

Block Clamps



Special Clamps



Light Series



Saddle Clamps



U-Bolt Clamps



Metal Clamps



Construction Series



Germany

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

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

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

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

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

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

With the publication of this product catalogue, previous editions are no longer valid.

Introduction	4 - 11	
Standard Series according to DIN 3015, Part 1	12 - 35	A
Heavy Series according to DIN 3015, Part 2	36 - 57	B
Twin Series according to DIN 3015, Part 3	58 - 73	C
Heavy Twin Series	74 - 79	D
STAUFF ACT Clamps: Anti-Corrosion Technology	80 - 103	E
STAUFF SWG: Stud Welding System	104 - 109	F
Multi-Line Clamps	110 - 125	G
Custom-Designed Special Clamps	126 - 133	H
Light Series	134 - 143	I
Saddle / Piggyback Clamps	144 - 147	J
Flat Steel and Round Steel U-Bolt Clamps	148 - 157	K
Metal DIN Clamps	158 - 165	L
Construction Series	166 - 169	M
Other Types of Clamps	170 - 175	N
Technical Appendix	176 - 189	O
Appendix (Product-Specific Abbreviations / Global Contact Directory)	190 - 195	





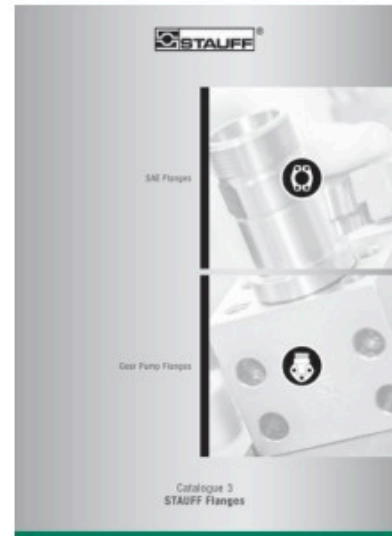
Catalogue 1 STAUFF Clamps

- 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



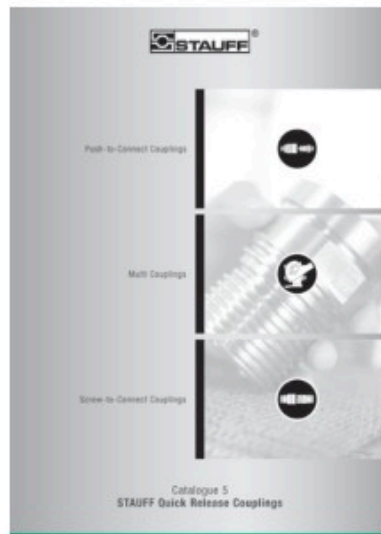
Catalogue 3 STAUFF Flanges

- 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



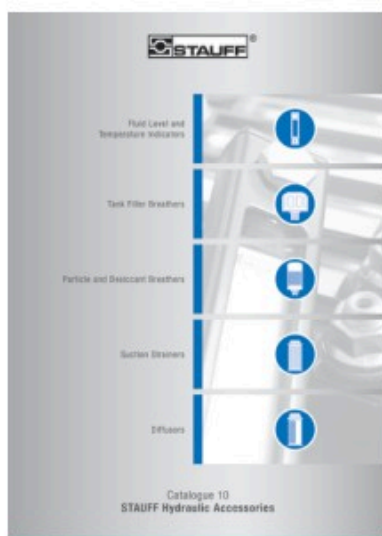
Catalogue 8 STAUFF Diagtronics

- 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.

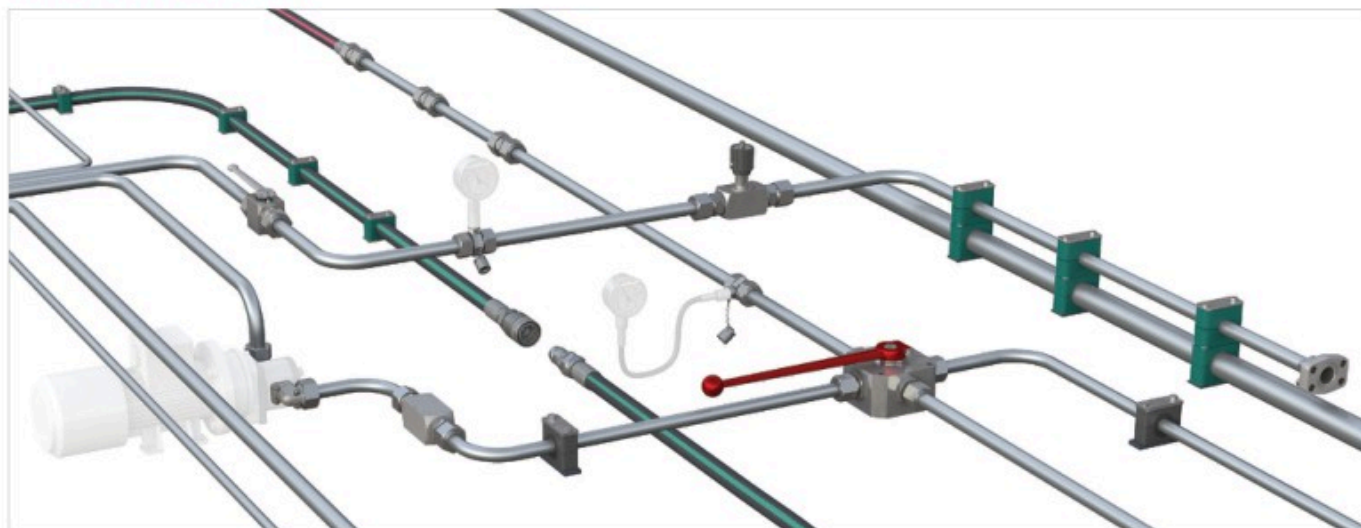
The overall range currently includes about 50000 standard products as well as numerous special and system solutions according to customer's specifications or based on our in-house development.

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

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



STAUFF LINE Components



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

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

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

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

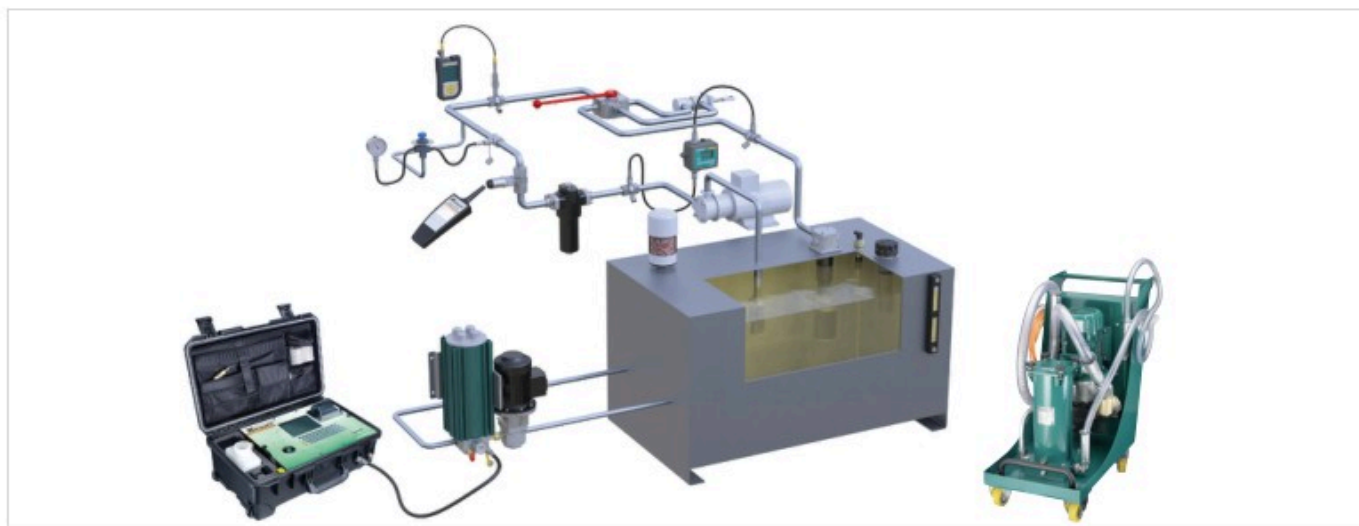
In order to perfectly match each other, STAUFF Line products are designed and offered on a high, uniform level of quality. A large proportion of the range made from steel comes as standard with the premium STAUFF Zinc/Nickel surface coating, which is also optionally available for many of the other components.

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

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

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





Aligned with the needs of the market, the product groups

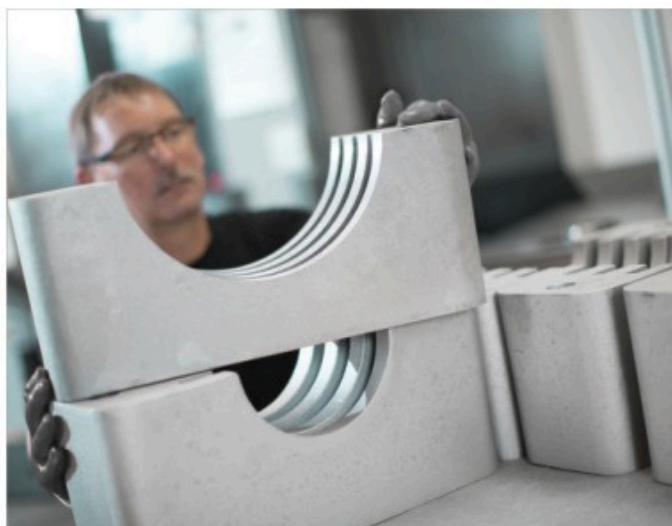
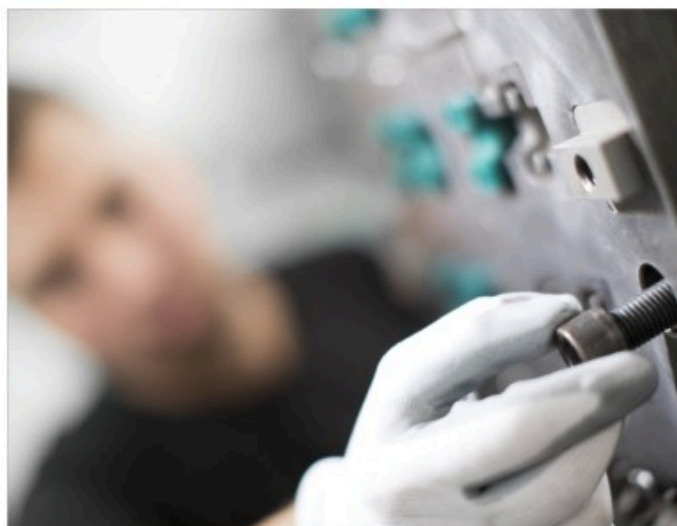
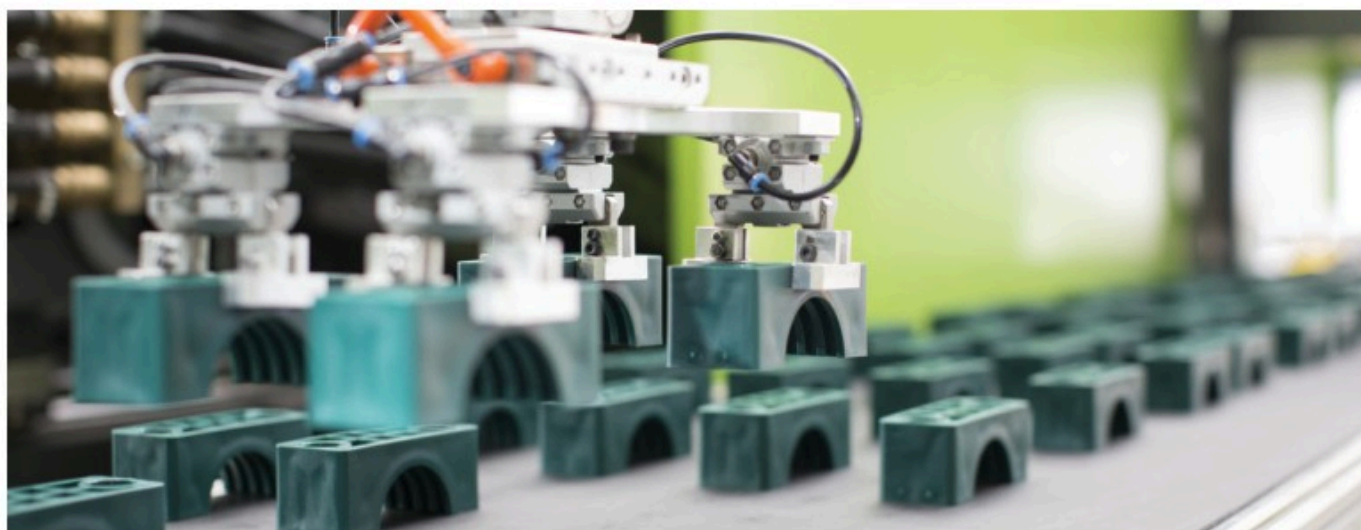
- **STAUFF Test**
- **STAUFF Diagtronics**
- **STAUFF Filtration Technology**
- **STAUFF Hydraulic Accessories**

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

The offer is completed by relevant value-added services:

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





STAUFF Clamps

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

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

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

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

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

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

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

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





STAUFF Zinc/Nickel Coating



Layers

- Sealing
- Passivation
- Zinc/Nickel
- Steel

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

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

- At least 1200 hours resistance to red rust / base metal corrosion under practical conditions in the salt-spray chamber according to DIN EN ISO 9227
- White rust occurs only by way of a slight grey haze
- Surpassing the requirements of the corrosion protection class K5 as defined by the VDMA, the German Engineering Association (360 hours resistance to white rust / 720 hours resistance to red rust)
- Free of hexavalent chrome Cr(VI)
- ELV compliant according to 2000/53/EC (End of Life Vehicles Directive)
- REACH compliant according to 1907/2006/EC (Registration, Evaluation, Authorisation and Restriction of Chemicals)
- RoHS compliant according to 2002/95/EC (Restrictions of the Use of Hazardous Substances)

- Appealing colour scheme with a bright semi-gloss surface finish – comparable to Stainless Steel
- Significantly reduced tendency to corrosion by contact with other metals (such as Aluminium and Stainless Steel)
- Improved abrasion resistance due to the ductility / plastic deformability of the coating
- Little to no risk of triggering allergies – nickel release is down to only a fraction of the statutory limits relating to objects which come into direct and prolonged contact with the skin (independent results of the reference test method according to DIN EN 1811 are available on request)
- Good paint adhesion properties
- Resistance against all commonly used hydraulic media





www.stauff.com/catalogues

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

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- Contents can be shared and forwarded by e-mail, printed or downloaded and saved in PDF file format
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Scan the QR code next to the direct link with the camera of your mobile device* and also use the functions in this way.

* may require a suitable app

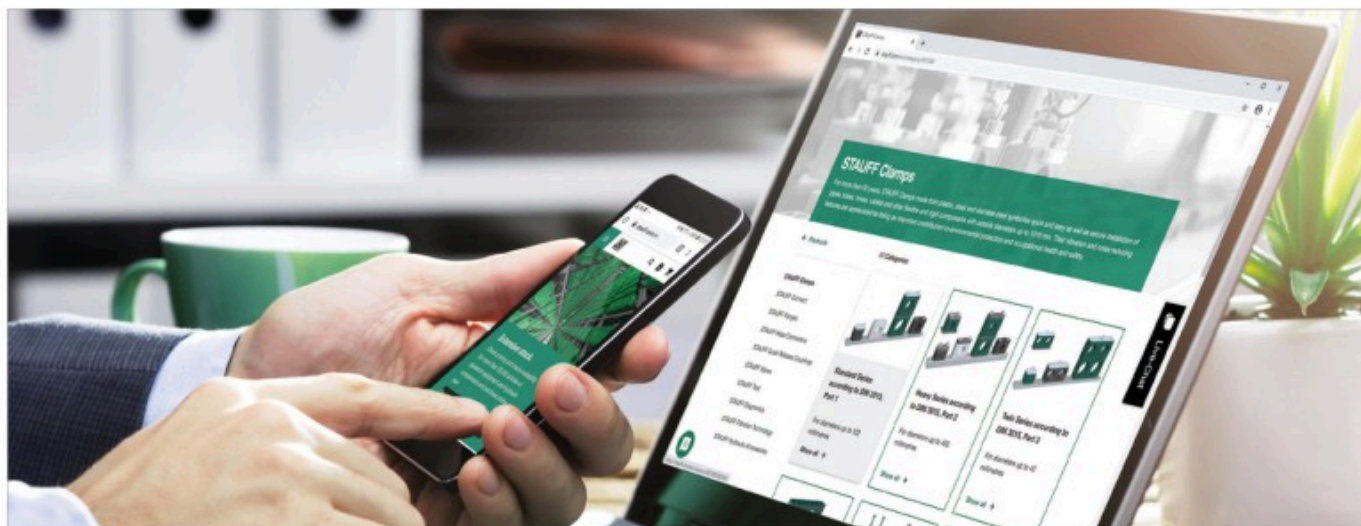


10

Catalogue 1 • Edition 01/2024

www.stauff.com/1/en/#10





www.stauff.com

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

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

Main Functionalities of the STAUFF Digital Platform:



Around the clock
Check stock availability and pricing for STAUFF products in real time



Cross references
Search by article designations of other manufacturers / suppliers



Live chat
Get directly in touch with the STAUFF customer service and sales team



CAD database
Download 3D models and 2D drawings for STAUFF products

Advantages as a Registered User of the STAUFF Digital Platform:



Purchase STAUFF products
Taking customer-specific pricing and delivery conditions into account



Ordering w/o searching
Quick ordering by entering article number, quantity and requested delivery date



File upload
Direct upload of orders with multiple positions in CSV or Excel file format



Notepad function
Create project lists to save interesting products for later

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

14



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

18



Clamp Body
Compact Design for both Compact / Regular Hydraulic Hoses

19



Clamp Body
Rectangular Design for Proximity Switches

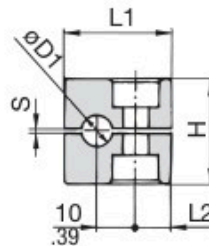
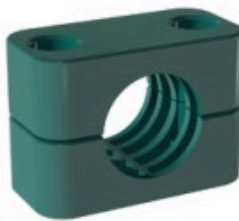
19

	Weld Plate SP	20		Cover Plate DP	28
	Elongated Weld Plate SPV	20		Hexagon Head Bolt for use with Cover Plate DP AS	28
	Twin Weld Plate DSP	21		Safety Washer (DIN 93) SI	29
	Group Weld Plate RAP	21		Safety Washer (DIN 463) SI	29
	Angled Weld Plate WSP	22		Socket Cap Screw IS	30
	Bridge Weld Plate BSP	22		Slotted Head Screw LI	30
	Clamp Body for Multi-Group Weld Plates	23		Hexagon Head Bolt for use with Insert ES / EP AS	30
	Multi-Group Weld Plate RAP-MGR	23		Insert ES / EP	30
	Hexagon Rail Nut SM	24		Safety Locking Plate SIG	31
	Mounting Rail TS	24		Stacking Bolt AF	31
	Fastening Adaptor SWG-MRA	25		Clamp Assemblies	32
	Channel Rail Adaptor CRA	26			

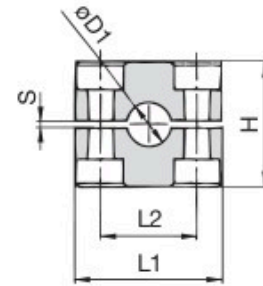


Clamp Body • Profiled Design

Profiled Inside Surface with Tension Clearance



STAUFF Group 1



STAUFF Group 1A to 8

Ordering Codes

Clamp Body

Clamp Body, STAUFF Group 1A

*1*06-*PP

*1*06A-*PP

One clamp body is consisting of two clamp halves.

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

1
06
PP

Standard Materials



Polypropylene

Colour: Green
Material code: **PP**

Polypropylene

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

Polyamide

Colour: Black
Material code: **PA**

Thermoplastic Elastomer (87 Shore-A)

Colour: Black
Material code: **SA87**

Aluminium

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

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

Special Materials

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

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

Product Features

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

Group	STAUFF	DIN	Outside Diameter Pipe / Tube Ø D1		Nominal Bore Pipe (in)	Copper Tube ASTM B88 (in)	Ordering Codes (2 Clamp Halves) (** = Material)	Dimensions (mm/in)				
			(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-**-	42	26	33	0,6	30
3	3		15				215-**-	1.65	1.02	1.30	.02	1.18
			16	5/8	1/2		216-**-					
			17,2	3/8			217.2-**-					
			18				218-**-					
			19	3/4			319-**-					
4	4		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-**-					
			25,4	1			325.4-**-					
5	5		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
			32				432-**-					
6	6		32	1-1/4			532-**-					
			33,7		1		533.7-**-					
			35			1-1/4	535-**-	71	52	58	0,8	30
			38	1-1/2			538-**-	2.80	2.05	2.28	.03	1.18
			40				540-**-					
7	7		41,3		1-1/2		541.3-**-					
			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
8	8		54		2		654-**-					
			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
8	8		73		2-1/2 (ANSI B 36-10)		773-**-					
			76,1	3	2-1/2 (DIN EN 10220)		776.1-**-					
			88,9		3		888.9-**-	147	120	118	0,8	30
8	8		102	4	3-1/2		8102L-**-	5.79	4.72	4.65	.03	1.18

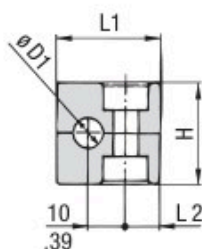
Additional outside diameters are available upon request. Please contact STAUFF for further information.

Dimensional drawings: All dimensions in mm (in).

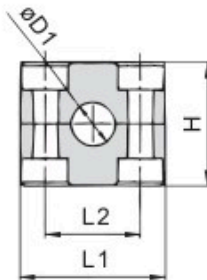


Clamp Body • Type H

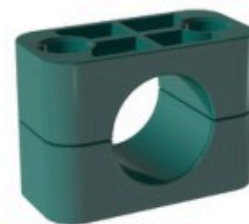
Smooth Inside Surface without Tension Clearance



STAUFF Group 1



STAUFF Group 1A to 8



Group	STAUFF	DIN	Outside Diameter		Ordering Codes (2 Clamp Halves)	Dimensions (mm/in)			
			Hose Ø D1 (mm)	(in)		L1	L2	H	Width
1	0		6		106-**-H				
			6,4	1/4	106.4-**-H				
			8	5/16	108-**-H	28	9,5	26	30
			9,5	3/8	109.5-**-H	1.10	.37	1.02	1.18
			10		110-**-H				
			12		112-**-H				
1A	1		6		106A-**-H				
			6,4	1/4	106.4A-**-H				
			8	5/16	108A-**-H	37	20	26	30
			9,5	3/8	109.5A-**-H	1.46	.79	1.02	1.18
			10		110A-**-H				
			12		112A-**-H				
2	2		12,7	1/2	212.7-**-H				
			13,5		213.5-**-H				
			14		214-**-H	42	26	32	30
			15		215-**-H	1.65	1.02	1.26	1.18
			16	5/8	216-**-H				
			17,2		217.2-**-H				
3	3		18		218-**-H				
			19	3/4	319-**-H				
			20		320-**-H				
			21,3		321.3-**-H	50	33	35,5	30
			22	7/8	322-**-H	1.97	1.30	1.40	1.18
			25		325-**-H				
4	4		25,4	1	325.4-**-H				
			26,9		426.9-**-H				
			28		428-**-H	59	40	41,5	30
			30		430-**-H	2.32	1.57	1.63	1.18
			32		432-**-H				
			32	1-1/4	532-**-H				
5	5		33,7		533.7-**-H				
			35		535-**-H	71	52	56,5	30
			38	1-1/2	538-**-H	2.80	2.05	2.22	1.18
			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	3.39	2.60	2.54	1.18
			54		654-**-H				
			57,2	2-1/4	757.2-**-H				
			60,3		760.3-**-H				
			63,5	2-1/2	763.5-**-H	121	94	92	30
7	7		70	2-3/4	770-**-H	4.76	3.70	3.62	1.18
			73		773-**-H				
			76,1	3	776.1-**-H				
			88,9		888.9-**-H	147	120	116	30
			102	4	8102L-**-H	5.79	4.72	4.57	1.18

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

Ordering Codes

Clamp Body

Clamp Body, STAUFF Group 1A

*1*06-*PP-H

*1*06A-*PP-H

One clamp body is consisting of two clamp halves.

* STAUFF Group

1

* Exact outside diameter Ø D1 (mm)

06

* Material code (see below)

PP-H

Standard Materials



Polypropylene

Colour: Green

Material code: PP-H



Polypropylene

Colour: Black

Material code: PP-H-BK



Polyamide

Colour: Black

Material code: PA-H



Thermoplastic Elastomer (87 Shore-A)

Colour: Black

Material code: SA87-H

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

Special Materials

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

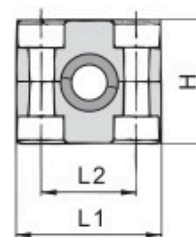
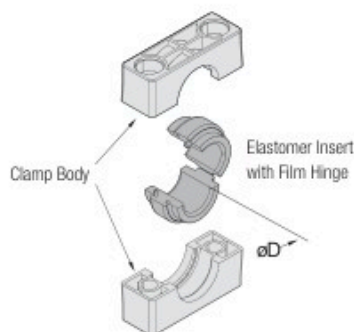
See pages 180 / 181 for material properties and technical information.

Product Features

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



Clamp Body with Elastomer Insert Type RI



Ordering Codes

Clamp Assembly

***4*06-*PP-R**

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

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

Clamp Body

***4-*PP-R**

One clamp body is consisting of two clamp halves.

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

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

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

Group	STAUFF	DIN	Outside Diameter		Ordering Codes (* = Material)		Dimensions		L1	L2	H	Width
			Pipe / Tube / Hose	Ø D	Clamp Assembly	Clamp Body	Insert *					
			(mm)	(in)	(Clamp Body + Insert)	(2 Clamp Halves)						
4	4	4	6		406-*R	4-*R	RI-06-4/4S-*		59	40	41,2	30
			8	5/16	408-*R		RI-08-4/4S-*					
			10		410-*R		RI-10-4/4S-*					
			12		412-*R		RI-12-4/4S-*					
			12,7	1/2	412.7-*R		RI-12.7-4/4S-*					
			14		414-*R		RI-14-4/4S-*					
			15		415-*R		RI-15-4/4S-*	2.32			1.62	
			16	5/8	416-*R		RI-16-4/4S-*					
			17,2		417.2-*R		RI-17.2-4/4S-*					
			18		418-*R		RI-18-4/4S-*					
5	5	5	19	3/4	419-*R	5-*R-#	RI-19-4/4S-*		71	52	67	30
			20		520-*R-#		RI-20-5-*#					
			21,3		521.3-*R-#		RI-21.3-5-*#					
			22	7/8	522-*R-#		RI-22-5-*#					
			25		525-*R-#		RI-25-5-*#	2.80			2.64	
			26,9		526.9-*R-#		RI-26.9-5-*#					
			28		528-*R-#		RI-28-5-*#					
			30		530-*R-#		RI-30-5-*#					
			32	1-1/4	532-*R-#		RI-32-5-*#					
6	6	6	20		620-*R	6-*R	RI-20-6/5S-*		86	66	64,5	30
			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-*	3.39			2.54	
			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-*					
			35		635-*R-#	6-*R-#	RI-35-6-*#		86	66	65	30
			38		638-*R-#		RI-38-6-*#	3.39			2.56	
6	6	6	40		640-*R-#		RI-40-6-*#					
			42		642-*R-#		RI-42-6-*#					

Standard Materials



Polypropylene

Colour: Black

Material code: **PP-R**



Polyamide

Colour: Black

Material code: **PA-R**



Elastomer Insert

Thermoplastic Elastomer (73 Shore-A)

Colour: Black

Material code: **SA73**

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

Special Materials

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

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

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

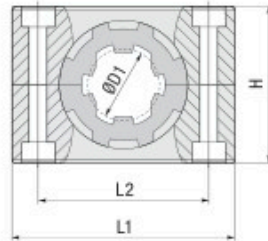
Additional outside diameters are available upon request. Please contact STAUFF for further information.

Product Features

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



Noise Reduction Clamp Type NRC



A

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

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

Ordering Codes

Clamp Assembly *2*12-*PP-NRC

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

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

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

One NRC clamp body is consisting of two clamp halves.

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

NRC Elastomer Insert

*RI-NRC-*12-*2-*SA73

One NRC elastomer insert is consisting of two insert halves.

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

Standard Materials

Polypropylene
Colour: Black
Material code: PP

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

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

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

Special Materials

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

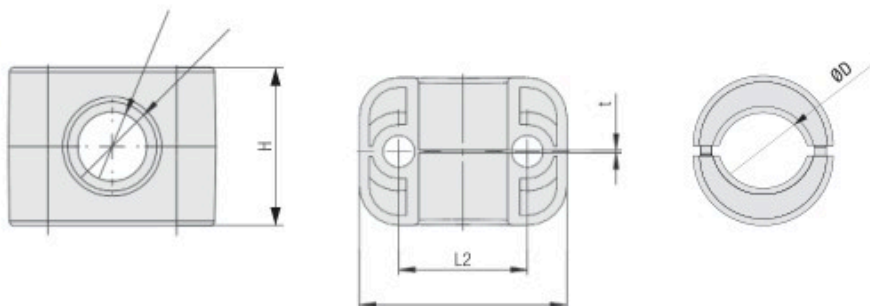
See pages 180 / 181 for material properties and technical information.



Clamp Body for Conduit Hoses and Cable Inserts

Type CHC

A



Ordering Codes

Clamp Assembly

***3*17-10/14-PA-CHC-SA80-V0**

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

* STAUFF Group	3
* Nominal Size of the Conduit Hose	17
* Diameter Range Cable ØD (mm)	10/14
* Material code clamp body (see below)	PA-CHC
* Material code insert (see below)	SA80-V0

CHC Clamp Body

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

One CHC Clamp Body is consisting of two clamp halves.

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

CHC Elastomer Insert

***RI-CHC-10/14*3*SA80-V0**

One CHC Elastomer Insert is consisting of two insert halves.

* CHC Elastomer Insert	RI-CHC
* Diameter Range Cable ØD (mm)	10/14
* STAUFF Group	3
* Material code insert (see below)	SA80-V0

Group	Nominal Size	ØD (mm)	Ordering Codes (* = Material)	Dimensions (mm)
STAUFF	DIN	Conduit Hose	Clamp Assembly (Clamp Body + Insert)	ØD1 ØD2 t L1 L2 H Width
2	2	10	210-*	13 11 0,5 42 26 32 30
3	3	12	212-6/8-*-*	.51 .43 .02 1.65 1.02 1.26 1.18
		12	212-8/10-*-*	.16 13,5 .63 .53
3	3	17	317-7/10-*-*	21,5 18 0,7 50 33 35,5 30
		17	317-10/14-*-*	.85 .71 .03 1.97 1.30 1.40 1.18
4	4	23	423-14/18-*-*	29 24,5 0,7 59 40 41,5 30
		23	423-18/20-*-*	1.14 .96 .03 2.32 1.57 1.63 1.18
5	5	29	529-*	35 30,5 1,0 71 52 56,5 30
		29	536-20/26.9-*-*	1.38 1.20 .04 2.80 2.05 2.22 1.18
		36	536-26.9/33.7-*-*	43 38,5 1.69 1.52
6	6	48	648-*	55 49,5 1,0 86 66 64,5 30
		48		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-V0-CHC-BK**



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



Elastomer Insert
fire-proof clamp body material made of Thermoplastic Elastomer (86 Shore-A)
Colour: White
Material code: **SA80-V0**

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

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

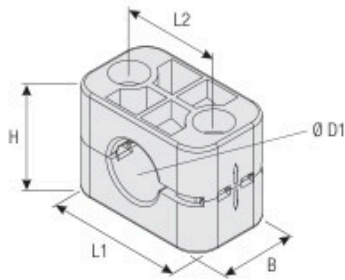
Recommended Bolt Lengths (Socket Cap Screw IS)

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

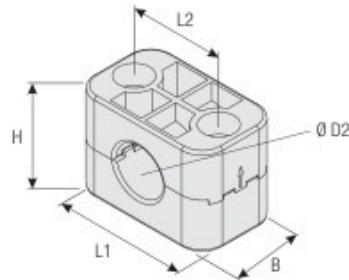
Group	Nominal Size	Metric ISO thread	Unified coarse (UNC) thread
STAUFF	DIN		
2	2	M6 x 25	1/4-20 UNC x 1
3	3	M6 x 30	1/4-20 UNC x 1-1/8
4	4	M6 x 35	1/4-20 UNC x 1-3/8
5	5	M6 x 50	1/4-20 UNC x 2
6	6	M6 x 60	1/4-20 UNC x 2-1/2

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		Outside Diameter Regular Hose		Outside Diameter Compact Hose		Ordering Codes (2 Clamp Halves) (*** = Material)	Dimensions (mm/in)				
STAUFF	DIN	Ø D1 (mm)	(in)	Ø D2 (mm)	(in)		L1	L2	H		B
									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 1.97	33 1.30	35,5 1.40	34 1.34	30 1.18
		25,4	1.00	23,7	.93	325.4-**-**-CC-BK					

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

Product Features

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

Special Materials

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

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

Standard Materials

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

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

Clamp Body • Compact Design Type CC



A

Ordering Codes

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

One clamp body is consisting of two clamp halves.

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

Ordering Codes

One clamp body is consisting of two clamp halves.

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

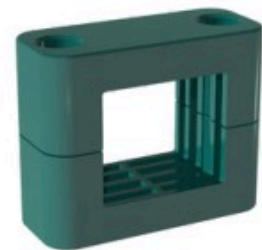
Clamp Body **540-36-PP-VK**
Rectangular design with a square of 40 mm x 36 mm / 1.57 in x 1.42 in

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

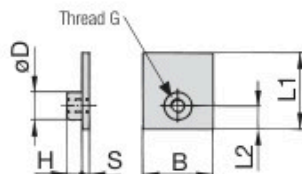
Product Features

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

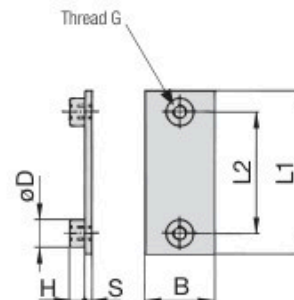
Clamp Body • Rectangular Design Type VK



Single Weld Plate Type SP



STAUFF Group 1



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

Ordering Codes

Weld Plate

*SP-*1-*M-*W2

* Single Weld Plate

SP

* STAUFF Group

1

* Thread code

Metric ISO thread

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

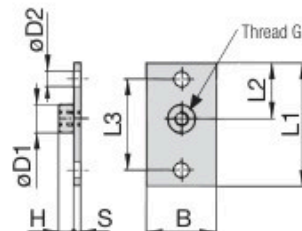
(Dimension S: 5 mm / .20 in)

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

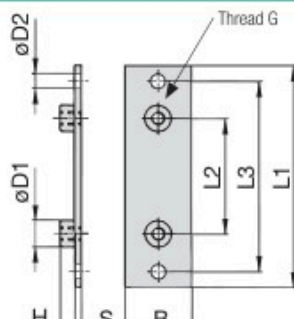
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Group	STAUFF	DIN	Dimensions (mm/in)	Thread G	L1	L2	B	S	H	ØD	Ordering Codes (Standard Options)
1	0		M6	31.5	10	30	3	6.5	12		SP-1-M-W2
			1/4-20 UNC	1.24	0.39	1.18	.12	.26	.47		SP-1-U-W2
1A	1		M6	36	20	30	3	6.5	12		SP-1A-M-W2
			1/4-20 UNC	1.42	0.79	1.18	.12	.26	.47		SP-1A-U-W2
2	2		M6	42	26	30	3	6.5	12		SP-2-M-W2
			1/4-20 UNC	1.65	1.02	1.18	.12	.26	.47		SP-2-U-W2
3	3		M6	50	33	30	3	6.5	12		SP-3-M-W2
			1/4-20 UNC	1.97	1.30	1.18	.12	.26	.47		SP-3-U-W2
4	4		M6	60	40	30	3	6.5	12		SP-4-M-W2
			1/4-20 UNC	2.36	1.57	1.18	.12	.26	.47		SP-4-U-W2
5	5		M6	71	52	30	3	6.5	12		SP-5-M-W2
			1/4-20 UNC	2.80	2.05	1.18	.12	.26	.47		SP-5-U-W2
6	6		M6	88	66	30	3	6.5	12		SP-6-M-W2
			1/4-20 UNC	3.46	2.60	1.18	.12	.26	.47		SP-6-U-W2
7	7		M6	122	94	30	5	6.5	12		SP-7-M-W2
			1/4-20 UNC	4.80	3.70	1.18	.20	.26	.47		SP-7-U-W2
8	8		M6	148	120	30	5	6.5	12		SP-8-M-W2
			1/4-20 UNC	5.83	4.72	1.18	.20	.26	.47		SP-8-U-W2
7M			M10	125	100	40	8	5.3	14		SP-7M-M-W2
			3/8-16 UNC	4.92	3.94	1.58	.31	.21	.55		SP-7M-U-W2
8M			M10	165	140	45	8	5.3	14		SP-8M-M-W2
			3/8-16 UNC	6.50	5.51	1.77	.31	.21	.55		SP-8M-U-W2

Elongated Weld Plate Type SPV



STAUFF Group 1



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

Ordering Codes

Weld Plate

*SPV-*1-*M-*W2

* Elongated Weld Plate

SPV

* STAUFF Group

1

* Thread code

Metric ISO thread

M

Unified coarse (UNC) thread

U

* Material code

Carbon Steel, phosphated

W2

Carbon Steel, zinc/nickel-plated

W3

Stainless Steel V2A

W4

1.4301 / 1.4305 (AISI 304 / 303)

Stainless Steel V4A

W5

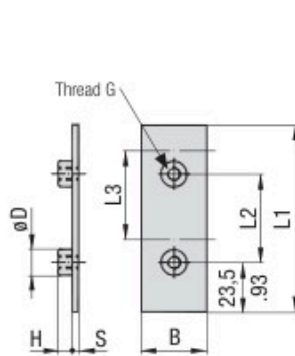
1.4401 / 1.4571 (AISI 316 / 316 Ti)

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

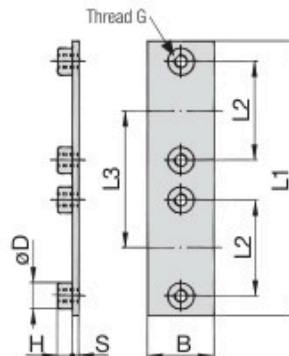
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Group	STAUFF	DIN	Dimensions (mm/in)	Thread G	L1	L2	L3	B	S	H	ØD1	ØD2	Ordering Codes (Standard Options)
1	0		M6	58	24.5	44	30	3	6.5	12	6.5		SPV-1-M-W2
			1/4-20 UNC	2.28	.96	1.73	1.18	.12	.26	.47	.26		SPV-1-U-W2
1A	1		M6	64	20	50	30	3	6.5	12	6.5		SPV-1A-M-W2
			1/4-20 UNC	2.52	.79	1.97	1.18	.12	.26	.47	.26		SPV-1A-U-W2
2	2		M6	70	26	56	30	3	6.5	12	6.5		SPV-2-M-W2
			1/4-20 UNC	2.76	1.02	2.20	1.18	.12	.26	.47	.26		SPV-2-U-W2
3	3		M6	78	33	64	30	3	6.5	12	6.5		SPV-3-M-W2
			1/4-20 UNC	3.07	1.30	2.52	1.18	.12	.26	.47	.26		SPV-3-U-W2
4	4		M6	87	40	73	30	3	6.5	12	6.5		SPV-4-M-W2
			1/4-20 UNC	3.43	1.57	2.87	1.18	.12	.26	.47	.26		SPV-4-U-W2
5	5		M6	100	52	86	30	3	6.5	12	6.5		SPV-5-M-W2
			1/4-20 UNC	3.94	2.05	3.39	1.18	.12	.26	.47	.26		SPV-5-U-W2
6	6		M6	115	66	100	30	3	6.5	12	6.5		SPV-6-M-W2
			1/4-20 UNC	4.53	2.60	3.94	1.18	.12	.26	.47	.26		SPV-6-U-W2
7	7		M6	150	94	136	30	5	6.5	12	6.5		SPV-7-M-W2
			1/4-20 UNC	5.91	3.70	5.35	1.18	.20	.26	.47	.26		SPV-7-U-W2
8	8		M6	178	120	162	30	5	6.5	12	6.5		SPV-8-M-W2
			1/4-20 UNC	7.01	4.72	6.38	1.18	.20	.26	.47	.26		SPV-8-U-W2
7M			M10	180	155	100	40	8	15.7	17.8	12		SPV-7M-M-W2
			3/8-16 UNC	7.09	6.10	3.94	1.57	.31	.62	.70	.47		SPV-7M-U-W2
8M			M10	220	195	140	45	8	15.7	17.8	12		SPV-8M-M-W2
			3/8-16 UNC	8.66	7.68	5.51	1.77	.31	.62	.70	.47		SPV-8M-U-W2





STAUFF Group 1



STAUFF Group 1A to 8

Twin Weld Plate for 2 Clamp Bodies Type DSP



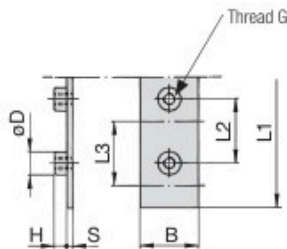
Group STAUFF	DIN	Dimensions (mm/in) Thread G	L1	L2	L3	B	S	H	ØD	Ordering Codes (Standard Options)
1	0	M6	87	40	40	30	3	6.5	12	DSP-1-40-M-W2
		1/4-20 UNC	3.43	1.57	1.57	1.18	.12	.26	.47	DSP-1-40-U-W2
1A	1	M6	77	20	37	30	3	6.5	12	DSP-1A-37-M-W2
		1/4-20 UNC	3.03	.79	1.46	1.18	.12	.26	.47	DSP-1A-37-U-W2
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.

