bonding surface of the bond plate (see drawing on the left), position the part in the desired location on the surface and press lightly on the center of the bond plate to actuate the installation fixture(s), which will provide constant positive pressure and hold the bond plate in position while the adhesive cures.

- A consistent bead of adhesive around the outside edges of the bond plate indicates proper installation and is a good visual quality assurance check.
- When not in use, remove and dispose the mixing tip and replace the cap to preserve remaining adhesive.

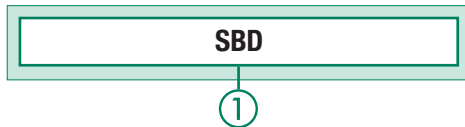


Selection, proper application and correct installation of the products are the user's responsibility!



Manual Adhesive Dispenser Type SBD

Ordering Code



① Type

Manual Adhesive Dispenser **SBD**

Characteristics

The STAUFF Bond Manual Adhesive Dispenser has been designed for use with STAUFF Bond dual adhesive cartridges. It is paired with a specific slide for dispensing adhesives with the correct mixing ratio.

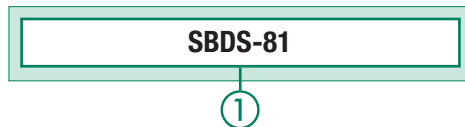


Required Accessories

- Dispenser Slide, Mixing Tip

Dispenser Slide Type SBDS-81

Ordering Code



① Type

Dispenser Slide **SBDS-81**

Characteristics

The STAUFF Dispenser Slide is used in combination with the Manual Adhesive Dispenser and provides the required mixing ratio for the dispensing adhesives.

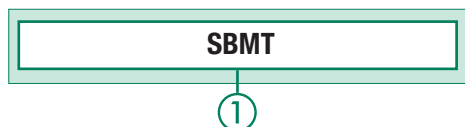


Required Accessories

- Adhesive Dispenser, Mixing Tip

Mixing Tip Type SBMT

Ordering Code



① Type

Mixing Tip **SBMT**

Characteristics

The STAUFF Mixing Tip is designed to twist and lock onto the end of the adhesive cartridge. It does not only provide proper interleaving of pre-portioned components but additionally pre-phasing to ensure optimum mix uniformity.

To prevent pre-mix of the adhesive, the tip integrates a barrier separating the individual adhesive components until they reach the integral mixer. If open time of adhesive in the mixing tip exceeds the adhesive pot life, the adhesive will become cured in the tip, preventing further dispensing. Removal of the used tip and replacement with a fresh tip is as simple as twisting to remove the cured tip, wiping off the end of the cartridge, and twisting a new tip in place.



Standard packaging unit: 50 pcs.

Required Accessories

- Adhesive Dispenser, Dispenser Slide







Machined Versions

104



Injection Moulded Version

106



Metal Versions and Accessories

107

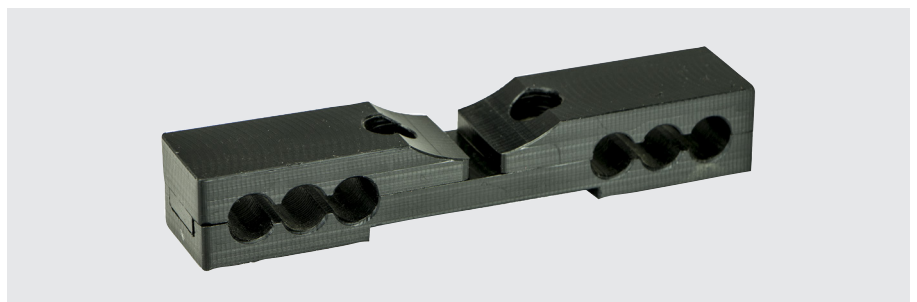
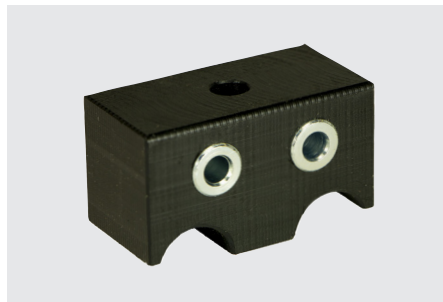
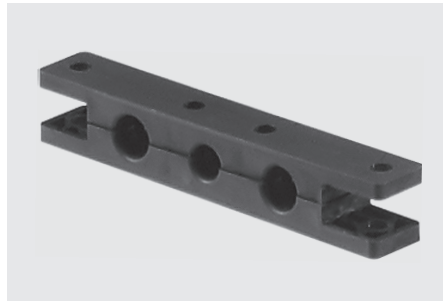
Enquiry Form for Custom-Designed Special Clamps

108



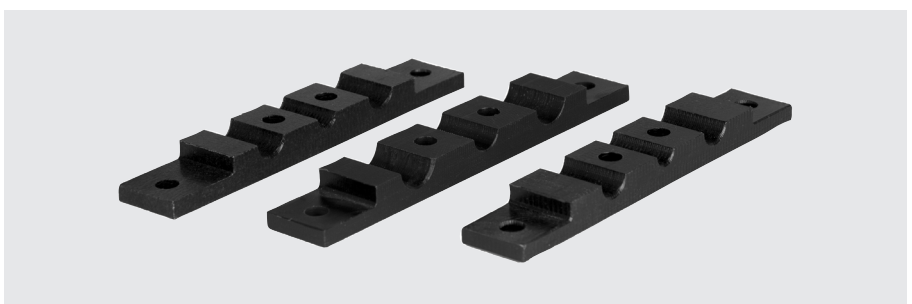
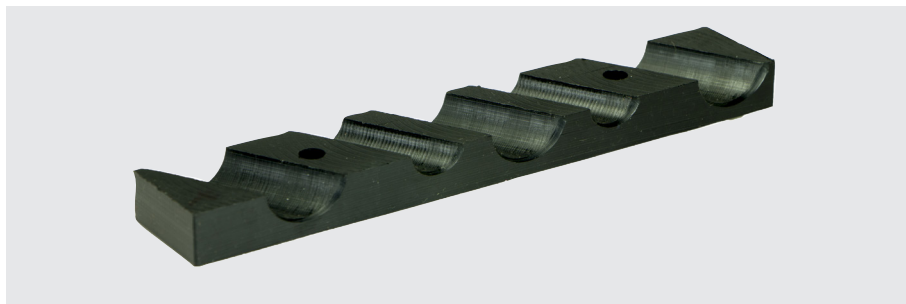
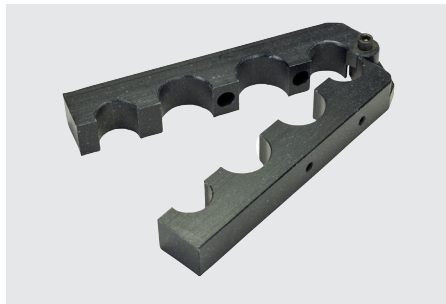
Machined Versions

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.



H



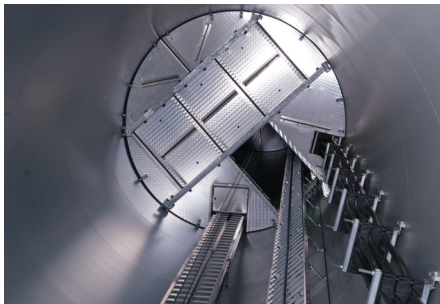


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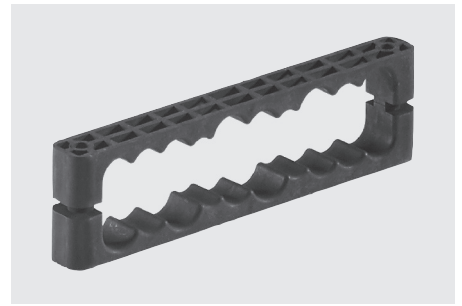
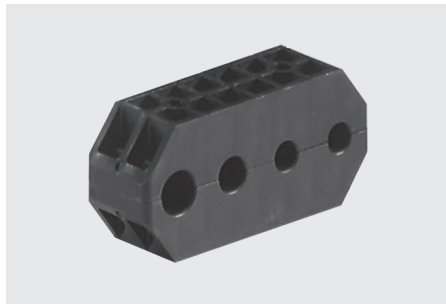
Injection Moulded Versions (Flexi Clamps)

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.

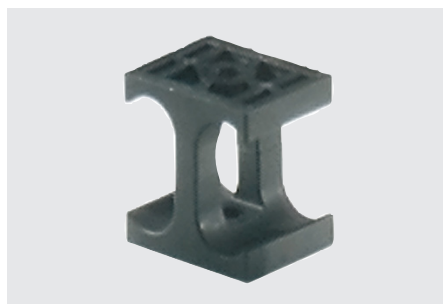


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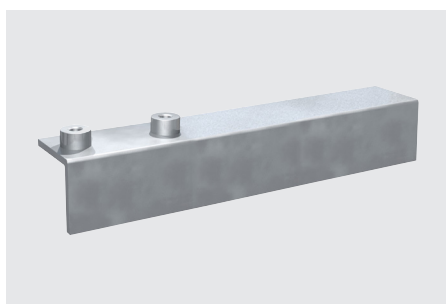


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Metal Versions and Accessories

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.