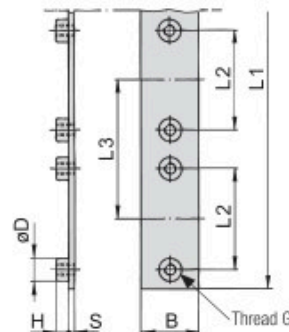
Ordering Codes

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 Unified coarse (UNC) thread
* Material code	Carbon Steel, phosphated Carbon Steel, zinc/nickel-plated Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303) Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)
	W2 W3 W4 W5



STAUFF Group 1



STAUFF Group 1A to 8

Group Weld Plate for 5 or 10 Clamp Bodies Type RAP



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

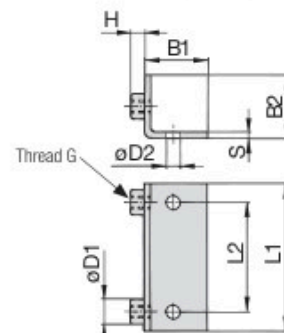
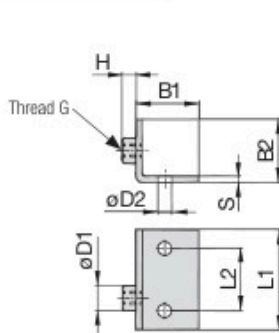
Ordering Codes

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 Unified coarse (UNC) thread
* Material code	Carbon Steel, phosphated Carbon Steel, zinc/nickel-plated Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303) Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)
	W2 W3 W4 W5



Angled Weld Plate Type WSP



STAUFF Group 1

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

Ordering Codes

Weld Plate

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

★ Angled Weld Plate

WSP

★ STAUFF Group

1

★ Thread code

Metric ISO thread

M

Unified coarse (UNC) thread

U

★ Material code

Carbon Steel, phosphated

W2

Carbon Steel, zinc/nickel-plated

W3

Stainless Steel V2A

W4

1.4301 / 1.4305 (AISI 304 / 303)

Stainless Steel V4A

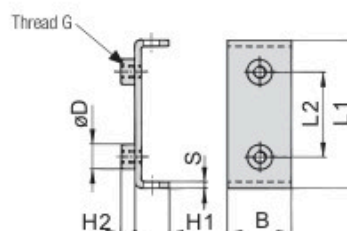
W5

1.4401 / 1.4571 (AISI 316 / 316 Ti)

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

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

Bridge Weld Plate Type BSP



Ordering Codes

Weld Plate

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

★ Bridge Weld Plate

BSP

★ STAUFF Group

1A

★ Thread code

Metric ISO thread

M

Unified coarse (UNC) thread

U

★ Material code

Carbon Steel, phosphated

W2

Carbon Steel, zinc/nickel-plated

W3

Stainless Steel V2A

W4

1.4301 / 1.4305 (AISI 304 / 303)

Stainless Steel V4A

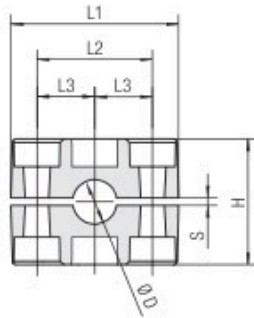
W5

1.4401 / 1.4571 (AISI 316 / 316 Ti)

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

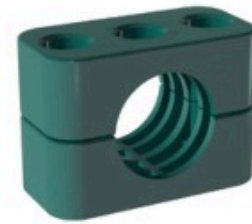
All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.





STAUFF Group 5

Clamp Body for Multi-Group Weld Plate Type MGR



Ordering Codes

Clamp Body

***5*20-*PP-MGR**

One clamp body is consisting of two clamp halves.

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

Standard Materials



Polypropylene

Colour: Green

Material code: **PP-MGR**


Polyamide

Colour: Black

Material code: **PA-MGR**

See pages 178 / 179 for properties and technical information.

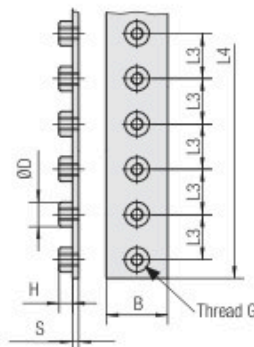
Group	Outside Diameter Pipe / Tube Ø D (mm) (in)	Nominal Bore Pipe (in)	Copper Tube ASTM B88 (in)	Ordering Codes (2 Clamp Halves) (** = Material)	Dimensions (mm/in)	L1	L2	L3	H	S min.	Width
5	20			520-**-MGR							
	21,3		1/2	521.3-**-MGR							
	22		3/4	522-**-MGR							
	23			523-**-MGR							
	25			525-**-MGR							
	26,9		3/4	526.9-**-MGR							
	28			528-**-MGR	71	52	26	58	0,8	30	
	30			530-**-MGR	2.80	2.05	1.02	2.28	.03	1.18	
	32	1-1/4		532-**-MGR							
	33,7		1	533.7-**-MGR							
	35		1-1/4	535-**-MGR							
	38	1-1/2		538-**-MGR							
	40			540-**-MGR							
	42		1-1/4	542-**-MGR							

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

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



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**

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

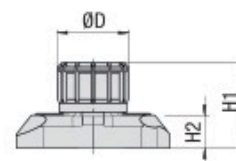
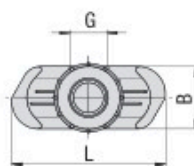
Cover a diameter range from 8 mm (.31 in) to 42 mm (1.65 in) with only one Group Weld Plate!

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


Hexagon Rail Nut

(for Use with Mounting Rail TS)

Type SM



Ordering Codes

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

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

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

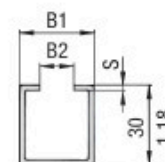
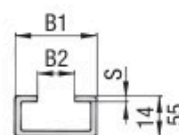
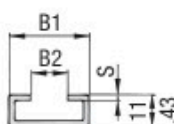
Hexagon Rail Nuts, type SM-1-8/1D are also suitable for Twin Series, STAUFF Group 1D.

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

Mounting Rail

(for Use with Hexagon Rail Nut SM)

Type TS



Mounting Rail TS-11

Mounting Rail TS-14

Mounting Rail TS-30

Ordering Codes

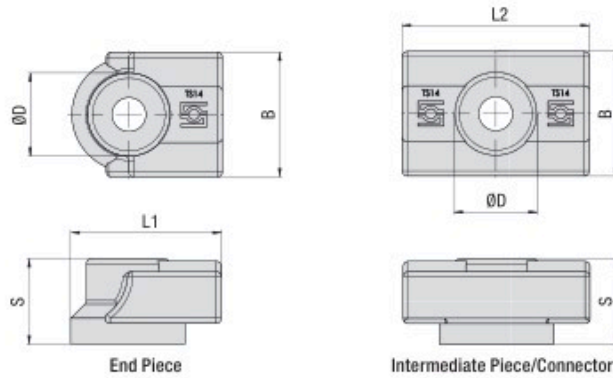
Mounting Rail *TS-*11-*1M-*W1

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

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

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





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



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

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

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

Ordering Code

Fastening Adaptor

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

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

Product Features

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

Material: Polyamide

Instructions for Use

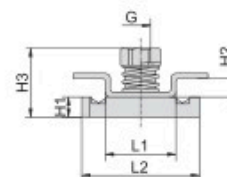
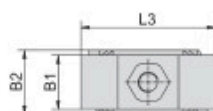
- Are pressed into the side of the Mounting Rail TS-14 and bolted to the installation
- Positioning of the mounting rail 2 mm above the installation
- Initially designed for use with weld studs with internal thread M6
- Can also be used with M6 bolts – depending on the load, an internal support sleeve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



Channel Rail Adaptor

(for Use with Various Channel Rails)

Type CRA



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 **W5**

1.4401 / 1.4571 (AISI 316 / 316 Ti)

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											
5		5											
6		6											
7		7											
8		8											
7M			M8	21	35	38	80	19	9	5,5	23,5	CRA-7-8ML-M-W3	
8M		5/16-18 UNC	.83	1.38	1.50	3.15	.75	.3	.22	.93	CRA-7-8ML-U-W3		

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

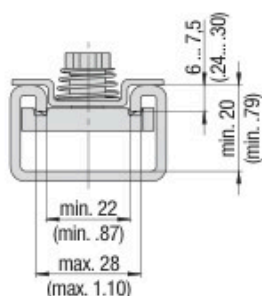
All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Compatibility with Channel Rails

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

HALFEN	HILTI	UNISTRUT®	STAUFF (Cushion Clamp Series)
HM 41/41	MQ-21, MQ-41, MQ-52, MQ-72	P1000, P1000T, P1000V, P1000VT, P1001	SCS-048-1-PL, SCS-048-1-GR
HZA 41/22	MQ-21U, MQ-41U, MQ-72U	P2000, P2000T	SCS-120-1-PL, SCS-120-1-GR
HZM 41/41	MQ-21D, MQ-41D, MQ-52-72D	P3003, P3003T, P3000V, P3000VT, P3301	See page 149 for technical information.
HZM 41/22		P4000, P4000T	
HL 41/41, HL 41/82		P5000, P5000T, P5001, P5500, P5500T, P5501	

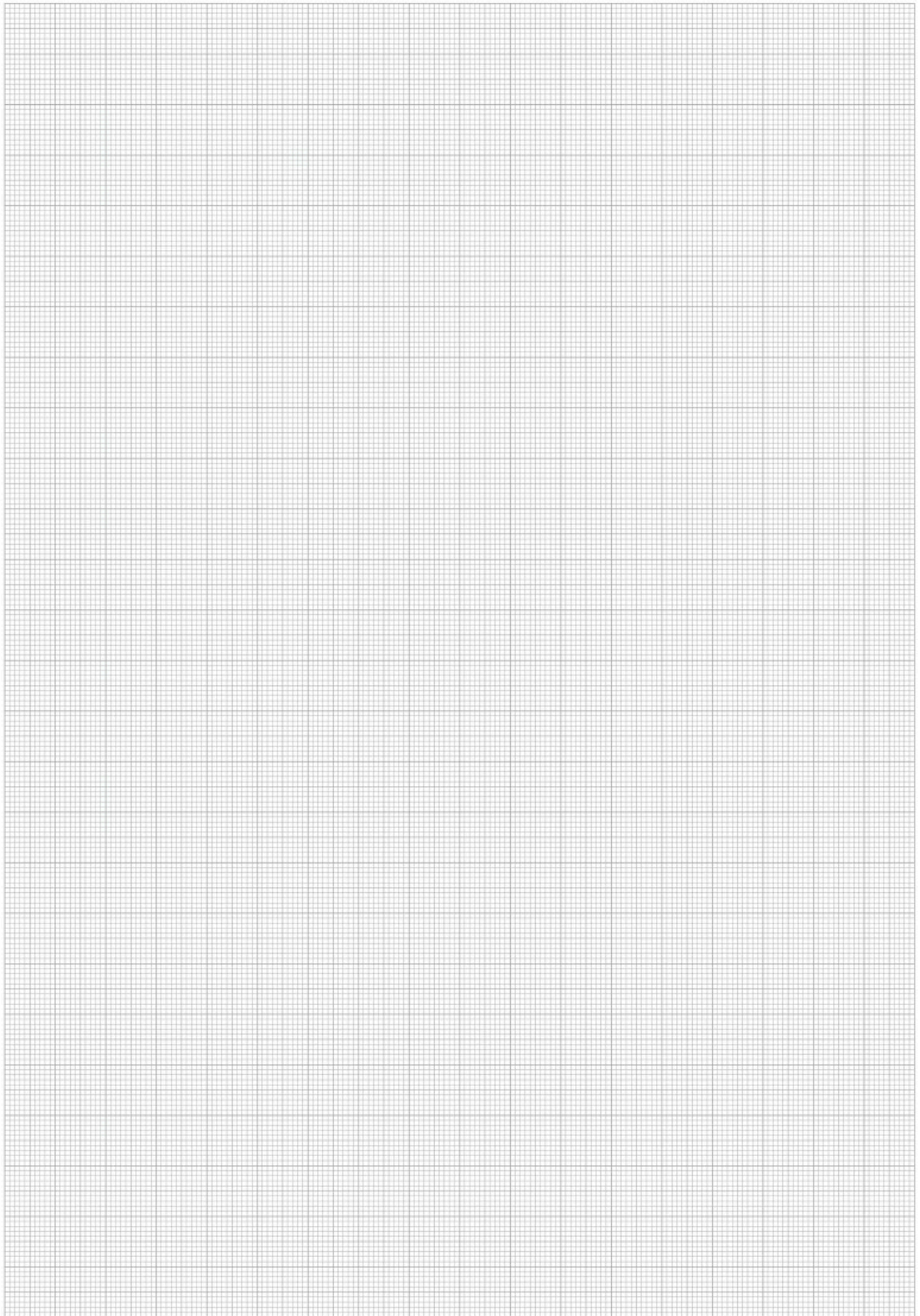
To check the compatibility with additional types of channel rail, please compare the dimensions with the following drawing before use.



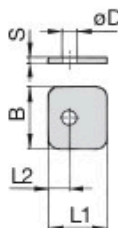
**Basic dimensional requirements for channel rails
to be used with STAUFF Channel Rail Adaptors, type CRA**

Dimensional drawings: All dimensions in mm (in).

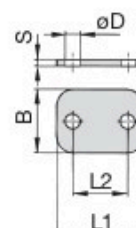




Cover Plate Type DP



STAUFF Group 1



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

Ordering Codes

Cover Plate

*DP-*1-*W3

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

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

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

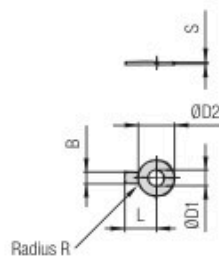
Hexagon Head Bolt *AS-*M6x30-*W3

* 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	
	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)
1	0		M6 x 30		AS-M6x30-W3
				1/4-20 UNC x 1-1/4	AS-1/4-20UNCx1-1/4-W3
1A	1		M6 x 30		AS-M6x30-W3
				1/4-20 UNC x 1-1/4	AS-1/4-20UNCx1-1/4-W3
2	2		M6 x 35		AS-M6x35-W3
				1/4-20 UNC x 1-3/8	AS-1/4-20UNCx1-3/8-W3
3	3		M6 x 40		AS-M6x40-W3
				1/4-20 UNC x 1-1/2	AS-1/4-20UNCx1-1/2-W3
4	4		M6 x 45		AS-M6x45-W3
				1/4-20 UNC x 1-7/8	AS-1/4-20UNCx1-7/8-W3
5	5		M6 x 60		AS-M6x60-W3
				1/4-20 UNC x 2-3/8	AS-1/4-20UNCx2-3/8-W3
6	6		M6 x 70		AS-M6x70-W3
				1/4-20 UNC x 2-3/4	AS-1/4-20UNCx2-3/4-W3
7	7		M6 x 100		AS-M6x100-W3
				1/4-20 UNC x 4	AS-1/4-20UNCx4-W3
8	8		M6 x 125		AS-M6x125-W3
				1/4-20 UNC x 4-7/8	AS-1/4-20UNCx4-7/8-W3
7M			M10 x 110		AS-M10x110-W3
				3/8-16 UNC x 4-1/3	AS-3/8-16 UNC x 4-1/3-W3
8M			M10 x 145		AS-M10x145-W3
				3/8-16 UNC x 5-6/8	AS-3/8-16 UNC x 5-6/8-W3

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





Safety Washer 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		Dimensions (mm./in.)						Ordering Codes (Standard Options)
STAUFF	DIN	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.

Safety Washer

(for Use with Hexagon Head Bolt AS)

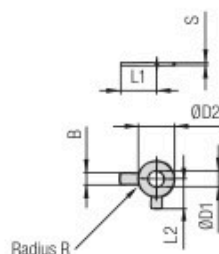
Type SI (DIN 93)



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 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		Dimensions (mm/in)							Ordering Codes (Standard Options)
STAUFF	DIN	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.

Safety Washer

(for Use with Hexagon Head Bolt AS)

Type SI (DIN 463)



Ordering Codes

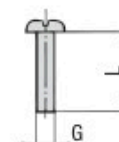
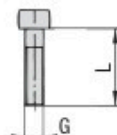
Safety Washer *SI-*6.4-*DIN463-*W3

* 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 Type IS	Slotted Head Screw 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**

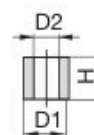
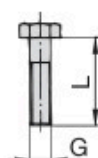
★ Material code	Carbon Steel, zinc/nickel-plated	W3
	Stainless Steel V2A	W4
	1.4301 / 1.4305 (AISI 304 / 303)	
	Stainless Steel V4A	W5
	1.4401 / 1.4571 (AISI 316 / 316 Ti)	

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

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

Group		Dimensions (mm/in.)				Ordering Codes	
STAUFF	DIN	D1	D2	H ES	H EP	(Standard Options)	
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.

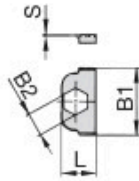


Safety Locking Plate

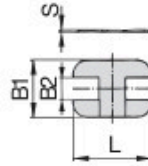
(for Use with Stacking Bolt AF)

Type SIG

A



STAUFF Group 1



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



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

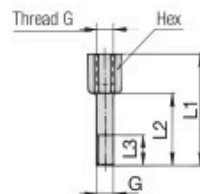
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Ordering Codes

Safety Locking Plate

***SIG-*1-*W3**

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



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

Stacking Bolt

(for Use with Safety Locking Plate SIG)

Type AF



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





① Type of Installation

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

Without Installation Equipment
Code: **none**

Installation on Weld Plate

Single Weld Plate
Code: **SP**

Elongated Weld Plate
Code: **SPV**

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

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

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

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

Installation on Mounting / Channel Rail

Hexagon Rail Nut
Code: **SM**

Channel Rail Adaptor
Code: **CRA**

② Group Size & Diameter

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

Group	Outside Diameter	Availability of Clamp			Code
		STAUFF (DIN)	P / T / H (mm)	Body Materials & Designs 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
3 (3)	15			●	215
	16			●	216
	17,2			●	217.2
	18			●	218
	19			●	319
4 (4)	20			●	320
	21,3			●	321.3
	22			●	322
	25			●	325
	25,4			●	325.4
5 (5)	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	Outside Diameter	Availability of Clamp			Code
		STAUFF (DIN)	P / T / H (mm)	Body Materials & Designs Profiled Design Type H Type RI	
5 (5)	32			●	532
	33,7			●	533.7
	35			●	535
	38			●	538
	40			●	540
6 (6)	41,3			○	541.3
	42			●	542
	20			○	620
	21,3			○	621.3
	22			○	622
7 (7)	25			○	625
	26,9			○	626.9
	28			○	628
	30			○	630
	32			○	632
8 (8)	44,5			●	644.5
	48,3			●	648.3
	50,8			●	650.8
	54			●	654
	57,2			●	757.2
9 (9)	60,3			●	760.3
	63,5			●	763.5
	70			●	770
	73			●	773
	76,1			●	776.1
10 (10)	88,9			●	888.9
	102			●	8102L

● Standard Option



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

③ Clamp Body Design & Material

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

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

Profiled Design



Polypropylene
Code: **PP**



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



Polyamide
Code: **PA**



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



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

Type H (Smooth)



Polypropylene
Code: **PP-H**



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



Polyamide
Code: **PA-H**



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

Type RI (with Elastomer Insert)



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



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

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

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

④ Mounting & Fitting Combination

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

Installation with Cover Plate and Bolts

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

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

Installation with Locking Plate and Bolts

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

Installation with Inserts and Bolts

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

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

Installation with Bolts only

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

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

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

⑤ Thread Type

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

Metric ISO thread
Code: **M**

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

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

⑥ Material & Surface Finishing

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

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

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

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

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

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

⑦ Assembling & Kitting

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

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

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

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



A



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

Order Code**SP-212.7-PP-DP-AS-M-W10**

W10 is the standard option for this type of installation.



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

Order Code**SP-212.7-PP-IS-M-W10**

W10 is the standard option for this type of installation.



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

Order Code**SP-212.7-PP-LI-M-W10**W10 is the standard option for this type of installation.
Available up to STAUFF Group 6 (DIN Group 6) only.

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

Order Code**SPV-212.7-PP-DP-AS-M-W10**

W10 is the standard option for this type of installation.



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

Order Code**SPV-212.7-PP-IS-M-W10**

W10 is the standard option for this type of installation.



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

Order Code**SPV-212.7-PP-LI-M-W10**W10 is the standard option for this type of installation.
Available up to STAUFF Group 6 (DIN Group 6) only.

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

Order Code (Mounting Rail TS not included.)**SM-212.7-PP-DP-AS-M-W3**

W3 is the standard option for this type of installation.



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

Order Code (Mounting Rail TS not included.)**SM-212.7-PP-IS-M-W3**

W3 is the standard option for this type of installation.



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

Order Code (Mounting Rail TS not included.)**SM-212.7-PP-LI-M-W3**W3 is the standard option for this type of installation.
Available up to STAUFF Group 6 (DIN Group 6) only.



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

Order Code

212.7-PP-DP-AS-M-W3

W3 is the standard option for this type of installation.



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

Order Code

212.7-PP-IS-M-W3

W3 is the standard option for this type of installation.



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

Order Code

212.7-PP-LI-M-W3

W3 is the standard option for this type of installation.



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

Order Code

212.7-PP-SIG-AF-M-W3

W3 is the standard option for this type of installation.



- 1x **Socket Cap Screw**
with Washer
Surface: W3
Thread: Metric
- 1x **Clamp Body** (two halves)
STAUFF Group 1 (DIN 0)
O.D. 6 mm / .24 in
Material: Polypropylene
Profiled inside surface
with tension clearance
Thread: Metric
- 1x **Single Weld Plate**
Surface: W2
Thread: Metric

Order Code*

SP-106-PP-IS-M-W10

W10 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 Standard Series clamp assemblies. Individual combinations of alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

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

Technical Notes

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



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

Order Code

SP-212.7-PP-EP-AS-M-W10

W10 is the standard option for this type of installation.



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

Order Code

SPV-212.7-PP-EP-AS-M-W10

W10 is the standard option for this type of installation.







Clamp Body
Profiled Inside Surface with Tension Clearance

38



Clamp Body
Smooth Inside Surface without Tension Clearance

40



Clamp Body with Elastomer Insert

42



Noise Reduction Clamp

43



Weld Plate for Single Clamps

SPAL

44



Weld Plate for Double Clamps

SPAS

44



Elongated Weld Plate for Single Clamps

SPAL-DUEB

45



Elongated Weld Plate for Double Clamps

SPAS-DUEB

45



Mounting Rail Nut

GMV

46



Mounting Rail

STSV

46



Channel Rail Adaptor

CRA

47



Cover Plate for Single Clamps

DPAL

50



Cover Plate for Double Clamps

DPAS

50



Hexagon Head Bolt

AS

51



Socket Cap Screw

IS

51



Safety Washer (DIN 93)

SI

52



Safety Washer (DIN 463)

SI

52



Safety Locking Plate

SIP

53



Stacking Bolt

AF

53

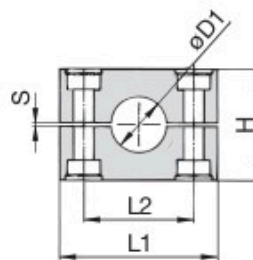
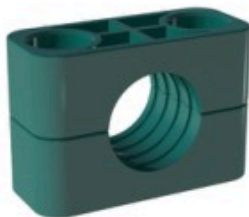
Clamp Assemblies

54



Clamp Body • Profiled Design

Profiled Inside Surface with Tension Clearance



Ordering Codes

Clamp Body

***3*006-*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)

3
006
PP

Standard Materials

**Polypropylene**

Colour: Green

Material code: **PP****Polypropylene**

Colour: Black

Material code: **PP-BK****Polyamide**

Colour: Black

Material code: **PA****Thermoplastic Elastomer (87 Shore-A)**

Colour: Black

Material code: **SA87****Aluminium**

Colour: Self-Colour

Material code: **AL**

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

Special Materials

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

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

Product Features

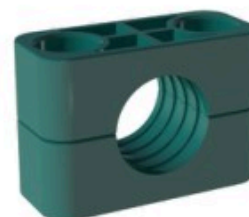
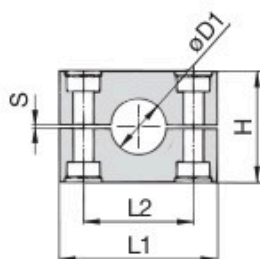
- Proven, tested and trusted product in various markets
- Recommended for the safe installation of rigid pipes and tubes
- Available for all commonly used pipe and tube outside diameters
- Environmental protection due to vibration/noise reducing design
- Excellent weathering resistance, even under extreme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

Group	STAUFF	DIN	Outside Diameter		Nominal Bore		Ordering Codes (2 Clamp Halves) (** = Material)	Dimensions (mm/in)					
			Pipe / Tube Ø D1 (mm)	(in)	Pipe (in)	Copper Tube ASTM B88 (in)		L1 PP/PA/SA	L1 AL	L2	H	S min.	Width
3S	1		6				3006-**-**						
			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-**-**						
6S	4		42		1-1/4		6042-**-**						
			44,5	1-3/4			6044.5-**-**						
			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 39 for STAUFF Group 7S to 12S (DIN Group 5 to 10).

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



Clamp Body • Profiled Design
Profiled Inside Surface with Tension Clearance

B

Group	DIN	Outside Diameter		Nominal Bore	Ordering Codes (2 Clamp Halves) (** = Material)	Dimensions (*** / **)					
		Pipe / Tube	Ø D1			L1	L1	L2	H	S min.	Width
		(mm)	(in)	Pipe (in)		PP/PA	AL				
7S	5	60,3			7060.3-**-*						
		65			7065-**-*						
		70	2-3/4		7070-**-*						
		73		2-1/2 (ANSI B 36-10)	7073-**-*	154	152	122	120	2	60
		75			7075-**-*	6.06	5.98	4.80	4.72	.08	2.36
		76,1	3	2-1/2 (DIN EN 10220)	7076.1-**-*						
		80			7080-**-*						
		82,5			7082.5-**-*						
8S	6	88,9	3-1/2	3	7088.9-**-*						
		100			8088.9-**-*						
		102	4	3-1/2	8102-**-*	206	208	168	168	2	80
		108			8108-**-*	8.11	8.19	6.61	6.61	.08	3.15
		114	4-1/2	4	8114-**-*						
		127	5		8127-**-*						
		133			8133-**-*						
		127	5		9127-**-*						
9S	7	133			9133-**-*						
		140		5	9140-**-*	251	255	205	200	3	91
		152	6		9152-**-*	9.88	10.04	8.07	7.87	.12	3.58
		159			9159-**-*						
		165			9165-**-*						
		168		6	9168-**-*						
10S	8	168		6	10168-**-*						
		177,8			10177.8-**-*						
		193,7			10193.7-**-*	336	326	265	270	3	120
		203	8		10203-**-*	13.22	12.83	10.43	10.63	.12	4.72
		216			10216-**-*						
		219		8	10219-**-*						
11S	9	219		8	11219-**-*	470	470	395	410	8	162
		273		10	11273-**-*	18.50	18.50	15.55	16.14	.31	6.38
		324		12	11324-**-*						
12S	10	356		14	12356-**-*	630	630	534	530	20	182
		406		16	12406-**-*	24.80	24.80	21.02	20.87	.79	7.16

See page 38 for STAUFF Group 3S to 6S (DIN Group 1 to 4).

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

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 178 / 179 for material properties and technical information.

Special Materials

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

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

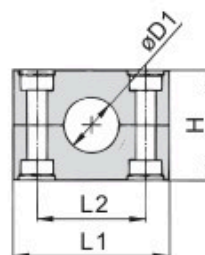
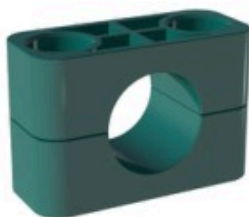
Product Features

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



Clamp Body • Type H

Smooth Inside Surface without Tension Clearance



Ordering Codes

Clamp Body

*3*006-*PP-H

One clamp body is consisting of two clamp halves.

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

Standard Materials



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



Polypropylene
Colour: Green
Material code: **PP-H-BK**



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



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

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

Special Materials

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

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

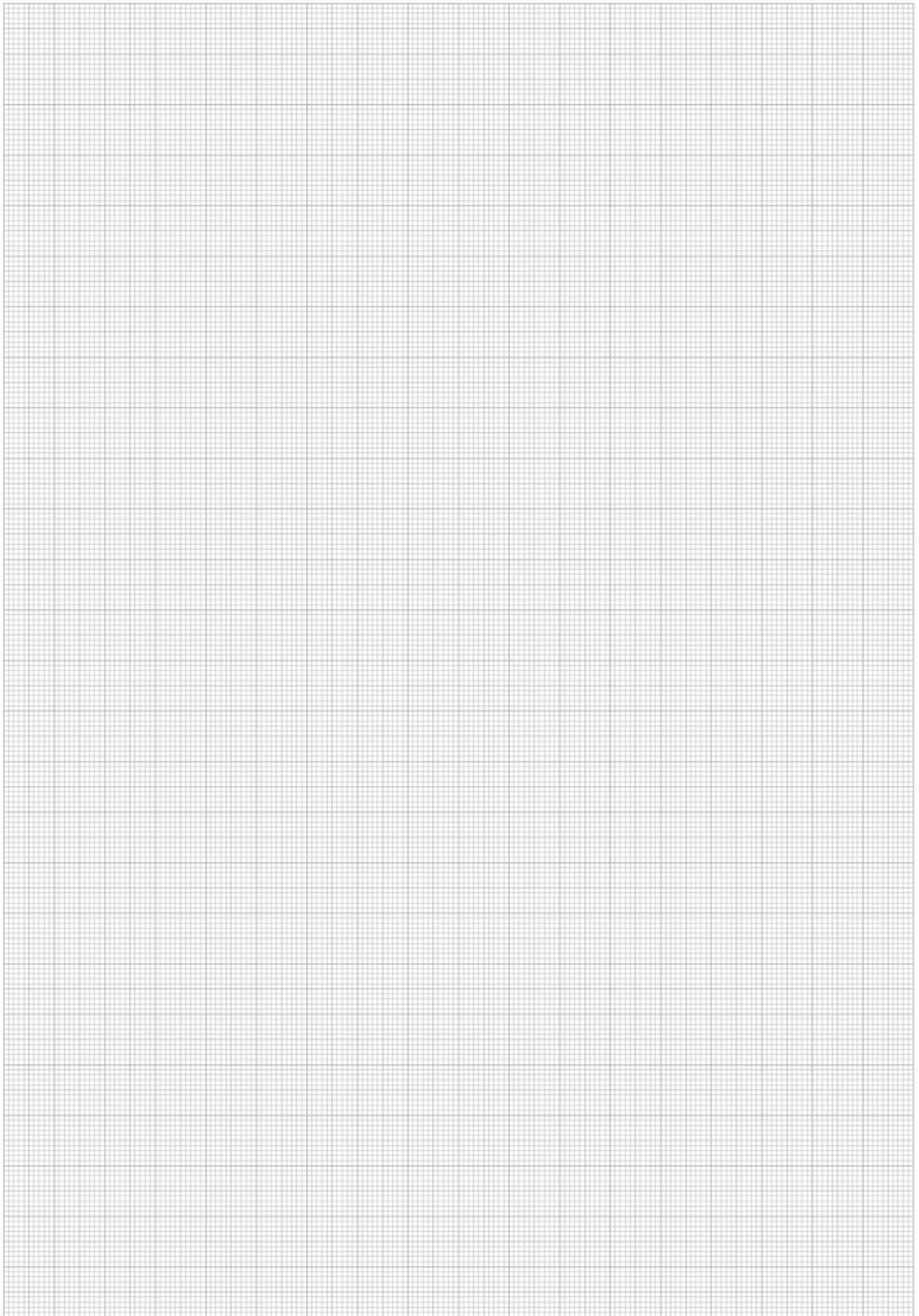
Product Features

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

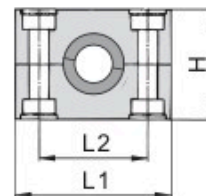
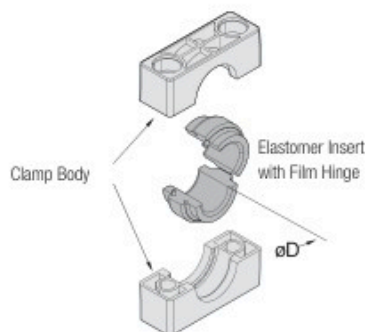
Group	STAUFF	DIN	Outside Diameter		Ordering Codes (2 Clamp Halves) (*-*H = Material)	Dimensions (mm)			
			Hose Ø D1 (mm)	(in)		L1	L2	H	Width
3S	1		6		3006-*-*H	55	33	30,5	30,5
			6,4	1/4	3006.4-*-*H				
			8	5/16	3008-*-*H				
			9,5	3/8	3009.5-*-*H				
			10		3010-*-*H				
			12		3012-*-*H				
			12,7	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				
			19	3/4	4019-*-*H				
4S	2		20		4020-*-*H	70	45	46,5	30,5
			21,3		4021.3-*-*H				
			22	7/8	4022-*-*H				
			25		4025-*-*H				
			25,4	1	4025.4-*-*H				
			26,9		4026.9-*-*H				
			28		4028-*-*H				
			30		4030-*-*H				
			30		5030-*-*H	85	60	58	30,5
			32	1-1/4	5032-*-*H				
5S	3		33,7		5033.7-*-*H				
			35		5035-*-*H				
			38	1-1/2	5038-*-*H				
			40		5040-*-*H				
			41,3		5041.3-*-*H				
			42		5042-*-*H				
			38	1-1/2	6038-*-*H	115	90	87	45
			42		6042-*-*H				
6S	4		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



Ordering Codes

Clamp Assembly *4*006-*PP-R

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

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

Clamp Body *4S-*PP-R

One clamp body is consisting of two clamp halves.

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

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

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

Standard Materials



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



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



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

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

Special Materials

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

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

Group	STAUFF	DIN	Outside Diameter		Ordering Codes (* = Material			Dimensions				
			Pipe / Tube / Hose Ø D	(mm) (in)	Clamp Assembly (Clamp Body + Insert)	Clamp Body (2 Clamp Halves)	Insert *	Ø D1	L1	L2	H	Width
4S	2	6		4006-**-R	4S-**-R	RI-06-4/4S-*	25.98	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-*						
5S	3	19	3/4	4019-**-R	5S-**-R	RI-19-4/4S-*	38.15	85	60	58	30,5	
		20		5020-**-R		RI-20-6/5S-*						
		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-*						
6S	4	32	1-1/4	5032-**-R	6S-**-R	RI-32-6/5S-*	64.25	115	90	87	45	
		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-*						
7S	5	53,4		6053.4-**-R	7S-**-R	RI-53.4-6S-*	88.36	154	122	120	60	
		56,4		6056.4-**-R		RI-56.4-6S-*						
		55		7055-**-R		RI-55-7S-*						
		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-*						
8S	6	72		7072-**-R	8S-**-R	RI-72-7S-*	114.49	208	168	168	80	
		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-*						
9S	7	102		8102-**-R	9S-**-R	RI-102-8S-*	150.59	251	205	200	91	
		114		9114-**-R		RI-114-9S-*						
		133	5-1/4	9133-**-R		RI-133-9S-*						
10S	8	140		9140-**-R	10S-**-R	RI-140-9S-*	200.78	336	265	270	120	
		150		10150-**-R		RI-150-10S-*						
		165		10165-**-R		RI-165-10S-*						
		168		10168-**-R		RI-168-10S-*						
		172		10172-**-R		RI-172-10S-*						

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

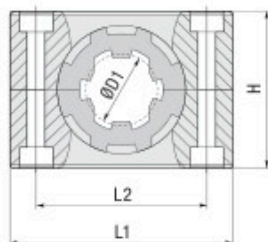
Additional outside diameters are available upon request. Please contact STAUFF for further information.

Product Features

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



Noise Reduction Clamp Type NRC



B

Group	STAUFF DIN	Outside Diameter Pipe / Tube Ø D1 (mm) (in)		Ordering Codes (* = Material) Clamp Assembly (Clamp Body + NRC Insert)		NRC Insert		Dimensions (mm/in)			
								L1	L2	H	Width Bolts
3S	1	6		3006-PP-NRC	3S-PP-RI-S/NRC	RI-NRC-06-3S-*		55	33	30,5	
		8	5/16	3008-PP-NRC		RI-NRC-08-3S-*					
		10		3010-PP-NRC		RI-NRC-10-3S-*					
		12		3012-PP-NRC		RI-NRC-12-3S-*					
		12,7	1/2	3012.7-PP-NRC		RI-NRC-12.7-3S-*					
4S	2	14		4014-PP-NRC	4S-PP-RI-S/NRC	RI-NRC-14-4S-*		70	45	48	30,5
		15		4015-PP-NRC		RI-NRC-15-4S-*					
		16	5/8	4016-PP-NRC		RI-NRC-16-4S-*					
		17,2		4017.2-PP-NRC		RI-NRC-17.2-4S-*					
		18		4018-PP-NRC		RI-NRC-18-4S-*					
		19	3/4	4019-PP-NRC		RI-NRC-19-4S-*					
		20		4020-PP-NRC		RI-NRC-20-4S-*					
		21,3		4021.3-PP-NRC		RI-NRC-21.3-4S-*					
		22	7/8	4022-PP-NRC		RI-NRC-22-4S-*					
		25		5025-PP-NRC		RI-NRC-25-5S-*					
5S	3	26,9		5026.9-PP-NRC	5S-PP-RI-S/NRC	RI-NRC-26.9-5S-*		85	60	58	
		28		5028-PP-NRC		RI-NRC-28-5S-*					
		30		5030-PP-NRC		RI-NRC-30-5S-*					
		32	1-1/4	5032-PP-NRC		RI-NRC-32-5S-*					
		38	1-1/2	5038-PP-NRC		RI-NRC-38-5S-*					
6S	4	33,7		6033.7-PP-NRC	6S-PP-RI-S/NRC	RI-NRC-33.7-6S-*		115	90	85	45
		35		6035-PP-NRC		RI-NRC-35-6S-*					
		38	1-1/2	6038-PP-NRC		RI-NRC-38-6S-*					
		38,7		6038.7-PP-NRC		RI-NRC-38.7-6S-*					
		40		6040-PP-NRC		RI-NRC-40-6S-*					
		42		6042-PP-NRC		RI-NRC-42-6S-*					
		45,5		6045.5-PP-NRC		RI-NRC-45.5-6S-*					
		48		6048-PP-NRC		RI-NRC-48-6S-*					
		51		6051-PP-NRC		RI-NRC-51-6S-*					
		53,4		6053.4-PP-NRC		RI-NRC-53.4-6S-*					
		57		6057-PP-NRC		RI-NRC-57-6S-*					
		60		6060-PP-NRC		RI-NRC-60-7S-*					
7S	5	63,5		6063.5-PP-NRC	7S-PP-RI-S/NRC	RI-NRC-63.5-7S-*		154	122	116	60
		65		6065-PP-NRC		RI-NRC-65-7S-*					
		70	2-3/4	6070-PP-NRC		RI-NRC-70-7S-*					
		72		6072-PP-NRC		RI-NRC-72-8S-*					
8S	6	76		6076-PP-NRC	8S-PP-RI-S/NRC	RI-NRC-76-8S-*		206	168	164	80
		80		6080-PP-NRC		RI-NRC-80-8S-*					
		88,9	3-1/2	6088.9-PP-NRC		RI-NRC-88.9-8S-*					

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

Product Features

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

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

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

Ordering Codes

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

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

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

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

One NRC clamp body is consisting of two clamp halves.

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

NRC Elastomer Insert

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

One NRC elastomer insert is consisting of two insert halves.

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

Standard Materials



Polypropylene
Colour: Black
Material code: PP



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

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

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

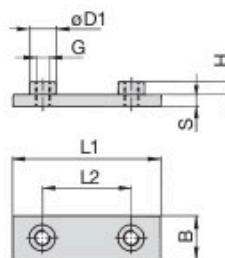
Special Materials

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

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



Weld Plate for Single Clamps Type SPAL



Ordering Codes

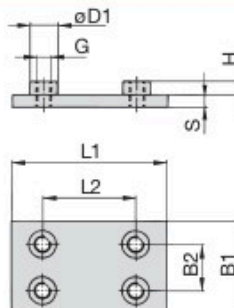
Weld Plate *SPAL-*3S-*M-*W2

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

Group	DIN	Dimensions (mm/in)						Thread G	ØD1	Ordering Codes (Standard Options)
STAUFF		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

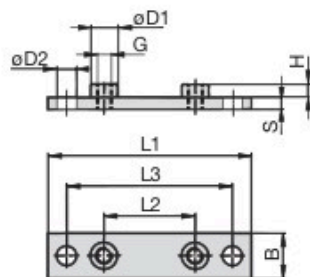
★ Weld Plate for Double Clamps	SPAS
★ STAUFF Group	3S
★ Thread code	Metric ISO thread
	Unified coarse (UNC) thread
★ Material code	Carbon Steel, uncoated
	Carbon Steel, phosphated
	Carbon Steel, zinc/nickel-plated
	Stainless Steel V2A
	1.4301 / 1.4305 (AISI 304 / 303)
	Stainless Steel V4A
	1.4401 / 1.4571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

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

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

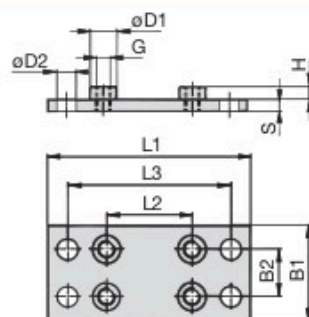
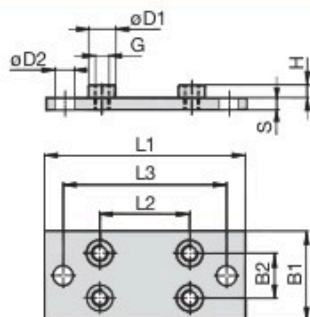
Group	Dimensions (mm/in)	Ordering Codes
STAUFF DIN	L1 L2 L3 B S H Thread G ØD1 ØD2 (Standard Options)	
3S	1 113 33 85 30 8 8 M10 18 13	SPAL-DUEB-3S-M-W2
	4.45 1.30 3.35 1.18 .31 .31 3/8-16 UNC .71 .51	SPAL-DUEB-3S-U-W2
4S	2 125 45 97 30 8 8 M10 18 13	SPAL-DUEB-4S-M-W2
	4.92 1.77 3.82 1.18 .31 .31 3/8-16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

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



STAUFF Group 3S to 9S

STAUFF Group 10S to 12S

Group	Dimensions (mm/in)	Ordering Codes
STAUFF DIN	L1 L2 L3 B1 B2 S H Thread G ØD1 ØD2 (Standard Options)	
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

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

Elongated Weld Plate for Double Clamps Type SPAS-DUEB



Design for STAUFF Group 10S to 12S

Ordering Codes

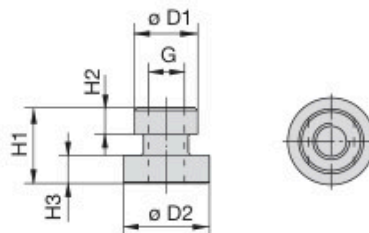
Weld Plate *SPAS-DUEB-*3S-*M-*W2

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



Mounting Rail Nut

(for Use with Mounting Rail STSV)
Type GMV



Ordering Codes

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

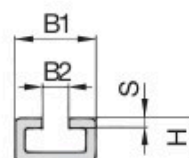
* Mounting Rail Nut		GMV
* STAUFF Group	3S to 5S (DIN Group 1 to 3)	3-5S
	6S (DIN Group 4)	6S
* Thread code	Metric ISO thread	M
	Unified coarse (UNC) thread	U
* Material code	Carbon Steel, zinc/nickel-plated	W3
	Stainless Steel V2A	W4
	1.4301 / 1.4305 (AISI 304 / 303)	
	Stainless Steel V4A	W5
	1.4401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

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

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

Mounting Rail

(for Use with Mounting Rail Nut GMV)
Type STSV



Ordering Codes

Mounting Rail *STSV-*1M-*W1

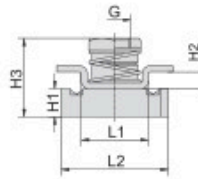
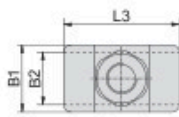
* Mounting Rail		STSV
* Length of rail	1 m / 3.28 ft	1M
	2 m / 6.56 ft	2M
	Alternative lengths available upon request. Contact STAUFF for further information.	
* Material code	Carbon Steel, uncoated	W1
	Carbon Steel, zinc-plated, blue-chromated	W32
	Stainless Steel V4A	W5
	1.4401 / 1.4571 (AISI 316 /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

Group	DIN	Dimensions (mm/in)		H	S	Ordering Codes (Standard Options)	
STAUFF		B1	B2			Length of Rail: 1 m / 3.28 ft	Length of Rail: 2 m / 6.56 ft
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)	L1	L2	L3	B1	B2	H1	H2	H3	Ordering Codes (Standard Options)
3S	1										
4S	2	M10 3/8-16 UNC	22 .87	35 1.38	38 1.50	22 .87	20.5 .81	9.2 .36	5.5 .22	27.5 1.08	CRA-3-5S-M-W3 CRA-3-5S-U-W3
5S	3										
6S	4	M12 7/16-14 UNC	21.5 .85	35 1.38	45 1.77	25 .98	19 .75	9.2 .36	5 .20	24.5 .57	CRA-6S-M-W3 CRA-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.

Ordering Codes

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

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

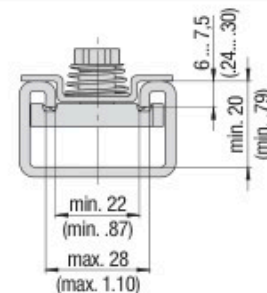
Compatibility with Channel Rails

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



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

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

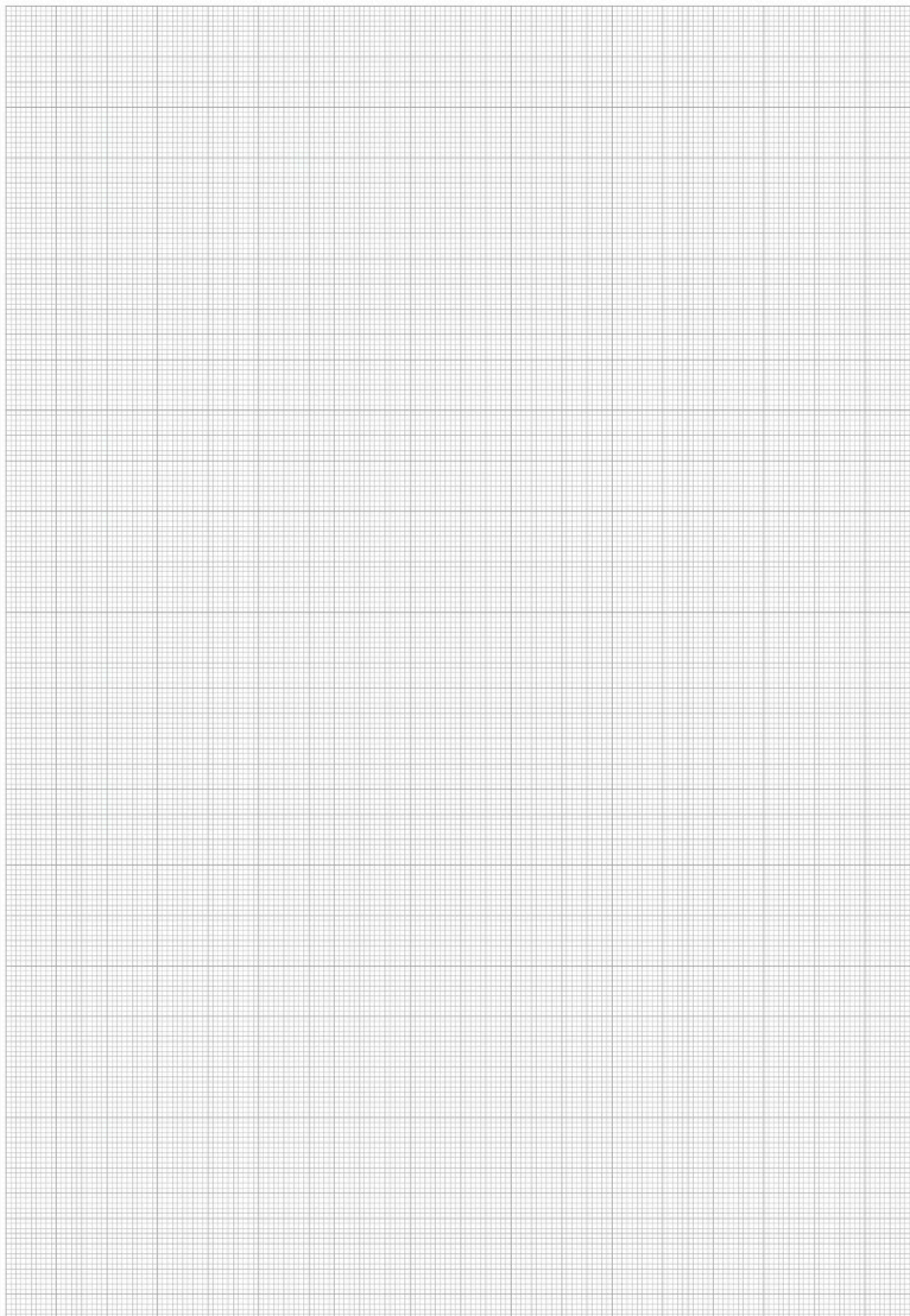
Recommended Bolt Lengths when using the Channel Rail Adaptor, Type CRA

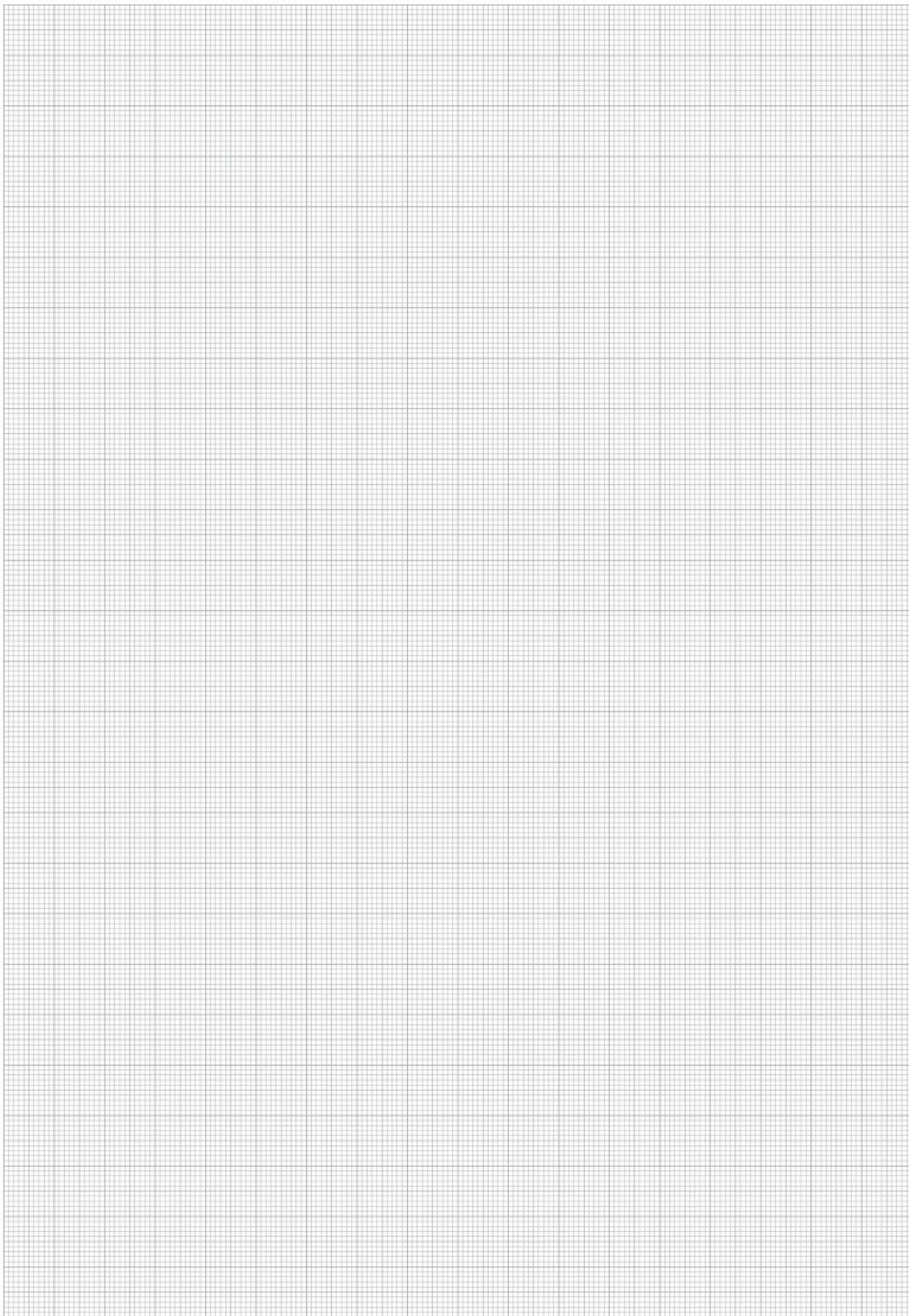
Group STAUFF	DIN	Hexagon Head Bolts AS (used with Cover Plates DPAL or DPAS)	Socket Cap Screws IS (used without Cover Plates DPAL or DPAS)
		Metric ISO thread	Metric ISO thread
3S	1	M10 x 40	M10 x 25
4S	2	M10 x 55	M10 x 40
5S	3	M10 x 65	M10 x 50
6S	4	M12 x 100	M12 x 75

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

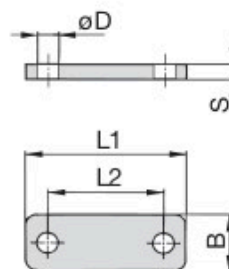


B





Cover Plate for Single Clamps Type DPAL



Ordering Codes

Cover Plate

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

* Cover Plate for Single Clamps

DPAL

* STAUFF Group

3S

* Material code

Carbon Steel, uncoated

W1

Carbon Steel, phosphated

W2

Carbon Steel, zinc/nickel-plated

W3

Stainless Steel V2A

W4

1.4301 / 1.4305 (AISI 304 / 303)

Stainless Steel V4A

W5

1.4401 / 1.4571 (AISI 316 / 316 Ti)

Aluminium EN AW-6060

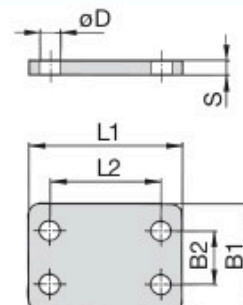
W85

(for group sizes 3S to 5S only)

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

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

Cover Plate for Double Clamps Type DPAS



Ordering Codes

Cover Plate

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

* Cover Plate for Double Clamps

DPAS

* STAUFF Group

3S

* Material code

Carbon Steel, uncoated

W1

Carbon Steel, phosphated

W2

Carbon Steel, zinc/nickel-plated

W3

Stainless Steel V2A

W4

1.4301 / 1.4305 (AISI 304 / 303)

Stainless Steel V4A

W5

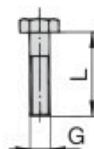
1.4401 / 1.4571 (AISI 316 / 316 Ti)

Group STAUFF	DIN	Dimensions (mm/in)				S	ØD	Ordering Codes (Standard Options)
		L1	L2	B1	B2			
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/°)	Thread G x L	Ordering Codes (Standard Options)
3S	1	M10 x 45	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	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	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	M12 x 100	AS-M12x100-W1
			7/16-14 UNC x 4	AS-7/16-14UNCx4-W3*
7S	5	M16 x 130	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	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	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	M30 x 300	AS-M30x300-W1
			1-1/8-7 UNC x 12	AS-1-1/8-7UNCx12-W1
11S	9	M30 x 450	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	M30 x 560	AS-M30x560-W1
			1-1/4-7 UNC x 22	AS-1-1/4-7UNCx22-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

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).

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/°)	Thread G x L	Ordering Codes (Standard Options)
3S	1	M10 x 30	M10 x 30	IS-M10x30-W1
			3/8-16 UNC x 1	IS-3/8-16UNCx1-W3*
4S	2	M10 x 40	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	M10 x 50	IS-M10x50-W1
			3/8-16 UNC x 2	IS-3/8-16UNCx2-W3*
6S	4	M12 x 80	M12 x 80	ISM12x80-W1
			7/16-14 UNC x 3-1/4	IS-7/16-14UNCx3-1/4-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.

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



Ordering Codes

Socket Cap Screw *IS-*M10x50-*W1

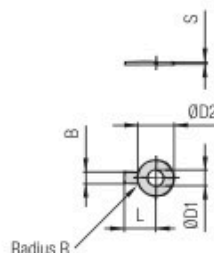
* Type of Bolt	Socket Cap Screw (according to ISO 4762 or ANSI / ASME B18.3)	IS
* Thread type and size acc. to dimension table		M10x50
* Material code	Carbon Steel, uncoated	W1
	Carbon Steel, zinc/nickel-plated	W3
	Stainless Steel V2A	
	1.4301 / 1.4305 (AISI 304 / 303)	W4
	Stainless Steel V4A	
	1.4401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



Safety Washer

(for Use with Hexagon Head Bolt AS)

Type SI (DIN 93)



Safety Washer SI

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

Ordering Codes

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

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

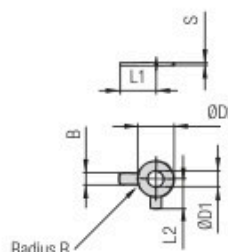
Group STAUFF	DIN	Dimensions (mm/in)						Ordering Codes (Standard Options)
		ØD1	B	ØD2	L	R	S	
3S	1	10,5	10	26	22	4	0,75	SI-10.5-DIN93-W3
		.41	.39	1.02	.87	.16	.03	
4S	2	10,5	10	26	22	4	0,75	SI-10.5-DIN93-W3
		.41	.39	1.02	.87	.16	.03	
5S	3	10,5	10	26	22	4	0,75	SI-10.5-DIN93-W3
		.41	.39	1.02	.87	.16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

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

Safety Washer

(for Use with Hexagon Head Bolt AS)

Type SI (DIN 463)



Safety Washer SI

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

Ordering Codes

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

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

Group	Dimensions (mm/in)								Ordering Codes
STAUFF	DIN	ØD1	B	ØD2	L1	L2	R	S	(Standard Options)
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	

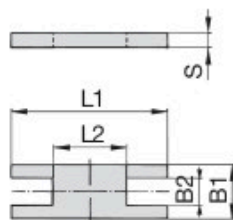
Safety Washers, type SI are used as locking devices to prevent Hexagon Head Bolts, type AS from loosening. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



Safety Locking Plate

(for Use with Stacking Bolt AF)

Type SIP



B

Group	Dimensions (mm/in)						Ordering Codes
STAUFF	DIN	L1	L2	B1	B2	S	(Standard Options)
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-10S-W1
		12.48	8.07	4.72	1.93	.98	

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

Ordering Codes

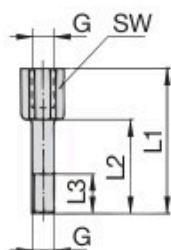
Safety Locking Plate *SIP-*3S-*W2

* 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)	

Stacking Bolt

(for Use with Safety Locking Plate SIP)

Type AF



Group	Dimensions (mm/in)						Ordering Codes
STAUFF	DIN	L1	L2	L3 min.	Hex	Thread G	(Standard Options)
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*

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).

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)	



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

① ② ③ ④ ⑤ ⑥ ⑦

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	Outside Diameter	Availability of Clamp Body Materials & Designs			
STAUFF (DIN)	P / T / H (mm)	Profilled Design	Type H	Type RI	Code
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	Outside Diameter	Availability of Clamp			
STAUFF	P / T / H	Body Materials & Designs			
(DIN)	(mm)	Design	Type H	Type RI	Code
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
5S (3)	26,9	●	●	○	4026,9
	28	●	●	○	4028
	30	●	●	○	4030
	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	Outside Diameter	Availability of Clamp			
STAUFF	P / T / H	Body Materials & Designs			
(DIN)	(mm)	Design	Type H	Type RI	Code
6S (4)	55	●	●	○	6055
	56,4	○	○	●	6056.4
	57	●	●	○	6057
	57,2	●	●	○	6057.2
	60,3	●	●	○	6060.3
	63,5	●	●	○	6063.5
	65	●	●	○	6065
7S (5)	70	●	●	○	6070
	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
	80	●	○	○	7080
8S (6)	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
10S (8)	168	●	○	○	9168
	150	○	○	●	10150
	165	○	○	●	10165
	168	●	○	●	10168
	172	○	○	●	10172
	177,8	●	○	○	10177.8
	193,7	●	○	○	10193.7
	203	●	○	○	10203
	216	●	○	○	10216
11S (9)	219	●	○	○	10219
	219	●	○	○	11219
	273	●	○	○	11273
12S (10)	324	●	○	○	11324
	356	●	○	○	12356
	406	●	○	○	12406

● Standard Option



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

③ Clamp Body Design & Material

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

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

Profiled Design

 **Polypropylene**
Code: **PP**

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

 **Polyamide**
Code: **PA**

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

 **Aluminium**
Code: **AL**

Type H (Smooth)

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

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

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

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

Type RI (with Elastomer Insert)

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

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

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

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

④ Mounting & Fitting Combination

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

Installation with Cover Plate and Bolts

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

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

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

Installation with Locking Plate and Bolts

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

Installation with Bolts only

Socket Cap Screws IS
Code: **IS**

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

⑤ Thread Type

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

Metric ISO thread
Code: **M**

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

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

⑥ Material & Surface Finishing

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

⑦ Assembling & Kitting

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

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

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

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





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

Order Code

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

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



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

Order Code

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

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



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

Order Code

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

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



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

Order Code

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

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



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

Order Code

SPAL-3006-PP-IS-M-W12

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



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

Order Code

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

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





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

Order Code (Mounting Rail STSV not included.)

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

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



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

Order Code (Mounting Rail STSV not included.)

GMV-3006-PP-IS-M-W13

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



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

Order Code

3006-PP-DPAL-AS-M-W19

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



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

Order Code

3006-PP-SIP-AF-M-W2

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

Thread codes

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

Metric ISO thread
Unified coarse (UNC) thread

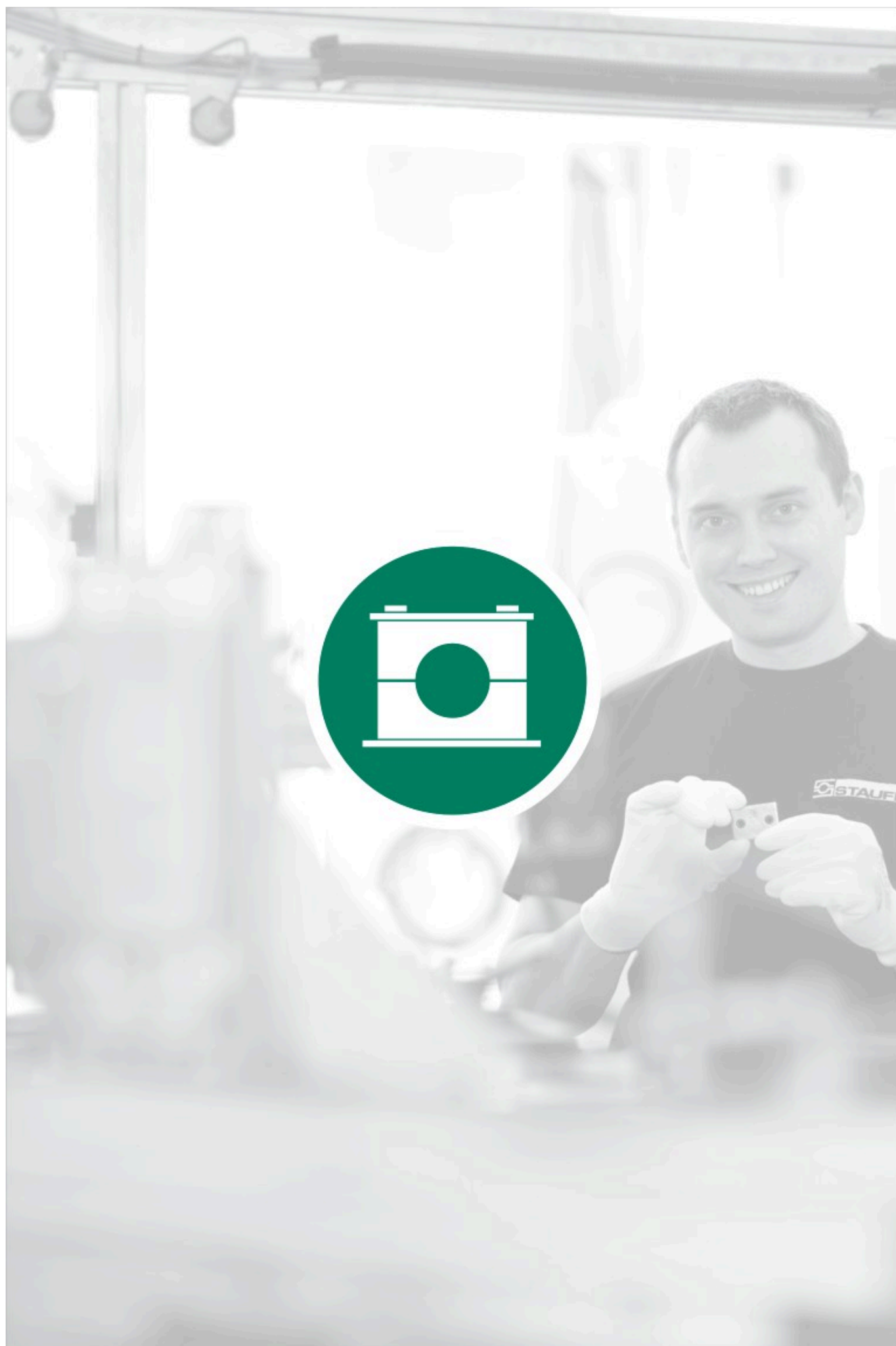
M
U

Material codes

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

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







Clamp Body
Profiled Inside Surface with Tension Clearance

60



Clamp Body
Smooth Inside Surface without Tension Clearance

60



Single Weld Plate

SP

61



Elongated Weld Plate

SPV

61



Group Weld Plate

RAP

62



Hexagon Rail Nut

SM

63



Mounting Rail

TS

63



Fastening Adaptor

SWG-MRA

64



Channel Rail Adaptor

CRA

65



Cover Plate

GD

68



Hexagon Head Bolt

AS

68



Socket Cap Screw

IS

69



Safety Locking Plate

SI

70



Safety Locking Plate

SIV

70



Stacking Bolt

AF

71

Clamp Assemblies

72

C

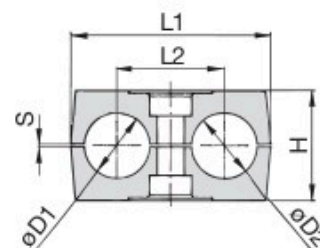
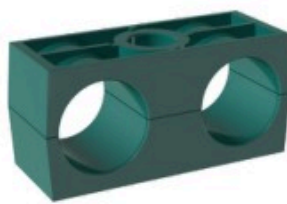


Clamp Body • Profiled Design

Profiled Inside Surface with Tension Clearance

Clamp Body • Type H

Smooth Inside Surface w/o Tension Clearance



Ordering Codes

Clamp Body

*1*06/06*-PP

One clamp body is consisting of two clamp halves.

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

1
06/06
PP

Designs & Standard Materials



Polypropylene • Profiled Design

Profiled inside surface with tension clearance

Colour: Green

Material code: **PP**

Polypropylene • Profiled Design

Profiled inside surface with tension clearance

Colour: Black

Material code: **PP-BK**

Polypropylene • Type H

Smooth inside surface without tension clearance

Colour: Green

Material code: **PP-H**

Polypropylene • Type H

Smooth inside surface without tension clearance

Colour: Black

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

Polyamide • Profiled Design

Profiled inside surface with tension clearance

Colour: Black

Material code: **PA**

Polyamide • Type H

Smooth inside surface without tension clearance

Colour: Black

Material code: **PA-H**

See pages 178 / 179 for properties and technical information.

Special Materials

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

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

Product Features

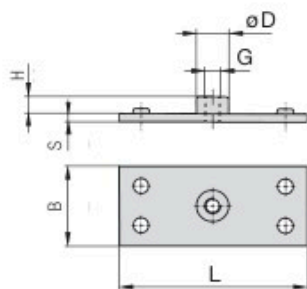
- Proven, tested and trusted product in various markets
- Profiled design recommended for the safe installation of rigid pipes and tubes; type H recommended for the safe installation of hoses and cables
- Available for all commonly used pipe and tube outside diameters
- Environmental protection due to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

Group	STAUFF	DIN	Outside Diameter Pipe / Tube / Hose Ø D1 / Ø D2 (mm) (in)		Nominal Bore Copper Tube ASTM B88 Pipe (in)		Ordering Codes (2 Clamp Halves) (*** = Material)	Dimensions (mm/in)					
								L1	L2	H	S min.	Type H H	Width
1D	1	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	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	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	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
			30				430/30-***-	3.15	1.77	1.57	.03	1.46	1.18
5D	5	5	32	1-1/4			532/32-***-						
			33,7		1		533.7/33.7-***-						
			35		1-1/4		535/35-***-	106	56	53	0,7	52	30
			38	1-1/2			538/38-***-	4.17	2.20	2.09	.03	2.04	1.18
			40				540/40-***-						
			42		1-1/4		542/42-***-						

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



Single Weld Plate Type SP



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

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.

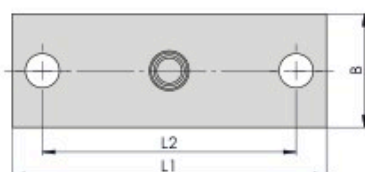
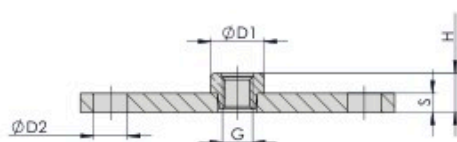
Ordering Codes

Weld Plate

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

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

Elongated Weld Plate Type SPV



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

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

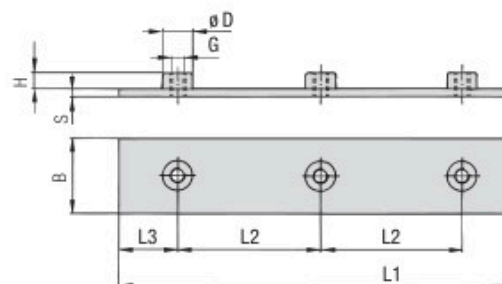
Weld Plate

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

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



Group Weld Plate for 5 Clamp Bodies Type RAP



Ordering Codes

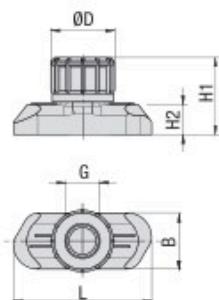
Weld Plate *RAP-*1D-*40-*5-*M-*W1

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

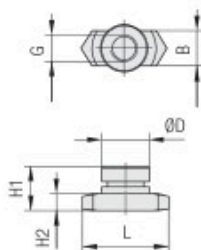
Group STAUFF	DIN	Dimensions (mm/in)								Thread G	Ordering Codes (Standard Options)
		L1	L2	L3	B	S	H	ØD			
1D	1	196	40	18	30	3	6,5	12	M6	RAP-1D-40-5-M-W1	
		7.72	1.57	.71	1.18	.12	.26	.47	1/4-20 UNC	RAP-1D-40-5-U-W1	
2D	2	288	58	28	30	5	6	14	M8	RAP-2D-58-5-M-W1	
		11.34	2.28	1.10	1.18	.20	.24	.55	5/16-18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

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

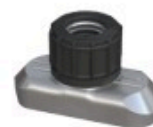




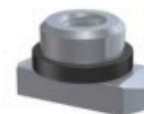
STAUFF Group 1D



STAUFF Group 2D to 5D



STAUFF Group 1D



STAUFF Group 2D to 5D

Group STAUFF	DIN	Dimensions (mm/in) Thread G	L	B	H1	H2	ØD	Ordering Codes (Standard Options)
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.

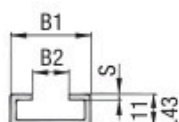
All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

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

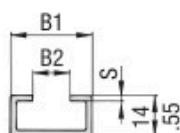
Ordering Codes

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

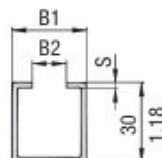
* Hexagon Rail Nut	SM
* STAUFF Group	1D (DIN Group 1) 2D to 5D (DIN Group 2 to 5)
	1-8/1D 2-5D
* Thread code	Metric ISO thread Unified coarse (UNC) thread
	M U
* Material code	Carbon Steel, zinc/nickel-plated Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303) Stainless Steel V4A 1.4401 / 1.4571 (AISI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



Mounting Rail TS-11



Mounting Rail TS-14



Mounting Rail TS-30



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

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

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.