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

quantities 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 _____

H

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 _____

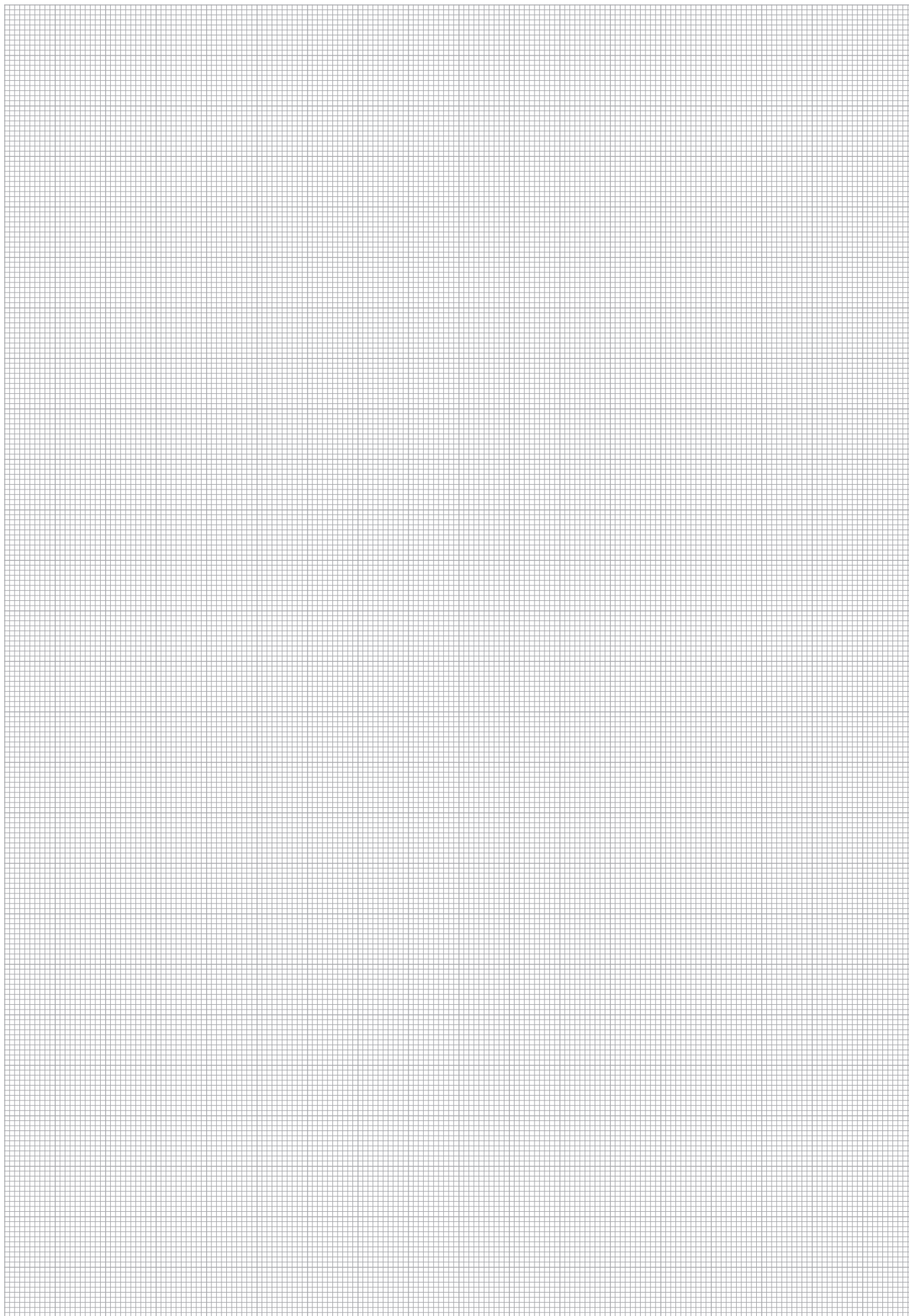
Information on Mounting Hardware

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
















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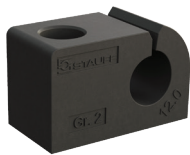




	Clamp Body - Single Design LBBU	112
	Clamp Body - Twin Design LBBU	113
	Weld Plate LBBU-SP	114
	Sleeve LBBU-HUE	114
	Cover Plate LBBU-DP	115
	Hexagon Head Bolt AS	115
	Clamp Body - Single Design LB	116
	Clamp Body - Twin Design LBG / LBU	117
	Clamp Body - Single Design LN	118
	Clamp Body - Twin Design LNGF / LNUF	119
	Cover Plate DPL	119



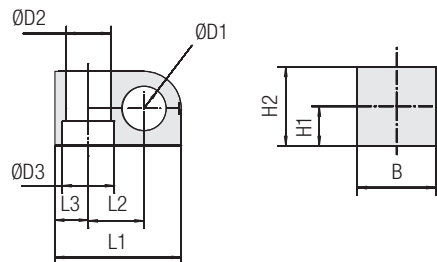
Clamp Body - Single Design Type LBBU



Size 2 in slotted design



Size 1 and 3 with film hinge



Ordering Codes

Clamp Body *LBBU-*1*06-*SA-*M8/U5/16

- * Light Series LBBU LBBU
- * STAUFF Group 1
- * Exact outside diameter Ø D1 (mm) 06
- * Material code (see below) SA
- * Thread code (suitable for bolts M8 and U5/16) M8/U5/16

Standard Materials



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

See pages 154 / 155 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 Pipe / Tube / Hose Ø D1		Nominal Bore Pipe (in)	Ordering Codes (1 Clamp Body)	Dimensions (mm/in)											
	(mm)	(in)			Ø D2	Ø D3	L1	L2	L3	H1	H2	B				
1	6			LBBU-106-SA-M8/U5/16												
	6,4	1/4		LBBU-106.4-SA-M8/U5/16												
	8	5/16		LBBU-108-SA-M8/U5/16												
	9,5	3/8		LBBU-109.5-SA-M8/U5/16	12	14	34	15	9	10	20	20				
	10		1/8	LBBU-110-SA-M8/U5/16	.47	.55	1.34	.59	.35	.39	.79	.79				
	11			LBBU-111-SA-M8/U5/16												
	12			LBBU-112-SA-M8/U5/16												
	12,7	1/2		LBBU-112.7-SA-M8/U5/16												
	2	10		1/8	LBBU-210-SA-M8/U5/16											
		11			LBBU-211-SA-M8/U5/16											
12				LBBU-212-SA-M8/U5/16												
12,7		1/2		LBBU-212.7-SA-M8/U5/16												
13,5			1/4	LBBU-213.5-SA-M8/U5/16												
14				LBBU-214-SA-M8/U5/16	20	14	39	18	9	12	24	20				
15				LBBU-215-SA-M8/U5/16	.47	.55	1.54	.71	.35	.47	.94	.79				
16		5/8		LBBU-216-SA-M8/U5/16												
17,2			3/8	LBBU-217.2-SA-M8/U5/16												
18				LBBU-218-SA-M8/U5/16												
3	19	3/4		LBBU-219-SA-M8/U5/16												
	20			LBBU-220-SA-M8/U5/16												
	21,3			LBBU-321.3-SA-M8/U5/16												
	22	7/8		LBBU-322-SA-M8/U5/16												
	23			LBBU-323-SA-M8/U5/16												
	25			LBBU-325-SA-M8/U5/16	12	14	57,5	23,5	15	20	40	30				
	25,4	1		LBBU-325.4-SA-M8/U5/16	.47	.55	2.26	.93	.59	.79	1.57	1.18				
	28			LBBU-328-SA-M8/U5/16												
	30			LBBU-330-SA-M8/U5/16												
	32	1-1/4		LBBU-332-SA-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-SA-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-SA-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)

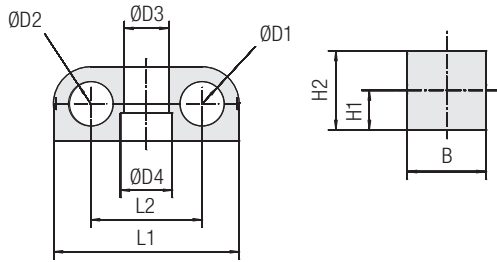
- Clamp assembly consisting of:
- 1 Hexagon Head Bolt AS
 - 1 Cover Plate LBBU-DP
 - 1 Sleeve LBBU-HUE
 - 1 Clamp Body LBBU

Order Code
LBBU-PM-322-SA-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.



**Clamp Body - Twin Design
Type LBBU**


Size 1 and 3 with film hinge



Size 2 in slotted design

Group	Outside Diameters Pipe / Tube / Hose Ø D1 / Ø D2	Nominal Bore Pipe	Ordering Codes (1 Clamp Body)	Dimensions (mm/in)								
				Ø D3	Ø D4	L1	L2	H1	H2	B		
1D	4		LBBU-104/04-SA-M8/U5/16									
	6		LBBU-106/06-SA-M8/U5/16									
	6,4	1/4	LBBU-106.4/06.4-SA-M8/U5/16									
	8	5/16	LBBU-108/08-SA-M8/U5/16									
	9,5	3/8	LBBU-109.5/09.5-SA-M8/U5/16	12	14	50	30	10	20	20		
	10		LBBU-110/10-SA-M8/U5/16	.47	.55	1.97	1.18	.39	.79	.79		
	11		LBBU-111/11-SA-M8/U5/16									
	12		LBBU-112/12-SA-M8/U5/16									
	12,7	1/2	LBBU-112.7/12.7-SA-M8/U5/16									
	10		LBBU-210/10-SA-M8/U5/16									
2D	11	1/8	LBBU-211/11-SA-M8/U5/16									
	12		LBBU-212/12-SA-M8/U5/16									
	12,7	1/2	LBBU-212.7/12.7-SA-M8/U5/16									
	13,5	1/4	LBBU-213.5/13.5-SA-M8/U5/16									
	14		LBBU-214/14-SA-M8/U5/16	12	14	59	35	12	24	20		
	15		LBBU-215/15-SA-M8/U5/16	.47	.55	2.32	1.38	.47	.94	.79		
	16	5/8	LBBU-216/16-SA-M8/U5/16									
	17,2		LBBU-217.2/17.2-SA-M8/U5/16									
	18		LBBU-218/18-SA-M8/U5/16									
	19	3/4	LBBU-219/19-SA-M8/U5/16									
3D	20		LBBU-220/20-SA-M8/U5/16									
	21,3		LBBU-321.321.3-SA-M8/U5/16									
	22	7/8	LBBU-322/22-SA-M8/U5/16									
	23		LBBU-323/23-SA-M8/U5/16									
	25		LBBU-325/25-SA-M8/U5/16	12	14	86	47	20	40	30		
	25,4	1	LBBU-325.4/25.4-SA-M8/U5/16	.47	.55	3.39	1.85	.79	1.57	.79		
	28		LBBU-328/28-SA-M8/U5/16									
	30		LBBU-330/30-SA-M8/U5/16									
32	1-1/4	LBBU-332/32-SA-M8/U5/16										

Ordering Codes
Clamp Body *LBBU-*1*06/06-*SA-*M8/U5/16

- * Light Series LBBU LBBU
- * 1st Part of STAUFF Group 1
- * Exact outside diameters Ø D1 / Ø D2 (mm) 06/06
- * Material code (see below) SA
- * Thread code (suitable for bolts M8 and U5/16) M8/U5/16

Standard Materials


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

See pages 154 / 155 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

Additional outside diameters and combinations of different 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-322/22-SA-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-322/22-SA-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

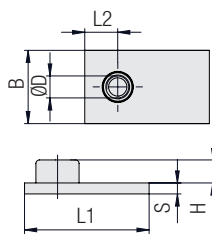
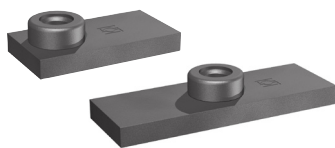
Order Code
LBBU-PM-322/22-SA-DP-AS-M8-W3

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.

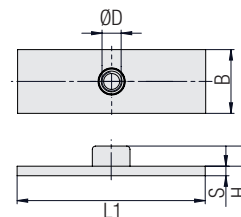
Alternative sizes (e.g. for bolts M6 and 1/4–20 UNC), materials and surface finishings are available upon request.



Weld Plate Type LBBU-SP



STAUFF Group 1 to 3



STAUFF Group 1D to 3D

Ordering Codes

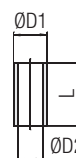
Weld Plate ***LBBU-SP-*1D-*M8-*W2**

* 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	

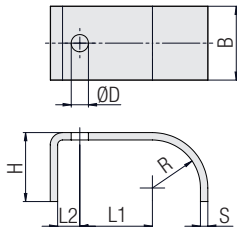
Group STAUFF	Dimensions (mm/in)			Ordering Codes (Standard Options)
	ØD1	ØD2	L	
1	12	9	12,8	LBBU-HUE-1/1D-SM-M8/U5/16-W3
	.47	.35	.50	
2	12	9	16,8	LBBU-HUE-2/2D-SM-M8/U5/16-W3
	.47	.35	.66	
3	12	9	32,8	LBBU-HUE-3/3D-SM-M8/U5/16-W3
	.47	.35	1.29	
1D	12	9	12,8	LBBU-HUE-1/1D-SM-M8/U5/16-W3
	.47	.35	.50	
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	

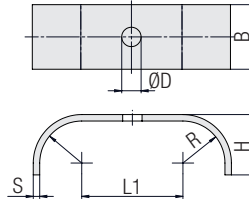
Alternative sizes (e.g. for bolts M6 and 1/4-20 UNC), materials and surface finishings are available upon request.