Ordering Codes

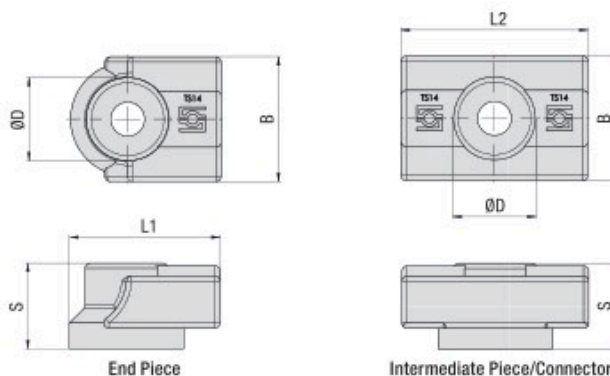
Mounting Rail *TS-*11-*1M-*W1

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



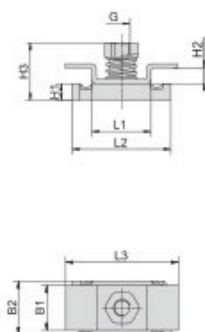
End Piece

Intermediate Piece/Connector

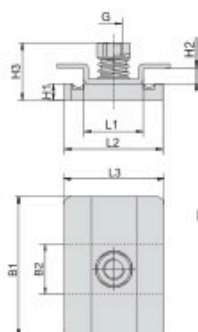


Group STAUFF	DIN	Dimensions (mm/in)					Ordering Code (End Piece)	Ordering Code (Intermediate Piece/Connector)
		ØD	L1	L2	B	S		
1D - 5D	0 bis 8	16 .63	29 1.14	36 1.42	24 .94	16,5 .65	SWG-MRA-TS14-S-A	SWG-MRA-TS14-D-A

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



STAUFF Group 1D



STAUFF Group 2-3D / 4-5D

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



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

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 1.4401 / 1.4571 (AISI 316 / 316 Ti) W5

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

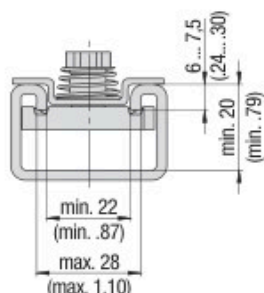
All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Compatibility with Channel Rails

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

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

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

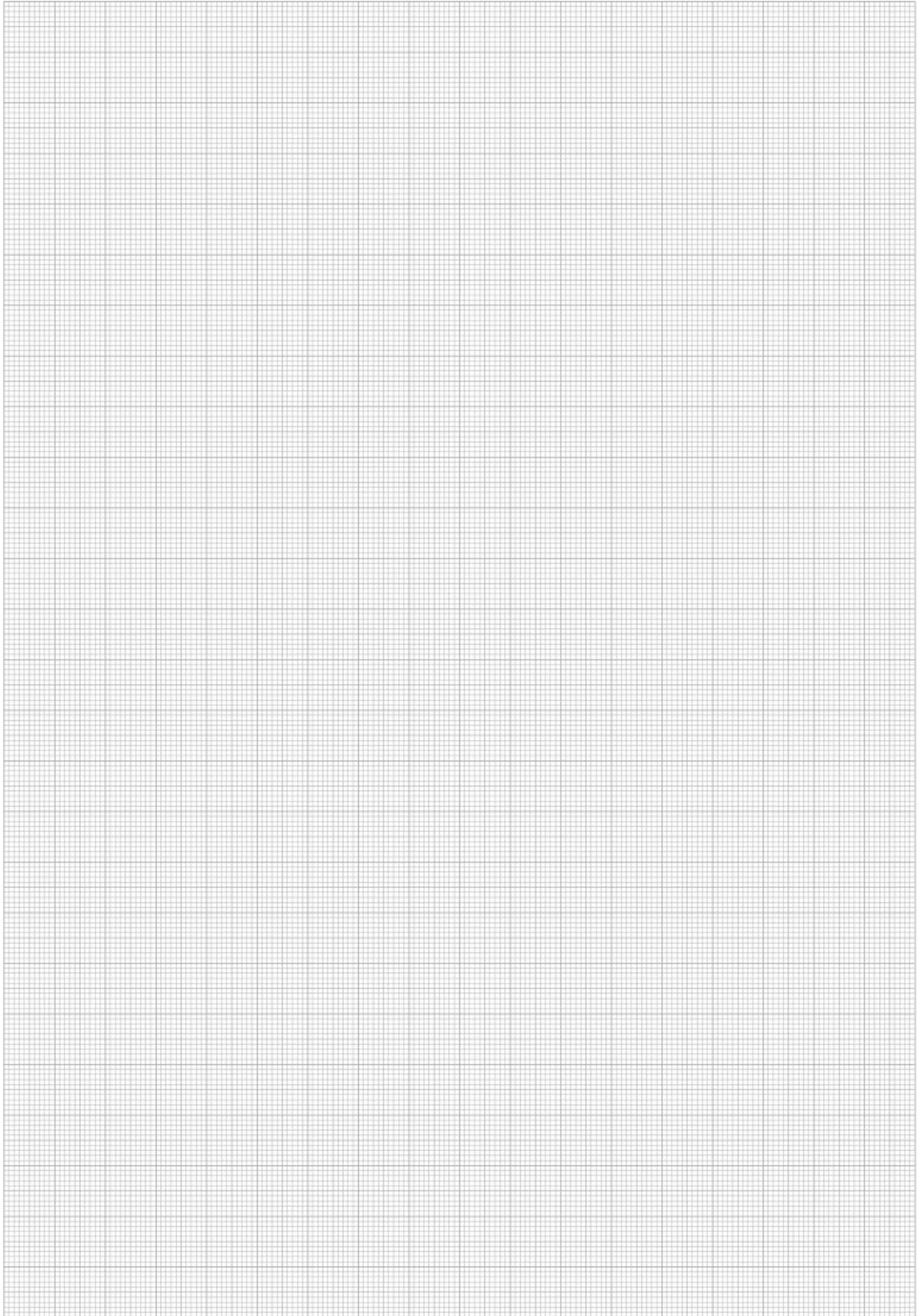


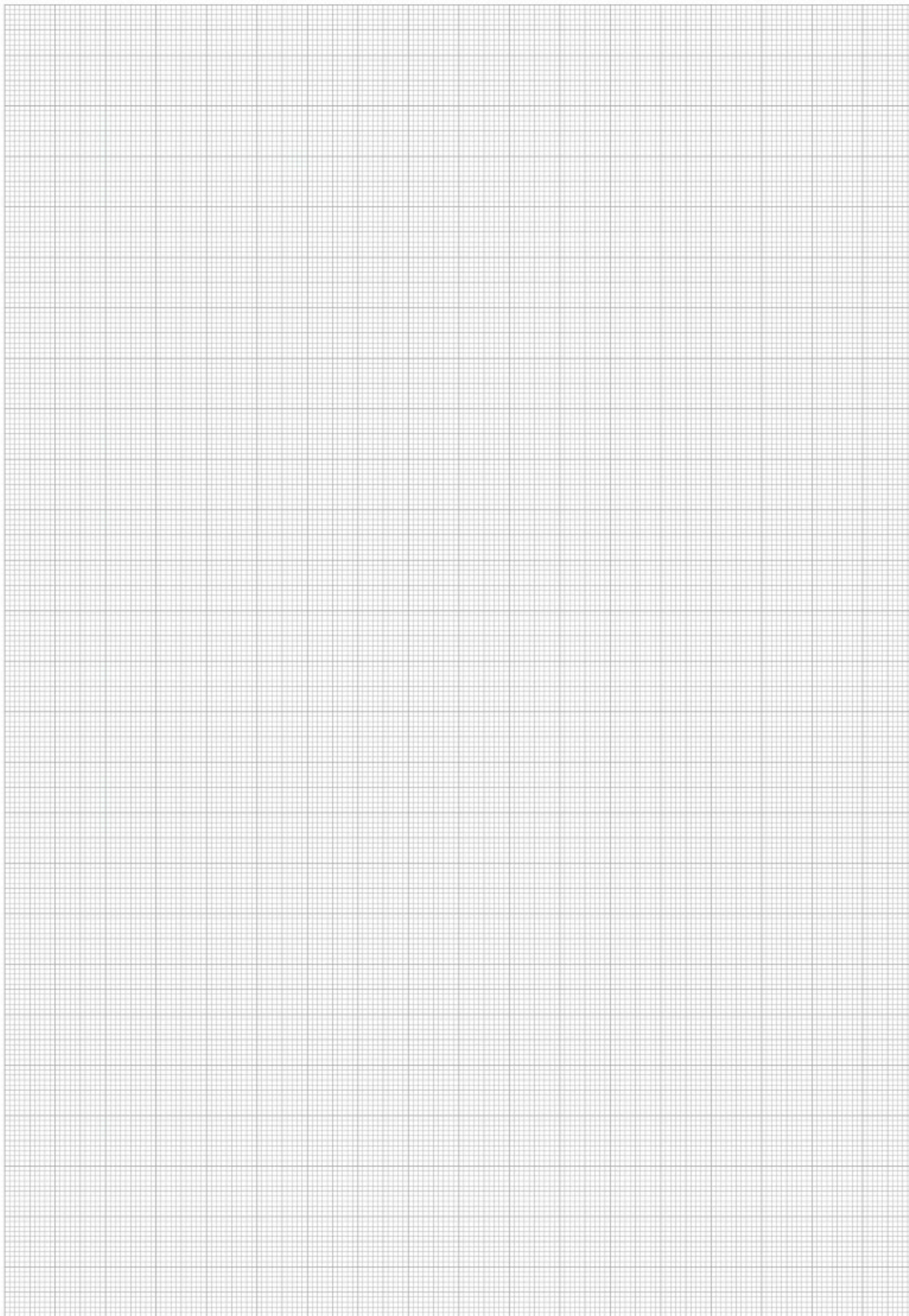
Basic dimensional requirements for channel rails to be used with
STAUFF Channel Rail Adaptors, type CRA

Dimensional drawings: All dimensions in mm (in).

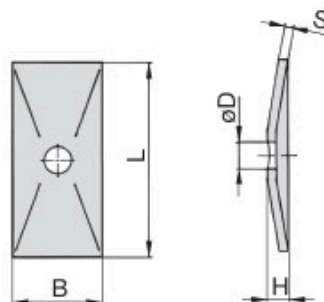


C





Cover Plate Type GD



Ordering Codes

Cover Plate

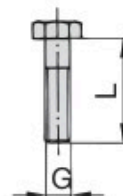
***GD-*1D-*W3**

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

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

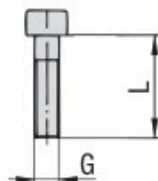
* Type of bolt	Hexagon Head Bolt (according to DIN 931 / 933 or ANSI / ASME B18.2.1.)	AS
* Thread type and size acc. to dimension table		M8x35
* Material code	Carbon Steel, zinc/nickel-plated	W3
	Stainless Steel V2A	W4
	1.4301 / 1.4305 (AISI 304 / 303)	
	Stainless Steel V4A	W5
	1.4401 / 1.4571 (AISI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

Group STAUFF	DIN	Dimensions (mm/in) Thread G x L	Ordering Codes (Standard Options)
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



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**

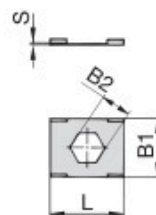
* Type of bolt	Socket Cap Screw (according to ISO 4762 or ANSI / ASME B18.3)	IS
* Thread type and size acc. to dimension table	M8x35	
* Material code	Carbon Steel, zinc/nickel-plated Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303) Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)	W3 W4 W5

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**

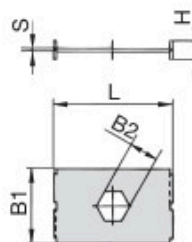
* Safety Locking Plate	SI
* STAUFF Group	1D (DIN Group 1) 2D to 5D (DIN Group 2 to 5)
	1D 2-5D
* Material code	Carbon Steel, zinc/nickel-plated Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303) Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)
	W3 W4 W5

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

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

Safety Locking Plate

Type SIV (for Use with Stacking Bolt AF)



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

Ordering Codes

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

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

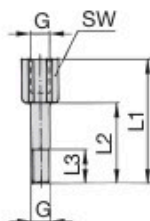
Group	DIN	Dimensions (mm/in)					Ordering Codes (Standard Options)
STAUFF		L	B1	B2	S	H	
1D	1	27	28	11,1	1	7	SIV-1D-W3
		1.06	1.10	.44	.04	.27	
2D	2	45 1.77	28 1.10	12,1 .48	1 .04	7 .27	SIV-2-3D-W3
3D	3						

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	Dimensions (mm/in)						
STAUFF	DIN	Thread G	L1	L2	L3 min.	Hex	Ordering Codes (Standard Options)
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	
	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.





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

① Type of Installation

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

Without Installation Equipment
Code: **none**

Installation on Weld Plate

Single Weld Plate
Code: **SP**

Group Weld Plate
Code: **RAP**

Installation on Mounting / Channel Rail

Mounting Rail Nut
Code: **SM**

Channel Rail Adaptor
Code: **CRA**

② Group Size & Diameters

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

Group	Outside Diameter	Availability of Clamp Body Materials & Designs		
STAUFF (DIN)	P / T / H (mm)	Profiled Design	Type H	Code
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
5D (5)	32	●	●	532/32
	33,7	●	●	533.7/33.7
	35	●	●	535/35
	38	●	●	538/38
	40	●	●	540/40
	42	●	●	542/42

● Standard Option

③ Clamp Body Design & Material

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

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

Profiled Design

Polypropylene
Code: **PP**

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

Polyamide
Code: **PA**

Type H (Smooth)

Polypropylene
Code: **PP-H**

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

Polyamide
Code: **PA-H**

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

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

④ Mounting & Fitting Combination

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

Installation with Cover Plate and Bolt

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

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

Installation with Locking Plate and Bolt

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

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

⑤ Thread Type

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

Metric ISO thread
Code: **M**

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

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

⑥ Material & Surface Finishing

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

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

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

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

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

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

⑦ Assembling & Kitting

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

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

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

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





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

Order Code

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

W10 is the standard option for this type of installation.



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

Order Code

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

W3 is the standard option for this type of installation.



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

Order Code

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

W3 is the standard option for this type of installation.



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

Order Code

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

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



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

Order Code (Mounting Rail TS not included.)

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

W3 is the standard option for this type of installation.

Thread Codes

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

Metric ISO thread
Unified coarse (UNC) thread

M
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	



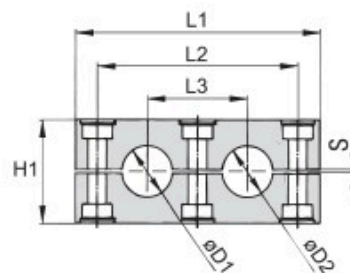
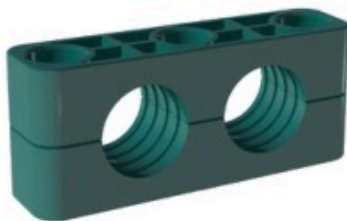


	Clamp Body Profiled Inside Surface with Tension Clearance	76
	Clamp Body with Elastomer Inserts	76
	Weld Plate SPAD	77
	Cover Plate DPAD	77
	Hexagon Head Bolt AS	78
	Mounting Rail Nut GMV	78
	Mounting Rail STSV	78
	Channel Rail Adaptor CRA	78
	Socket Cap Screw IS	78
	Safety Locking Plate SIP	78
	Stacking Bolt AF	78
	Clamp Assemblies	79



Clamp Body • Profiled Design

Profiled Inside Surface with Tension Clearance



Ordering Codes

Clamp Body *4*012.7/12.7-*PP

One clamp body is consisting of two clamp halves.

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

Standard Materials



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



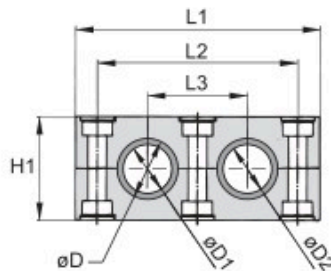
Polyamide
Colour: Black
Material code: **PA**

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

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

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

Clamp Body with Elastomer Inserts Type RI



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

Ordering Codes

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

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

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

Standard Materials



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



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

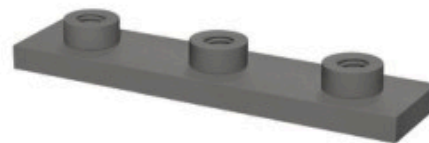
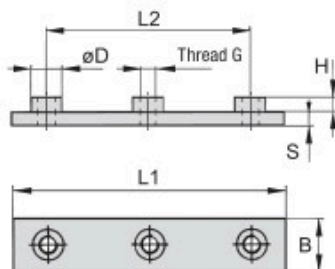


Elastomer Inserts
Thermoplastic Elastomer (73 Shore-A)
Colour: Black

Group	Outside Diameter Pipe / Tube / Hose Ø D1 / Ø D2 (mm) (in)	Ordering Codes (Clamp Assembly) (***R = Material)	Dimensions (mm/in)					
STAUFF			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	4008/08-***R						
	10	4010/10-***R						
	12	4012/12-***R						
	12,7	4012.7/12.7-***R						
	14	4014/14-***R						
	15	4015/15-***R						
	16	4016/16-***R						
	17,2	4017.2/17.2-***R						
	18	4018/18-***R						
	19	4019/19-***R						
	20	5020/20-***R						
5S-D	21,3	5021.3/21.3-***R	38 1.50	145 5.71	120 4.72	60 2.36	60 2.36	30 1.18
	22	5022/22-***R						
	25	5025/25-***R						
	26,9	5026.9/26.9-***R						
	28	5028/28-***R						
	30	5030/30-***R						
	32	5032/32-***R						

See pages 178 / 179 for properties and technical information. Additional outside diameters are available upon request. Please contact STAUFF for further information.



**Weld Plate
Type SPAD**


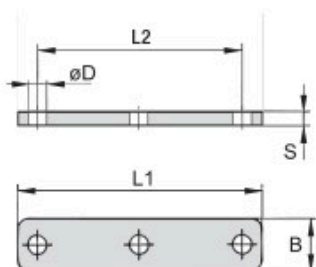
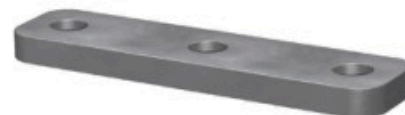
Group STAUFF	Dimensions (mm/in)		B	S	H	Thread G	ØD	Ordering Codes (Standard Options)
	L1	L2						
4S-D	130	90	30	8	8,5	M10	18	SPAD-4S-M-W1
	5.12	3.54	1.18	.31	.33	3/8-16 UNC	.71	SPAD-4S-U-W2*
5S-D	160	120	30	8	8,5	M10	18	SPAD-5S-M-W1
	6.30	4.72	1.18	.31	.33	3/8-16 UNC	.71	SPAD-5S-U-W2*

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

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

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

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

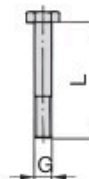
* Standard finishing option in North America is W3 (Carbon Steel, phosphated).

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

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

Ordering Codes

Hexagon Head Bolt *AS-*M10x70-*W1

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

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

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

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

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

Further Metal Hardware

For Use with the Heavy Twin Series



Mounting Rail Nut Type GMV

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



Mounting Rail Type STSV

Heavy Series
(See page 46 for details)



Channel Rail Adaptor Type CRA

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



Socket Cap Screw Type IS

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



Safety Locking Plate Type SIPD

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



Stacking Bolt Type AF

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



SPAD - **4012.7/12.7** - **PP** - **DPAD-AS** - **M** - **W1** - **K**

① ② ③ ④ ⑤ ⑥ ⑦

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	Profiled Design	Type RI	Code
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)







Introduction	82
Standard Series	84 - 93
ACT Clamp Body	84
Installation on Weld Plates	85
Installation on Mounting Rails	86
Multi-Level Installation (with Weld Plate)	88
Installation with Channel Rail Adaptors	89
Installation in Field Trays / Cable Ladders	90
Multi-Level Installation (with Stacking & Hammerhead Bolts)	91
Multi-Level Installation in Field Trays / Cable Ladders (with Hammerhead Bolts)	92
Clamp Assemblies	93



Twin Series	94 - 104
ACT Clamp Body	94
Installation on Weld Plates	95
Installation on Mounting Rails	96
Multi-Level Installation (with Weld Plate)	98
Installation with Channel Rail Adaptors	99
Installation in Field Trays / Cable Ladders	100
Multi-Level Installation (with Stacking & Hammerhead Bolts)	101
Multi-Level Installation in Field Trays / Cable Ladders (with Hammerhead Bolts)	102
Clamp Assemblies	103



STAUFF ACT Anti-Corrosion Technology



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, disbonded coatings, threads and lap joints.

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

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

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

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

Material Selection

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

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

Corrosion Facts

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

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

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

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

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



Main Features

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

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.

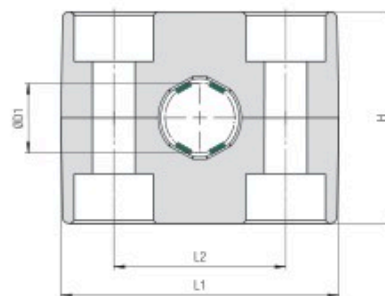


Standard Series according to DIN 3015, Part 1

ACT Clamp Body



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



Ordering Codes

Clamp Body

Clamp Body, STAUFF Group 1A

*2-*12.7-*ACT

*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

Size 1A - 5

ACT

Size 7M / 8M

ACT-A

Group Size		Outside Diameter Ø D1		Ordering Code	Packaging Unit	Dimensions (mm/in)			
STAUFF	DIN	(mm)	(in)	(2 Clamp Halves)	(in pieces / bag)	L1	L2	H	Width
1A	1	3,2	1/8	103.2A-ACT	25				
		6		106A-ACT	25				
		6,4	1/4	106.4A-ACT	25				
		8		108A-ACT	25	37	20	26	30
		9,5	3/8	109.5A-ACT	25	1.46	.79	1.06	1.18
		10		110A-ACT	25				
2	2	12		112A-ACT	25				
		12,7	1/2	212.7-ACT	25				
		14		214-ACT	25				
		14,3	9/16	214.3-ACT	25	42	26	32	30
		15		215-ACT	25	1.65	1.02	1.30	1.18
		16	5/8	216-ACT	25				
3	3	18		218-ACT	25				
		19	3/4	319-ACT	25				
		20		320-ACT	25				
		21,3		321.3-ACT	25	50	33	35,5	30
		25		325-ACT	25	1.97	1.30	1.42	1.18
		25,4	1	325.4-ACT	25				
4	4	26,9		426.9-ACT	25				
		28		428-ACT	25	59	40	42	30
		30		430-ACT	25	2.32	1.57	1.65	1.18
5	5	32	1 1/4	532-ACT	25				
		35		535-ACT	25	71	52	58	30
		38	1 1/2	538-ACT	25	2.80	2.05	2.28	1.18
		42		542-ACT	25				
7M		44,5		744.5M-ACT-A	25				
		48,3		748.3M-ACT-A	25	125	100	100	40
		60,3		760.8M-ACT-A	25	4.92	3.94	3.94	1.57
		65		765M-ACT-A	25				
8M		70		870M-ACT-A	25				
		73		873M-ACT-A	25	165	140	135	45
		76,1		876.1M-ACT-A	25	6.50	5.51	5.31	1.77
		88,9		888.9M-ACT-A	25				

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.

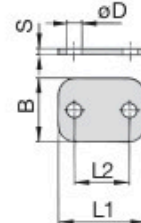
Details: www.stauff.com/act/assembly

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

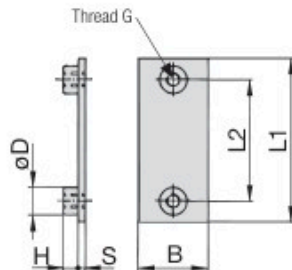
ACT Cover Plate Type DP ... W55



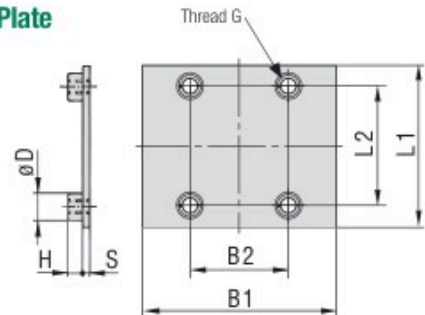
Group	Dimensions (mm/in)	Ordering Code	Packaging Unit
STAUFF	DIN	Thread G x L	(in pieces / bag)
1A	1	M6 x 30 M6 x 1.18	AS-M6x30-W55 25
2	2	M6 x 35 M6 x 1.38	AS-M6x35-W55 25
3	3	M6 x 40 M6 x 1.57	AS-M6x40-W55 25
4	4	M6 x 45 M6 x 1.77	AS-M6x45-W55 25
5	5	M6 x 60 M6 x 2.36	AS-M6x60-W55 25
7M		M10 x 110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

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

ACT Single Weld Plate Type SP ... W55



ACT Double Weld Plate Type SPD ... W55



Group	Dimensions (mm/in)	Ordering Code	Packaging Unit
STAUFF	DIN	G L1 L2 B S H ØD	(in pieces / bag)
1A	1	M6 36 20 30 3 6.5 12 1.42 0.79 1.18 .12 .26 .47	SP-1A-M-W55 25
2	2	M6 42 26 30 3 6.5 12 1.65 1.02 1.18 .12 .26 .47	SP-2-M-W55 25
3	3	M6 50 33 30 3 6.5 12 1.97 1.30 1.18 .12 .26 .47	SP-3-M-W55 25
4	4	M6 60 40 30 3 6.5 12 2.36 1.57 1.18 .12 .26 .47	SP-4-M-W55 25
5	5	M6 71 52 30 3 6.5 12 2.80 2.05 1.18 .12 .26 .47	SP-5-M-W55 25
7M		M10 125 100 40 8 5.3 14 4.92 3.94 1.58 .31 .21 .55	SP-7M-M-W55 25
8M		M10 165 140 45 8 5.3 14 6.50 5.51 1.77 .31 .21 .55	SP-8M-M-W55 25

Group	Dimensions (mm/in)	Ordering Code	Packaging Unit
STAUFF	DIN	G L1 L2 B1 B2 S H ØD	(in pieces / bag)
1A	1	M6 36 20 60 30.5 3 6.5 12 1.42 0.79 2.36 1.20 .12 .26 .47	SPD-1A-M-W55 25
2	2	M6 42 26 60 30.5 3 6.5 12 1.65 1.02 2.36 1.20 .12 .26 .47	SPD-2-M-W55 25
3	3	M6 50 33 60 30.5 3 6.5 12 1.97 1.30 2.36 1.20 .12 .26 .47	SPD-3-M-W55 25



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





ACT Mounting Hardware Installation on Mounting Rails

Required components (for use with single weld plate):

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

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

Material Code
W55

ACT Mounting Hardware Material Properties and Handling Instructions

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

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

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

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

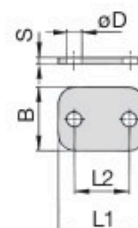


Dimensions applicable only when used with Cover Plate DP and Weld Plate SP



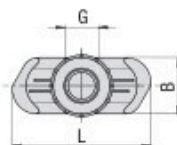
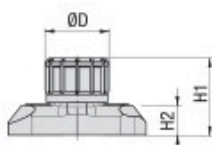
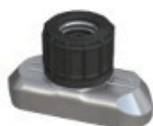
Group	STAUFF	DIN	Dimensions (mm/in)	Thread G x L	Ordering Code	Packaging Unit
						(in pieces / bag)
1A	1		M6 x 30		AS-M6x30-W55	25
			M6 x 1.18			
2	2		M6 x 35		AS-M6x35-W55	25
			M6 x 1.38			
3	3		M6 x 40		AS-M6x40-W55	25
			M6 x 1.57			
4	4		M6 x 45		AS-M6x45-W55	25
			M6 x 1.77			
5	5		M6 x 60	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

ACT Cover Plate Type DP ... W55



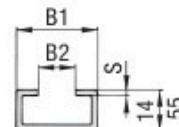
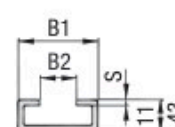
Group	STAUFF	DIN	Dimensions (mm/in)	L1	L2	B	S	ØD	Ordering Code	Packaging Unit
										(in pieces / bag)
1A	1		34	20	30	3	7		DP-1A-W55	25
			1.34	.79	1.18	.12	.28			
2	2		40.5	26	30	3	7		DP-2-W55	25
			1.59	1.02	1.18	.12	.28			
3	3		48	33	30	3	7		DP-3-W55	25
			1.89	1.30	1.18	.12	.28			
4	4		57	40	30	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			

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



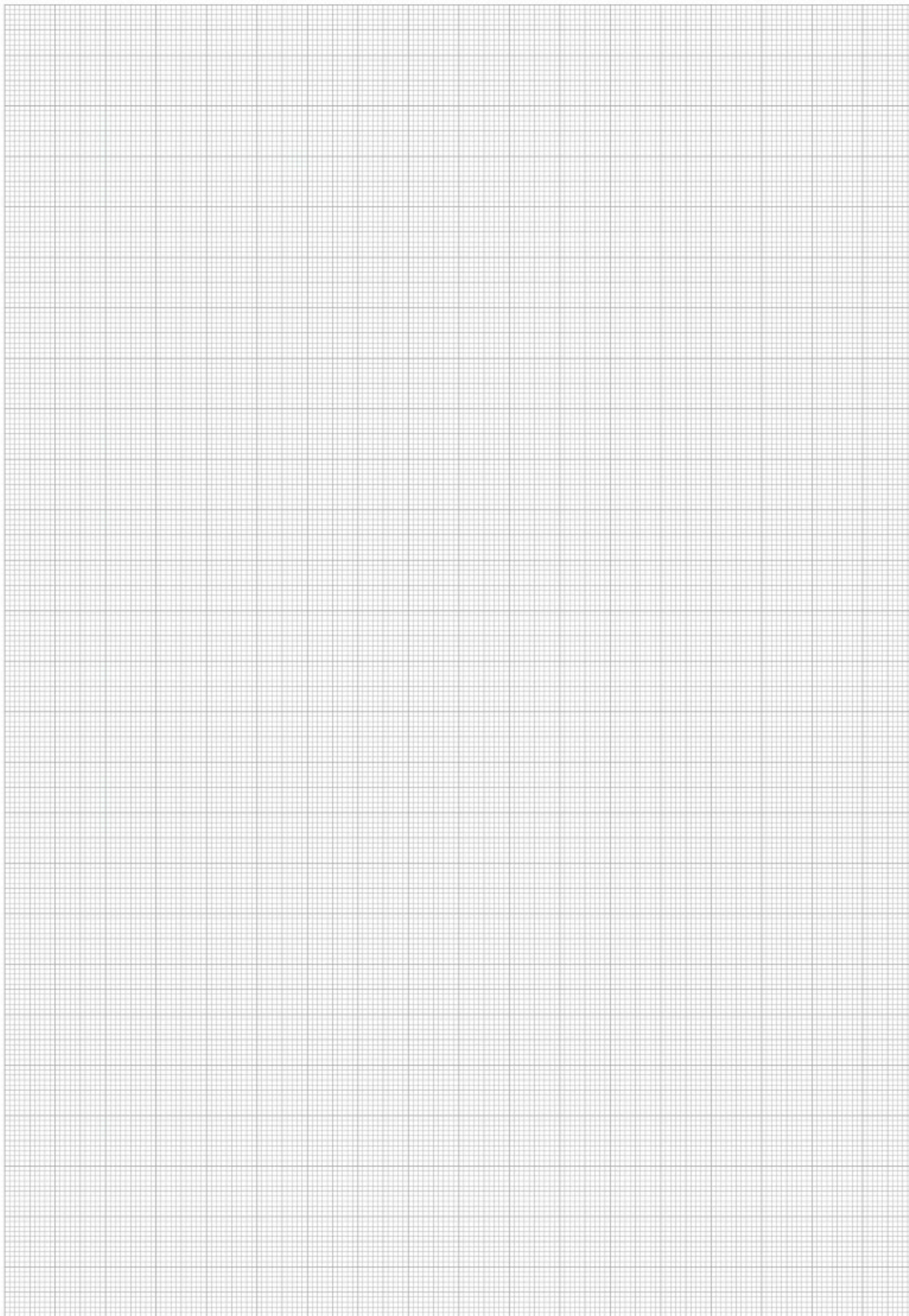
Group	STAUFF	DIN	Dimensions (mm/in)	Thread G	L	B	H1	H2	ØD	Ordering Codes
										(Standard Options)
1A	1									
2	2									
3	3		M6	25.5	10.4	14.2	5.5	12		SM-1-B/1D-M-W55
				1.00	.41	.56	.22	.47		
4	4									
5	5									

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



Group			Dimensions (mm/in)			Ordering Codes (Standard Options)	
STAUFF	DIN		B1	B2	S		
1A	1					Length of Rail 1 m / 3.28ft Height 11 mm / .43 in TS-11-1M-W55	Length of Rail 2 m / 6.56ft Height 11 mm / .43 in TS-11-2M-W55
2	2						
3	3		28	11	2	Length of Rail 1 m / 3.28ft Height 14 mm / .55 in TS-14-1M-W55	Length of Rail 2 m / 6.56ft Height 14 mm / .55 in TS-14-2M-W55
			1.10	.43	.08		
4	4						
5	5						





E





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

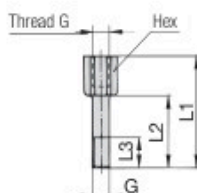
ACT Mounting Hardware Material Properties and Handling Instructions

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.

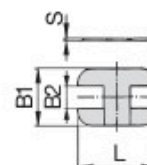
Always make sure that ACT Mounting Hardware is stored separately from carbon steel and any other metals, and that appropriate tools are used to assemble the clamps.
Details: www.stauff.com/act/assembly

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 1.34 .79 .47 .43	AF-1/1A/1D-M-W55	25
2	2	M6	40 26 12 11 1.57 1.24 .47 .43	AF-2-M-W55	25
3	3	M6	44 30 12 11 1.73 1.18 .47 .43	AF-3/AF-HKSK-1A-M-W55	25
4	4	M6	49 35 12 11 1.93 1.38 .47 .43	AF-4/AF-HKSK-1D-M-W55	25
5	5	M6	64 50 12 11 2.52 1.97 .47 .43	AF-5-M-W55	25

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 1.30 1.10 .44 .08	SIG-1A-ACT-W55	25
2	2		39 28 11.2 2 1.54 1.10 .44 .08	SIG-2-ACT-W55	25
3	3		47 28 11.2 2 1.85 1.10 .44 .08	SIG-3-ACT-W55	25
4	4		56 28 11.2 2 2.20 1.10 .44 .08	SIG-4-ACT-W55	25
5	5		69 28 11.2 2 2.72 1.10 .44 .08	SIG-5-ACT-W55	25





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)



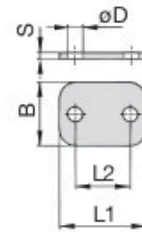
Dimensions applicable only when used with Cover Plate DP and Weld Plate SP



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
2	2		M6 x 35		AS-M6x35-W55	25
3	3		M6 x 40		AS-M6x40-W55	25
4	4		M6 x 45		AS-M6x45-W55	25
5	5		M6 x 60		AS-M6x60-W55	25

ACT Cover Plate

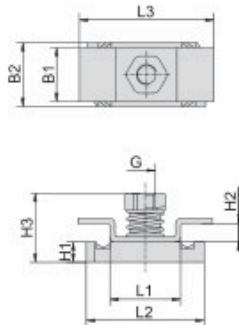
Type DP ... W55



Group	STAUFF	DIN	Dimensions (mm/in)	L1	L2	B	S	ØD	Ordering Code	Packaging Unit (in pieces / bag)
1A	1		34	20	30	3	7	.28	DP-1A-W55	25
2	2		40,5	26	30	3	7	.28	DP-2-W55	25
3	3		48	33	30	3	7	.28	DP-3-W55	25
4	4		57	40	30	3	7	.28	DP-4-W55	25
5	5		70	52	30	3	7	.28	DP-5-W55	25

ACT Channel Rail Adaptor

Type CRA ... W55

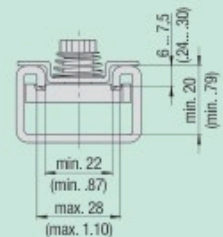


Group	STAUFF	DIN	Dimensions (mm/in)	G	L1	L2	L3	B1	B2	H1	H2	H3	Ordering Code	Packaging Unit (in pieces / bag)
1A	1													
2	2													
3	3		M6	21	35	40	16	19	6	5,5	20,5		CRA-1-8/10-M-W55	25
4	4			.83	1.38	1.57	.63	.75	.24	.22	.81			
5	5													

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

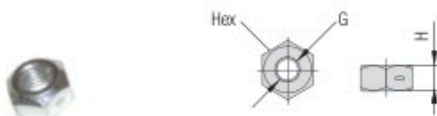
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

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)

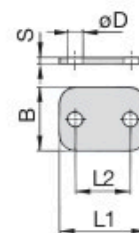


For use with ACT Hammerhead Bolts HKS ... W55

Group	STAUFF	DIN	Dimensions (mm/in)	Thread G	H	Hex	Ordering Code	Packaging Unit (in pieces / bag)
1A	1							
2	2							
3	3		M6	5	10		MUS-HKS-M6-W55	25
4	4			.20	.39			
5	5							

ACT Cover Plate

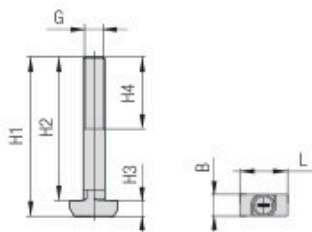
Type DP ... W55



Group	STAUFF	DIN	Dimensions (mm/in)	L1	L2	B	S	ØD	Ordering Code	Packaging Unit (in pieces / bag)
1A	1			34	20	30	3	7		
				1.34	.79	1.18	.12	.28	DP-1A-W55	25
2	2			40.5	26	30	3	7		
				1.59	1.02	1.18	.12	.28	DP-2-W55	25
3	3			48	33	30	3	7		
				1.89	1.30	1.18	.12	.28	DP-3-W55	25
4	4			57	40	30	3	7		
				2.24	1.57	1.18	.12	.28	DP-4-W55	25
5	5			70	52	30	3	7		
				2.76	2.05	1.18	.12	.28	DP-5-W55	25

ACT Hammerhead Bolt

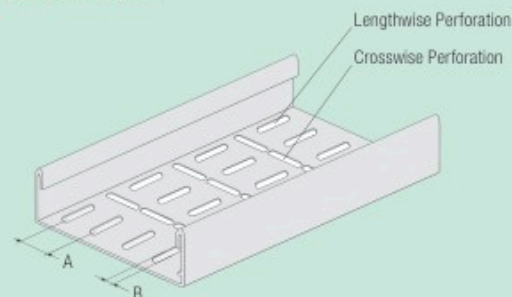
Type HKS ... W55



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

Group	STAUFF	DIN	Dimensions (mm/in)	G	H1	H2	H3	H4 min	B	L	Ordering Code	Packaging Unit (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

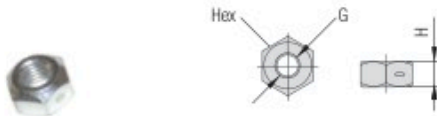
ACT Mounting Hardware Material Properties and Handling Instructions

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

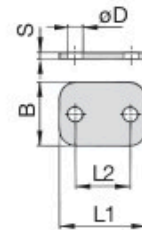
All-Metal Self-Locking ACT Nut Type MUS-HKS ... W55 (similar to DIN 980 / Biloc)



For use with ACT Stacking Bolts AF-HKS ... W55

Group		Dimensions (mm/in)			Ordering Code	Packaging Unit
STAUFF	DIN	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

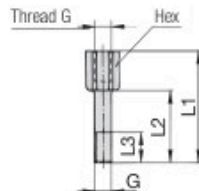


Group	STAUFF	DIN	Dimensions (mm/in)					Ordering Code	Packaging Unit
			L1	L2	B	S	ØD		(in pieces / bag)
1A	1		34	20	30	3	7	DP-1A-W55	25
		1.34	.79	1.18	.12	.28			
2	2		40,5	26	30	3	7	DP-2-W55	25
		1.59	1.02	1.18	.12	.28			
3	3		48	33	30	3	7	DP-3-W55	25
		1.89	1.30	1.18	.12	.28			

ACT Stacking Bolt Type AF-HKSK ... W55

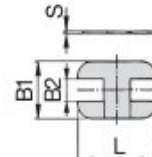


For use with Self-Locking ACT Nuts MUS-HKS ... W55



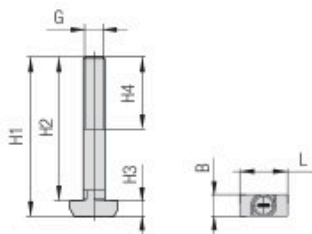
Group		Dimensions (mm/in)						Ordering Code	Packaging Unit (in pieces / bag)
STAUFF	DIN	G	L1	L2	L3 min.	Hex			
1A	1	M6	44	30	12	11		AF-3/AF-HKSK-1A-M-W55	25
			1.73	1.18	.47	.43			
2	2	M6	54	40	12	11		AF-HKSK-2/3-M-W55	25
			2.13	1.57	.47	.43			
3	3	M6	54	40	12	11		AF-HKSK-2/3-M-W55	25
			2.13	1.57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

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



Group		Dimensions (mm/in)				Ordering Code	Packaging Unit (in pieces / bag)
STAUFF	DIN	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		

ACT Hammerhead Bolt Type HKSK ... W55



Group	Dimensions (mm/in)								Ordering Code	Packaging Unit
STAUFF	DIN	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

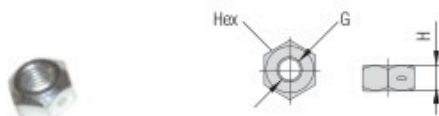
ACT Mounting Hardware Material Properties and Handling Instructions

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

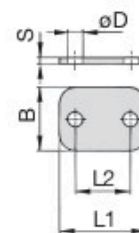
All-Metal Self-Locking ACT Nut Type MUS-HKS ... W55 (similar to DIN 980 / Biloc)



For use with ACT Hammerhead Bolts HKS ... W55

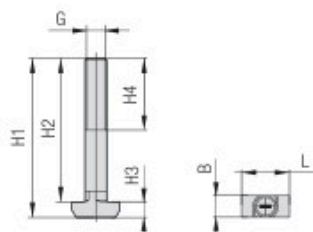
Group	STAUFF	DIN	Dimensions (mm/in)	Thread G	H	Hex	Ordering Code	Packaging Unit (in pieces / bag)
1A	1							
2	2		M6	5	10		MUS-HKS-M6-W55	25
3	3			.20	.39			

ACT Cover Plate Type DP ... W55



Group	STAUFF	DIN	Dimensions (mm/in)	L1	L2	B	S	ØD	Ordering Code	Packaging Unit (in pieces / bag)
1A	1			34	20	30	3	7	DP-1A-W55	25
2	2			1.34	.79	1.18	.12	.28	DP-2-W55	25
3	3			40.5	26	30	3	7	DP-3-W55	25
				1.59	1.02	1.18	.12	.28		
				48	33	30	3	7		
				1.89	1.30	1.18	.12	.28		

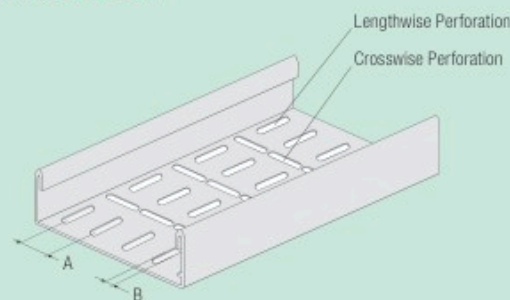
ACT Hammerhead Bolt Type HKS ... W55



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

Group	STAUFF	DIN	Dimensions (mm/in)	G	H1	H2	H3	H4 min	B	L	Ordering Code	Packaging Unit (in pcs. / bag)
1A	1		M6	68.3	64	4.3	20	6.1	13.3		HKS-M6x64-W55	25
2	2		M6	2.69	2.52	.17	.79	.24	.52		HKS-M6x76-W55	25
3	3		M6	80.3	76	4.3	20	6.1	13.3		HKS-M6x83-W55	25
				3.16	2.99	.17	.79	.24	.52			
				87.3	83	4.3	20	6.1	13.3			
				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, Hilti, 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

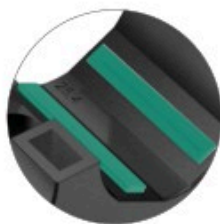
Upper Level: **212.7-ACT** (Clamp Body only)
Lower Level: **HKSV-212.7-ACT-DP-MUS-M-W55**

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

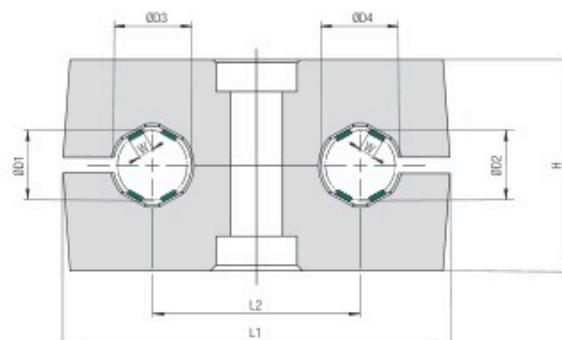


Twin Series according to DIN 3015, Part 3

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 (mm) (in)		Ordering Code (2 Clamp Halves)	Packaging Unit (in pieces / bag)	Dimensions (""/")						
STAUFF	DIN					ØD3/ ØD4	W	L1	L2	H	Width	
1D	1	6		106/06-ACT	25	9 .35	1,4 .06					
		6,4	1/4	106.4/06.4-ACT	25	9,4 .37	1,5 .06					
		9,5	3/8	109.5/09.5-ACT	25	12,5 .49	2,2 .09	36 1.42	20 .79	26,6 1.05	30 1.18	
		10		110/10-ACT	25	13 .51	2,3 .09					
		12		112/12-ACT	25	15 .59	2,8 .11					
2D	2	12,7	1/2	212.7/12.7-ACT	25	15,7 .62	3,5 .14					
		14		214/14-ACT	25	17 .67	3,5 .14	53 2.09	29 1.14	26,6 1.05	30 1.18	
		16		216/16-ACT	25	19 .75	3,5 .14					
3D	3	18		318/18-ACT	25	21 .83	3,5 .14					
		19	3/4	319/19-ACT	25	22 .87	3,5 .14					
		20		320/20-ACT	25	23 .91	3,5 .14	67 2.64	36 1.42	36,6 1.44	30 1.18	
		21,3		321.3/21.3-ACT	25	24,3 .96	3,5 .14					
		25,4	1	325.4/25.4-ACT	25	28,4 1.12	3,5 .14					

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



ACT Mounting Hardware Installation on Single Weld Plates



Required components:

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

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

Material Code
W55

ACT Mounting Hardware Material Properties and Handling Instructions

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

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)

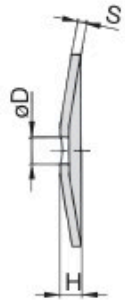
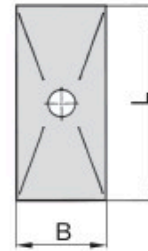


Dimensions applicable only when used with Cover Plate GD and Weld Plate SP



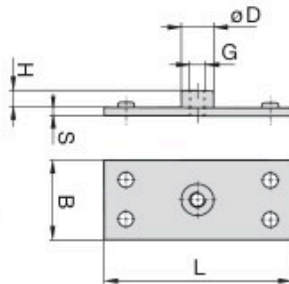
Group	Dimensions (mm/in)	Ordering Code	Packaging Unit
STAUFF	DIN	Thread G x L	(in pieces / bag)
1D	1	M6 x 35	25
		M6 x 1.38	
2D	2	M8 x 35	25
		M8 x 1.38	
3D	3	M8 x 45	25
		M8 x 1.77	

ACT Cover Plate Type GD ... W55



Group	Dimensions (mm/in)	Ordering Code	Packaging Unit
STAUFF	DIN	L B H S ØD	(in pieces / bag)
1D	1	34 30 7 3 7	25
		1.34 1.18 .28 .12 .28	
2D	2	52 30 7 3 9	25
		2.05 1.18 .28 .12 .35	
3D	3	65 30 7 3 9	25
		2.56 1.18 .28 .12 .35	

ACT Single Weld Plate Type SP ... W55



Group	Dimensions (mm/in)	Ordering Code	Packaging Unit
STAUFF	DIN	G L B S H ØD	(in pieces / bag)
1D	1	M6 37 30 3 6.5 12	25
		1.46 1.18 .12 .26 .47	
2D	2	M8 55 30 5 6 14	25
		2.17 1.18 .20 .24 .55	
3D	3	M8 70 30 5 6 14	25
		2.76 1.18 .20 .24 .55	



ACT Mounting Hardware Installation on Mounting Rails



Required components:

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

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

Material Code
W55

ACT Mounting Hardware Material Properties and Handling Instructions

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

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

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

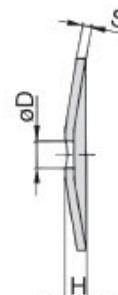
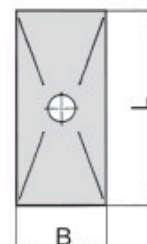
ACT Hexagon Head Bolt Type AS ... W55 (according to DIN 931 / 933)



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

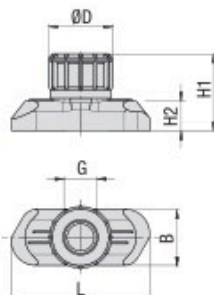
Group STAUFF	DIN	Dimensions (mm/in) Thread G x L	Ordering Code	Packaging Unit (in pieces / bag)
1D	1	M6 x 35	AS-M6x35-W55	25
		M6 x 1.38		
2D	2	M8 x 35	AS-M8x35-W55	25
		M8 x 1.38		
3D	3	M8 x 45	AS-M8x45-W55	25
		M8 x 1.77		

ACT Cover Plate Type GD ... W55



Group STAUFF	DIN	Dimensions (mm/in) L B H S ØD	Ordering Code	Packaging Unit (in pieces / bag)
1D	1	34 30 7 3 7 1.34 1.18 .28 .12 .28	GD-1D-W55	25
		52 30 7 3 9 2.05 1.18 .28 .12 .35		
2D	2	65 30 7 3 9 2.56 1.18 .28 .12 .35	GD-2D-W55	25

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

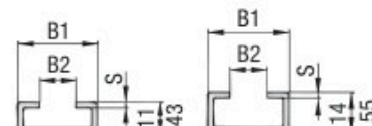


STAUFF Group 1D

STAUFF Group 2D to 5D

Group STAUFF	DIN	Dimensions (mm/in) Thread G L B H1 H2 ØD	Ordering Codes (Standard Options)
1D	1	M6 25,5 10,4 14,2 5,5 12 1.00 .41 .56 .22 .47	SM-1-8/1D-M-W55
2D	2	M8 25,5 10,4 13 5 14 1.00 .41 .51 .20 .55	SM-2-5D-M-W55
3D	3	M8 25,5 10,4 13 5 14 1.00 .41 .51 .20 .55	SM-2-5D-M-W55

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

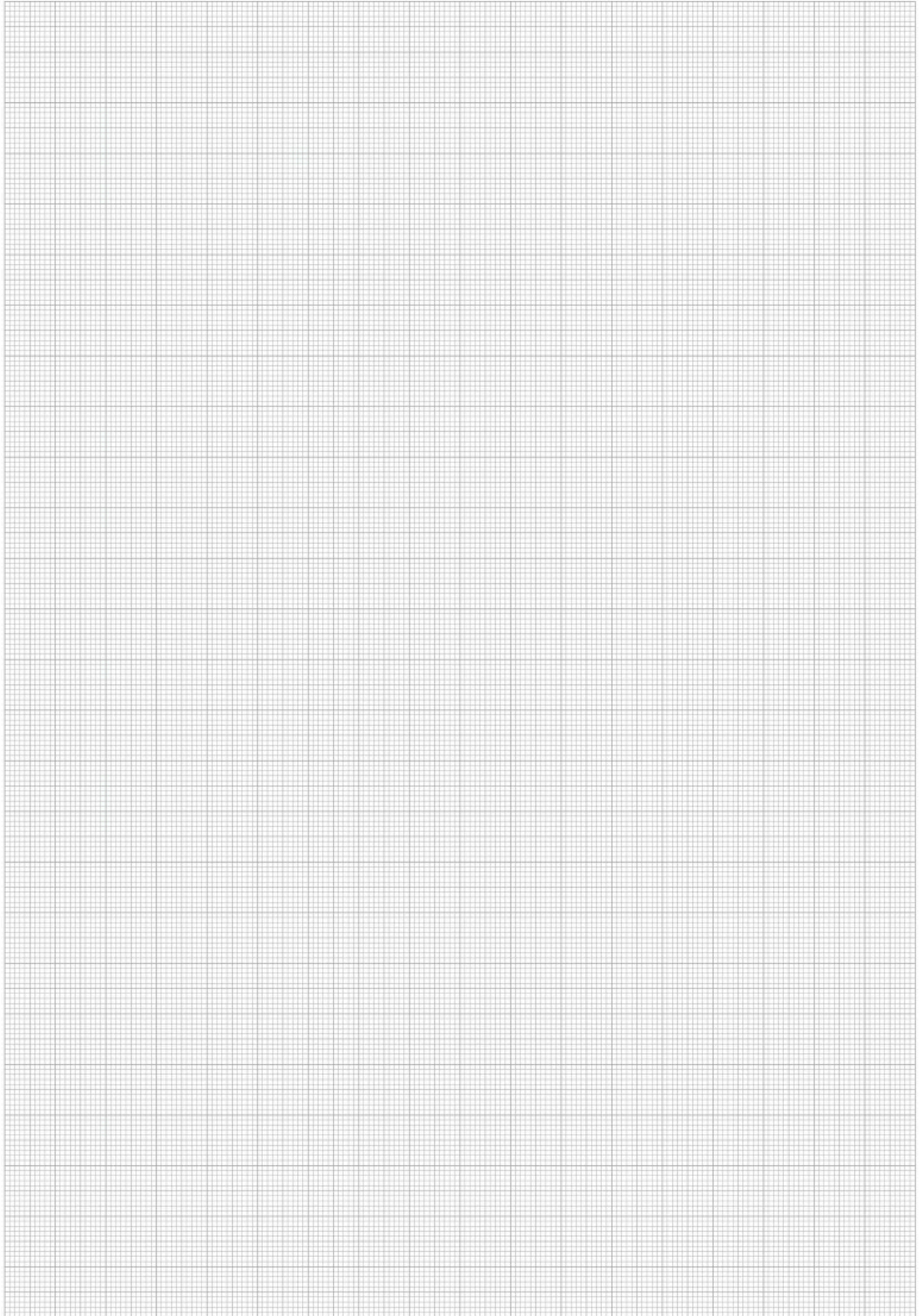


Mounting Rail TS-11

Mounting Rail TS-14

Group STAUFF	DIN	Dimensions (mm/in) B1 B2 S	Ordering Codes (Standard Options)
1D	1		Length of Rail 1m / 3.28ft Height 11 mm / .43 in TS-11-1M-W55
			Length of Rail 2m / 6.56ft Height 11 mm / .43 in TS-11-2M-W55
2D	2	28 11 2 1.10 .43 .08	Length of Rail 1m / 3.28ft Height 14 mm / .55 in TS-14-1M-W55
			Length of Rail 2m / 6.56ft Height 14 mm / .55 in TS-14-2M-W55
3D	3		







ACT Mounting Hardware Multi-Level Installation (with Weld Plate)

Required components for each level:

- 1 ACT Stacking Bolt AF...W55
- 1 ACT Safety Locking Plate SIV...ACT
- 1 ACT Clamp Body (2 Clamp Halves)

The upper layer is secured by a cover plate and hexagon head bolts. The lower layer has to be mounted to a weld plate (with a recommended maximum of two levels in total).

Material Code
W55

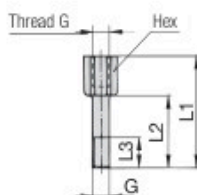
ACT Mounting Hardware Material Properties and Handling Instructions

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

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

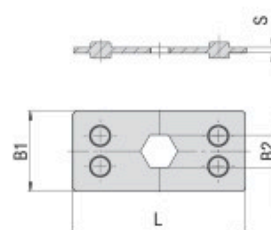
Always make sure that ACT Mounting Hardware is stored separately from carbon steel and any other metals, and that appropriate tools are used to assemble the clamps.
Details: www.stauff.com/act/assembly

ACT Stacking Bolt Type AF ... W55



Group		Dimensions (mm/in)						Order Code	Packaging Unit
STAUFF	DIN	G	L1	L2	L3 min.	Hex			(in pieces / bag)
1D	1	M6	34 1.33	20 .78	12 .47	11 .43	AF-1/1A/1D-M-W55	25	
2D	2	M8	33 1.30	20 .78	11 .43	12 .47	AF-2D-M-W55	25	
3D	3	M8	44 1.73	29 1.14	15 .59	12 .47	AF-3D-M-W55	25	

ACT Safety Locking Plate Type SIV ... ACT



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

Group		Dimensions (mm/in)				Order Code	Packaging Unit (in pieces / bag)
STAUFF	DIN	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

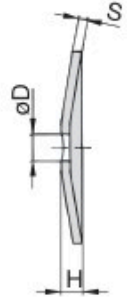
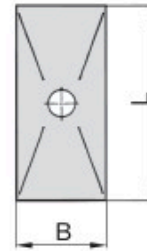
ACT Hexagon Head Bolt Type AS ... W55 (according to DIN 931 / 933)



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

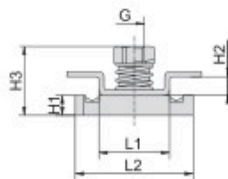
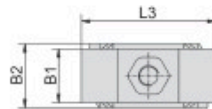
Group	STAUFF	DIN	Dimensions (mm/in)	Thread G x L	Ordering Code	Packaging Unit (in pieces / bag)
1D	1		M6 x 35		AS-M6x35-W55	25
2D	2		M8 x 35		AS-M8x35-W55	25
3D	3		M8 x 45		AS-M8x45-W55	25
				M8 x 1.77		

ACT Cover Plate Type GD ... W55



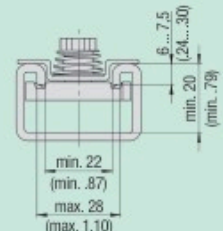
Group	STAUFF	DIN	Dimensions (mm/in)	L	B	H	S	ØD	Ordering Code	Packaging Unit (in pieces / bag)
1D	1		34	30	7	3	7		GD-1D-W55	25
			1.34	1.18	.28	.12	.28			
2D	2		52	30	7	3	9		GD-2D-W55	25
			2.05	1.18	.28	.12	.35			
3D	3		65	30	7	3	9		GD-3D-W55	25
			2.56	1.18	.28	.12	.35			

Channel Rail Adaptor Type CRA ... W55



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.

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
					.83	1.38	1.50	2.09	.75	.35	.22	.93		
3D	3													



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

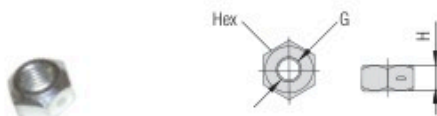
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

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)

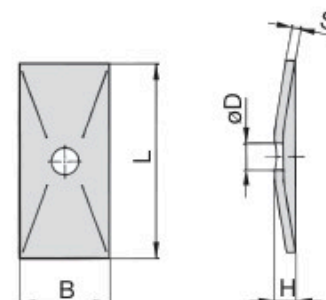


For use with ACT Hammerhead Bolts HKS ... W55

Group		Dimensions (mm/in)			Ordering Code	Packaging Unit (in pieces / bag)
STAUFF	DIN	Thread G	H	Hex		
1D	1	M6	5	10	MUS-HKS-M6-W55	25
			.20	.39		
2D	2	M8	6,5	13	MUS-HKS-M8-W55	25
			.26	.51		
3D	3					

ACT Cover Plate

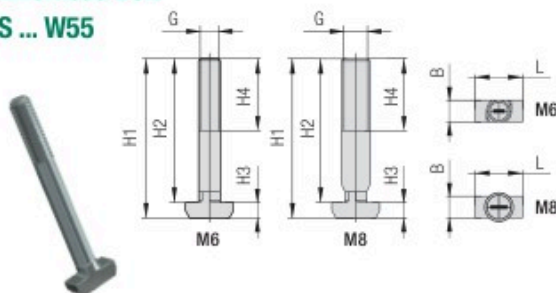
Type GD ... W55



Group		Dimensions (mm/in)						Ordering Code	Packaging Unit (in pieces / bag)
STAUFF	DIN	L	B	H	S	ØD			
1D	1	34	30	7	3	7	GD-1D-W55	25	
		1.34	1.18	.28	.12	.28			
2D	2	52	30	7	3	9	GD-2D-W55	25	
		2.05	1.18	.28	.12	.35			
3D	3	65	30	7	3	9	GD-3D-W55	25	
		2.56	1.18	.28	.12	.35			

ACT Hammerhead Bolt

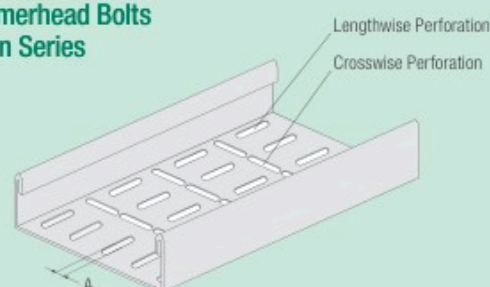
Type HKS ... W55



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

Group		Dimensions (mm/in)								Ordering Code	Packaging Unit (in pcs. / bag)
STAUFF	DIN	G	H1	H2	H3	H4 min	B	L			
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-HKSK...W55
- 1 ACT Safety Locking Plate SIV...ACT
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 ACT Hammerhead Bolt HKSK ... W55

Material Code
W55

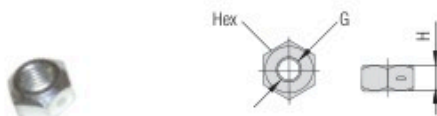
ACT Mounting Hardware Material Properties and Handling Instructions

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

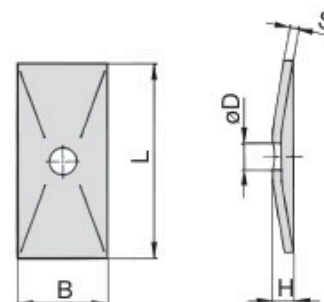
All-Metal Self-Locking ACT Nut Type MUS-HKS ... W55 (similar to DIN 980 / Biloc)



For use with ACT Stacking Bolts AF-HKS ... W55

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

ACT Cover Plate Type GD ... W55

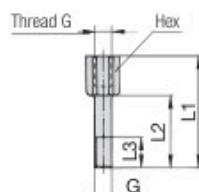


Group	STAUFF	DIN	Dimensions (mm/in)	Ordering Code	Packaging Unit (in pieces / bag)
			L		
			B		
			H		
			S		
			ØD		
1D	1		34 1.34	GD-1D-W55	25
2D	2		30 1.18	GD-2D-W55	25
3D	3		7 .28	GD-3D-W55	25

ACT Stacking Bolt Type AF-HKSK ... W55



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

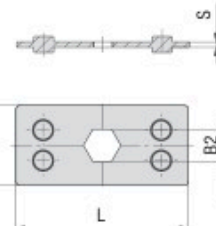


Group	STAUFF	DIN	Dimensions (mm/in)	Order Code	Packaging Unit (in pieces / bag)
			G		
			L1		
			L2		
			L3 min.		
			Hex		
1D	1	M6	49 1.93	AF-4/AF-HKSK-1D-M-W55	25
2D	2	M8	35 1.38	AF-HKSK-2D-M-W55	25
3D	3	M8	12 .47	AF-5D/AF-HKSK-3D-M-W55	25

ACT Safety Locking Plate Type SIV ... ACT

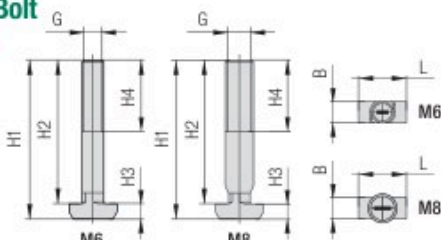


Made of flame-retardant PP-V0 plastic material; tested and V0 classified according to UL 94



Group	STAUFF	DIN	Dimensions (mm/in)	Order Code	Packaging Unit (in pieces / bag)
			L		
			B1		
			B2		
			S		
1D	1		34 1.39	SIV-1D-PP-V0-ACT	25
2D	2		30 1.18	SIV-2D-PP-V0-ACT	25
3D	3		11.2 .44	SIV-3D-PP-V0-ACT	25

ACT Hammerhead Bolt Type HKSK ... W55



Group	STAUFF	DIN	Dimensions (mm/in)	Ordering Code	Packaging Unit (in pcs. / bag)
			G		
			H1		
			H2		
			H3		
			H4 min.		
			B		
			L		
1D	1	M6	29.3 1.15	HKSK-M6x25-W55	25
2D	2	M8	25 .98	HKSK-M8x28-W55	25
3D	3	M8	4.3 .17	HKSK-M8x38-W55	25





ACT Mounting Hardware

Multi-Level Installation in Field Trays / Cable Ladders (with Hammerhead Bolts)

Required components (for a recommended maximum of two levels in total):

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

Material Code
W55

ACT Mounting Hardware

Material Properties and Handling Instructions

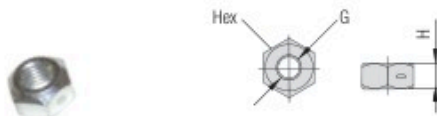
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

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)

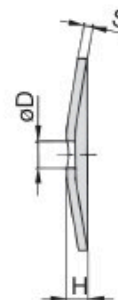
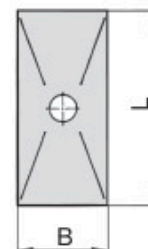


For use with ACT Hammerhead Bolts HKS ... W55

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

ACT Cover Plate

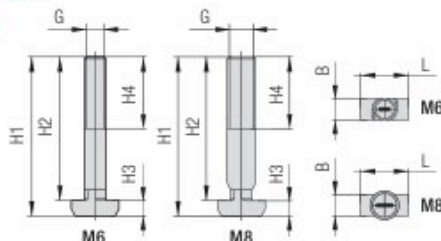
Type GD ... W55



Group	STAUFF	DIN	Dimensions (mm/in)	Ordering Code	Packaging Unit (in pieces / bag)
			L B H S ØD		
1D	1		34 30 7 3 7 1.34 1.18 .28 .12 .28	GD-1D-W55	25
2D	2		52 30 7 3 9 2.05 1.18 .28 .12 .35	GD-2D-W55	25
3D	3		65 30 7 3 9 2.56 1.18 .28 .12 .35	GD-3D-W55	25

ACT Hammerhead Bolt

Type HKSV ... W55

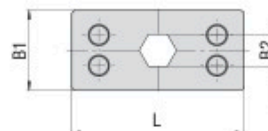


For use with Self-Locking ACT Nuts MUS-HKS ... W55

Group	STAUFF	DIN	Dimensions (mm/in)	Ordering Code	Packaging Unit (in pcs. / bag)
			G H1 H2 H3 H4 min B L		
1D	1	M6	76.3 72 4.3 20 6.1 13.3 3.00 2.83 .17 .79 .24 .52	HKSV-M6x72-W55	25
2D	2	M8	77.3 73 4.3 20 6 13.3 3.04 2.87 .17 .79 .24 .52	HKSV-M8x73-W55	25
3D	3	M8	97.3 93 4.3 20 6 13.3 3.83 3.66 .17 .79 .24 .52	HKSV-M8x93-W55	25

ACT Safety Locking Plate

Type SIV ... ACT



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

Group	STAUFF	DIN	Dimensions (mm/in)	Order Code	Packaging Unit (in pieces / bag)
			L B1 B2 S		
1D	1		34 30 11.2 2 1.39 1.18 .44 .08	SIV-1D-PP-V0-ACT	25
2D	2		52 30 12.1 2 2.05 1.18 .48 .08	SIV-2D-PP-V0-ACT	25
3D	3		65 30 12.1 2 2.56 1.18 .48 .08	SIV-3D-PP-V0-ACT	25



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.


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.

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
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, Hilti, Unistrut® etc.).


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.

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
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.


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.

**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: **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	106
	Weld Stud with Female Thread SWG-SF	106
	Distance Plate for DIN 3015 Clamps SWG-DIP	107
	Cable Tie Holder SWG-CTH-11-M6	107
	Cable Tie / Tension Belt Holder SWG-CTH-30-M6-1	107
	Cable Tie / Tension Belt Holder SWG-CTH-30-M6-2	107
	Fastening Adaptor SWG-MRA	108
	Starterkit Kit-SWG-WI06-Starter	108
	Weld Inverter SWG-WI06	108
	Weld Gun - Arc Ignition SWG-WG	108
	Distance Adaptor SWG-AGS	109
	Distance Tube DIT-SR6-SWG	109
	Stud Retainer SWG-SR6	109
	Ground Cable SWG-GC	109



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



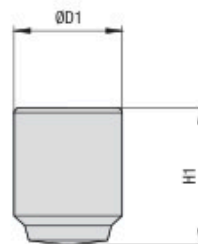
Assembly using
weld plates
100%

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 **W124**
(DIN EN ISO 4042)

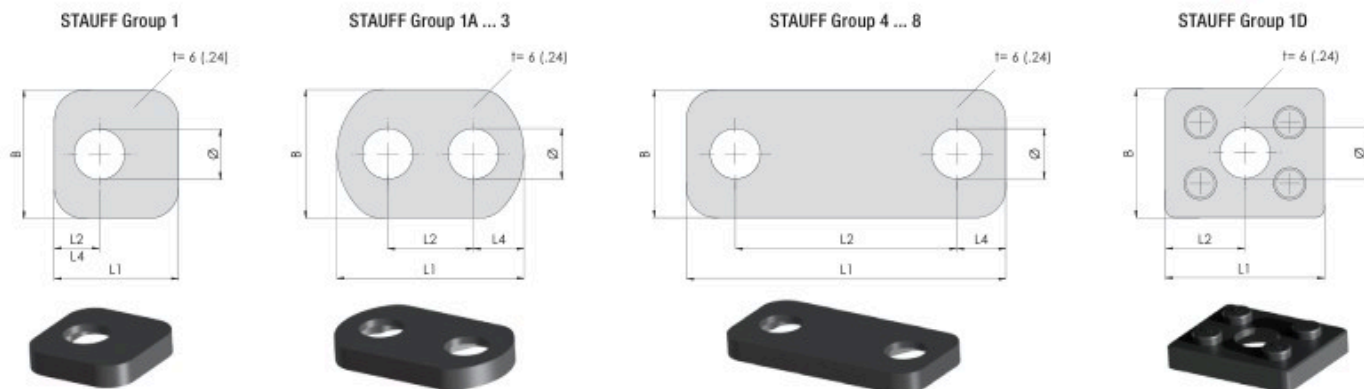
Group STAUFF	DIN	Dimensions (mm/in)			Order Codes (Standard Options)	Packaging Units (in pcs. / per bag)
		Thread G	ØD1	H1		
1 ... 8	0 ... 8	M6	11	14	SWG-SF-M6x11x14-W124	100
			.43	.55		
		1/4-20 UNC	11	14	SWG-SF-UNC1/4-20x11x14-W124	100
			.43	.55		

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

Maximum torque rating: 6 N-m / 4.43 ft-lb. Specific series can further limit the torque rating.
The maximum loads in pipe direction listed on page 185 reduce accordingly.
In case of doubt, please contact STAUFF in advance.



Distance Plate for DIN 3015 Clamps Type SWG-DIP



Group STAUFF	DIN	Pipe/Tube-Ø (mm/in) 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

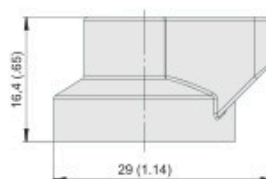
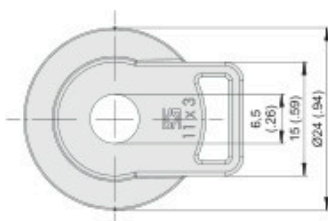
Alternative materials are available upon request. Please contact STAUFF for further information.

* ±0,1(.003)

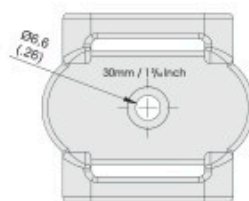
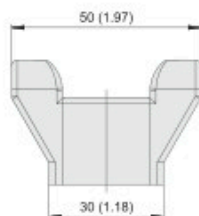
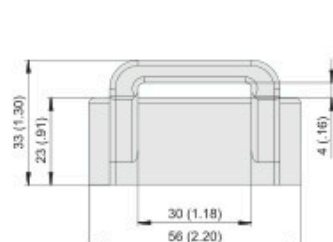
Material: Polyamide (reinforced)

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

Standard packaging unit: 25 pcs.



Cable Tie Holder Type SWG-CTH-11-M6



Cable Tie / Tension Belt Holder Type SWG-CTH-30-M6-1

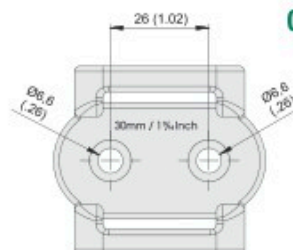


Material: Polyamide (reinforced)

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).



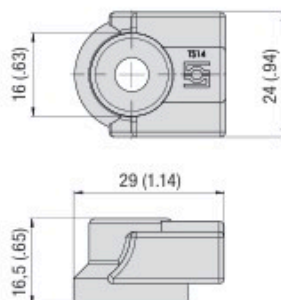
Cable Tie / Tension Belt Holder Type SWG-CTH-30-M6-2



Fastening Adaptor

(for Use with Mounting Rail TS)

Type SWG-MRA-TS14-S-A



Product Features

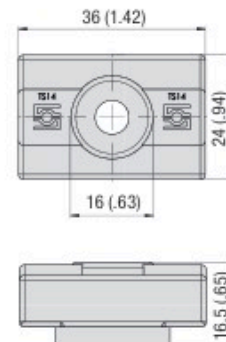
Fastening Adaptor for Direct Screw Mounting of STAUFF Mounting Rails Type TS-14 with Weld Studs M6 and Bolts M6 or 1/4-20 UNC (Support Sleeve / Washer Recommended). For more information, please see Page 25.

Material: Polyamide

Fastening Adaptor

(for Use with Mounting Rail TS)

Type SWG-MRA-TS14-D-A



Product Features

Fastening Adaptor for Direct Screw Mounting of STAUFF Mounting Rails Type TS-14 with Weld Studs M6 and Bolts M6 or 1/4-20 UNC (Support Sleeve / Washer Recommended). For more information, please see Page 25.

Material: Polyamide

F

Starterkit

Type Kit-SWG-WI06-Starter



Starterkit including:

- 1 Weld Inverter **SWG-WI06**
- 1 Weld Gun **SWG-WG**
- 1 Ground Cable **SWG-GC**
- 1 Distance Tube **DIT-SR6-SWG-WG30** (for STAUFF Groups 2 to 8)
- 5 Stud Retainer **SWG-SR6**
- 1 Toolkit (Box Spanner/Hex Wrench)
- Operating Manual (English / German)

Required Accessories:

- Distance Adaptor **SWG-AGS-...** for DIN 3015 Clamps
- Weld Stud **SWG-SF**
- Distance Tube **DIT-SR6-SWG-WG25** (for STAUFF Group 1A, if required)

Weld Inverter

Type SWG-WI06



Characteristics

- Works without high-voltage current
- No heavy extension cords required
- Extremely powerful and robust
- Compact in design
- Lightweight with only 18 kg / 40 lbs
- Welding current: 100 ... 650 A (stepless control)
- Welding time: 5 ... 200 ms (stepless control)
- Connection Cable: 3 m / 9.84 ft

Required Accessories

- Weld Gun **SWG-WG** and Accessories
- Ground Cable **SWG-GC**

Technical Data

Primary Power

- 100 V to 240 V, 1 phase, 50/60 Hz, 16 AT

Primary Plug

- 16 A 2-pin grounded safety plug (plug type F CEE 7/4)

IP Code

- IP 44 (also permits operation outdoors)

Ambient Temperature Limits

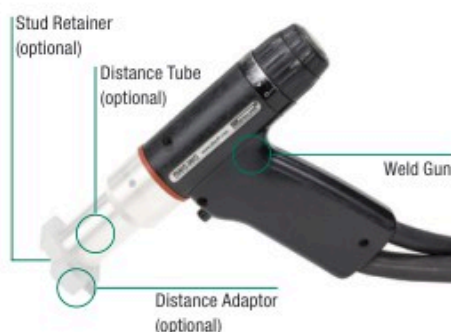
- ±0 °C ... +40 °C / +32 °F ... +104 °F

Dimensions (L x W x H)

- 474 x 337 x 351 mm / 18.66 x 13.27 x 13.82 in

Weld Gun - Arc Ignition

Type SWG-WG



Characteristics

- Compact in design
- Lightweight with only 0,8 kg / 1.8 lbs (without cable)
- Ergonomic handle
- Comfortable setup
- Connection Cable: 5 m / 16.40 ft

Required Accessories

- Distance Adaptor **SWG-AGS-...** for DIN 3015 Clamps
- Distance Tube **DIT-SR6-SWG-WG30** (for STAUFF Groups 2 to 8)
- Distance Tube **DIT-SR6-SWG-WG25** (for STAUFF Group 1A)
- Stud Retainer **SWG-SR6**

Technical Data

Lift

- Adjustment range 3 mm / .11 in, lockable

Workplace noise level

- Up to 90 dB (A) may occur during welding

Dimensions (L x W x H)

- 200 x 65 x 140 mm / 7.87 x 2.56 x 5.51 in (without cable, without distance tube)



**Distance Adaptor
Type SWG-AGS**

Group STAUFF	DIN	for use with	Ordering Codes
1	0	Distance Tube Type A	NO DISTANCE ADAPTOR REQUIRED
1A	1	Distance Tube Type A	SWG-AGS-1A
2	2	Distance Tube Type B	SWG-AGS-2
3	3	Distance Tube Type B	SWG-AGS-3
4	4	Distance Tube Type B	SWG-AGS-4
5	5	Distance Tube Type B	SWG-AGS-5
6	6	Distance Tube Type B	SWG-AGS-6
7	7	Distance Tube Type B	SWG-AGS-7
8	8	Distance Tube Type B	SWG-AGS-8
1D	1D	Distance Tube Type A	NO DISTANCE ADAPTOR REQUIRED


**Distance Tube
Type DIT-SR6-SWG**

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


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

SWG-SR6

1

① Type

Stud Retainer	SWG-SR6
---------------	----------------

Standard packaging unit: 5 pcs.