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		

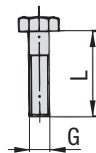
Ordering Codes

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

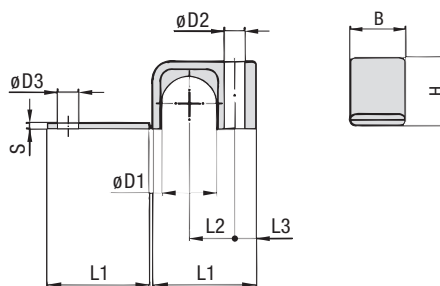
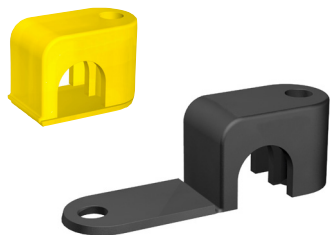
Hexagon Head Bolt *AS-*M8x25-*W3

- * 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 154 / 155 for material properties and technical information.

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

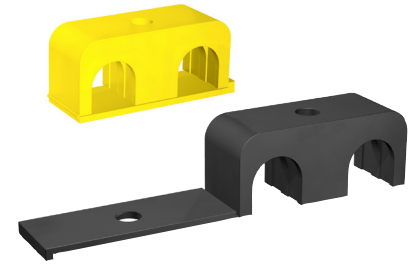
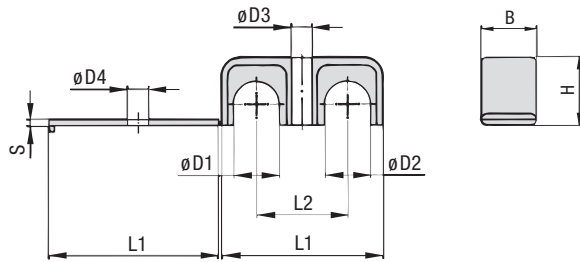
Applications

- Pneumatics, Instrumentation and Automotive Technology, Machine Tool Industry, Lubrication, Mechanical Engineering

Group	Outside Diameter Pipe / Tube / Hose		Nominal Bore Pipe (in)	Ordering Codes (1 Clamp Body) (** = Material)	Dimensions (mm/in)								
	Ø D1 (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	
3	12			LB-212-**-**									
	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	
4	17,2		3/8	LB-317.2-**-**									
	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 (in)	Ordering Codes (1 Clamp Body) (** = Material)	Dimensions (mm/in)						
	Pipe / Tube / Hose Ø D1 / Ø D2 (mm)	(in)			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 154 / 155 for material properties and technical information.

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

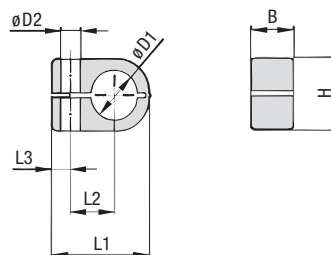
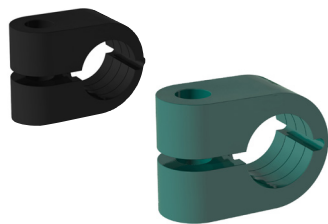
Applications

- 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 154 / 155 for material properties and technical information.

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

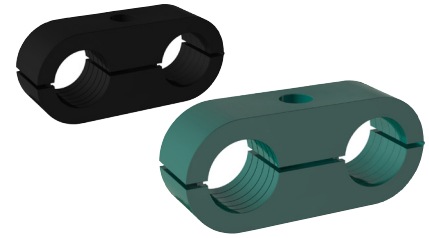
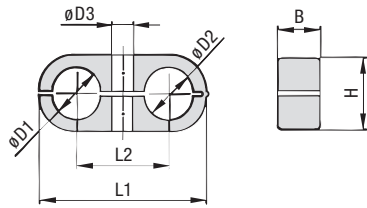
Applications

- 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	.59	.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**

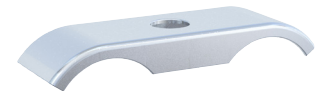
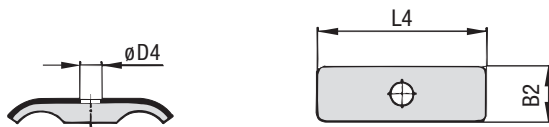
Standard Materials
Polypropylene
 Colour: Green
 Material code: **PP**
Polyamide
 Colour: Black
 Material code: **PA**

See pages 154 / 155 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

122

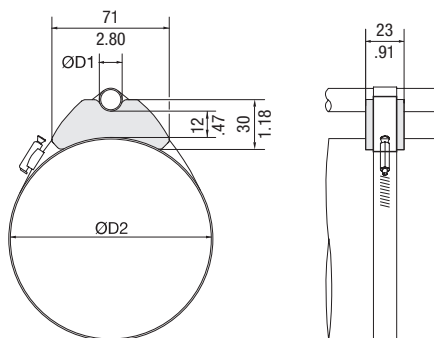


Custom-Designed Saddle / Piggyback Clamps

122



Saddle / Piggyback Clamps
Type ZR



Order Code

Saddle Clamp

ZR-518-SA73-BK

Standard Material



Thermoplastic Elastomer (73 Shore-A)
Colour: Black

See pages 154 / 155 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 material 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.

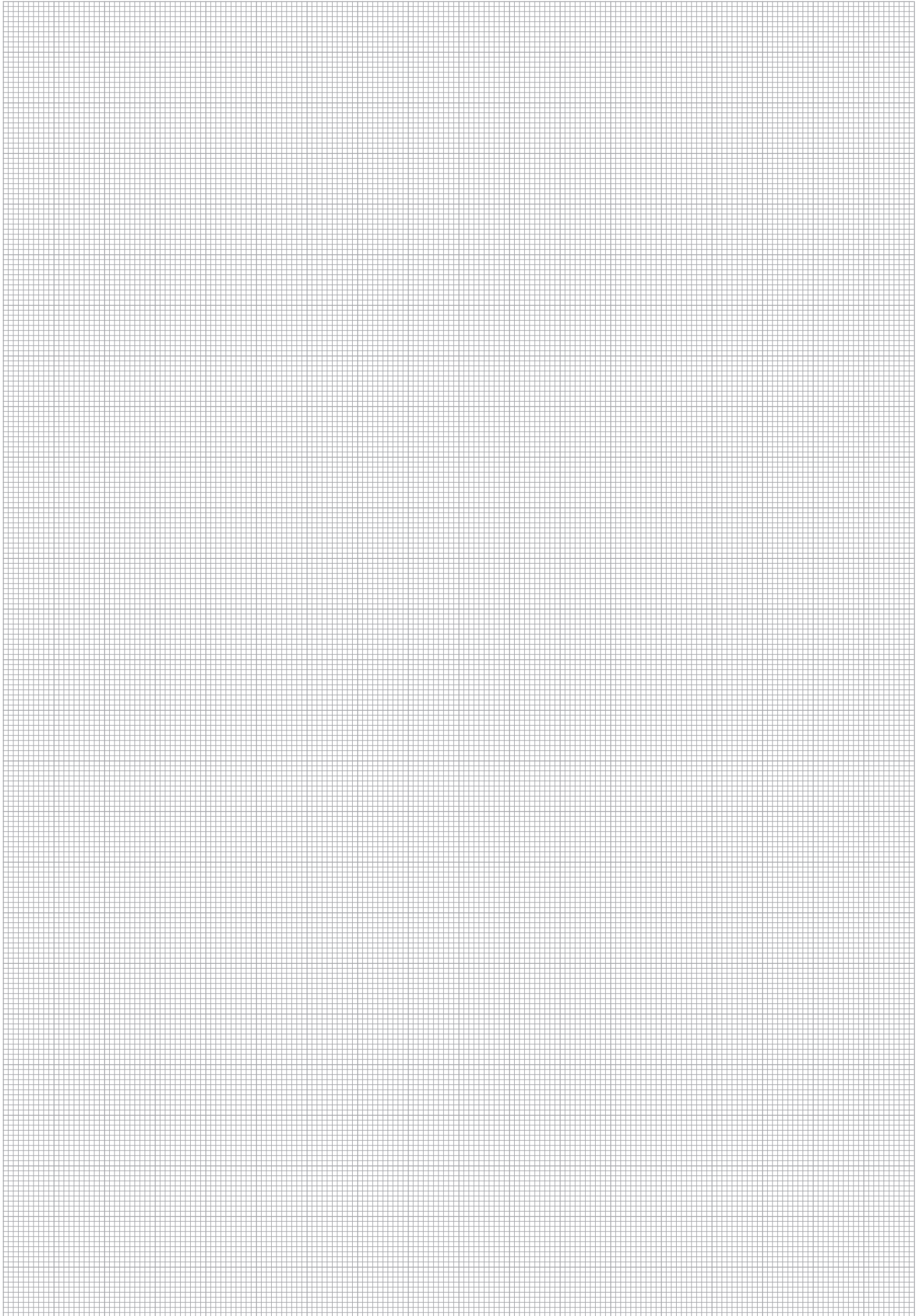
If required, customised clamps can be developed for specific requirements or manufactured based on drawings and models provided.

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

126



**Round Steel U-Bolt
with Plastic Pipe Saddle (Short)**
RB / RUK

128



**Round Steel U-Bolt
with Plastic Pipe Saddle (Long)**
RB / RUL

130

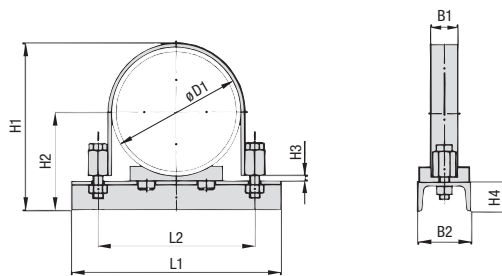
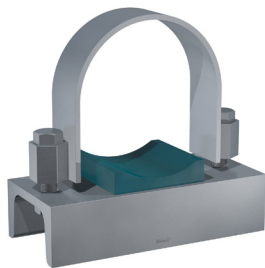


**Round Steel U-Bolt (DIN 3570, Type A)
without Plastic Pipe Saddle**
RBD

132



**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-*W1

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 Carbon Steel, uncoated **W1**
Carbon Steel, zinc-plated, blue-chromated **W33**
Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti) **W5**

Please note: The U-Profile (to DIN 1026) is made of Carbon Steel, uncoated. 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 154 / 155 for material properties and technical information.