Order Code

SWG-GC

1

① Type

Ground Cable	SWG-GC
--------------	---------------

Characteristics

- Cable length: 5 m / 16.40 ft
- Equipped with 2 vice grips 10"

**Ground Cable
Type SWG-GC**




	Introduction	112
	Clamp Body Multi-Line Clamps MLC (2 Lines)	114
	Clamp Body Multi-Line Clamps MLC (3 Lines)	115
	Clamp Body Multi-Line Clamps MLC (4 Lines)	116
	Clamp Body Multi-Line Clamps MLC (6 Lines)	117
	Single Weld Plate for Multi-Line Clamps SP-MLC	118
	Cover Plate for Multi-Line Clamps DP-MLC	119
	Hexagon Head Bolt AS	120
	Stacking Bolt AF	120
	Safety Locking Plate SIG	121
	Hexagon Rail Nut SM	122
	Mounting Rail TS	122
	Channel Rail Adaptor CRA	123
	Examples of Assembly	124



G



Product Description

Multi-Line Clamps of the Type MLC from STAUFF enable the simple and at the same time safe fastening of either 2, 3, 4 or 6 individual lines with only one clamp body.

Based on the Original STAUFF Clamps of the Standard Series according to DIN 3015 (Part 1), they are available in 3 different sizes for all common metric and imperial diameters from 6 mm to 25,4 mm (1/4" to 1"). Alternative outside diameters and various diameter combinations are available on request.

Clamp bodies are made of Polypropylene (PP), Polyamide (PA) or Polyamide with preventive fire protection (PA-V0) as standard.

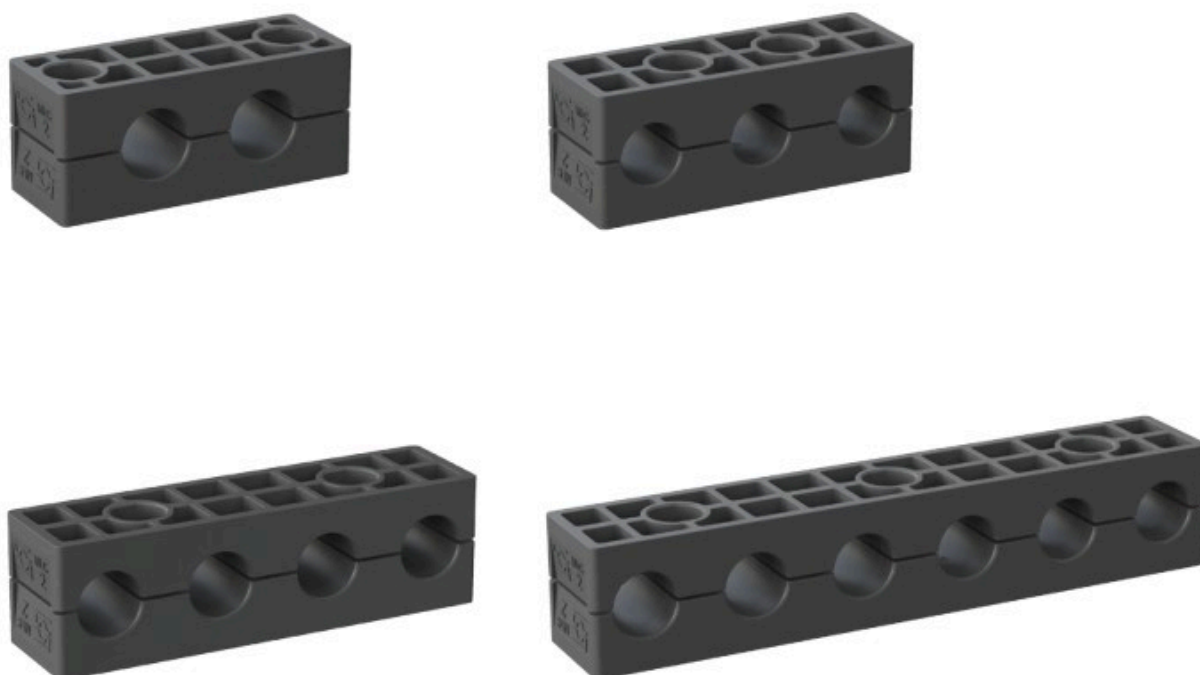
In addition to Carbon Steel (phosphated, STAUFF material code W2 or Zinc/Nickel-plated, STAUFF material code W3), Stainless Steel V4A - 1.4401 / 1.4571 or AISI 316 / 316 Ti (STAUFF material code W5) is used as material for metal parts such as cover plates and welding plates.

Alternative materials and surface finishings are available upon request.

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

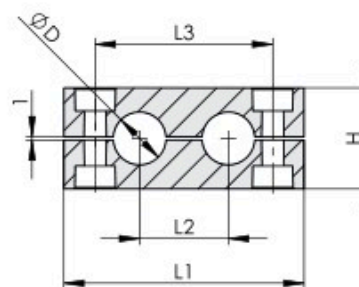
Features

- For the safe fastening of tubes, pipes, hoses, cables and other components
- Vibration- and noise reduction as an important contribution to preventive environmental protection, health and safety
- Orderly and clear installation of lines
- Quick and easy assembly
- Reduced assembly times due to fewer individual components
- Compact and thus space-saving and weight-reducing design
- Can be combined with selected metal parts of the Standard Series according to DIN 3015 (Part 1), including:
 - Hexagon Head Bolts Type AS
 - Stacking Bolts Type AF and Safety Locking Plates Type SIG
 - Hexagon Rail Nuts Type SM and Mounting Rails Type TS
 - Channel Rail Adaptors Type CRA
 - and more

G


Clamp Body Multi-Line Clamps

Smooth Inside Surface with Tension Clearance
Type MLC (for 2 lines)



Ordering Codes

Clamp Body (with identical diameters)

*MLC-*1-*02B-*06-*PP-*HV

One clamp body is consisting of two clamp halves.

* Clamp Type	MLC
* STAUFF Group	1
* Number of lines and bolts	02B
* Exact outside diameter Ø D (mm)	06
* Material code (see below)	PP
* Inside Surface Type	
Smooth Inside Surface (Standard Option)	HV
Profiled Inside Surface (Upon Request)	without

Clamp Body (with different diameters)

*MLC-*1-*02B-*06/12-*PP-*HV

Standard Materials



Polypropylene

Colour: Black

Material code: **PP**



Polyamide

Colour: Black

Material code: **PA**



Fire-Proof Clamp Body Material made of Polyamide

Colour: Black

Material code: **PA-V0**

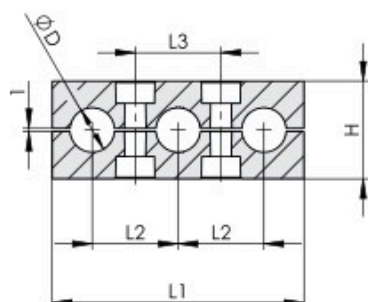
See pages 178 / 179 for material properties and technical information.

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

Group	Outside Diameter		Dimensions				Number of Bolts (B)	Ordering Code Standard Option (2 Clamp Halves) (** = Material)
	STAUFF	Pipe / Tube Ø D (mm) (in)	L1	L2	L3	H		
1		6					2	MLC-1-02B-06-**-HV
		6,4						MLC-1-02B-06.4-**-HV
		8	60,5	20	40	27		MLC-1-02B-08-**-HV
		9,5	2.38	.79	1.57	1.06		MLC-1-02B-09.5-**-HV
		10						MLC-1-02B-10-**-HV
		12						MLC-1-02B-12-**-HV
2		10					2	MLC-2-02B-10-**-HV
		12						MLC-2-02B-12-**-HV
		12,7						MLC-2-02B-12.7-**-HV
		13,5	78,5	29	58	33		MLC-2-02B-13.5-**-HV
		14	3.09	1.14	2.28	1.30		MLC-2-02B-14-**-HV
		15						MLC-2-02B-15-**-HV
		16						MLC-2-02B-16-**-HV
		17,2						MLC-2-02B-17.2-**-HV
		18						MLC-2-02B-18-**-HV
		15						MLC-3-02B-15-**-HV
3		16					2	MLC-3-02B-16-**-HV
		17,2						MLC-3-02B-17.2-**-HV
		18						MLC-3-02B-18-**-HV
		19						MLC-3-02B-19-**-HV
		20	92,5	36	72	37		MLC-3-02B-20-**-HV
		21,3	3.64	1.42	2.83	1.46		MLC-3-02B-21.3-**-HV
		22						MLC-3-02B-22-**-HV
		23						MLC-3-02B-23-**-HV
		25						MLC-3-02B-25-**-HV
		25,4						MLC-3-02B-25.4-**-HV

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





Clamp Body Multi-Line Clamps

Smooth Inside Surface with Tension Clearance
Type MLC (for 3 lines)



Ordering Codes

Clamp Body (with identical diameters)

***MLC-*1-*03B-*06-*PP-*HV**

One clamp body is consisting of two clamp halves.

* Clamp Type	MLC
* STAUFF Group	1
* Number of lines and bolts	03B
* Exact outside diameter Ø D (mm)	06
* Material code (see below)	PP
* Inside Surface Type	
Smooth Inside Surface (Standard Option)	HV
Profiled Inside Surface (Upon Request)	without

Clamp Body (with different diameters)

***MLC-*1-*03B-*06/12/08-*PP-*HV**

Standard Materials

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

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

Fire-Proof Clamp Body Material made of Polyamide
Colour: Black
Material code: **PA-V0**

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

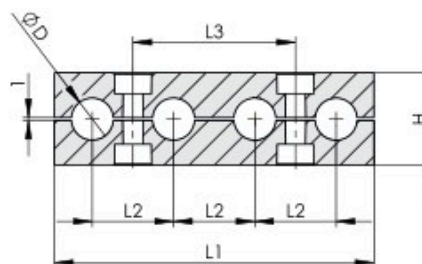
Alternative materials are available upon request. Please contact STAUFF for further information.

Group	Outside Diameter		Dimensions				Number of Bolts (B)	Ordering Code Standard Option (2 Clamp Halves) (** = Material)
	Pipe / Tube Ø D (mm)	(in)	L1	L2	L3	H		
1	6						2	MLC-1-03B-06-**-HV
	6,4							MLC-1-03B-06.4-**-HV
	8		56	20	20	27		MLC-1-03B-08-**-HV
	9,5		2.20	.79	.79	1.06		MLC-1-03B-09.5-**-HV
	10	1/8						MLC-1-03B-10-**-HV
	12							MLC-1-03B-12-**-HV
2	10						2	MLC-2-03B-10-**-HV
	12							MLC-2-03B-12-**-HV
	12,7							MLC-2-03B-12.7-**-HV
	13,5	1/4	85	29	29	33		MLC-2-03B-13.5-**-HV
	14		3.35	1.14	1.14	1.30		MLC-2-03B-14-**-HV
	15							MLC-2-03B-15-**-HV
	16							MLC-2-03B-16-**-HV
	17,2	3/8						MLC-2-03B-17.2-**-HV
3	18						2	MLC-2-03B-18-**-HV
	15							MLC-3-03B-15-**-HV
	16							MLC-3-03B-16-**-HV
	17,2							MLC-3-03B-17.2-**-HV
	18							MLC-3-03B-18-**-HV
	19							MLC-3-03B-19-**-HV
	20		106	36	36	37		MLC-3-03B-20-**-HV
	21,3	1/2	4.17	1.42	1.42	1.46		MLC-3-03B-21.3-**-HV
	22							MLC-3-03B-22-**-HV
	23							MLC-3-03B-23-**-HV
	25							MLC-3-03B-25-**-HV
	25,4							MLC-3-03B-25.4-**-HV

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



Clamp Body Multi-Line Clamps
Smooth Inside Surface with Tension Clearance
Type MLC (for 4 lines)



Ordering Codes

Clamp Body (with identical diameters)

***MLC-*1-*04B-*06-*PP-*HV**

One clamp body is consisting of two clamp halves.

* Clamp Type	MLC
* STAUFF Group	1
* Number of lines and bolts	04B
* Exact outside diameter Ø D (mm)	06
* Material code (see below)	PP
* Inside Surface Type	
Smooth Inside Surface (Standard Option)	HV
Profiled Inside Surface (Upon Request)	without

Clamp Body (with different diameters)

***MLC-*1-*04B-*06/12/08/10-*PP-*HV**

Standard Materials

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

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

Fire-Proof Clamp Body Material made of Polyamide
Colour: Black
Material code: **PA-VO**

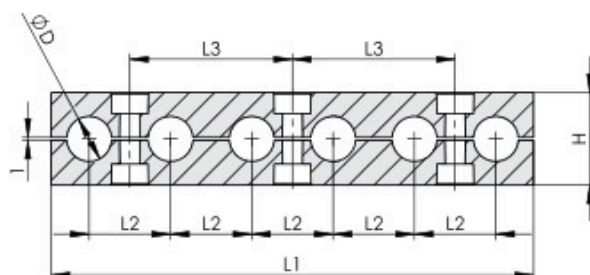
See pages 178 / 179 for material properties and technical information.

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

Group	STAUFF	Outside Diameter Pipe / Tube Ø D		Dimensions (^{mm} / _{in})				Number of Bolts (B)	Ordering Code Standard Option (2 Clamp Halves) (** = Material)
		(mm)	(in)	L1	L2	L3	H		
1		6						2	MLC-1-04B-06-**-HV
		6,4							MLC-1-04B-06.4-**-HV
		8		76	20	40	27		MLC-1-04B-08-**-HV
		9,5		2.99	.79	1.57	1.06		MLC-1-04B-09.5-**-HV
		10	1/8						MLC-1-04B-10-**-HV
		12							MLC-1-04B-12-**-HV
2		10						2	MLC-2-04B-10-**-HV
		12							MLC-2-04B-12-**-HV
		12,7							MLC-2-04B-12.7-**-HV
		13,5	1/4	114	29	58	33		MLC-2-04B-13.5-**-HV
		14		4.49	1.14	2.28	1.30		MLC-2-04B-14-**-HV
		15							MLC-2-04B-15-**-HV
		16							MLC-2-04B-16-**-HV
		17,2	3/8						MLC-2-04B-17.2-**-HV
		18							MLC-2-04B-18-**-HV
		15						2	MLC-3-04B-15-**-HV
3		16							MLC-3-04B-16-**-HV
		17,2							MLC-3-04B-17.2-**-HV
		18							MLC-3-04B-18-**-HV
		19							MLC-3-04B-19-**-HV
		20		142	36	72	37		MLC-3-04B-20-**-HV
		21,3	1/2	5.59	1.42	2.83	1.46		MLC-3-04B-21.3-**-HV
		22							MLC-3-04B-22-**-HV
		23							MLC-3-04B-23-**-HV
		25							MLC-3-04B-25-**-HV
		25,4							MLC-3-04B-25.4-**-HV

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





Clamp Body Multi-Line Clamps

Smooth Inside Surface with Tension Clearance
Type MLC (for 6 lines)



Group	Outside Diameter		Dimensions				Number of Bolts (C)	Ordering Code Standard Option (2 Clamp Halves) (** = Material)
	Pipe / Tube Ø D (mm)	(in)	L1	L2	L3	H		
1	6							MLC-1-06C-06-**-HV
	6,4							MLC-1-06C-06.4-**-HV
	8		116	20	40	27	3	MLC-1-06C-08-**-HV
	9,5		4.57	.79	1.57	1.06		MLC-1-06C-09.5-**-HV
	10	1/8						MLC-1-06C-10-**-HV
	12							MLC-1-06C-12-**-HV
2	10							MLC-2-06C-10-**-HV
	12							MLC-2-06C-12-**-HV
	12,7							MLC-2-06C-12.7-**-HV
	13,5	1/4	172	29	58	33	3	MLC-2-06C-13.5-**-HV
	14		6.77	1.14	2.28	1.30		MLC-2-06C-14-**-HV
	15							MLC-2-06C-15-**-HV
	16							MLC-2-06C-16-**-HV
	17,2	3/8						MLC-2-06C-17.2-**-HV
3	18							MLC-2-06C-18-**-HV
	15							MLC-3-06C-15-**-HV
	16							MLC-3-06C-16-**-HV
	17,2							MLC-3-06C-17.2-**-HV
	18							MLC-3-06C-18-**-HV
	19							MLC-3-06C-19-**-HV
	20		214	36	72	37	3	MLC-3-06C-20-**-HV
	21,3	1/2	8.43	1.42	2.83	1.46		MLC-3-06C-21.3-**-HV
	22							MLC-3-06C-22-**-HV
	23							MLC-3-06C-23-**-HV
	25							MLC-3-06C-25-**-HV
	25,4							MLC-3-06C-25.4-**-HV

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

Ordering Codes

Clamp Body (with identical diameters)

***MLC-*1-*06C-*06-*PP-*HV**

One clamp body is consisting of two clamp halves.

* Clamp Type	MLC
* STAUFF Group	1
* Number of lines and bolts	06C
* Exact outside diameter Ø D (mm)	06
* Material code (see below)	PP
* Inside Surface Type	
Smooth Inside Surface (Standard Option)	HV
Profiled Inside Surface (Upon Request)	without

Clamp Body (with different diameters)

***MLC-*1-*06C-*06/12/08/10/12/12-*PP-*HV**

Standard Materials

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

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

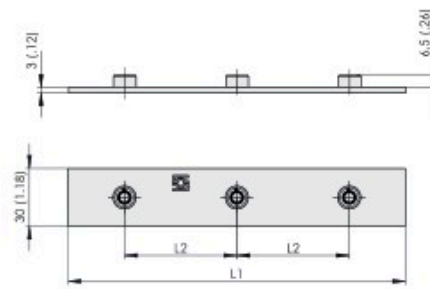
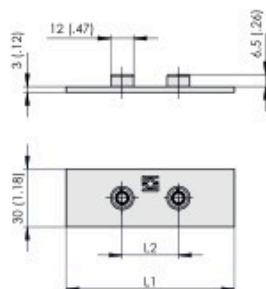
Fire-Proof Clamp Body Material made of Polyamide
Colour: Black
Material code: **PA-V0**

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

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



Single Weld Plate for Multi-Line Clamps Type SP-MLC



2 Welding Nuts (B)

3 Welding Nuts (C)

Ordering Codes

Single Weld Plate

***SP-MLC-*1-*04B-*M-*78-*W2**

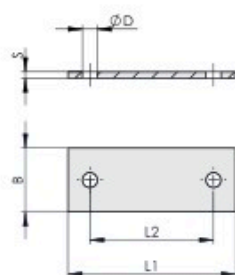
* Single Weld Plate for Multi-Line Clamps	SP-MLC
* STAUFF Group	1
* Number of lines and bolts in Clamp Body	04B
* Thread code	Metric ISO thread M Unified coarse (UNC) thread U
* Length	78
* Material code	Carbon Steel, phosphated W2 Stainless Steel V4A W5 1.4401 / 1.4571 (AISI 316 / 316 Ti)

Group STAUFF	Number of Lines in Clamp Body	Number of Welding Nuts	Dimensions ^(mm/in) Thread G	L1	L2	Ordering Codes (Standard Options)	
1	2	2	M6	62.5	40	SP-MLC-1-02B-M-62.5-W2	
			1/4-20 UNC	2.46	1.57	SP-MLC-1-02B-U-62.5-W2	
	3		M6	58	20	SP-MLC-1-03B-M-58-W2	
			1/4-20 UNC	2.28	.79	SP-MLC-1-03B-U-58-W2	
	4	3	M6	78	40	SP-MLC-1-04B-M-78-W2	
			1/4-20 UNC	3.07	1.57	SP-MLC-1-04B-U-78-W2	
2	6	3	M6	118	40	SP-MLC-1-06C-M-118-W2	
			1/4-20 UNC	4.46	1.57	SP-MLC-1-06C-U-118-W2	
	2	2	M6	80	58	SP-MLC-2-02B-M-80-W2	
			1/4-20 UNC	3.15	2.28	SP-MLC-2-02B-U-80-W2	
	3		M6	87	29	SP-MLC-2-03B-M-87-W2	
			1/4-20 UNC	3.43	1.14	SP-MLC-2-03B-U-87-W2	
3	4	3	M6	116	58	SP-MLC-2-04B-M-116-W2	
			1/4-20 UNC	4.57	2.28	SP-MLC-2-04B-U-116-W2	
	6	2	M6	174	58	SP-MLC-2-06C-M-174-W2	
			1/4-20 UNC	6.85	2.28	SP-MLC-2-06C-U-174-W2	
	2		3	M6	94.5	72	SP-MLC-3-02B-M-94.5-W2
				1/4-20 UNC	3.72	2.83	SP-MLC-3-02B-U-94.5-W2
3	M6	108		36	SP-MLC-3-03B-M-108-W2		
	1/4-20 UNC	4.25		1.41	SP-MLC-3-03B-U-108-W2		
4	4	3	M6	144	72	SP-MLC-3-04B-M-144-W2	
			1/4-20 UNC	5.67	2.83	SP-MLC-3-04B-U-144-W2	
	6	3	M6	216	72	SP-MLC-3-06C-M-216-W2	
			1/4-20 UNC	8.50	2.83	SP-MLC-3-06C-U-216-W2	

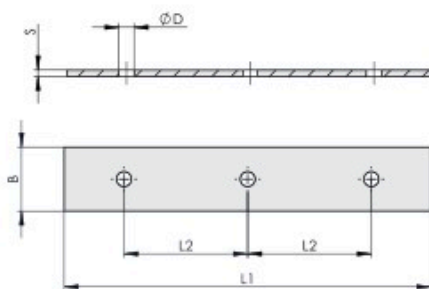
All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



Cover Plate for Multi-Line Clamps Type DP-MLC



2 Bolts (B)



3 Bolts (C)



Group STAUFF	Number of Lines in Clamp Body	Number of Bolts	Dimensions (mm/in)			D	S	Ordering Codes (Standard Options)
			L1	L2	B			
1	2	2	60,5	40	30	7	3	DP-MLC-1-02B-60.5-W3
			2.38	1.57				
	3		56	20				DP-MLC-1-03B-56-W3
			2.20	.79				
	4	3	76	40				DP-MLC-1-04B-76-W3
			2.99	1.57				
2	6	2	116	40				DP-MLC-1-06C-116-W3
			4.57	1.57				
	2	3	78,5	58				DP-MLC-2-02B-78.5-W3
			3.09	2.28				
	3	2	85	29				DP-MLC-2-03B-85-W3
			3.35	1.14				
	4	3	114	58				DP-MLC-2-04B-114-W3
			4.49	2.28				
3	6	2	172	58				DP-MLC-2-06C-172-W3
			6.77	2.28				
	2	3	92,5	72				DP-MLC-3-02B-92.5-W3
			3.64	2.83				
	3	2	106	36				DP-MLC-3-03B-106-W3
			4.17	1.42				
	4	3	142	72				DP-MLC-3-04B-142-W3
			5.59	2.83				
	6	2	214	72				DP-MLC-3-06C-214-W3
			8.43	2.83				

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

Ordering Codes

Cover Plate

***DP-MLC-*1-*04B-*76-*W3**

* Cover Plate for Multi-Line Clamps	DP-MLC
* STAUFF Group	1
* Number of lines and bolts in Clamp Body	04B
* Length	76
* Material code	Carbon Steel, zinc/nickel-plated
	Stainless Steel V4A
	1.4401 / 1.4571 (AISI 316 / 316 Ti)
	W3
	W5

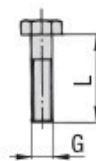
G



Hexagon Head Bolt

(for Use with Cover Plate DP-MLC)

Type AS



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

Ordering Codes

Hexagon Head Bolt

*AS-*M6x30-*W3

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

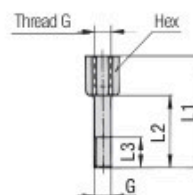
Group STAUFF	Dimensions (mm/in) Thread G x L	Ordering Codes (Standard Options)
1	M6 x 30	AS-M6x30-W3
	1/4-20 UNC x 1-1/4	AS-1/4-20UNCx1-1/4-W3
2	M6 x 35	AS-M6x35-W3
	1/4-20 UNC x 1-3/8	AS-1/4-20UNCx1-3/8-W3
3	M6 x 40	AS-M6x40-W3
	1/4-20 UNC x 1-1/2	AS-1/4-20UNCx1-1/2-W3

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

Stacking Bolt

(for Use with Safety Locking Plate SIG)

Type AF



Ordering Codes

Stacking Bolt

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

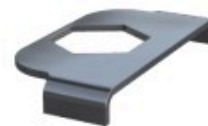
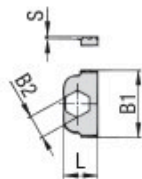
- * Stacking Bolt (according to STAUFF Standard-Series) **AF**
- * STAUFF Group **1**
- * Thread code Metric ISO thread **M**
Unified coarse (UNC) thread **U**
- * Material code Carbon Steel, zinc/nickel-plated **W3**
Stainless Steel V4A **W5**
1.4401 / 1.4571 (AISI 316 / 316 Ti)

Group STAUFF	Dimensions (mm/in) Thread G	L1	L2	L3 min.	Hex	Ordering Codes (Standard Options)
1	M6	34	20	12	11	AF-1/1A/1D-M-W3
	1/4-20 UNC	1.34	.79	.47	.43	AF-1/1A/1D-U-W3
2	M6	40	25	12	11	AF-2-M-W3
	1/4-20 UNC	1.57	.98	.47	.43	AF-2-U-W3
3	M6	44	30	12	11	AF-3-M-W3
	1/4-20 UNC	1.73	1.18	.47	.43	AF-3-U-W3

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



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



STAUFF Group 1

Group STAUFF	Dimensions (mm/in)				Ordering Code (Standard Option)
	L	B1	B2	S	
1					
2	16 .63	32 1.26	11,2 .44	1 .04	SIG-1-W3
3					

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

Ordering Codes

Safety Locking Plate

*SIG-*1-*W3

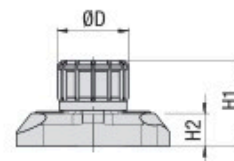
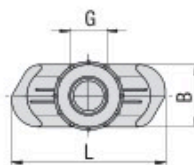
* Safety Locking Plate (according to STAUFF Standard-Series)	SIG
* STAUFF Group	1
* Material code	Carbon Steel, zinc/nickel-plated W3
	Stainless Steel V4A W5
	1.4401 / 1.4571 (AISI 316 / 316 Ti)



Hexagon Rail Nut

(for Use with Mounting Rail TS)

Type SM



Ordering Codes

Hexagon Rail Nut

***SM-1-8/1D-M-W3**

★ Hexagon Rail Nut (according to STAUFF Standard-Series)	SM
★ STAUFF Group 1 to 8	1-8/1D
★ Thread code Metric ISO thread	M
Unified coarse (UNC) thread	U
★ Material code Carbon Steel, zinc/nickel-plated	W3
Stainless Steel V4A	W5
1.4401 / 1.4571 (AISI 316 / 316 Ti)	

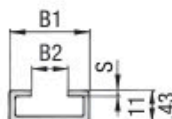
Group STAUFF	Dimensions (mm/in)						Ordering Codes (Standard Options)
	Thread G	L	B	H1	H2	ØD	
1							
2	M6	25,5	10,4	14,2	5,5	12	SM-1-8/1D-M-W3
3	1/4-20 UNC	1.00	.41	.56	.22	.47	SM-1-8/1D-U-W3

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.

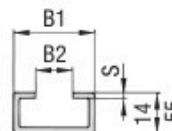
Mounting Rail

(for Use with Hexagon Rail Nut SM)

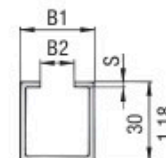
Type TS



Mounting Rail TS-11



Mounting Rail TS-14



Mounting Rail TS-30

Ordering Codes

Mounting Rail

***TS-11-1M-W98**

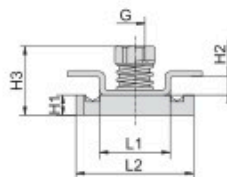
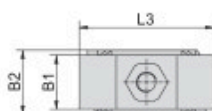
★ Mounting Rail (according to STAUFF Standard-Series)	TS
★ Height of rail 11 mm / .43 in	11
14 mm / .55 in	14
30 mm / 1.18 in	30
★ Length of rail 1 m / 3.28 ft	1M
2 m / 6.56 ft	2M
Alternative lengths available upon request. Contact STAUFF for further information.	
★ Werkstoff Carbon Steel, hot-dip galvanised	W98
Stainless Steel V4A	W5
1.4401 / 1.4571 (AISI 316 / 316 Ti)	

Group STAUFF	Dimensions (mm/in)			Ordering Codes (Standard Options)	
	B1	B2	S	Length of rail: 1 m / 3.28 ft	Length of rail: 2 m / 6.56 ft
1				Height 11 mm / .43 in TS-11-1M-W98	Height 11 mm / .43 in TS-11-2M-W98
2	28 1.10	11 .43	2 .08	Height 14 mm / .55 in TS-14-1M-W98	Height 14 mm / .55 in TS-14-2M-W98
3				Height 30 mm / 1.18 in TS-30-1M-W98	Height 30 mm / 1.18 in TS-30-2M-W98

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



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



Group	DIN	Dimensions (mm/in)									Ordering Codes
STAUFF		Thread G	L1	L2	L3	B1	B2	H1	H2	H3	(Standard Options)
1	0										
2	2	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
3	3										

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

Ordering Codes

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

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

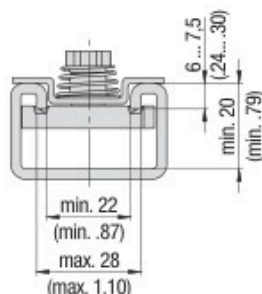
Compatibility with Channel Rails

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



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

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



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



Examples of Assembly

Direct Assembly



2x **Hexagon Head Bolt**
Material code: W3 / W5
Thread: Metric / UNC

1x **Cover Plate**
Material code: W3 / W5

1x **Clamp Body** (2 Clamp Halves)
STAUFF Group 1 / 2 / 3
Material code: PP / PA / PA-V0
Smooth Inside Surface
with Tension Clearance

Single Weld Plate Assembly



2x **Hexagon Head Bolt**
Material code: W3 / W5
Thread: Metric / UNC

1x **Cover Plate**
Material code: W3 / W5

1x **Clamp Body** (2 Clamp Halves)
STAUFF Group 1 / 2 / 3
Material code: PP / PA / PA-V0
Smooth Inside Surface
with Tension Clearance

1x **Single Weld Plate**
Material code: W2 / W5
Thread: Metric / UNC

G

Mounting Rail Assembly



2x **Hexagon Head Bolt**
Material code: W3 / W5
Thread: Metric / UNC

1x **Cover Plate**
Material code: W3 / W5

1x **Clamp Body** (2 Clamp Halves)
STAUFF Group 1 / 2 / 3
Material code: PP / PA / PA-V0
Smooth Inside Surface
with Tension Clearance

2x **Hexagon Rail Nut**
Material code: W3 / W5
Thread: Metric / UNC

Mounting Rail
Material code: W98 / W5
Height: 11 mm (.43 in) /
14 mm (.55 in) /
30 mm (1.18 in)
Length: 1 m (3.28 ft) /
2 m (6.56 ft)

Stacking Assembly



2x **Hexagon Head Bolt**
Material code: W3 / W5
Thread: Metric / UNC

1x **Cover Plate**
Material code: W3 / W5

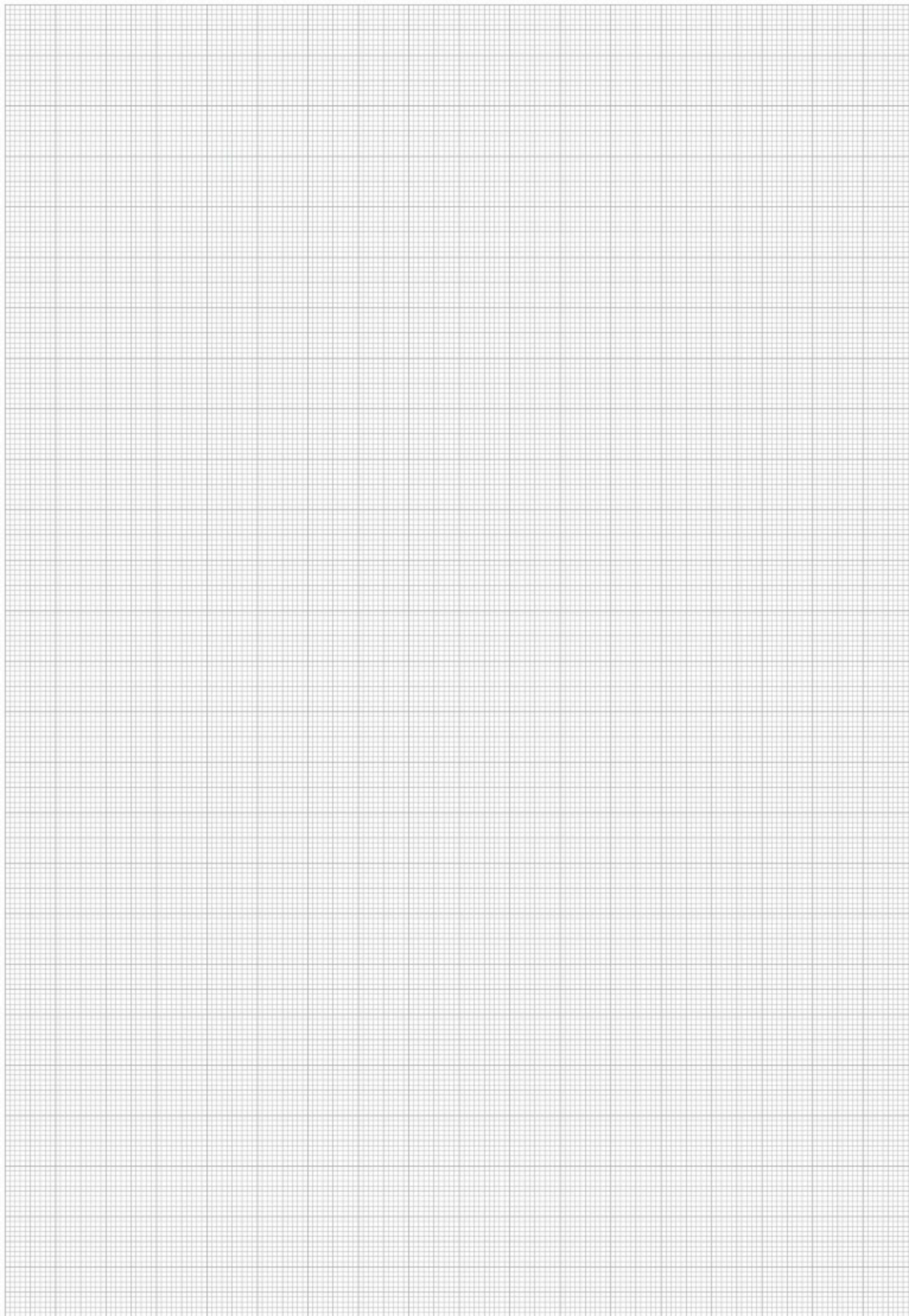
2x **Clamp Body** (4 Clamp Halves)
STAUFF Group 1 / 2 / 3
Material code: PP / PA / PA-V0
Smooth Inside Surface
with Tension Clearance

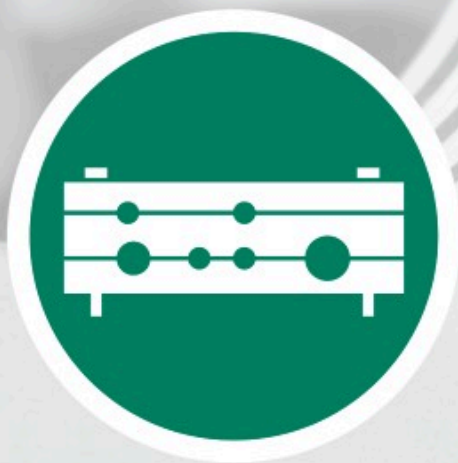
2x **Safety Locking Plate**
Material code: W3 / W5

2x **Stacking Bolt**
Material code: W3 / W5
Thread: Metric / UNC

1x **Single Weld Plate**
Material code: W2 / W5
Thread: Metric / UNC





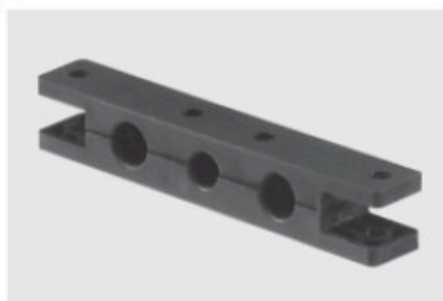


	Machined Versions	128
	Injection Moulded Version	130
	Metal Versions and Accessories	131
	3D-Printed Special Clamps	132
	Enquiry Form for Custom-Designed Special Clamps	133



Machined Versions

Custom-designed clamping systems for pipes, tubes, hoses, cables and other components according to customer's specifications or based on STAUFF developments, made of thermoplastics, metals and non-ferrous metals.



H





H



Injection Moulded Versions (Flexi Clamps)

Custom-designed clamping systems for pipes, tubes, hoses, cables and other components according to customer's specifications or based on STAUFF developments, made of Polypropylene, Polyamide and other thermoplastics.

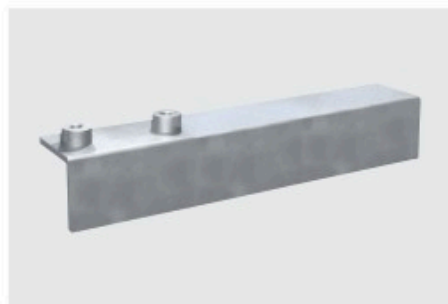


Photo Source: mm-fotowerbung.de



Photo Source: mm-fotowerbung.de





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.



3D-Printed Special Clamps

Rapid online quoting and unrivalled fast production and delivery of prototypes and components in small batches

STAUFF offers rapid online quoting and unrivalled fast production and delivery of fully functional and durable prototypes and small batches of STAUFF clamps for the secure fastening of pipes, tubes, hoses, cables and other components in hydraulics and other industrial applications.

And that's how simple it works: Upload the CAD model, select options such as material and colour, get your individual price per piece immediately, specify the quantity, and place the order online. You will typically receive your components within a few working days and pay conveniently by invoice.

STAUFF product specialists will be happy to advise you free of charge on the design optimisation of components and provide support in transferring prototypes to large-batch production.

www.stauff.protiq.com



Enquiry Form for Custom-Designed Special Clamps

Please use the following form as a guideline when preparing an enquiry for a custom-designed special clamp. Scan or copy the page from the catalogue, print and complete it with

as much information as possible, before sending it by email or fax to the closest STAUFF branch office. If possible, please also provide a sketch / drawing and let us know the quanti-

ties required, and if the enquiry is for a one-time or recurring demand. We look forward to hearing from you, and are always available for consultation, when required.