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

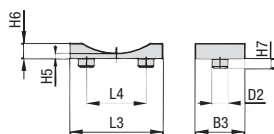
Applications

- 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

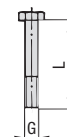
Diameter Nominal DN	Outside Diameter Pipe / Tube Ø D1 (mm) (in)		Nominal Bore Pipe (in)	Dimensions (mm/m)						U-Profile (DIN 1026) B2 x H4
	Flat Steel U-Bolt (Type FB)									
				L1	L2	H1	H2	H3	B1	
40	48,3	1.93	1-1/2	100	76	95	67	5	20 x 3	50 x 38
				3.94	2.99	3.74	2.64	.20	.78 x .12	1.97 x 1.50
50	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	8	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.

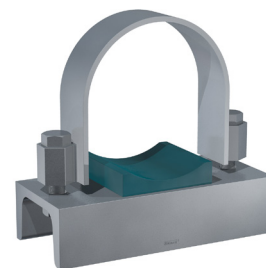


**Flat Steel U-Bolt with Plastic Pipe Saddle (Short) and U-Profile
(To be used as Fixed Point Clamps only) Type FB+RUK**

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	

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

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 non-assembled.

Standard Materials for Plastic Pipe Saddles
Polypropylene
 Colour: Green
 Material code: **PP**
Polyamide
 Colour: Black
 Material code: **PA**

See pages 154 / 155 for material properties and technical information.

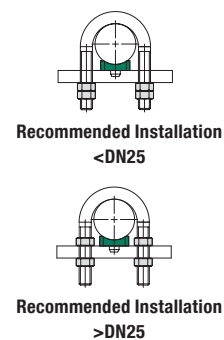
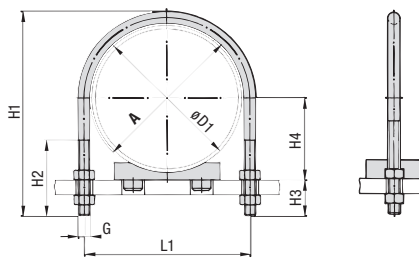
Alternative materials are available upon request. Please contact STAUFF for further information.

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



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 154 / 155 for material properties and technical information.

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

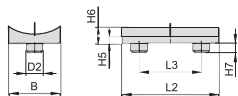
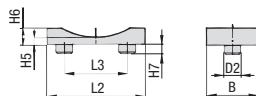
Applications

- 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	M10
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	M10
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	M10
40	44,5	1.76		52	62	100	55	35	27,2	M10
	48,3	1.90	1-1/2	2.05	2.20	3.50	1.89	1.18	1.03	M10
50	57	2.28		64	62	100	55	35	29	M10
	60,3	2.41	2	2.52	2.44	3.94	2.17	1.38	1.14	M10
65	76,1	3.04	2-1/2	82	76	118	63	39	33,5	M12
	80	3.56	3	94	2.99	4.65	2.48	1.54	1.32	M12
100	108	4.32		120	76	118	63	39	35,2	M12
	114,3	4.57	4	4.72	2.99	4.65	2.48	1.54	1.39	M12
125	133	5.32		148	94	135	77	39	43	M12
	139,7	5.59	5	5.83	3.23	3.70	5.31	3.03	1.54	1.69
150	159	6.36		176	106	152	82	41	52,5	M12
	168,3	6.73	6	6.93	4.17	5.98	3.23	1.61	2.07	M12
175	193,7	7.75		202	136	190	105	49	62	M16
	200	8.64		228	5.35	7.48	4.13	1.93	2.44	M16
200	219,1	8.76	8	8.98	136	190	105	49	65	M16
	250	10.68		282	5.35	7.48	4.13	1.93	2.56	M16
250	273	10.92	10	11.10	164	217	105	49	74,5	M16
	300	12.72		332	6.46	8.54	4.13	1.93	2.93	M16
300	323,9	12.96	12	13.07	164	217	105	49	78	M16
	350	14.22	14	14.88	6.46	8.54	4.13	1.93	3.07	M16
350	355,6	14.22	14	378	192	247	105	51	87,5	M16
	368	14.72		428	7.56	9.72	4.13	2.01	3.44	M16
400	406,4	16.26	16	428	192	247	105	51	92	M16
	419	16.76		530	7.56	9.72	4.13	2.01	3.62	M16
500	508	20.32	20	530	218	273	105	51	105	M16
	521	20.84		587	8.58	10.75	4.13	2.01	4.13	M16
500	587	23.11		628	248	311	125	59	116	M20
	600	23.62		678	9.76	12.24	4.92	2.32	4.57	M20
600	635	25.00		728	248	311	125	59	117,5	M20
	650	25.59		778	9.76	12.24	4.92	2.32	4.63	M20
700	711	27.99		828	303	364	125	59	141,5	M20
	730	28.74		878	11.93	14.33	4.92	2.32	5.57	M20
700	762	30.00		928	302	364	125	59	144,5	M20
	780	30.72		978	11.89	14.33	4.92	2.32	5.69	M20
800	812	31.97		1028	352	418	125	62	167	M20
	830	32.68		1078	13.86	16.46	4.92	2.44	6.57	M20
900	914	35.98		1178	352	418	125	62	170	M20
	930	36.61		1228	13.86	16.46	4.92	2.44	6.69	M20
1000	1016	40.00		1328	402	475	145	70	186	M24
	1030	40.94		1378	15.83	18.70	5.71	2.76	7.32	M24
1000	1060	41.73		1428	402	475	145	70	192	M24
	1080	42.52		1478	15.83	18.70	5.71	2.76	7.56	M24
1200	1219	47.99		1628	452	526	145	70	211	M24
	1230	48.43		1678	17.80	20.71	5.71	2.76	8.31	M24
1200	1260	49.61		1728	452	526	145	70	217,5	M24
	1280	50.39		1778	17.80	20.71	5.71	2.76	8.56	M24
1500	1524	59.99		1978	554	627	145	70	262	M24
	1540	60.63		2028	21.81	24.69	5.71	2.76	10.31	M24
1500	1570	61.81		2078	554	627	145	70	269	M24
	1590	62.60		2128	21.81	24.69	5.71	2.76	10.59	M24

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 (mm) (in)		Nominal Bore Pipe (in)	Dimensions (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	.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	.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	.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	.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	.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	.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	.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	.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	.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	.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	.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	.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	.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	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	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	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	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 154 / 155 for material properties and technical information.

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

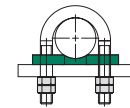
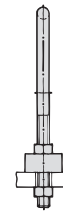
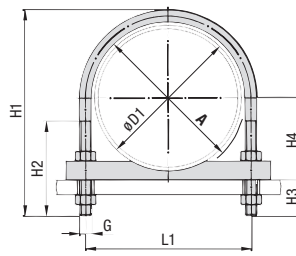
Applications

- 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

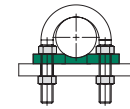
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



Round Steel U-Bolt with Plastic Pipe Saddle (Long) Type RB+RUL



Recommended Installation
<DN50



Recommended Installation
>DN50

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 154 / 155 for material properties and technical information.

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

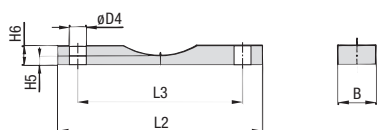
Applications

- 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	9.76	12.24	4.92	2.17	120	
300	318	12.72		332	303	364	125	55	121,5	M20
	323,9	12.96	12	13.07	9.76	12.24	4.92	2.17	4.78	
350	355,6	14.22	14	378	352	418	125	55	145,5	M20
	368	14.72		14.88	11.93	14.33	4.92	2.17	5.73	
400	406,4	16.26	16	428	302	364	125	55	148,5	M20
	419	16.76		16.85	11.89	14.33	4.92	2.17	5.85	
500	508	20.32	20	530	352	418	125	55	174	M20
	521	20.84		20.87	13.86	16.46	4.92	2.17	6.85	
500	508	20.32	20	530	402	475	145	63	193	M24
	521	20.84		20.87	15.83	18.70	5.71	2.48	7.60	
500	508	20.32	20	530	402	475	145	63	199	M24
	521	20.84		20.87	15.83	18.70	5.71	2.48	7.83	
500	508	20.32	20	530	452	526	145	63	218	M24
	521	20.84		20.87	17.80	20.71	5.71	2.48	8.58	
500	508	20.32	20	530	452	526	145	63	224,5	M24
	521	20.84		20.87	17.80	20.71	5.71	2.48	8.84	
500	508	20.32	20	530	554	627	145	63	269	M24
	521	20.84		20.87	21.81	24.69	5.71	2.48	10.59	
500	508	20.32	20	530	554	627	145	63	276	M24
	521	20.84		20.87	21.81	24.69	5.71	2.48	10.87	

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)						
	(mm)	(in)		Plastic Pipe Saddle (Type RUL)						
				A	L2	L3	B	H5	H6	Ø D4
20	25	.98		30	75	40	30	5	12	11
	26,9	1.06	3/4	1.18	2.95	1.57	1.18	.20	.47	.43
25	30	1.18		38	80	48	30	5	12	11
	33,7	1.33	1	1.50	3.15	1.89	1.18	.20	.47	.43
32	38	1.50		46	90	56	30	5	12	11
	42,4	1.69	1-1/4	1.81	3.54	2.20	1.18	.20	.47	.43
40	44,5	1.76		52	95	62	35	5	15	11
	48,3	1.90	1-1/2	2.05	3.74	2.44	1.38	.20	.59	.43
50	57	2.28		64	110	76	35	5	15	14
	60,3	2.41	2	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		120	190	136	40	10	20	18
	114,3	4.57	4	4.72	7.48	5.35	1.57	.39	.79	.71
125	133	5.32		148	190	136	40	10	20	18
	139,7	5.59	5	5.83	7.48	5.35	1.57	.39	.79	.71
150	159	6.36		176	220	164	40	10	20	18
	168,3	6.73	6	6.93	8.66	6.46	1.57	.39	.79	.71
175	193,7	7.75		202	250	192	50	12	25	18
				7.96	9.84	7.56	1.97	.47	.98	.71
200	216	8.64		228	250	192	50	12	25	18
	219,1	8.76	8	8.98	9.84	7.56	1.97	.47	.98	.71
250	267	10.68		282	270	218	50	12	25	18
	273	10.92	10	11.10	10.63	8.58	1.97	.47	.98	.71
300	318	12.72		332	315	248	50	12	25	22
	323,9	12.96	12	13.07	12.40	9.76	1.97	.47	.98	.87
350	355,6	14.22	14	378	315	248	50	12	25	22
	368	14.72		14.88	12.40	9.76	1.97	.47	.98	.87
400	406,4	16.26	16	428	370	302	50	12	25	22
	419	16.76		16.85	14.57	11.89	1.97	.47	.98	.87
500	508	20.32	20	530	420	352	60	15	30	22
	521	20.84		20.87	16.54	13.86	2.36	.59	1.18	.87
					480	402	60	15	30	26
					18.90	15.83	2.36	.59	1.18	1.02
					480	402	60	15	30	26
					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
					540	452	60	15	30	26
					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 154 / 155 for material properties and technical information.

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

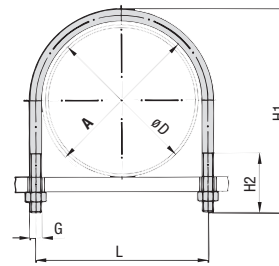
Applications

- 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 **W5**
1.4401 / 1.4571 (AISI 316 / 316 Ti)

Please note: All items are supplied non-assembled.

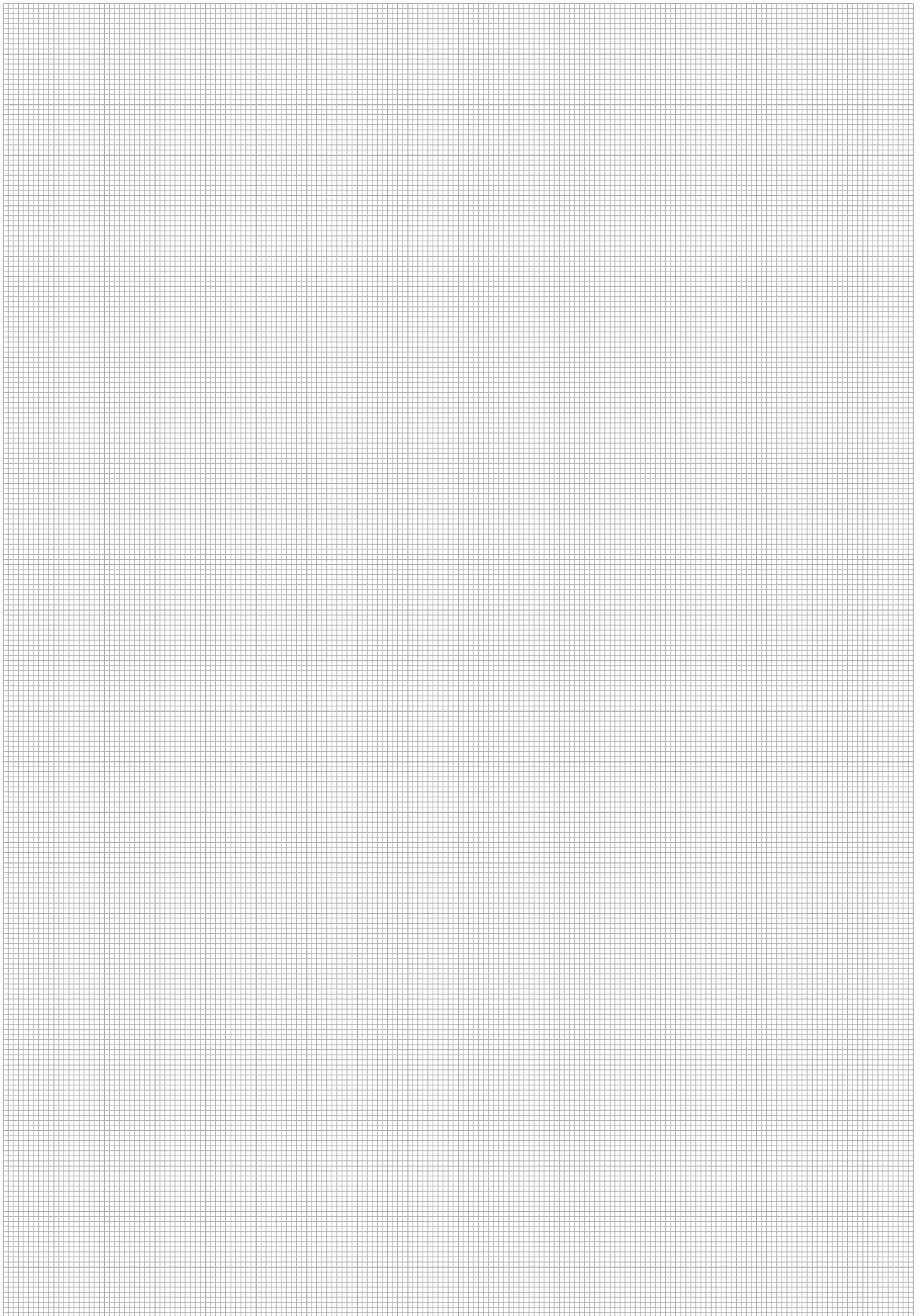
Applications

- 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 1.57	70 2.76	40 1.57	M10
	26,9	1.06	3/4	1.18	40 1.57	70 2.76	40 1.57	M10
25	30	1.18		38	48 1.89	76 2.99	40 1.57	M10
	33,7	1.33	1	1.50	48 1.89	76 2.99	40 1.57	M10
32	38	1.50		46	56 2.20	86 3.39	50 1.97	M10
	42,4	1.69	1-1/4	1.81	56 2.20	86 3.39	50 1.97	M10
40	44,5	1.76		52	62 2.44	92 3.62	50 1.97	M10
	48,3	1.90	1-1/2	2.05	62 2.44	92 3.62	50 1.97	M10
50	57	2.28		64	76 2.99	109 4.29	50 1.97	M12
	60,3	2.41	2	2.52	76 2.99	109 4.29	50 1.97	M12
65	76,1	3.04	2-1/2	82 3.23	94 3.70	125 4.92	50 1.97	M12
80	88,9	3.56	3	94 3.70	106 4.17	138 5.43	50 1.97	M12
100	108	4.32		120	136 5.35	171 6.73	60 2.36	M16
	114,3	4.57	4	4.72	136 5.35	171 6.73	60 2.36	M16
125	133	5.32		148	164 6.46	191 7.52	60 2.36	M16
	139,7	5.59	5	5.83	164 6.46	191 7.52	60 2.36	M16
150	159	6.36		176	192 7.56	217 8.54	60 2.36	M16
	168,3	6.73	6	6.93	192 7.56	217 8.54	60 2.36	M16
175	193,7	7.75		202	218 7.96	249 9.80	60 2.36	M16
200	216	8.64		228	248 9.76	283 11.14	70 2.76	M20
	219,1	8.76	8	8.98	248 9.76	283 11.14	70 2.76	M20
250	267	10.68		282	303 11.93	334 13.15	70 2.76	M20
	273	10.92	10	11.10	302 11.89	334 13.15	70 2.76	M20
300	318	12.72		332	352 13.86	385 15.16	70 2.76	M20
	323,9	12.96	12	13.07	352 13.86	385 15.16	70 2.76	M20
350	355,6	14.22	14	378	402 15.83	435 17.13	70 2.76	M24
	368	14.72		14.88	402 15.83	435 17.13	70 2.76	M24
400	406,4	16.26	16	428	452 17.80	487 19.17	70 2.76	M24
	419	16.76		16.85	452 17.80	487 19.17	70 2.76	M24
500	508	20.32	20	530	554 21.81	589 23.19	70 2.76	M24
	521	20.84		20.87	554 21.81	589 23.19	70 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

136



**Metal Pipe Clamp with Tension Clearance
Three-Bolt Design (Extended to One Side)**
DIN 3567-B

137



**Heavy Saddle with Tension Clearance
Single-Bolt Design**
DIN 1592

138



**Heavy Saddle with Tension Clearance
Two-Bolt Design**
DIN 1593

139



**Light Saddle with Tension Clearance
Single-Bolt Design**
DIN 1596

140



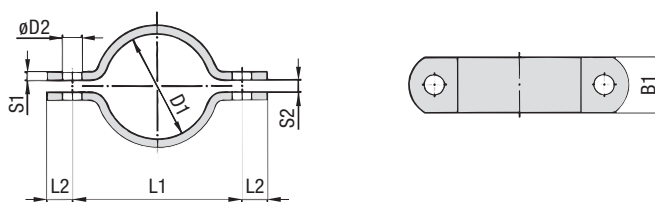
**Light Saddle with Tension Clearance
Two-Bolt Design**
DIN 1597

141

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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.

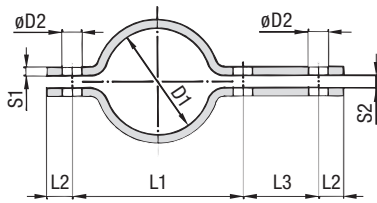
Applications

- 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	Hexagon Head Bolts (Hexagon Head Nuts)
Ø D1	(mm)								
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	
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	M12 x 35 (M12)	7/16-14 UNC x 1-3/8 (7/16-14 UNC)
			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.

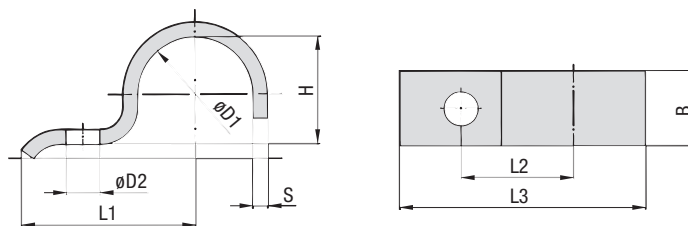
Applications

- 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)

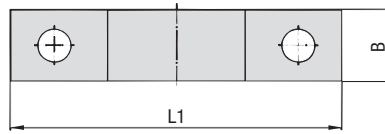
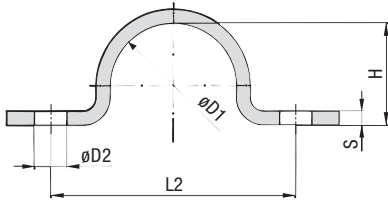
STAUFF Group	Diameter Range		Dimensions (mm/in)						
	Ø D1 (mm)	(in)	L1	L2	L3	H	D2	B	S
7	5,5 ... 7	.2228	22	14	27,5	5	6,6	16	2
			.87	.55	1.08	.20	.26	.63	.08
9	7 ... 9	.2835	27	18	33,5	6	6,6	20	2
			1.06	.71	1.32	.24	.26	.79	.08
13	9,5 ... 13	.3951	40	25	49,5	9	11	25	3
			1.57	.98	1.95	.35	.43	.98	.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

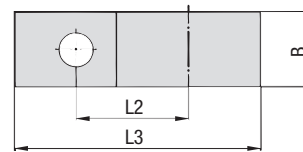
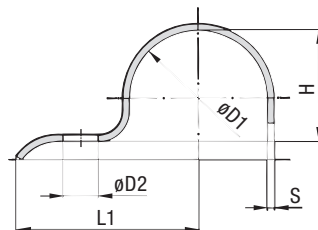
Applications

- 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 **W5**
 1.4401 / 1.4571 (AISI 316 / 316 Ti)

Applications

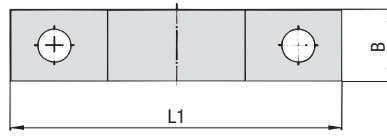
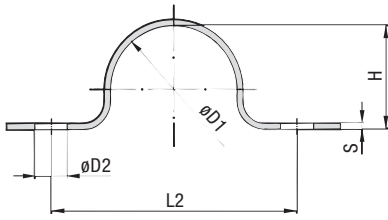
- Installation of pipes, tubes, poles and other round components directly on the substrate (floor, wall or ceiling)

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
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	Carbon Steel, uncoated	W1
	Carbon Steel, zinc-plated and thick-film passivated	W66
	Stainless Steel V4A	W5
	1.4401 / 1.4571 (AISI 316 / 316 Ti)	

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

144



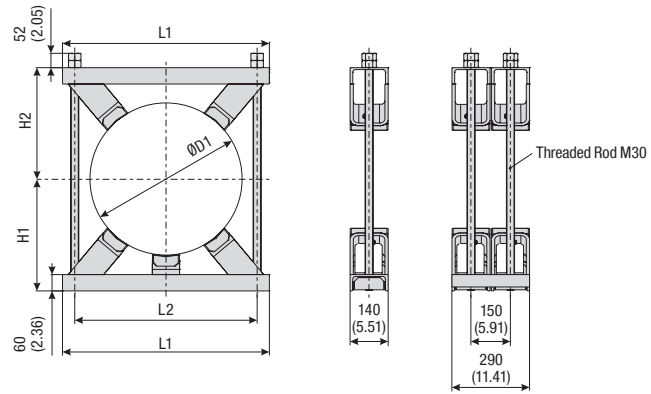
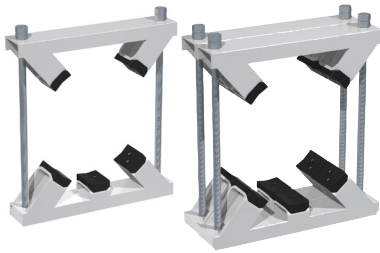
**Construction Series
(for Anchor Bolt Fastening)**

KSV / DKSV

145



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



See pages 154 / 155 for material properties and technical information.