Application Information

Area of use	☐ Indoor	☐ Outdoor
Ambient temperature	Lowest _____ ☐ °C / ☐ °F	Highest _____ ☐ °C / ☐ °F
Resistance against particular media	☐ No	☐ Yes ☐ Mineral oils ☐ Other oils _____ ☐ Benzine ☐ Weak acids ☐ Solvents ☐ Alcohols ☐ Seawater ☐ Other media _____
Fire protection requirements	☐ No	☐ Yes ☐ UL94 ☐ BS 6853 ☐ Other standard _____
Material preference for the clamp body	☐ Polypropylene ☐ Aluminium ☐ Stainless Steel ☐ V2A ☐ V4A	☐ Polyamide ☐ Steel ☐ Other material _____

Design Information

Type of line	☐ Pipe / tube (fixed installation) ☐ Hose ☐ Cable ☐ Other components _____	☐ Pipe / tube (sliding installation) ☐ Conduit Hose ☐ Mix of different types of lines
Maximum dimensions of clamp body	Length _____ x Width _____ x Height _____ ☐ mm / ☐ inch	
Total number of lines	_____	
Diameters per line	Line 1 _____ ☐ mm / ☐ inch Line 2 _____ ☐ mm / ☐ inch Line 3 _____ ☐ mm / ☐ inch Line 4 _____ ☐ mm / ☐ inch Line 5 _____ ☐ mm / ☐ inch Line 6 _____ ☐ mm / ☐ inch Line 7 _____ ☐ mm / ☐ inch Line 8 _____ ☐ mm / ☐ inch	Further comments _____ Further comments _____ Further comments _____ Further comments _____ Further comments _____ Further comments _____ Further comments _____ 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) ☐ Socket cap crews (with cover plate) ☐ Socket cap crews (w/o cover plate)	☐ with metric threads ☐ with metric threads ☐ with metric threads	☐ with UNC threads ☐ with UNC threads ☐ with UNC threads
Preferred type of installation	☐ Welding (using a weld plate) ☐ Direct screw-fastening ☐ Mounting rail (using a rail nut / adaptor)	☐ Welding (using weld studs) ☐ Adhesive bonded fastening	
Material preference for the hardware	☐ Steel	☐ Stainless Steel ☐ V2A ☐ V4A	





	Clamp Body • Single Design LBBU	136
	Clamp Body • Twin Design LBBU	137
	Weld Plate LBBU-SP	138
	Sleeve LBBU-HUE	138
	Cover Plate LBBU-DP	139
	Hexagon Head Bolt AS	139
	Clamp Body • Single Design LB	140
	Clamp Body • Twin Design LBG / LBU	141
	Clamp Body • Single Design LN	142
	Clamp Body • Twin Design LNGF / LNUF	143
	Cover Plate DPL	143



Clamp Body • Single Design

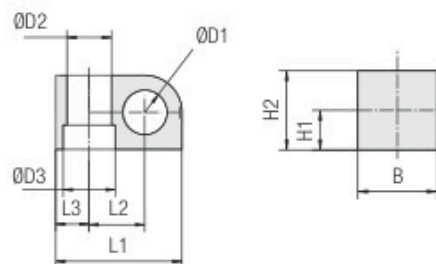
Type LBBU



Size 2 in slotted design



Size 1 and 3 with film hinge



Ordering Codes

Clamp Body *LBBU-*1*06-*SA87-*M8/U5/16

- * Light Series LBBU **LBBU**
- * STAUFF Group **1**
- * Exact outside diameter Ø D1 (mm) **06**
- * Material code (see below) Size 1 and 3 **SA87**
- Size 2 **SA73**
- * Thread code (suitable for bolts M8 and U5/16) **M8/U5/16**

Standard Materials



Thermoplastic Elastomer (87 Shore-A)
 Colour: Black
 Material code: **SA87** (Size 1 and 3)
 Material code: **SA73** (Size 2)

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

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

Product Features

- Compact and light-weight design for applications in which space is limited
- Available in 3 different sizes and covering all standard metric and imperial diameters between 4 mm and 32 mm
- Vibration-damping and noise-reducing clamp body material with UV, ozone and weathering-resistant characteristics
- Embedded metal sleeve to ensure stability of the clamp assembly

Group	Outside Diameter Pipe / Tube / Hose Ø D1 (mm) (in)	Nominal Bore Pipe (in)	Ordering Codes (1 Clamp Body)	Dimensions (mm/in)							
STAUFF				Ø D2	Ø D3	L1	L2	L3	H1	H2	B
1	6		LBBU-106-SA87-M8/U5/16								
	6,4	1/4	LBBU-106.4-SA87-M8/U5/16								
	8	5/16	LBBU-108-SA87-M8/U5/16								
	9,5	3/8	LBBU-109.5-SA87-M8/U5/16	12	14	34	15	9	10	20	20
	10	1/8	LBBU-110-SA87-M8/U5/16	.47	.55	1.34	.59	.35	.39	.79	.79
	11		LBBU-111-SA87-M8/U5/16								
	12		LBBU-112-SA87-M8/U5/16								
	12,7	1/2	LBBU-112.7-SA87-M8/U5/16								
	10	1/8	LBBU-210-SA87-M8/U5/16								
	11		LBBU-211-SA87-M8/U5/16								
2	12		LBBU-212-SA87-M8/U5/16								
	12,7	1/2	LBBU-212.7-SA87-M8/U5/16								
	13,5	1/4	LBBU-213.5-SA87-M8/U5/16								
	14		LBBU-214-SA87-M8/U5/16	20	14	39	18	9	12	24	20
	15		LBBU-215-SA87-M8/U5/16	.47	.55	1.54	.71	.35	.47	.94	.79
	16	5/8	LBBU-216-SA87-M8/U5/16								
	17,2	3/8	LBBU-217.2-SA87-M8/U5/16								
	18		LBBU-218-SA87-M8/U5/16								
	19	3/4	LBBU-219-SA87-M8/U5/16								
	20		LBBU-220-SA87-M8/U5/16								
3	21,3		LBBU-321.3-SA87-M8/U5/16								
	22	7/8	LBBU-322-SA87-M8/U5/16								
	23		LBBU-323-SA87-M8/U5/16								
	25		LBBU-325-SA87-M8/U5/16	12	14	57,5	23,5	15	20	40	30
	25,4	1	LBBU-325.4-SA87-M8/U5/16	.47	.55	2.26	.93	.59	.79	1.57	1.18
	28		LBBU-328-SA87-M8/U5/16								
	30		LBBU-330-SA87-M8/U5/16								
	32	1-1/4	LBBU-332-SA87-M8/U5/16								

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



Type of Mounting SP (with Weld Plate LBBU-SP)

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

Order Code

LBBU-SP-322-SA87-DP-AS-M8-W10

W10 (Weld Plate made of Carbon Steel, phosphated;
 Other metal parts made of Carbon Steel, zinc/nickel-plated)
 is the standard option for this type of installation.
 For UNC threads / bolts, please replace M8 by U5/16.



Type of Mounting SM (with Hexagon Rail Nut SM-2-5D)

- Clamp assembly consisting of:
- 1 Hexagon Head Bolt AS
 - 1 Cover Plate LBBU-DP
 - 1 Sleeve LBBU-HUE
 - 1 Clamp Body LBBU
 - 1 Hexagon Rail Nut SM-2-5D
 (for use with Mounting Rail TS,
 see page 24 for details)

Order Code (Mounting Rail TS not included.)

LBBU-SM-322-SA87-DP-AS-M8-W3

W3 (Metal parts made of Carbon Steel, zinc/nickel-plated)
 is the standard option for this type of installation.
 For UNC threads / bolts, please replace M8 by U5/16.



Type of Mounting PM (for panel mounting without Weld Plate or Hexagon Rail Nut)

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

Order Code

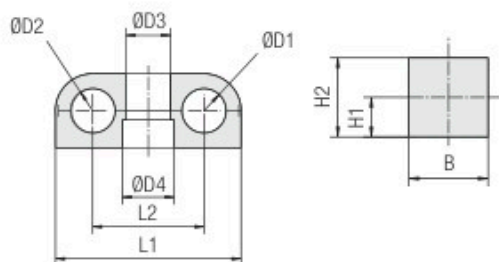
LBBU-PM-322-SA87-DP-AS-M8-W3

W3 (Metal parts made of Carbon Steel, zinc/nickel-plated)
 is the standard option for this type of installation.
 For UNC threads / bolts, please replace M8 by U5/16.

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



Clamp Body • Twin Design Type LBBU



Size 1D and 3D with film hinge



Size 2D in slotted design

Group	Outside Diameters Pipe / Tube / Hose Ø D1 / Ø D2 (mm) (in)	Nominal Bore Pipe (in)	Ordering Codes (1 Clamp Body)	Dimensions (mm/in)						
STAUFF				Ø D3	Ø D4	L1	L2	H1	H2	B
1D	4		LBBU-104/04-SA87-M8/U5/16							
	6		LBBU-106/06-SA87-M8/U5/16							
	6,4	1/4	LBBU-106.4/06.4-SA87-M8/U5/16							
	8	5/16	LBBU-108/08-SA87-M8/U5/16							
	9,5	3/8	LBBU-109.5/09.5-SA87-M8/U5/16	12	14	50	30	10	20	20
	10		LBBU-110/10-SA87-M8/U5/16	.47	.55	1.97	1.18	.39	.79	.79
	11		LBBU-111/11-SA87-M8/U5/16							
	12		LBBU-112/12-SA87-M8/U5/16							
	12,7	1/2	LBBU-112.7/12.7-SA87-M8/U5/16							
	10	1/8	LBBU-210/10-SA87-M8/U5/16							
2D	11		LBBU-211/11-SA87-M8/U5/16							
	12		LBBU-212/12-SA87-M8/U5/16							
	12,7	1/2	LBBU-212.7/12.7-SA87-M8/U5/16							
	13,5	1/4	LBBU-213.5/13.5-SA87-M8/U5/16							
	14		LBBU-214/14-SA87-M8/U5/16	12	14	59	35	12	24	20
	15		LBBU-215/15-SA87-M8/U5/16	.47	.55	2.32	1.38	.47	.94	.79
	16	5/8	LBBU-216/16-SA87-M8/U5/16							
	17,2	3/8	LBBU-217.2/17.2-SA87-M8/U5/16							
	18		LBBU-218/18-SA87-M8/U5/16							
	19	3/4	LBBU-219/19-SA87-M8/U5/16							
3D	20		LBBU-220/20-SA87-M8/U5/16							
	21,3		LBBU-321.3/21.3-SA87-M8/U5/16							
	22	7/8	LBBU-322/22-SA87-M8/U5/16							
	23		LBBU-323/23-SA87-M8/U5/16							
	25		LBBU-325/25-SA87-M8/U5/16	12	14	86	47	20	40	30
	25,4	1	LBBU-325.4/25.4-SA87-M8/U5/16	.47	.55	3.39	1.85	.79	1.57	.79
	28		LBBU-328/28-SA87-M8/U5/16							
	30		LBBU-330/30-SA87-M8/U5/16							
	32	1-1/4	LBBU-332/32-SA87-M8/U5/16							

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

Ordering Codes

Clamp Body *LBBU-*1*06/06-*SA87-*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) Size 1D and 3D SA87
- Size 2D SA73
- ★ Thread code (suitable for bolts M8 and U5/16) M8/U5/16

Standard Materials

- Thermoplastic Elastomer (87 Shore-A)
- Colour: Black
- Material code: SA87 (Size 1D and 3D)
- Material code: SA73 (Size 2D)

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

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

Product Features

- Compact and light-weight design for applications in which space is limited
- Available in 3 different sizes and covering all standard metric and imperial diameters between 4 mm and 32 mm
- Vibration-damping and noise-reducing clamp body material with UV, ozone and weathering-resistant characteristics
- Embedded metal sleeve to ensure stability of the clamp assembly



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-SA87-DP-AS-M8-W10

W10 (Weld Plate made of Carbon Steel, phosphated;
Other metal parts made of Carbon Steel, zinc/nickel-plated)
is the standard option for this type of installation.
For UNC threads / bolts, please replace M8 by U5/16.



Type of Mounting SM (with Hexagon Rail Nut SM-2-5D)

- Clamp assembly consisting of:
- 1 Hexagon Head Bolt AS
 - 1 Cover Plate LBBU-DP
 - 1 Sleeve LBBU-HUE
 - 1 Clamp Body LBBU
 - 1 Hexagon Rail Nut SM-2-5D
(for use with Mounting Rail TS,
see page 24 for details)

Order Code (Mounting Rail TS not included.)

LBBU-SM-322/22-SA87-DP-AS-M8-W3

W3 (Metal parts made of Carbon Steel, zinc/nickel-plated)
is the standard option for this type of installation.
For UNC threads / bolts, please replace M8 by U5/16.



Type of Mounting PM (for panel mounting without Weld Plate or Hexagon Rail Nut)

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

Order Code

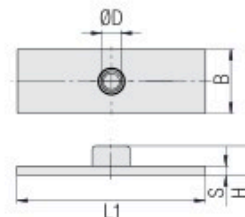
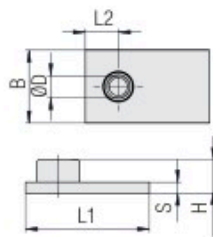
LBBU-PM-322/22-SA87-DP-AS-M8-W3

W3 (Metal parts made of Carbon Steel, zinc/nickel-plated)
is the standard option for this type of installation.
For UNC threads / bolts, please replace M8 by U5/16.

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



Weld Plate Type LBBU-SP



STAUFF Group 1 to 3

STAUFF Group 1D to 3D

Ordering Codes

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

* Light Series LBBU	LBBU
* Weld Plate	-SP
* STAUFF Group	1D
* Thread code	Metric ISO thread: M8 UNC thread: 5/16-18 UNC
* Material code	Carbon Steel, phosphated

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		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		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		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	

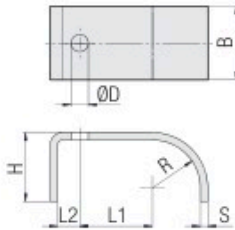
Group STAUFF	Dimensions (mm/in)			Ordering Codes (Standard Options)
	ØD1	ØD2	L	
1	12	9	12,8	LBBU-HUE-1/1D-SM-M8/U5/16-W3
	.47	.35	.50	
2	12	9	16,8	LBBU-HUE-2/2D-SM-M8/U5/16-W3
	.47	.35	.66	
3	12	9	32,8	LBBU-HUE-3/3D-SM-M8/U5/16-W3
	.47	.35	1.29	
1D	12	9	12,8	LBBU-HUE-1/1D-SM-M8/U5/16-W3
	.47	.35	.50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

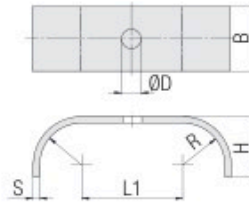
Alternative sizes (e.g. for bolts M6 and 1/4-20 UNC), materials and surface finishings are available upon request.



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	

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

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

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)	Ordering Codes (Standard Options)
	Thread G x L	
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)	Ordering Codes (Standard Options)
	Thread G x L	
1	M8 x 30	AS-M8x30-W3
	5/16-18 UNC x 1-1/4	AS-U5/16-18x1-1/4-W3
2	M8 x 35	AS-M8x35-W3
	5/16-18 UNC x 1-3/8	AS-U5/16-18x1-3/8-W3
3	M8 x 50	AS-M8x50-W3
	5/16-18 UNC x 2	AS-U5/16-18x2-W3
1D	M8 x 30	AS-M8x30-W3
	5/16-18 UNC x 1-1/4	AS-U5/16-18x1-1/4-W3
2D	M8 x 35	AS-M8x35-W3
	5/16-18 UNC x 1-3/8	AS-U5/16-18x1-3/8-W3
3D	M8 x 50	AS-M8x50-W3
	5/16-18 UNC x 2	AS-U5/16-18x2-W3

Ordering Codes

Hexagon Head Bolt *AS-*M8x25-*W3

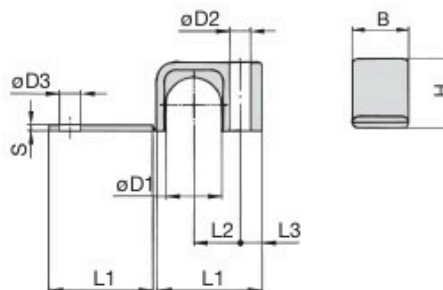
* Type of bolt	Hexagon Head Bolt (according to DIN 931 / 933 or ANSI / ASME B18.2.1.)	AS
* Thread code	Thread dimension according to dimension table	M8x25
* Material code	Carbon Steel, zinc/nickel-plated	W3

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

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



Clamp Body • Single Design Type LB



Ordering Codes

Clamp Body

***LB-*1*03.2-*PP**

- * Light Series: Clamp Body / Single Design **LB**
- * STAUFF Group **1**
- * Exact outside diameter Ø D1 (mm) **03.2**
- * Material code (see below) **PP**

Standard Materials



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



Polyamide
Colour: Yellow
Material code: **PA**

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

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

Applications

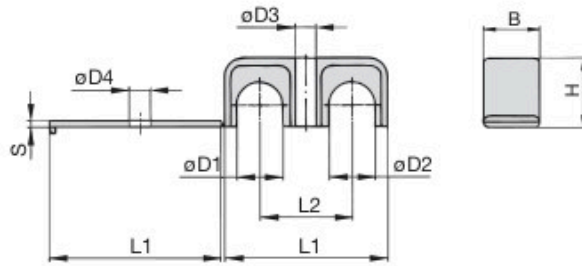
- Pneumatics, Instrumentation and Automotive Technology,
Machine Tool Industry, Lubrication, Mechanical Engineering

Group	Outside Diameter Pipe / Tube / Hose Ø D1		Nominal Bore Pipe	Ordering Codes (1 Clamp Body)	Dimensions (mm/in)							
STAUFF	(mm)	(in)	(in)	(** = Material)	L1	L2	L3	B	H	S	Ø D2	Ø D3
1	3,2	1/8		LB-103.2-**-**								
	6			LB-106-**-**	22	9	6,5	12	10,5	2	6,8	7
	6,4	1/4		LB-106.4-**-**	.87	.35	.26	.47	.41	.08	.27	.28
	8			LB-108-**-**								
2	9,5	3/8		LB-209.5-**-**								
	10		1/8	LB-210-**-**	27	11	7	16	15	2	6,8	7
	11,1			LB-211.1-**-**	1.06	.43	.28	.63	.59	.08	.27	.28
	12			LB-212-**-**								
3	12,7	1/2		LB-312.7-**-**								
	13,5		1/4	LB-313.5-**-**								
	14			LB-314-**-**								
	15			LB-315-**-**	34	15	7	20	22,5	2	6,8	7
	16	5/8		LB-316-**-**	1.34	.59	.28	.79	.89	.08	.27	.28
	17,2		3/8	LB-317.2-**-**								
4	18			LB-318-**-**								
	19	3/4		LB-419-**-**								
	20			LB-420-**-**								
	21,3		1/2	LB-421.3-**-**	42	19	7	20	30	2	6,8	7
	22			LB-422-**-**	1.65	.75	.28	.79	1.18	.08	.27	.28
	25			LB-425-**-**								
	25,4	1		LB-425.4-**-**								

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



Clamp Body • Twin Design Types LBG / LBU



Group	Outside Diameters Pipe / Tube / Hose Ø D1 / Ø D2	Nominal Bore Pipe	Ordering Codes (1 Clamp Body)	Dimensions (mm/in)						
STAUFF	(mm)	(in)	(** = Material)	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		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		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		LBG-317.2/17.2-**-**							
	18		LBG-318/18-**-**							
4	19	3/4	LBG-419/19-**-**							
	20		LBG-420/20-**-**							
	21,3		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-**-**							

Additional outside diameters and combinations of different outside diameters (Clamp Body, Type LBU) are available upon request.
Please contact STAUFF for further information.

Ordering Codes

Clamp Body *LBG-*1*03.2/03.2-*PP

- * Light Series: Clamp Body / Twin Design with identical diameters **LBG**
- Clamp Body / Twin Design with different diameters **LBU**
- * STAUFF Group **1**
- * Exact outside diameters Ø D1 / Ø D2 (mm) **03.2/03.2**
- * Material code (see below) **PP**

Standard Materials

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

Polyamide
Colour: Yellow
Material code: **PA**

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

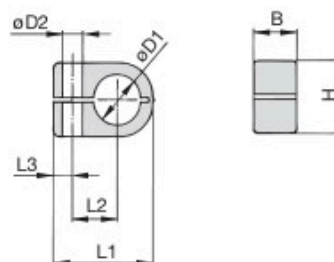
Alternative materials are available upon request.
Please contact STAUFF for further information.

Applications

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



Clamp Body • Single Design Type LN



Ordering Codes

Clamp Body

***LN-*1*06-*PP**

- * Light Series: Clamp Body / Single Design **LN**
- * STAUFF Group **1**
- * Exact outside diameter Ø D1 (mm) **06**
- * Material code (see below) **PP**

Standard Materials



Polypropylene

Colour: Green

Material code: **PP**



Polyamide

Colour: Black

Material code: **PA**

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

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

Applications

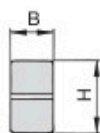
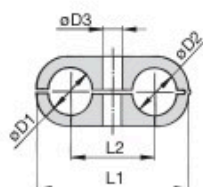
- Pneumatics, Instrumentation and Automotive Technology,
Machine Tool Industry, Lubrication, Mechanical Engineering

Group	Outside Diameter Pipe / Tube / Hose Ø D1	Nominal Bore Pipe	Ordering Codes (1 Clamp Body)	Dimensions (mm/in)					
STAUFF	(mm)	(in)	(** = Material)	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		LN-210-**-**	1.06	.43	.28	.57	.73	.27
	12		LN-212-**-**						
	12,7	1/2	LN-212.7-**-**						
3	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
	15		LN-315-**-**						
4	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	Outside Diameters Pipe / Tube / Hose Ø D1 / Ø D2	Nominal Bore Pipe	Ordering Codes (1 Clamp Body)	Dimensions (mm/in)				
STAUFF	(mm)	(in)	(** = Material)	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-**-**	41	22	14,5	18,5	6,8
	10		LNGF-210/10-**-**	1.61	.86	.57	.73	.27
	12		LNGF-212/12-**-**					
	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-**-**	54	30	14,5	23,5	6,8
	13,5		LNGF-313.5/13.5-**-**	2.13	1.18	.57	.93	.27
	14		LNGF-314/14-**-**					
	15		LNGF-315/15-**-**					
	16	5/8	LNGF-316/16-**-**					
4	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-**-**					

Additional outside diameters and combinations of different outside diameters (Clamp Body, type LNUF) are available upon request. Please contact STAUFF for further information.

Ordering Codes

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

- * Light Series: Clamp Body / Twin Design with identical diameters LNGF
- Clamp Body / Twin Design with different diameters LNUF
- * STAUFF Group 1
- * Exact outside diameters Ø D1 / Ø D2 (mm) 06/06
- * Material code (see below) PP

Standard Materials

Polypropylene
Colour: Green
Material code: PP

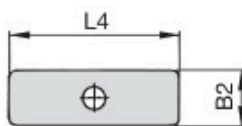
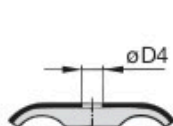
Polyamide
Colour: Black
Material code: PA

See pages 178 / 179 for material properties and technical information. Alternative materials are available upon request. Please contact STAUFF for further information.

Applications

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

Cover Plate Type DPL



Group	Dimensions (mm/in)			Ordering Codes (Standard Options)
STAUFF	L4	B2	Ø D4	
1	29,5	15,5	6,8	DPL-1-W3
	1.16	.61	.27	
2	40	15,5	6,8	DPL-2-W3
	1.57	.61	.27	
3	51	16	6,8	DPL-3-W3
	2.01	.63	.27	
4	63,5	16	6,8	DPL-4-W3
	2.50	.63	.27	

Ordering Codes

Cover Plate *DPL-*1-*W3

- * Cover Plate for Clamp Body / Twin Design DPL
- * STAUFF Group 1
- * Material code Carbon Steel, zinc/nickel-plated W3

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information. Please note: The maximum tightening torque for bolts is 2,5 N·m (1.85 ft·lb).







Saddle / Piggyback Clamp

ZR-518

146

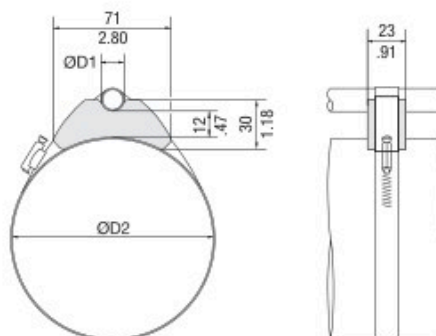


Custom-Designed Saddle / Piggyback Clamps

146



Saddle / Piggyback Clamps Type ZR



Order Code

Saddle Clamp

ZR-518-SA73-BK

Standard Material



Thermoplastic Elastomer (73 Shore-A)
Colour: Black

See pages 178 / 179 for properties and technical information.

Min/Max Outside Diameters *				Tightening Strap Dimensions (Not Included in Scope of Delivery)			
Pipe / Tube				Length		Width	
Ø D1		Ø D2		(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.

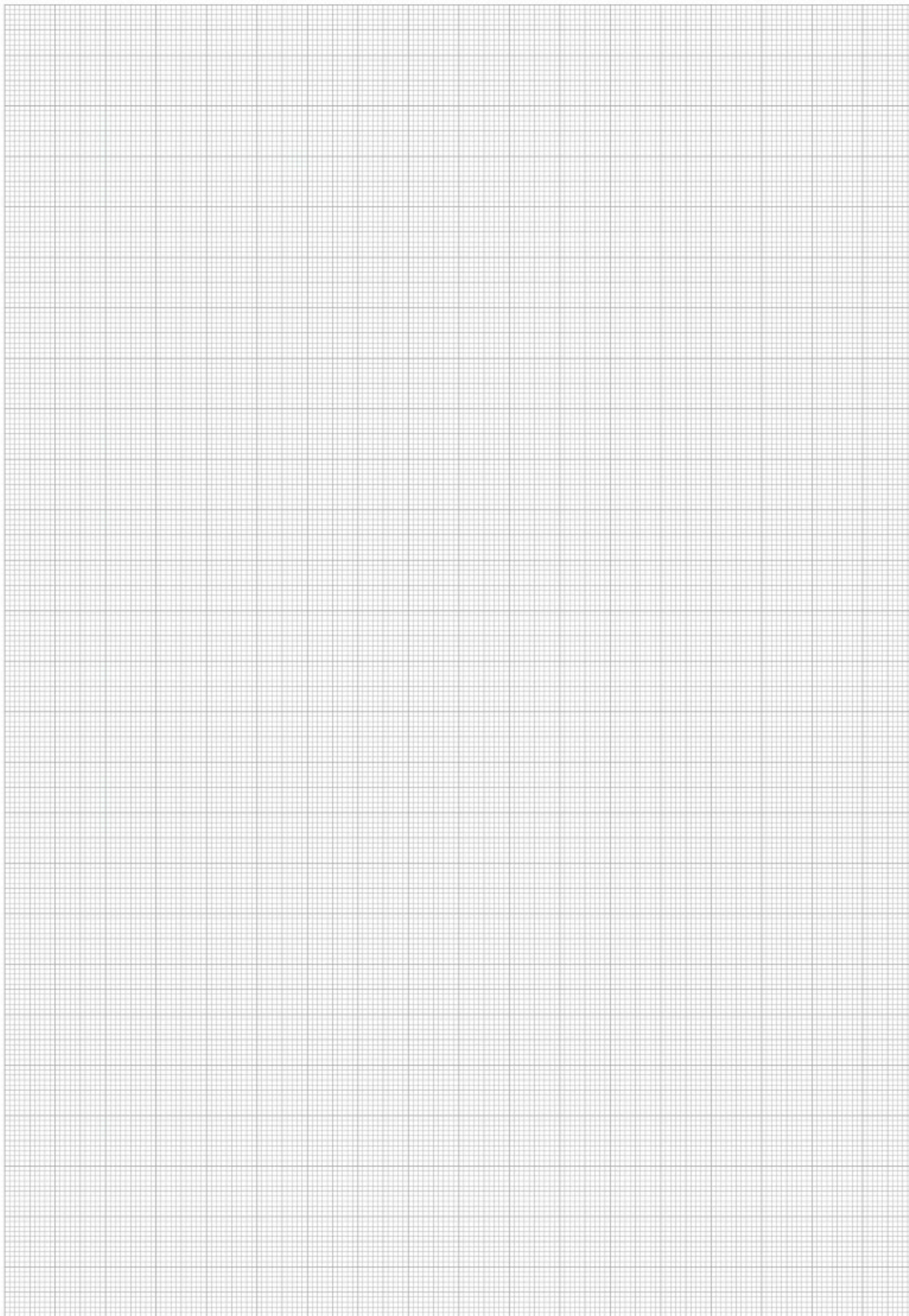
If required, customised clamps can be developed for specific requirements or manufactured based on drawings and models provided.

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

150



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

152



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

154

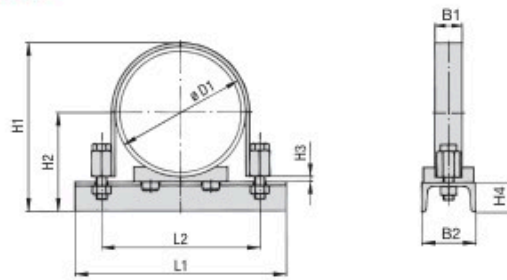
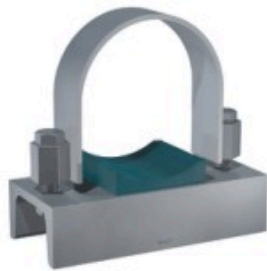


**Round Steel U-Bolt (DIN 3570, Type A)
without Plastic Pipe Saddle**
RBD

156



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



Flat Steel U-Bolt (type FB) with Plastic Pipe Saddle
(type RUK), U-Profile and Hexagon Head Bolts

Ordering Codes

Clamp Assembly *FB+RUK-*48.3-*PP-*W56

One clamp assembly is consisting of one Flat Steel U-Bolt (type FB), one Plastic Pipe Saddle (type RUK), one U-Profile (to DIN 1026) with two Nuts (to DIN EN ISO 4032) and two Hexagon Head Bolts (to DIN EN ISO 4014 / 4017).

- ★ Clamp Assembly (as listed above) **FB+RUK**
- ★ Exact outside diameter Ø D1 (mm) **48.3**
- ★ Material of Pipe Saddle (see below) **PP**
- ★ Material code **W56**

Please note: The U-Profile (to DIN 1026) is made of Carbon Steel, uncoated.
Flat Steel U-Bolt and Bolts made of Stainless Steel V4A.
Please note: All items are supplied assembled.

Standard Materials for Plastic Pipe Saddles

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

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

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

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

Applications

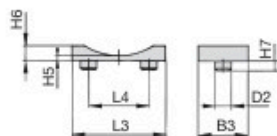
- Standing or hanging installation of pipes and tubes on beams, profiles and consoles
- Design with two threaded ends allows for ideal adaptation to suit the exact outer diameter of the pipe or tube

Diameter Nominal DN	Outside Diameter Pipe / Tube Ø D1 (mm)	(in)	Nominal Bore Pipe (in)	Dimensions (mm/in)						U-Profile (DIN 1026) B2 x H4
				Flat Steel U-Bolt (Type FB)						
				L1	L2	H1	H2	H3	B1	
40	48,3	1.93	1-1/2	100	76	95	67	5	20 x 3	50 x 38
				3.94	2.99	3.74	2.64	.20	.78 x .12	1.97 x 1.50
50	57	2.28	2	115	85	103	71.5	5	20 x 3	50 x 38
				4.53	3.35	4.06	2.81	.20	.78 x .12	1.97 x 1.50
	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		
65	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
80	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
100	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
	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		
125	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
	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		
150	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
	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		
175	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
	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		
200	216	8.64	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
	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		
250	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
	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		
300	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
	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		
350	368	14.72	16	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
	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		
400	419	16.76	18	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
	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		
500	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
	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	Outside Diameter Pipe / Tube Ø D1		Nominal Bore Pipe	Dimensions (mm/in)							Hexagon Head Bolt (DIN EN ISO 4014 / 4017)
DN	(mm)	(in)	(in)	Plastic Pipe Saddle (type RUK)							Thread G x L
				L3	L4	B3	D2	H5	H6	H7	
40	48,3	1.93	1-1/2	24	25	35	8	5	8	5	M10 x 40
50	57	2.28		.94	.98	1.38	.31	.20	.31	.20	M10 x 40
				38	25	50	10	5	10	6	
	60,3	2.41	2	1.50	.98	1.97	.39	.20	.39	.24	M10 x 40
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	
				38	25	50	10	5	10	6	M10 x 40
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	
				75	40	70	15	8	17	10	M 12 x 55
100	108	4.32		2.95	1.57	2.76	.59	.31	.67	.39	M 12 x 55
				75	40	70	15	8	17	10	
	114,3	4.57	4	2.95	1.57	2.76	.59	.31	.67	.39	M 12 x 55
125	133	5.32		75	40	70	15	8	17	10	M 12 x 55
				2.95	1.57	2.76	.59	.31	.67	.39	
	139,7	5.59	5	2.95	1.57	2.76	.59	.31	.67	.39	M 12 x 55
150	159	6.36		140	90	75	25	8	26	10	M 16 x 75
				5.51	3.54	2.95	.98	.31	1.02	.39	
	168,3	6.73	6	140	90	75	25	8	26	10	M 16 x 75
175	193,7	7.75		5.51	3.54	2.95	.98	.31	1.02	.39	M 16 x 75
				140	90	75	25	8	26	10	
				140	90	75	25	8	26	10	M 16 x 75
200	216	8.64		5.51	3.54	2.95	.98	.31	1.02	.39	M 16 x 75
				140	90	75	25	8	26	10	
	219,1	8.76	8	5.51	3.54	2.95	.98	.31	1.02	.39	M 16 x 75
250	267	10.68		140	90	75	25	8	26	10	M 20 x 80
				5.51	3.54	2.95	.98	.31	1.02	.39	
	273	10.92	10	140	90	75	25	8	26	10	M 20 x 80
300	318	12.72		5.51	3.54	2.95	.98	.31	1.02	.39	M 20 x 80
				220	150	75	30	8	32	10	
	323,9	12.96	12	8.66	5.91	2.95	1.18	.31	1.26	.39	M 20 x 80
350	355,6	14.22	14	8.66	5.91	2.95	1.18	.31	1.26	.39	M 24 x 100
				220	150	75	30	8	32	10	
	368	14.72		8.66	5.91	2.95	1.18	.31	1.26	.39	M 24 x 100
400	406,4	16.26	16	220	150	75	30	8	32	10	M 24 x 100
				8.66	5.91	2.95	1.18	.31	1.26	.39	
	419	16.76		8.66	5.91	2.95	1.18	.31	1.26	.39	M 24 x 100
500	457	18.28	18	220	150	75	30	8	32	10	M 24 x 100
				8.66	5.91	2.95	1.18	.31	1.26	.39	
	508	20.32	20	220	150	75	30	8	32	10	M 24 x 100
	521	20.84		8.66	5.91	2.95	1.18	.31	1.26	.39	M 24 x 100

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 Carbon Steel, zinc-plated, blue-chromated Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)
	W1 W32 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

Please note: All items are supplied assembled.

Standard Materials for Plastic Pipe Saddles

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

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

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

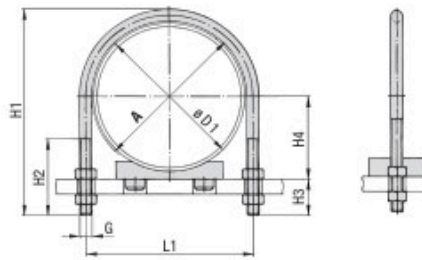
Alternative materials are available upon request.
Please contact STAUFF for further information.

Applications

- Standing or hanging installation of pipes and tubes on beams, profiles and consoles
- Design with two threaded ends allows for ideal adaptation to suit the exact outer diameter of the pipe or tube



Round Steel U-Bolt with Plastic Pipe Saddle (Short) Type RB+RUK



Round Steel U-Bolt (type RB) with Plastic Pipe Saddle (type RUK)



Ordering Codes

Clamp Assembly *RB+RUK-*48.3-*PP-*W1

One clamp assembly is consisting of one Round Steel U-Bolt (type RB), one Plastic Pipe Saddle (type RUK) and four Nuts (to DIN EN ISO 4032).

* Clamp Assembly (as listed above)	RB+RUK
* Exact outside diameter Ø D1 (mm)	48.3
* Material of Pipe Saddle (see below)	PP
* Material code Carbon Steel, uncoated	W1
Carbon Steel, zinc-plated, blue-chromated	W32
Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)	W5

Please note: All items are supplied non-assembled.