Group	Outside Diameter ØD1 Pipe / Tube Diameter Range		Standard Diameters		Dimensions (mm/in)				No. of Plastic Pads		
	STAUFF	(mm)	(in)	(mm)	(in)	L1	L2	H1		H2	
1	220 ... 275	8.66 ... 10.85	220	8.66	420	16.54	330	12.99	220	8.66	4
			247	9.72							
			267	10.51							
			273	10.75							
			280	11.02							
2	276 ... 325	10.87 ... 12.80	300	11.81	460	18.11	370	14.57	240	9.45	4
			318	12.52							
			323,9	12.75							
			355,6	14.00							
3	326 ... 370	12.83 ... 14.57	368	14.49	510	20.08	420	16.53	260	10.23	4
			390	15.35							
4	371 ... 425	14.61 ... 16.73	406,4	16.00	570	22.44	480	18.89	290	11.42	4
			457,2	18.00							
5	426 ... 485	16.77 ... 19.09	470	18.50	620	24.41	530	20.87	305	12.01	4
			490	19.29							
6	486 ... 550	19.13 ... 21.65	508	20.00	680	26.77	590	23.23	370	14.57	4
			521	20.51							
			546	21.50							
			558,8	22.00							
7	551 ... 630	21.69 ... 24.80	609,6	24.00	760	29.92	670	26.38	410	16.14	5
			711	28.00							
8	631 ... 715	24.84 ... 28.15	845	33.27	755	29.72	452	17.80	452	17.80	5
			940	37.00							
9	716 ... 800	28.19 ... 31.50	850	33.46	940	37.00	850	33.46	495	19.49	5
			990	38.97							
10			900	35.43	1200	47.24	1100	43.30	591,5	23.29	5
			1000	39.37							
11			1016	40.00	1200	47.24	1100	43.30	602	23.70	5
			1016	40.00							

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

Dimensional drawings: All dimensions in mm (in).

M







Cushion Clamp Series

STC / SPC

148



Channel Rail

SCS

149



Compact Twin Series

DS

150



Agriculture Twin Series

AG

150



Pipe / Tube Bushing

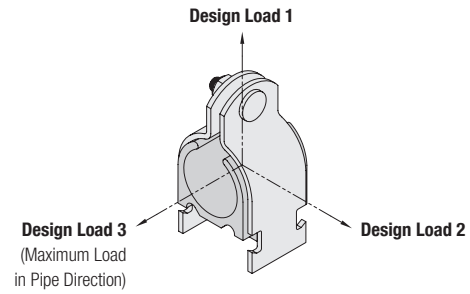
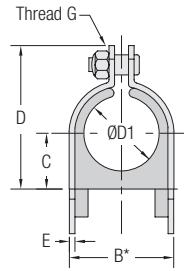
RF

151



Clamp Assembly - Types STC / SPC

(for Use with Channel Rail SCS)



Outside Diameter Pipe / Tube / Hose Ø D1 (mm)	Nominal Bore Pipe (in)	Ordering Codes (1 Clamp Assembly) (*** = Material Code)	Standard Packaging Units pcs.	Dimensions (mm/in)					Design Loads (kN/psi)		
				B*	C	D	E	Thread G	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

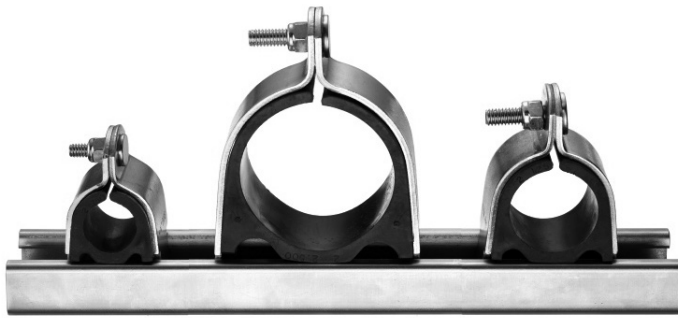
* Minimum required for installation.

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.

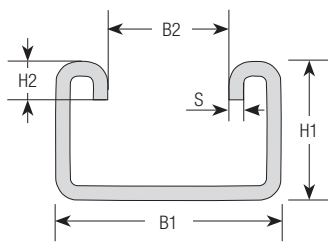
Product Features

- 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 Stainless Steel V2A 1.4301 (AISI 304) Stainless Steel V4A 1.4401 (AISI 316)	W32 W4 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.

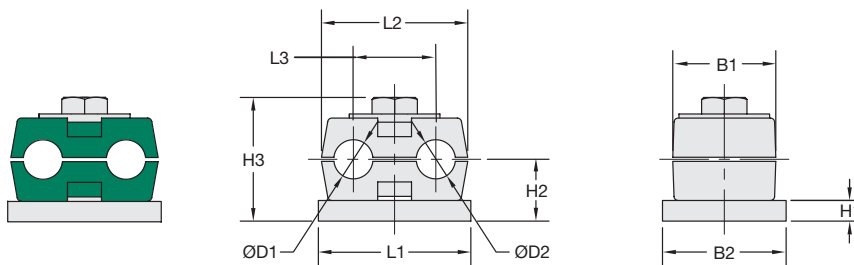
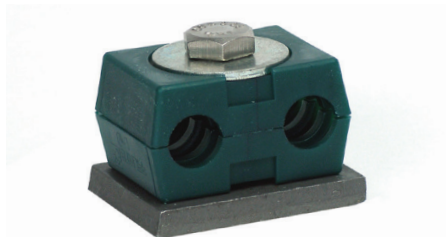
Ordering Codes

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 Carbon Steel, green painted	PL GR

N



Compact Twin Series: Clamp Body Type DS



Ordering Codes

Clamp Body *1-*06/06-*PP-*DS

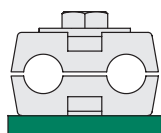
One clamp body is consisting of two clamp halves.

- * 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										

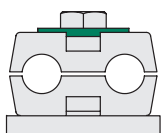
Additional outside diameters are available upon request. Please contact STAUFF for further information.

Compact Twin Series: Metal Hardware



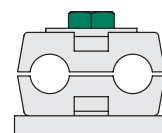
Weld Plate, Type SP-DS

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

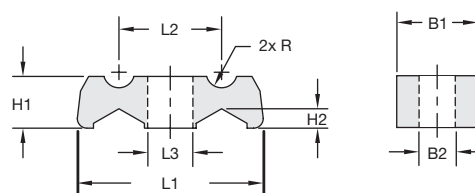
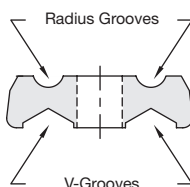


Hexagon Bolt, Type AS

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		V-Grooves			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

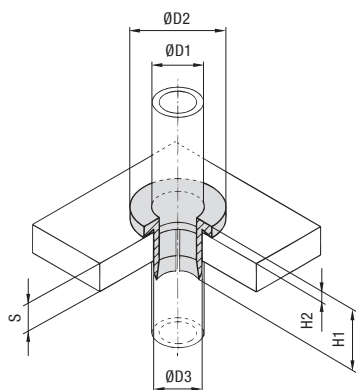
See pages 154 / 155 for properties and technical information.

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: **SA**

See pages 154 / 155 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 <small>(Brief exposure up to +140 °C / +284 °F)</small>	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



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 156 / 157 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 6S (Heavy Series)


STAUFF Group 7S 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)	70 A (DIN 53505)	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

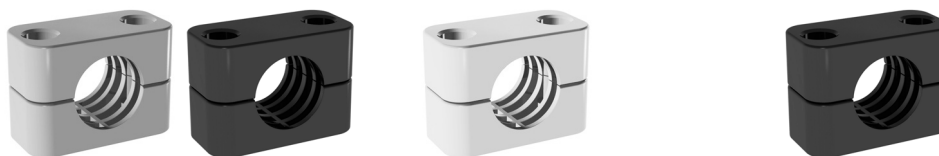
Please contact STAUFF for further details on fire-proof clamp body materials, tested and approved according to several international fire-protection standards (such as BS 6853, EN 45545-2, UL 94 and many more).

See pages 156 / 157 for material properties and technical information.



Special Clamp Body Materials (Selection)

Preventive Fire Protection



Material Code	PA-V0	PP-DA	PA-GF30-USR
Basic Material	Polyamide	Polypropylene	Polyamide
Standard Colour	Grey / Black	Weiss	Black

Mechanical Properties			
Tensile E-Module	1500 MPa (ISO 527-2)	1614 N/mm ² (ISO 527) bei +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>

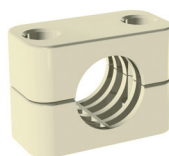
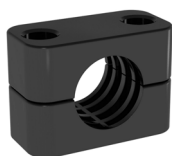
¹ Successful testing and approval according to UL94 (classification V-0) is equivalent to EN 45545-2 (requirements set R26; hazard level HL3). The information for PA-V0 has been determined in a conditioned state according to ISO 1110.

STAUFF preserves the right to supply products made from alternative, but comparable materials with matching technical characteristics.



Special Clamp Body Materials (Selection)

Preventive Fire Protection



PP6853	PP-V0	SA-V0	Material Code
Polypropylene	Polypropylene	Thermoplastic Elastomer	Basic Material
White	Black	Natural	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)		Notch Impact Strength
			Low Temperature Notch Impact Strength
25 MPa (ICE 60811-1-1)	24 MPa (ISO 527)	15,9 MPa (ASTM D412)	Tensile Strength at Yield (Tensile Strength)
			Ball Indentation Hardness (Brinell Hardness)
		86 A (ISO 868)	Shore Hardness

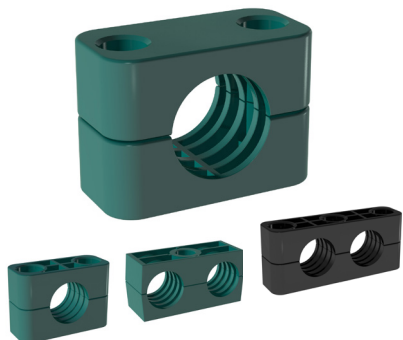
			Thermal Properties
-25 °C ... +90 °C / -13 °F ... +194 °F	-25 °C ... +90 °C / -13 °F ... +194 °F	-55 °C ... +90 °C / -67 °F ... +194 °F	Temperature Resistance (Min ... Max)

			Features
<p>Tested and approved acc. to EN 45545-2 (material thickness: 3 mm)</p> <ul style="list-style-type: none"> Requirements set R22 / R23 / R24 / R26 Hazard level HL1 - HL3 <p>Tested and approved acc. to BS 6853 (Code of practice for fire precautions in the design / construction of passenger carrying trains)</p> <ul style="list-style-type: none"> Assessment: category 1a <p>Compliant to the requirements of London Underground / Metronet (standard 2-01001-002: Fire Safety Performance of Materials)</p> <p>Tested and approved acc. to DIN 5510, Part 2 (material thickness: 25 mm)</p> <ul style="list-style-type: none"> Combustibility classification: S4 Smoke development classification: SR2 Dripping classification: ST2 <p>Tested and approved acc. to Def Stan 07-247</p> <ul style="list-style-type: none"> Assessment: category B <p>Compliant to the requirements of JRMA (Japan Railway Rollingstock & Machinery Association)</p> <ul style="list-style-type: none"> Classification: extremely incombustible <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 UL94 ¹ (material thickness: 3 mm)</p> <ul style="list-style-type: none"> 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).



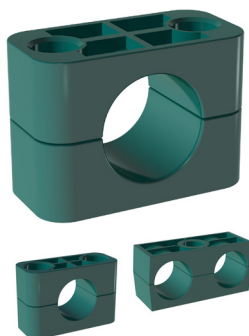
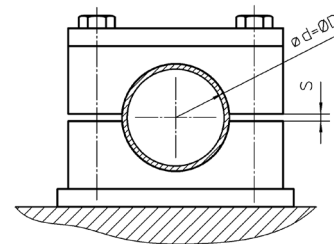
Standard Clamp Body Designs



Profiled Design

Profiled Inside Surface with Tension Clearance

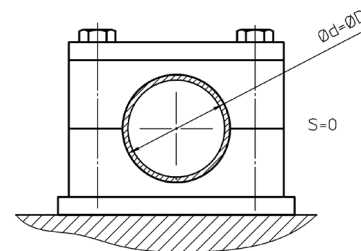
- Available in the Standard, Heavy, Twin and Heavy Twin Series
- Recommended for the safe installation of rigid pipes or tubes
- Available for all commonly used outside diameters and nominal sizes
- Vibration/noise reducing and impact absorbing effect towards the direction of the line provided by the 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)



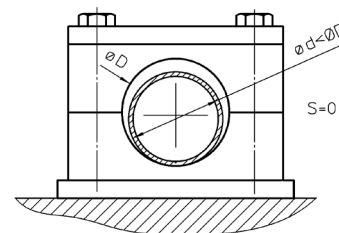
Type H (Smooth)

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

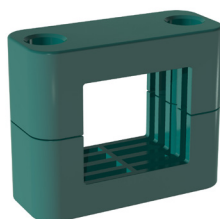


- Choose the diameter ϕD of the clamp body slightly larger (in accordance to your specific requirements) than the outside diameter ϕd of the pipe, tube, hose or cable in order to use it as a longitudinal guide allowing the line to slide



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

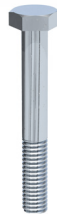
Heavy Series (DIN 3015, Part 2)

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.

- Place weld plates in their designated positions. Please make sure these positions are suitable for the expected loads.
- Mark the positions of the weld plates to ensure best alignment.
- 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.

- Place mounting rails in their designated positions. Please make sure these bases are suitable for the expected loads.
- Mark the positions of the mounting rails to ensure best alignment.
- 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.



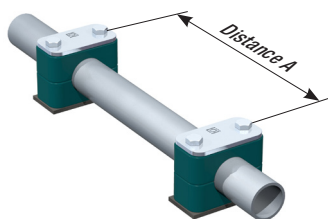
Multi-Level (Stacking) Installation

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

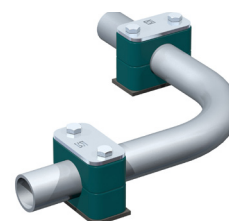


Please note: The recommended distances between clamps stated below are standard values and valid for static loads only.

Outside Diameter (mm)		Distance A (m)	
(mm)	(in)	(m)	(ft)
6,0 ... 12,7	.2350	1,00	3,28
12,7 ... 22,0	.5086	1,20	3,94
22,0 ... 32,0	.86 ... 1.25	1,50	4,92
32,0 ... 38,0	1.25 ... 1.50	2,00	6,56
38,0 ... 57,0	1.5 ... 2.25	2,70	8,86
57,0 ... 75,0	2.25 ... 2.95	3,00	9,84
75,0 ... 76,1	2.95 ... 3.00	3,50	11,48
76,1 ... 88,9	3.00 ... 3.50	3,70	12,14
88,9 ... 102,0	3.50 ... 4.00	4,00	13,12
102,0 ... 114,0	4.00 ... 4.50	4,50	14,76

Outside Diameter (mm)		Distance A (m)	
(mm)	(in)	(m)	(ft)
114,0 ... 168,0	4.50 ... 6.60	5,00	16,40
168,0 ... 219,0	6.60 ... 8.60	6,00	19,68
219,0 ... 324,0	8.60 ... 12.70	6,70	21,98
324,0 ... 356,0	12.70 ... 14.00	7,00	22,96
356,0 ... 406,0	14.00 ... 16.00	7,50	24,60
406,0 ... 419,0	16.00 ... 16.50	8,20	26,90
419,0 ... 508,0	16.50 ... 20.00	8,50	27,88
508,0 ... 521,0	20.00 ... 20.50	9,00	29,52
521,0 ... 558,0	20.50 ... 22.00	10,00	32,80
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.

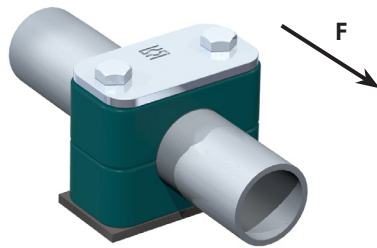
Valves

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)
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)
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

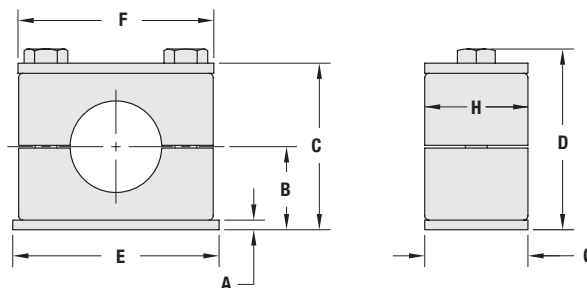
Twin Series (DIN 3015-2:1999)

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)
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.

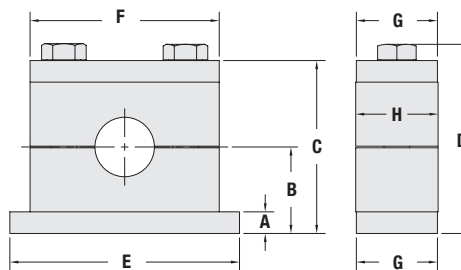


Dimensions and Weights of Clamp Assemblies



Standard Series (DIN 3015, Part 1)

Group	STAUFF	DIN	Dimensions (mm/in)								Weight per 100 Pcs. SP-**-PP-DP-AS (kg/lbs)		
			A	B		C		D		E		F	G
		Profiled Design		Type H (Smooth)		Profiled 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

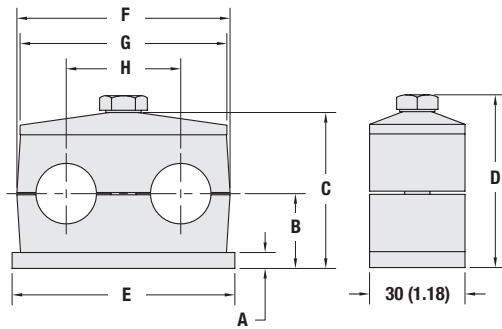


Heavy Series (DIN 3015, Part 2)

Group	STAUFF	DIN	Dimensions (mm/in)								Weight per 1 Pc. SPAL-**-PP-DPAL-AS (kg/lbs)			
			A	B		C		D		F		G	H	
		Profiled Design		Type H (Smooth)		Profiled Design		Type H (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

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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							
			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)**

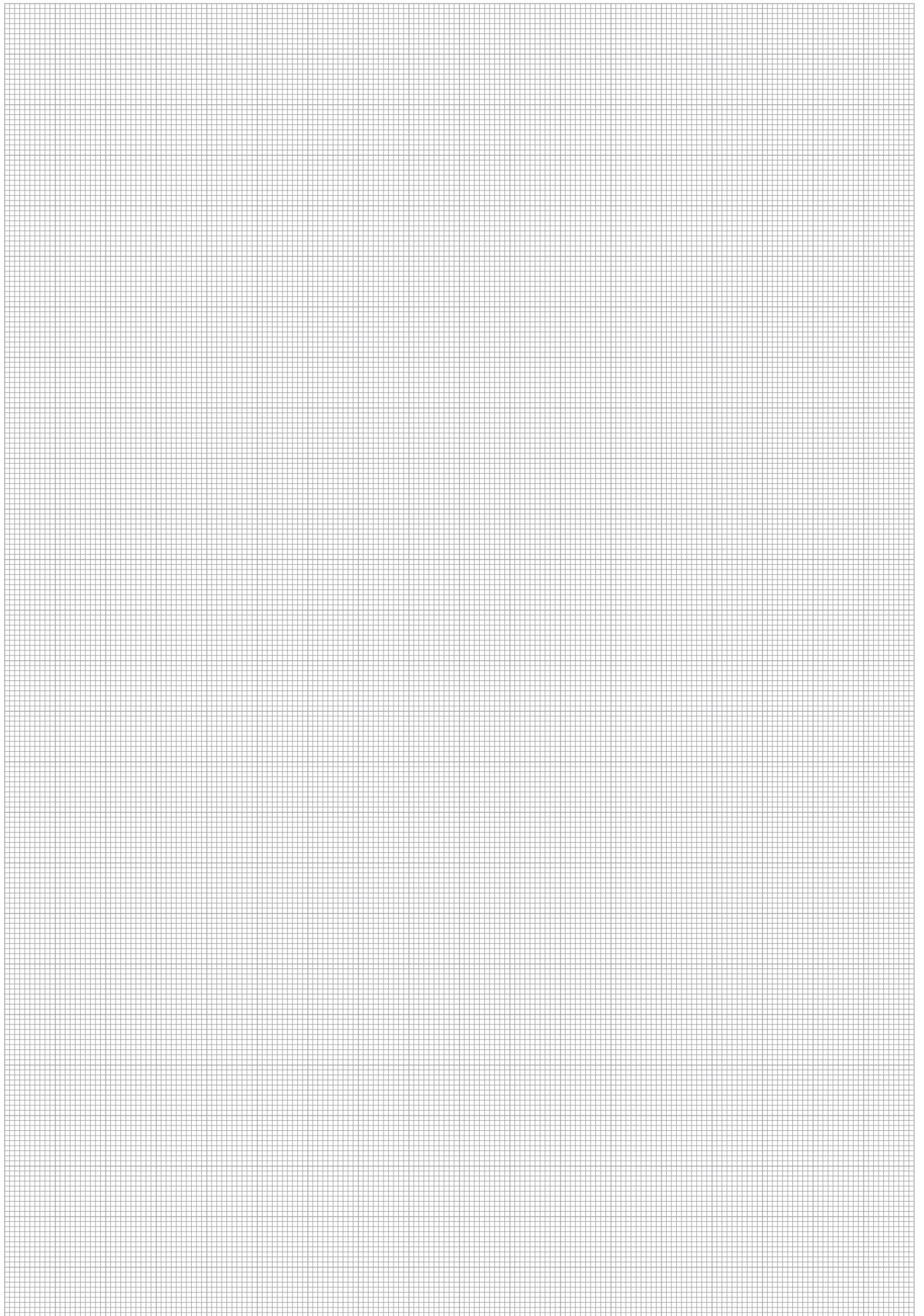
Group	STAUFF	DIN	Quantity per Bag (in Pcs.)
1D - 4D		1 - 4	25
5D		5	10

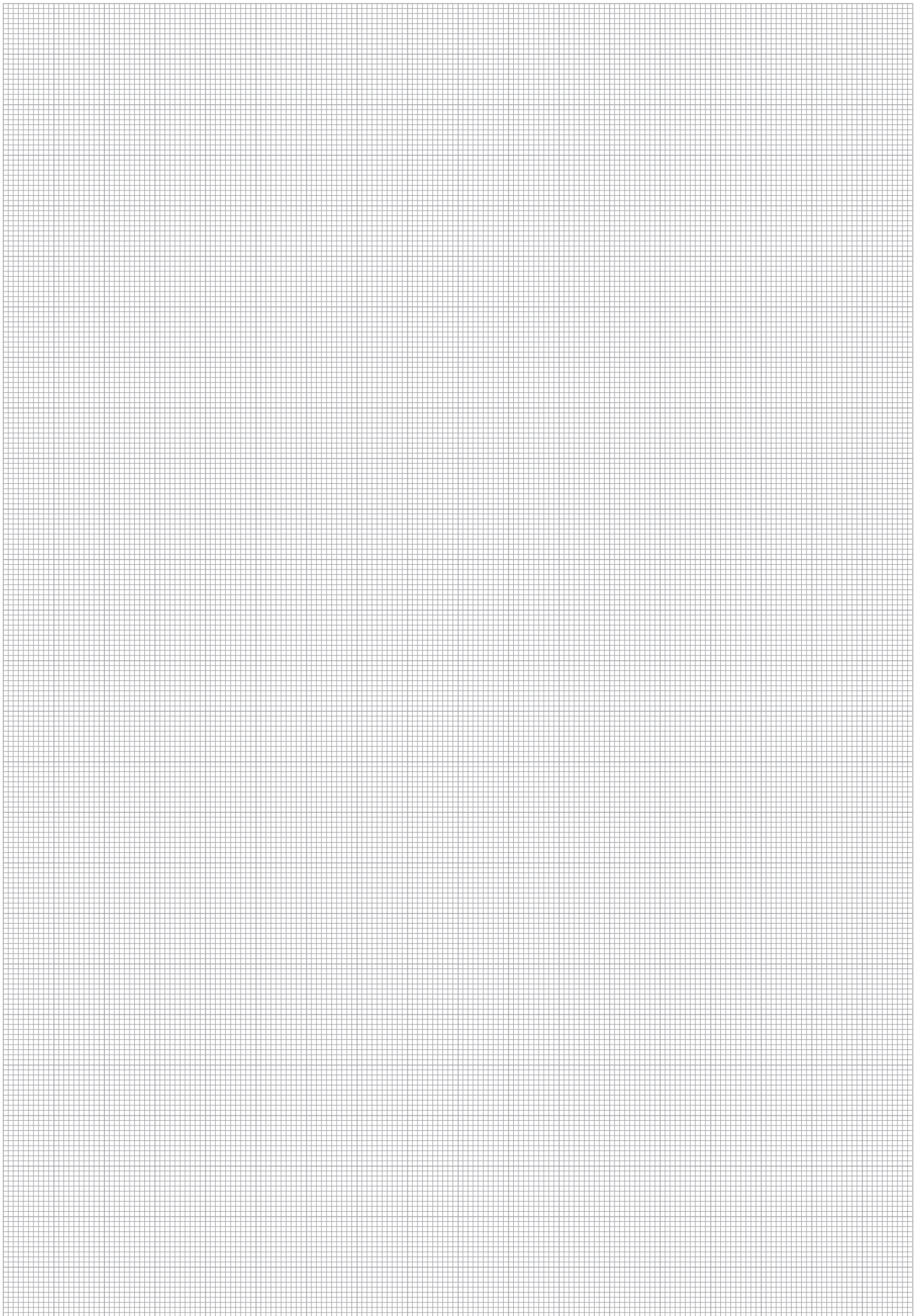
**Hexagon Rail Nut (Type SM)
Channel Rail Adaptor (Type CRA)**

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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Global Contact Directory	170
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Product-Specific Abbreviations

Abbreviation	Product Category	Product Description	Page
ACT	STAUFF ACT Clamps: Anti-Corrosion Technology	Clamp Body - Standard Series	74
ACT	STAUFF ACT Clamps: Anti-Corrosion Technology	Clamp Body - Twin Series	82
AF	Standard Series according to DIN 3015, Part 1	Stacking Bolt	29
AF	Heavy Series according to DIN 3015, Part 2	Stacking Bolt	47
AF	Twin Series according to DIN 3015, Part 3	Stacking Bolt	61
AF	Heavy Twin Series	Stacking Bolt	68
AG	Other Types of Clamps	Agriculture Twin Series	150
AL	Technical Appendix	Standard Clamp Body Material	154
AS	Standard Series according to DIN 3015, Part 1	Hexagon Head Bolt	26
AS	Heavy Series according to DIN 3015, Part 2	Hexagon Head Bolt	45
AS	Twin Series according to DIN 3015, Part 3	Hexagon Head Bolt	59
AS	Heavy Twin Series	Hexagon Head Bolt	68
AS	Light Series	Hexagon Head Bolt	115
BSP	Standard Series according to DIN 3015, Part 1	Bridge Weld Plate	22
CB420-50	STAUFF Bond: Adhesive Bonded Fastening	Adhesive Cartridge	100
CB420-50E	STAUFF Bond: Adhesive Bonded Fastening	Adhesive Cartridge	100
CC	Standard Series according to DIN 3015, Part 1	Clamp Body - Compact Design	19
CHC	Standard Series according to DIN 3015, Part 1	Clamp Body for Conduit Hoses	18
CRA	Standard Series according to DIN 3015, Part 1	Channel Rail Adaptor	25
CRA	Heavy Series according to DIN 3015, Part 2	Channel Rail Adaptor	43
CRA	Twin Series according to DIN 3015, Part 3	Channel Rail Adaptor	58
CRA	Heavy Twin Series	Channel Rail Adaptor	68
DIN1592	Metal DIN Clamps	Heavy Saddle with Tension Clearance - Single-Bolt Design	138
DIN1593	Metal DIN Clamps	Heavy Saddle with Tension Clearance - Two-Bolt Design	139
DIN1596	Metal DIN Clamps	Light Saddle with Tension Clearance - Single-Bolt Design	140
DIN1597	Metal DIN Clamps	Light Saddle with Tension Clearance - Two-Bolt Design	141
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Product-Specific Abbreviations

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PP	Technical Appendix	Standard Clamp Body Material	154
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TS	Standard Series according to DIN 3015, Part 1	Mounting Rail	24
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ZR-518	Saddle / Piggyback Clamps	Saddle / Piggyback Clamp	122



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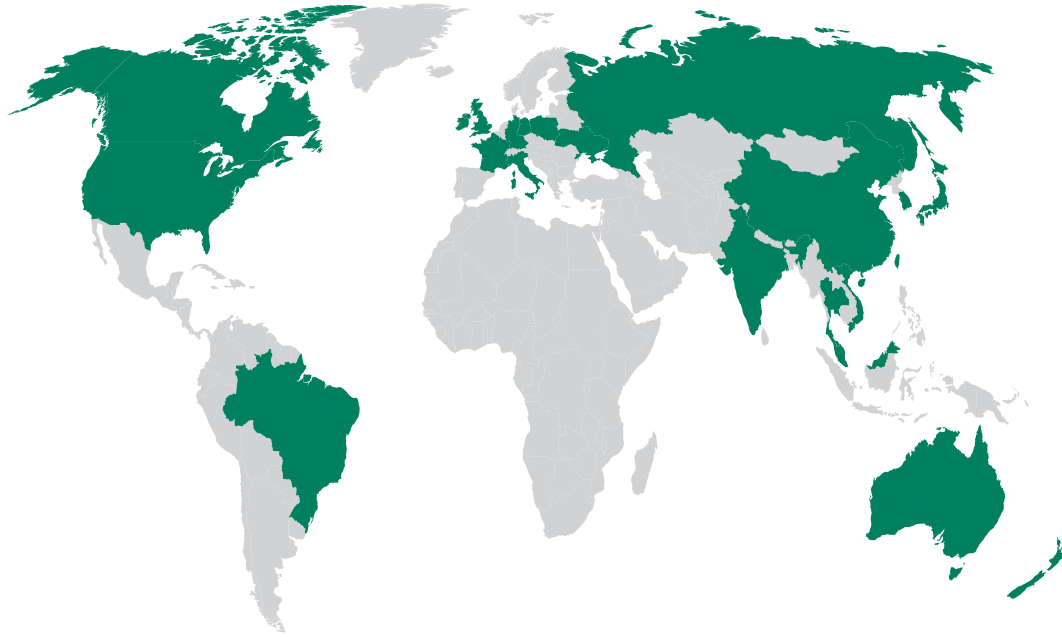
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Introduction

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

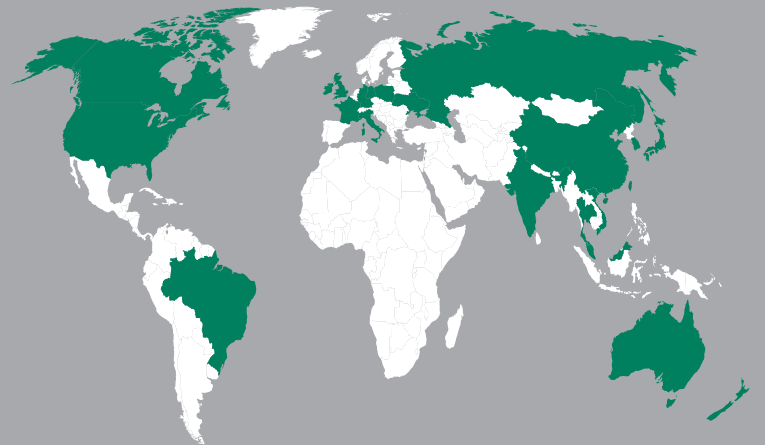
Other Types of Clamps

Technical Appendix

Appendix



Catalogue 1 STAUFF Clamps



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