Standard Materials for Plastic Pipe Saddles

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

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

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

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

Applications

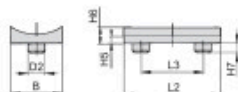
- Standing or hanging installation of pipes and tubes on beams, profiles and consoles
- Design with two threaded ends allows for ideal adaptation to suit the exact outer diameter of the pipe or tube

Diameter Nominal	Outside Diameter Pipe / Tube		Nominal Bore	Dimensions (mm/in)						
DN	Ø D1 (mm)	(in)	Pipe (in)	Round Steel U-Bolt (Type RB)	L1	H1	H2	H3	H4	Thread G
20	25	.98			40	73,5	41	30	17,5	
				30	1.57	2.89	1.61	1.18	.69	M10
	26,9	1.06	3/4	1.18	40	73,5	41	30	18,5	M10
					1.57	2.89	1.61	1.18	.73	
25	30	1.18			48	81	48	30	20	M10
				38	1.89	3.19	1.89	1.18	.79	
	33,7	1.33	1	1.50	48	81	48	30	22	M10
					1.89	3.19	1.89	1.18	.87	
32	38	1.50			56	89	48	30	24	M10
				46	2.20	3.50	1.89	1.18	.94	
	42,4	1.69	1-1/4	1.81	56	89	48	30	26,2	M10
					2.20	3.50	1.89	1.18	1.03	
40	44,5	1.76			62	100	55	35	27,2	M10
				52	2.44	3.94	2.17	1.38	1.07	
	48,3	1.90	1-1/2	2.05	62	100	55	35	29	M10
					2.44	3.94	2.17	1.38	1.14	
50	57	2.28			76	118	63	39	33,5	M12
				64	2.99	4.65	2.48	1.54	1.32	
	60,3	2.41	2	2.52	76	118	63	39	35,2	M12
					2.99	4.65	2.48	1.54	1.39	
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	41	52,5	M12
					3.70	4.17	5.98	3.23	1.61	2.07
100	108	4.32			136	190	105	49	62	M16
				120	5.35	7.48	4.13	1.93	2.44	
	114,3	4.57	4	4.72	136	190	105	49	65	M16
					5.35	7.48	4.13	1.93	2.56	
125	133	5.32			164	217	105	49	74,5	M16
				148	6.46	8.54	4.13	1.93	2.93	
	139,7	5.59	5	5.83	164	217	105	49	78	M16
					6.46	8.54	4.13	1.93	3.07	
150	159	6.36			192	247	105	51	87,5	M16
				176	7.56	9.72	4.13	2.01	3.44	
	168,3	6.73	6	6.93	192	247	105	51	92	M16
					7.56	9.72	4.13	2.01	3.62	
175	193,7	7.75		202	218	273	105	51	105	M16
					7.96	8.58	10.75	4.13	2.01	4.13
200	216	8.64			248	311	125	59	116	M20
				228	9.76	12.24	4.92	2.32	4.57	
	219,1	8.76	8	8.98	248	311	125	59	117,5	M20
					9.76	12.24	4.92	2.32	4.63	
250	267	10.68			303	364	125	59	141,5	M20
				282	11.93	14.33	4.92	2.32	5.57	
	273	10.92	10	11.10	302	364	125	59	144,5	M20
					11.89	14.33	4.92	2.32	5.69	
300	318	12.72			352	418	125	62	167	M20
				332	13.86	16.46	4.92	2.44	6.57	
	323,9	12.96	12	13.07	352	418	125	62	170	M20
					13.86	16.46	4.92	2.44	6.69	
350	355,6	14.22	14		402	475	145	70	186	M24
				378	15.83	18.70	5.71	2.76	7.32	
	368	14.72		14.88	402	475	145	70	192	M24
					15.83	18.70	5.71	2.76	7.56	
400	406,4	16.26	16		452	526	145	70	211	M24
				428	17.80	20.71	5.71	2.76	8.31	
	419	16.76		16.85	452	526	145	70	217,5	M24
					17.80	20.71	5.71	2.76	8.56	
500	508	20.32	20		554	627	145	70	262	M24
				530	21.81	24.69	5.71	2.76	10.31	
	521	20.84		20.87	554	627	145	70	269	M24
					21.81	24.69	5.71	2.76	10.59	

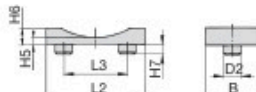
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



Round Steel U-Bolt with Plastic Pipe Saddle (Short) Type RB+RUK



Plastic Pipe Saddle (type RUK)
(For sizes DN 20 to DN 40)



Plastic Pipe Saddle (type RUK)
(From size DN 50 on)



Diameter Nominal	Outside Diameter Pipe / Tube Ø D1		Nominal Bore Pipe	Dimensions (mm/in)							
DN	(mm)	(in)	(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
			1.38		.98	.94	.20	.31	.20	.31	
	26,9	1.06	3/4	1.18	35	25	24	5	8	5	8
					1.38	.98	.94	.20	.31	.20	.31
25	30	1.18		38	35	25	24	5	8	5	8
			1.38		.98	.94	.20	.31	.20	.31	
	33,7	1.33	1	1.50	35	25	24	5	8	5	8
					1.38	.98	.94	.20	.31	.20	.31
32	38	1.50		46	35	25	24	5	8	5	8
			1.38		.98	.94	.20	.31	.20	.31	
	42,4	1.69	1-1/4	1.81	35	25	24	5	8	5	8
					1.38	.98	.94	.20	.31	.20	.31
40	44,5	1.76		52	35	25	24	5	8	5	8
			1.38		.98	.94	.20	.31	.20	.31	
	48,3	1.90	1-1/2	2.05	35	25	24	5	8	5	8
					1.38	.98	.94	.20	.31	.20	.31
50	57	2.28		64	38	25	50	5	10	6	10
			1.50		.98	1.97	.20	.39	.24	.39	
	60,3	2.41	2	2.52	38	25	50	5	10	6	10
					1.50	.98	1.97	.20	.39	.24	.39
65	76,1	3.04	2-1/2	82	38	25	50	5	10	6	10
				3.23	1.50	.98	1.97	.20	.39	.24	.39
80	88,9	3.56	3	94	75	40	70	8	17	10	15
				3.70	2.95	1.57	2.76	.31	.67	.39	.59
100	108	4.32		120	75	40	70	8	17	10	15
			2.95		1.57	2.76	.31	.67	.39	.59	
	114,3	4.57	4	4.72	75	40	70	8	17	10	15
					2.95	1.57	2.76	.31	.67	.39	.59
125	133	5.32		148	75	40	70	8	17	10	15
			2.95		1.57	2.76	.31	.67	.39	.59	
	139,7	5.59	5	5.83	75	40	70	8	17	10	15
					2.95	1.57	2.76	.31	.67	.39	.59
150	159	6.36		176	140	90	75	8	26	10	25
			5.51		3.54	2.95	.31	1.02	.39	.98	
	168,3	6.73	6	6.93	140	90	75	8	26	10	25
					5.51	3.54	2.95	.31	1.02	.39	.98
175	193,7	7.75		202	140	90	75	8	26	10	25
				7.96	5.51	3.54	2.95	.31	1.02	.39	.98
200	216	8.64		228	140	90	75	8	26	10	25
			5.51		3.54	2.95	.31	1.02	.39	.98	
	219,1	8.76	8	8.98	140	90	75	8	26	10	25
					5.51	3.54	2.95	.31	1.02	.39	.98
250	267	10.68		282	140	90	75	8	26	10	25
			5.51		3.54	2.95	.31	1.02	.39	.98	
	273	10.92	10	11.10	140	90	75	8	26	10	25
					5.51	3.54	2.95	.31	1.02	.39	.98
300	318	12.72		332	220	150	75	8	32	10	30
			8.66		5.91	2.95	.31	1.26	.39	1.18	
	323,9	12.96	12	13.07	220	150	75	8	32	10	30
					8.66	5.91	2.95	.31	1.26	.39	1.18
350	355,6	14.22	14	378	220	150	75	8	32	10	30
			8.66		5.91	2.95	.31	1.26	.39	1.18	
	368	14.72		14.88	220	150	75	8	32	10	30
					8.66	5.91	2.95	.31	1.26	.39	1.18
400	406,4	16.26	16	428	220	150	75	8	32	10	30
			8.66		5.91	2.95	.31	1.26	.39	1.18	
	419	16.76		16.85	220	150	75	8	32	10	30
					8.66	5.91	2.95	.31	1.26	.39	1.18
500	508	2.32	20	530	220	150	75	8	32	10	30
			8.66		5.91	2.95	.31	1.26	.39	1.18	
	521	2.84		2.87	220	150	75	8	32	10	30
					8.66	5.91	2.95	.31	1.26	.39	1.18

Ordering Codes

Round Steel U-Bolt *RB-A-52-W1-COMPL

One Round Steel U-Bolt (type RB) includes four Nuts (to DIN EN ISO 4032).

* Round Steel U-Bolt	RB
* Dimension A (mm)	A-52
* Material code	Carbon Steel, uncoated Carbon Steel, zinc-plated, blue-chromated Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)
	W1 W32 W5

only Plastic Pipe Saddle *RUK-48.3-PP

* Plastic Pipe Saddle (Short)	RUK
* Exact outside diameter Ø D1 (mm)	48.3
* Material of Pipe Saddle (see below)	PP

Standard Materials for Plastic Pipe Saddles

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

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

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

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

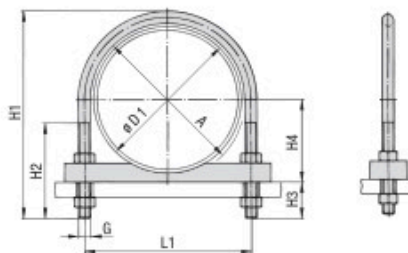
Applications

- Standing or hanging installation of pipes and tubes on beams, profiles and consoles
- Design with two threaded ends allows for ideal adaptation to suit the exact outer diameter of the pipe or tube

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



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



Round Steel U-Bolt (type RB) with Plastic Pipe Saddle (type RUL)

Recommended Installation
<DN50Recommended Installation
>DN50

Ordering Codes

Clamp Assembly *RB+RUL-*48.3-*PP-*W1

One clamp assembly is consisting of one Round Steel U-Bolt (type RB), one Plastic Pipe Saddle (type RUL) and four Nuts (to DIN EN ISO 4032).

* Clamp Assembly (as listed above)	RB+RUL
* Exact outside diameter Ø D1 (mm)	48.3
* Material of Pipe Saddle (see below)	PP
* Material code Carbon Steel, uncoated	W1
Carbon Steel, zinc-plated, blue-chromated	W32
Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)	W5

Please note: All items are supplied non-assembled.

Standard Materials for Plastic Pipe Saddles

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

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

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

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

Applications

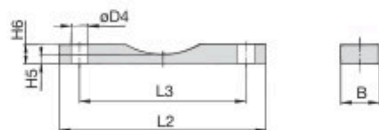
- Standing or hanging installation of pipes and tubes on beams, profiles and consoles
- Design with two threaded ends allows for ideal adaptation to suit the exact outer diameter of the pipe or tube

Diameter Nominal	Outside Diameter Pipe / Tube		Nominal Bore Pipe	Dimensions (""/in)							Thread G	
	Ø D1 (mm)	(in)		Round Steel U-Bolt (Type RB)								
DN				A	L1	H1	H2	H3	H4			
20	25	.98		30	40	73,5	41	30	17,5	M10		
					1.57	2.89	1.61	1.18	.69			
	26,9	1.06	3/4	1.18	40	73,5	41	30	18,5	M10		
					1.57	2.89	1.61	1.18	.73			
25	30	1.18		38	48	81	48	30	20	M10		
					1.89	3.19	1.89	1.18	.79			
	33,7	1.33	1	1.50	48	81	48	30	22	M10		
					1.89	3.19	1.89	1.18	.87			
32	38	1.50		46	56	89	48	30	24	M10		
					2.20	3.50	1.89	1.18	.94			
	42,4	1.69	1-1/4	1.81	56	89	48	30	26,2	M10		
					2.20	3.50	1.89	1.18	1.03			
40	44,5	1.76		52	62	100	55	35	27,2	M10		
					2.44	3.94	2.17	1.38	1.07			
	48,3	1.90	1-1/2	2.05	62	100	55	35	29	M10		
					2.44	3.94	2.17	1.38	1.14			
50	57	2.28		64	76	118	63	39	33,5	M12		
					2.99	4.65	2.48	1.54	1.32			
	60,3	2.41	2	2.52	76	118	63	39	35,2	M12		
					2.99	4.65	2.48	1.54	1.39			
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		
					3.70	4.17	5.98	3.23	1.54	2.15		
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		
					136	190	105	47	64			
	100	108	4.32		120	5.35	7.48	4.13	1.85	2.52	M16	
						4.72	136	190	105	47		67
					5.35	7.48	4.13	1.85	2.64	M16		
					164	217	105	47	76,5			
	125	133	5.32		148	6.46	8.54	4.13	1.85	3.01	M16	
						5.83	164	217	105	47		80
					6.46	8.54	4.13	1.85	3.15	M16		
					192	247	105	47	91,5			
	150	159	6.36		176	7.56	9.72	4.13	1.85	3.60	M16	
						6.93	192	247	105	47		96
					7.56	9.72	4.13	1.85	3.78	M16		
					218	273	105	47	109			
	175	193,7	7.75		202	7.96	8.58	10.75	4.13	1.85	4.29	M16
						248	311	125	55	120	M20	
9.76						12.24	4.92	2.17	4.72			
200		216	8.64		228	248	311	125	55	121,5	M20	
						8.98	248	311	125	55		121,5
					9.76	12.24	4.92	2.17	4.78	M20		
					303	364	125	55	145,5			
	250	267	10.68		282	11.93	14.33	4.92	2.17	5.73	M20	
						11.89	14.33	4.92	2.17	5.85		
					352	418	125	55	174	M20		
					13.86	16.46	4.92	2.17	6.85			
	300	318	12.72		332	352	418	125	55	177	M20	
						13.86	16.46	4.92	2.17	6.97		
					402	475	145	63	193	M24		
					15.83	18.70	5.71	2.48	7.60			
	350	368	14.72		378	402	475	145	63	199	M24	
						15.83	18.70	5.71	2.48	7.83		
					452	526	145	63	218	M24		
					17.80	20.71	5.71	2.48	8.58			
	400	406,4	16.26	16	428	452	526	145	63	224,5	M24	
						17.80	20.71	5.71	2.48	8.84		
					554	627	145	63	269	M24		
					21.81	24.69	5.71	2.48	10.59			
	500	508	20.32	20	530	554	627	145	63	276	M24	
						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	Outside Diameter Pipe / Tube Ø D1		Nominal Bore Pipe	Dimensions (""/in)						
DN	(mm)	(in)	(in)	Plastic Pipe Saddle (Type RUL)						
				A	L2	L3	B	H5	H6	Ø D4
20	25	.98		30	75	40	30	5	12	11
					2.95	1.57	1.18	.20	.47	.43
	26,9	1.06	3/4	1.18	75	40	30	5	12	11
25	30	1.18		38	2.95	1.57	1.18	.20	.47	.43
					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	80	48	30	5	12	11
					3.15	1.89	1.18	.20	.47	.43
	42,4	1.69	1-1/4	1.81	90	56	30	5	12	11
40	44,5	1.76		52	3.54	2.20	1.18	.20	.47	.43
					90	56	30	5	12	11
	48,3	1.90	1-1/2	2.05	3.54	2.20	1.18	.20	.47	.43
50	57	2.28		64	95	62	35	5	15	11
					3.74	2.44	1.38	.20	.59	.43
	60,3	2.41	2	2.52	95	62	35	5	15	11
65	76,1	3.04	2-1/2	82	3.74	2.44	1.38	.20	.59	.43
					110	76	35	5	15	14
	88,9	3.56	3	3.70	4.33	2.99	1.38	.20	.59	.55
80	108	4.32		120	135	94	35	5	15	14
					7.48	5.35	1.57	.39	.79	.71
	114,3	4.57	4	4.72	190	136	40	10	20	18
100	133	5.32		148	7.48	5.35	1.57	.39	.79	.71
					220	164	40	10	20	18
	139,7	5.59	5	5.83	8.66	6.46	1.57	.39	.79	.71
125	159	6.36		176	220	164	40	10	20	18
					8.66	6.46	1.57	.39	.79	.71
	168,3	6.73	6	6.93	250	192	50	12	25	18
150	193,7	7.75		202	9.84	7.56	1.97	.47	.98	.71
					250	192	50	12	25	18
	216	8.64	8	8.98	9.84	7.56	1.97	.47	.98	.71
175	219,1	8.76		228	270	218	50	12	25	18
					12.40	9.76	1.97	.47	.98	.87
	267	10.68	10	11.10	12.40	9.76	1.97	.47	.98	.87
200	273	10.92		332	370	302	50	12	25	22
					14.57	11.89	1.97	.47	.98	.87
	318	12.72	12	13.07	420	352	60	15	30	22
250	323,9	12.96		378	16.54	13.86	2.36	.59	1.18	.87
					420	352	60	15	30	22
	355,6	14.22	14	14.88	16.54	13.86	2.36	.59	1.18	.87
300	368	14.72		428	480	402	60	15	30	26
					18.90	15.83	2.36	.59	1.18	1.02
	406,4	16.26	16	16.85	480	402	60	15	30	26
350	419	16.76		530	18.90	15.83	2.36	.59	1.18	1.02
					540	452	60	15	30	26
	508	20.32	20	20.87	21.26	17.80	2.36	.59	1.18	1.02
400	521	20.84		582	540	452	60	15	30	26
					21.26	17.80	2.36	.59	1.18	1.02
	640	25.20	25	25.75	640	554	60	15	30	26
500	654	25.75		678	25.20	21.81	2.36	.59	1.18	1.02
					21.26	17.80	2.36	.59	1.18	1.02
	762	30.00	30	30.50	640	554	60	15	30	26
550	786	31.00		810	25.20	21.81	2.36	.59	1.18	1.02
					21.26	17.80	2.36	.59	1.18	1.02
	864	33.98	32	34.50	640	554	60	15	30	26
600	888	35.00		900	762	640	554	60	15	30
					640	554	60	15	30	26
	954	37.56	36	38.00	762	640	554	60	15	30
650	978	38.50		1000	864	762	640	554	60	15
					640	554	60	15	30	26
	1068	42.05	40	42.50	864	762	640	554	60	15
700	1092	43.00		1100	954	864	762	640	554	60
					640	554	60	15	30	26
	1182	46.54	44	47.00	954	864	762	640	554	60
750	1206	47.50		1200	1068	954	864	762	640	554
					640	554	60	15	30	26
	1272	50.12	48	50.50	1068	954	864	762	640	554
800	1296	51.00		1280	1182	1068	954	864	762	640
					640	554	60	15	30	26
	1382	54.41	50	54.87	1182	1068	954	864	762	640
850	1406	55.35		1380	1272	1182	1068	954	864	762
					640	554	60	15	30	26
	1472	58.35	52	58.75	1272	1182	1068	954	864	762
900	1496	59.30		1440	1296	1206	1068	954	864	762
					640	554	60	15	30	26
	1572	62.32	54	62.75	1296	1206	1068	954	864	762
950	1596	63.25		1560	1382	1272	1182	1068	954	864
					640	554	60	15	30	26
	1672	65.85	56	66.25	1382	1272	1182	1068	954	864
1000	1696	66.80		1600	1406	1296	1206	1068	954	864
					640	554	60	15	30	26
	1772	69.75	60	70.12	1406	1296	1206	1068	954	864
1050	1796	70.70		1680	1472	1382	1272	1182	1068	954
					640	554	60	15	30	26
	1872	73.68	62	74.00	1472	1382	1272	1182	1068	954
1100	1896	74.63		1740	1496	1406	1296	1206	1068	954
					640	554	60	15	30	26
	1972	77.60	64	77.87	1496	1406	1296	1206	1068	954
1150	1996	78.55		1800	1572	1472	1382	1272	1182	1068
					640	554	60	15	30	26
	2072	81.52	66	81.75	1572	1472	1382	1272	1182	1068
1200	2096	82.48		1860	1596	1496	1406	1296	1206	1068
					640	554	60	15	30	26
	2172	85.45	68	85.62	1596	1496	1406	1296	1206	1068
1250	2196	86.40		1920	1672	1572	1472	1382	1272	1182
					640	554	60	15	30	26
	2272	89.37	70	89.50	1672	1572	1472	1382	1272	1182
1300	2296	90.32		1980	1696	1596	1496	1406	1296	1206
					640	554	60	15	30	26
	2372	93.28	72	93.37	1696	1596	1496	1406	1296	1206
1350	2396	94.27		2040	1772	1672	1572	1472	1382	1272
					640	554	60	15	30	26
	2472	97.23	74	97.25	1772	1672	1572	1472	1382	1272
1400	2496	98.18		2100	1796	1696	1596	1496	1406	1296
					640	554	60	15	30	26
	2572	101.13	76	101.12	1796	1696	1596	1496	1406	1296
1450	2596	102.08		2160	1872	1772	1672	1572	1472	1382
					640	554	60	15	30	26
	2672	105.03	78	104.94	1872	1772	1672	1572	1472	1382
1500	2696	106.98		2220	1896	1796	1696	1596	1496	1406
					640	554	60	15	30	26
	2772	109.93	80	109.75	1896	1796	1696	1596	1496	1406
1550	2796	111.88		2280	1972	1872	1772	1672	1572	1472
					640	554	60	15	30	26
	2872	114.83	82	114.62	1972	1872	1772	1672	1572	1472
1600	2896	116.80		2340	1996	1896	1796	1696	1596	1496
					640	554	60	15	30	26
	2972	119.75	84	119.50	1996	1896	1796	1696	1596	1496
1650	2996	121.70		2400	2072	1972	1872	1772	1672	1572
					640	554	60	15	30	26
	3072	124.65	86	124.37	2072	1972	1872	1772	1672	1572
1700	3096	123.65		2460	2096	1996	1896	1796	1696	1596
					640	554	60	15	30	26
	3172	126.60	88	126.30	2096	1996	1896	1796	1696	1596
1750	3196	125.60		2520	2172	2072	1972	1872	1772	1672
					640	554	60	15	30	26
	3272	128.55	90	128.25	2172	2072	1972	1872	1772	1672
1800	3296	128.50		2580	2196	2096	1996	1896	1796	1696
					640	554	60	15	30	26
	3372	131.45	92	131.12	2196	2096	1996	1896	1796	1696
1850	3396	130.45		2640	2272	2172	2072	1972	1872	1772
					640	554	60	15	30	26
	3472	133.40	94	133.00	2272	2172	2072	1972	1872	1772
1900	3496	132.40		2700	2296	2196	2096	1996	1896	1796
					640	554	60	15	30	26
	3572	135.35	96	135.00	2296	2196	2096	1996	1896	1796
1950	3596	134.35		2760	2372	2272	2172	2072	1972	1872
					640	554	60	15	30	26
	3672	137.30	98	136.87	2372	2272	2172	2072	1972	1872
2000	3696	136.30		2820	2396	2296	2196	2096	1996	1896
					640	554	60	15	30	26
	3772	139.25	100	138.75	2396	2296	2196	2096	1996	1896
2050	3796	138.30		2880	2472	2372	2272	2172	2072	1872
					640	554	60	15	30	26
	3872	141.25	102	140.62	2472	2372	2272	2172	2072	1872
2100	3896	139.30		2940	2496	2396	2296	2196	2096	1896
					640	554	60	15	30	26
	3972	144.20	104	143.50	2496	2396	2296	2196	2096	1896
2150	3996									

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

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 Carbon Steel, zinc-plated, blue-chromated
	W1 W32
	Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)
	W5

only Plastic Pipe Saddle *RUL-*48.3-*PP

* Plastic Pipe Saddle (Long)	RUL
* Exact outside diameter Ø D1 (mm)	48.3
* Material of Pipe Saddle (see below)	PP

Standard Materials for Plastic Pipe Saddles

Polypropylene
Colour: Green
Material code: PP

Polyamide
Colour: Black
Material code: PA

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

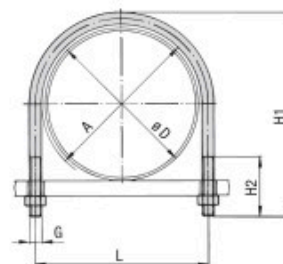
Alternative materials are available upon request. Please contact STAUFF for further information.

Applications

- Standing or hanging installation of pipes and tubes on beams, profiles and consoles
- Design with two threaded ends allows for ideal adaptation to suit the exact outer diameter of the pipe or tube



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.

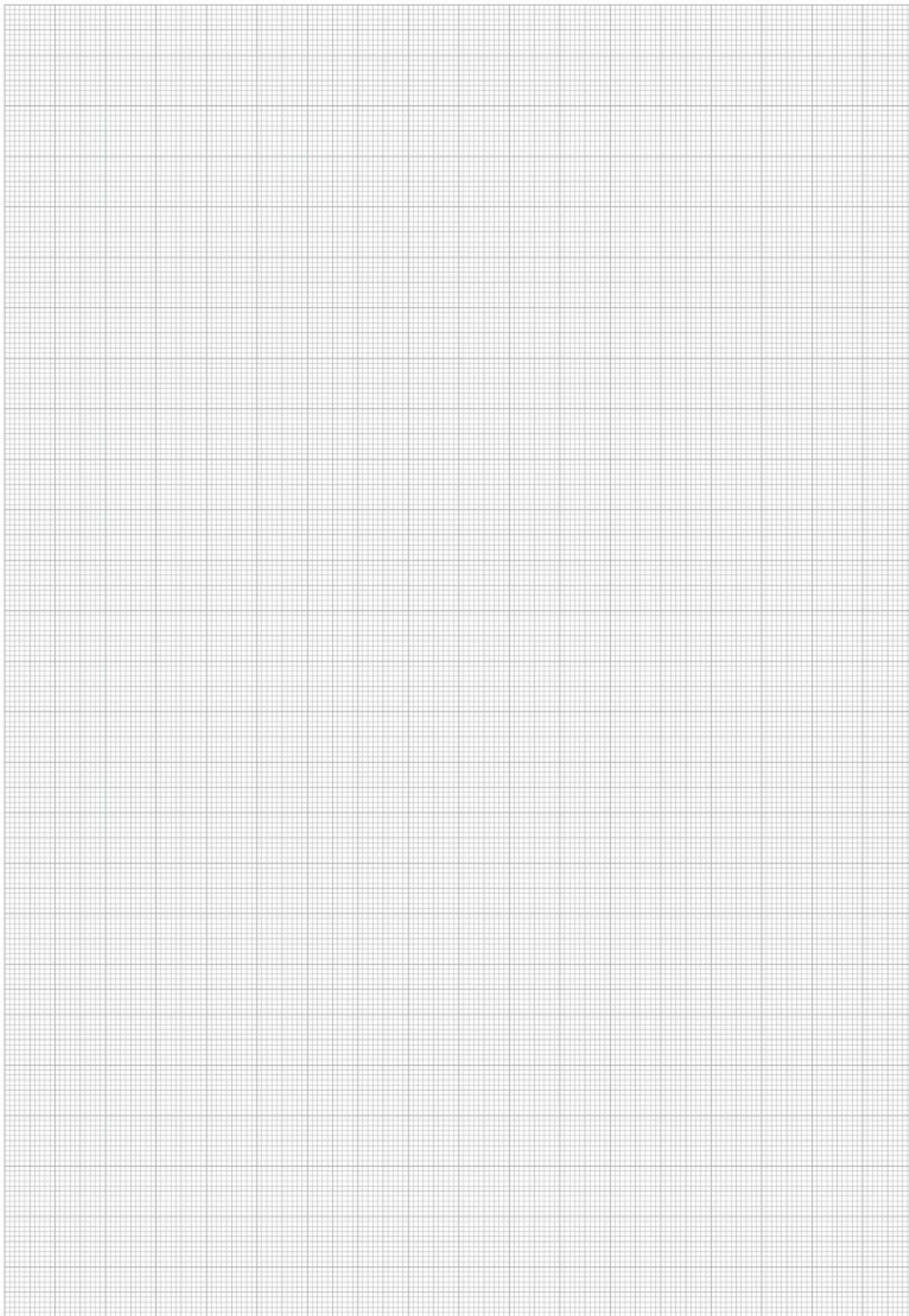
Applications

- 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	Outside Diameter Pipe / Tube Ø D1		Nominal Bore Pipe	Dimensions (""/in)				
DN	(mm)	(in)	(in)	Round Steel U-Bolt (Type RBD)				
				A	L	H1	H2	Thread G
20	25	.98		30	40	70	40	M10
	26,9	1.06	3/4	1.18	1.57	2.76	1.57	
				40	70	40		
25	30	1.18			1.57	2.76	1.57	M10
	33,7	1.33	1	1.50	48	76	40	M10
				1.89	2.99	1.57		
32	38	1.50			56	86	50	M10
	42,4	1.69	1-1/4	1.81	2.20	3.39	1.97	
				56	86	50		
40	44,5	1.76			2.20	3.39	1.97	M10
	48,3	1.90	1-1/2	2.05	62	92	50	M10
				2.44	3.62	1.97		
50	57	2.28			2.44	3.62	1.97	M10
	60,3	2.41	2	2.52	76	109	50	M12
				2.99	4.29	1.97		
65	76,1	3.04	2-1/2		76	109	50	M12
	80	3.56	3	82	94	125	50	M12
				3.23	3.70	4.92	1.97	
100	108	4.32			94	138	50	M12
	114,3	4.57	4	120	136	171	60	M16
				4.72	5.35	6.73	2.36	
125	133	5.32			5.35	6.73	2.36	M16
	139,7	5.59	5	148	164	191	60	M16
				5.83	6.46	7.52	2.36	
150	159	6.36			164	191	60	M16
	168,3	6.73	6	176	192	217	60	M16
				6.93	7.56	8.54	2.36	
175	193,7	7.75			192	217	60	M16
	200	8.64	8	202	218	249	60	M16
				7.96	8.58	9.80	2.36	
250	216	8.64			248	283	70	M20
	219,1	8.76	8	228	248	283	70	M20
				8.98	9.76	11.14	2.76	
300	267	10.68			9.76	11.14	2.76	M20
	273	10.92	10	282	303	334	70	M20
				11.10	11.93	13.15	2.76	
350	318	12.72			302	334	70	M20
	323,9	12.96	12	332	11.89	13.15	2.76	M20
				13.07	352	385	70	
400	355,6	14.22	14		13.86	15.16	2.76	M20
	368	14.72		378	352	385	70	M20
				14.88	13.86	15.16	2.76	
450	406,4	16.26	16		13.86	15.16	2.76	M20
	419	16.76		428	402	435	70	M24
				16.85	15.83	17.13	2.76	
500	508	20.32	20		452	487	70	M24
	521	20.84		530	452	487	70	M24
				20.87	17.80	19.17	2.76	

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









**Metal Pipe Clamp with Tension Clearance
Two-Bolt Design**
DIN 3567-A

160



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

161



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

162



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

163



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

164

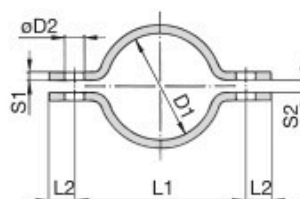


**Light Saddle with Tension Clearance
Two-Bolt Design**
DIN 1597

165



Metal Pipe Clamp with Tension Clearance (DIN 3567-A) Two-Bolt Design



Ordering Codes

Metal Pipe Clamp *DIN3567-A*-20*-W1

One metal pipe clamp is consisting of two clamp halves.
Hexagon head bolts and nuts are not included.

* Metal Pipe Clamp to DIN 3567, type A **DIN3567-A**

* STAUFF Group (Ø D1) **20**

* Material code Carbon Steel, uncoated **W1**

Carbon Steel, hot-dip galvanised **W40**

Stainless Steel V4A **W5**

1.4401 / 1.4571 (AISI 316 / 316 Ti)

Clamp Assembly *DIN3567-A*-20*-W1*-COMPL

One clamp assembly is consisting of two clamp halves,
two hexagon head bolts and two hexagon head nuts.

* Metal Pipe Clamp to DIN 3567, type A **DIN3567-A**

* STAUFF Group (Ø D1) **20**

* Material code Carbon Steel, uncoated **W1**

Carbon Steel, hot-dip galvanised **W40**

Stainless Steel V4A **W5**

1.4401 / 1.4571 (AISI 316 / 316 Ti)

* Clamp assembly with bolts and nuts **COMPL**

Please note: All items are supplied non-assembled.

Applications

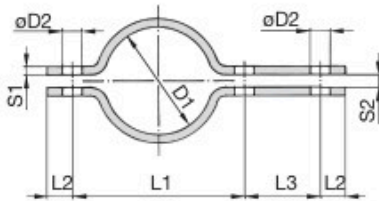
- Installation of pipes, tubes and other construction elements on beams, profiles and consoles

STAUFF Group	Nominal Size		Dimensions (""/mm)						Accessories
	Ø D1 (mm)	Pipe (in)	L1	L2	S1	S2	D2	B1	Hexagon Head Bolts (Hexagon Head Nuts)
20	15		57	15	5	7	11.5	30	M10 x 30 (M10)
			2.24	.59	.20	.28	.45	1.18	
22			59	15	5	7	11.5	30	
			2.32	.59	.20	.28	.45	1.18	
25	20		62	15	5	7	11.5	30	
			2.44	.59	.20	.28	.45	1.18	
27		3/4	66	15	5	7	11.5	30	
			2.60	.59	.20	.28	.45	1.18	
30	25		68	15	5	7	11.5	30	
			2.68	.59	.20	.28	.45	1.18	
34		1	72	15	5	7	11.5	30	3/8-16 UNC x 1-1/4 (3/8-16 UNC)
			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	M12 x 35 (M12)
			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	7/16-14 UNC x 1-3/8 (7/16-14 UNC)
			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	M16 x 45 (M16)
			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	5/8-11 UNC x 1-3/4 (5/8-11 UNC)
			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	M20 x 50 (M20)
			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	3/4-10 UNC x 2 (3/4-10 UNC)
			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	M24 x 60 (M24)
			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	7/8-9 UNC 2-3/8 (7/8-9 UNC)
			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	
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	
27			2.32	.59	1.81	.20	.28	.45	1.18	
30	25	1	62	15	46	5	7	11.5	30	
34			2.44	.59	1.81	.20	.28	.45	1.18	
38	32	1-1/4	66	15	46	5	7	11.5	30	
43			2.60	.59	1.81	.20	.28	.45	1.18	
45	40	1-1/2	68	15	46	5	7	11.5	30	
49			2.68	.59	1.81	.20	.28	.45	1.18	
57	50	2	72	15	46	5	7	11.5	30	
61			2.83	.59	1.81	.20	.28	.45	1.18	
77	65	2-1/2	76	15	46	5	7	11.5	30	M12 x 35 (M12) 7/16-14 UNC x 1-3/8 (7/16-14 UNC)
89	80	3	2.99	.59	1.81	.20	.28	.45	1.18	
108	100	4	82	15	46	5	7	11.5	30	
115			3.23	.59	1.81	.20	.28	.45	1.18	
133	125		84	15	46	5	7	11.5	30	
140			3.31	.59	1.81	.20	.28	.45	1.18	
159	150		88	15	46	5	7	11.5	30	
169			3.46	.59	1.81	.20	.28	.45	1.18	
194	175		104	18	54	6	9	14	40	
216	200		4.09	.71	2.13	.24	.35	.55	1.57	
220			108	18	54	6	9	14	40	M16 x 45 (M16) 5/8-11 UNC x 1-3/4 (5/8-11 UNC)
267	250		4.25	.71	2.13	.24	.35	.55	1.57	
273			122	18	54	6	9	14	40	
318	300		4.80	.71	2.13	.24	.35	.55	1.57	
324			136	18	54	6	9	14	40	
368	350		5.35	.71	2.13	.24	.35	.55	1.57	
407	400		172	24	70	8	11	18	50	
419			6.77	.94	2.76	.31	.43	.71	1.97	
521	500		178	24	70	8	11	18	50	
			7.01	.94	2.76	.31	.43	.71	1.97	
			196	24	70	8	11	18	50	M20 x 50 (M20) 3/4-10 UNC x 2 (3/4-10 UNC)
			7.72	.94	2.76	.31	.43	.71	1.97	
			204	24	70	8	11	18	50	
			8.03	.94	2.76	.31	.43	.71	1.97	
			222	24	70	8	11	18	50	
			8.74	.94	2.76	.31	.43	.71	1.97	
			232	24	70	8	11	18	50	
			9.13	.94	2.76	.31	.43	.71	1.97	
			258	24	70	8	11	18	50	
			10.16	.94	2.76	.31	.43	.71	1.97	
			280	24	70	8	11	18	50	
			11.02	.94	2.76	.31	.43	.71	1.97	
			284	24	70	8	11	18	50	M24 x 60 (M24) 7/8-9 UNC 2-3/8 (7/8-9 UNC)
			11.18	.94	2.76	.31	.43	.71	1.97	
			342	30	86	8	14	23	60	
			13.46	1.18	3.39	.31	.55	.91	2.36	
			348	30	86	8	14	23	60	
			13.70	1.18	3.39	.31	.55	.91	2.36	
			392	30	86	8	14	23	60	
			15.43	1.18	3.39	.31	.55	.91	2.36	
			398	30	86	8	14	23	60	
			15.67	1.18	3.39	.31	.55	.91	2.36	
			444	30	86	8	14	23	60	
			17.48	1.18	3.39	.31	.55	.91	2.36	
			498	36	104	10	18	27	70	
			19.61	1.42	4.09	.39	.71	1.06	2.76	
			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	

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

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.

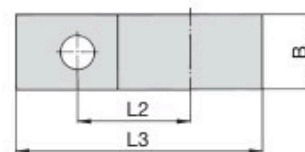
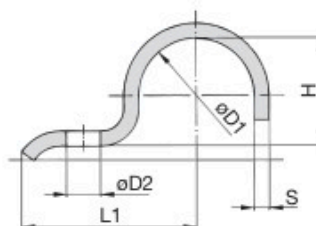
Applications

- Installation of pipes, tubes and other construction elements on beams, profiles and consoles



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

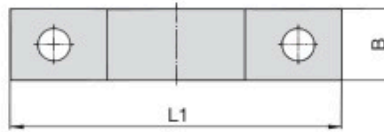
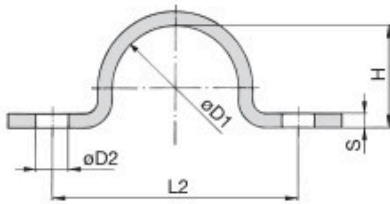
* Similar to DIN 1592.

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 1.73	28 1.10	5 .20	6,6 .26	16 .63	2 .08
9	7 ... 9	.2835		48 1.89	32 1.26	6 .24	6,6 .26	20 .79	2 .08
13	9,5 ... 13	.3951		52 2.05	36 1.42	9 .35	6,6 .26	20 .79	2 .08
15,5	13 ... 15,5	.5161		56 2.20	40 1.57	12 .47	6,6 .26	20 .79	2 .08
19	15,5 ... 19	.6175		60 2.36	44 1.73	15 .59	6,6 .26	20 .79	2 .08
23	20 ... 23	.7991		82 3.23	56 2.20	19 .75	11 .43	25 .98	3 .12
26	23 ... 26	.91 ... 1.02		84 3.31	58 2.28	22 .87	11 .43	25 .98	3 .12
28,5	26 ... 28,5	1.02 ... 1.12		90 3.54	64 2.52	24 .94	11 .43	25 .98	3 .12
31	28,5 ... 31	1.12 ... 1.22		90 3.54	64 2.52	27 1.06	11 .43	25 .98	3 .12
36	33 ... 36	1.30 ... 1.42		106 4.17	80 3.15	32 1.26	11 .43	30 1.18	5 .20
39	36 ... 39	1.42 ... 1.54		110 4.33	84 3.31	34 1.34	11 .43	30 1.18	5 .20
43	39 ... 43	1.54 ... 1.69		120 4.72	88 3.46	38 1.50	14 .55	30 1.18	5 .20
46	43 ... 46	1.69 ... 1.81		122 4.80	90 3.54	41 1.61	14 .55	30 1.18	5 .20
49	46 ... 49	1.81 ... 1.93		122 4.80	90 3.54	44 1.73	14 .55	30 1.18	5 .20
58	53 ... 58	2.09 ... 2.28		142 5.59	110 4.33	52 2.05	14 .55	40 1.57	5 .20
61	58 ... 61	2.28 ... 2.40		142 5.59	110 4.33	57 2.24	14 .55	40 1.57	5 .20
71	67 ... 71	2.64 ... 2.80		152 5.98	120 4.72	66 2.60	14 .55	40 1.57	5 .20
77	73 ... 77	2.87 ... 3.03		176 6.93	136 5.35	72 2.83	18 .71	40 1.57	5 .20
81	77 ... 81	3.03 ... 3.19		184 7.24	144 5.67	76 2.99	18 .71	40 1.57	5 .20
91	88 ... 91	3.39 ... 3.58		198 7.80	158 6.22	85 3.35	18 .71	40 1.57	8 .31
103	99 ... 103	3.90 ... 4.06		214 8.43	174 6.85	98 3.86	18 .71	40 1.57	8 .31
109	105 ... 109	4.13 ... 4.29		220 8.66	180 7.09	104 4.09	18 .71	40 1.57	8 .31
115	110 ... 115	4.33 ... 4.53		226 8.90	186 7.32	109 4.29	18 .71	40 1.57	8 .31

Ordering Codes

Heavy Saddle

*DIN1593-*7-*W66

* Heavy Saddle to DIN 1593	DIN1593
* STAUFF Group (Ø D1)	7
* Material code	Carbon Steel, uncoated
	Carbon Steel, zinc-plated and thick-film passivated
	Stainless Steel V4A
	1.4401 / 1.4571 (AISI 316 / 316 Ti)
	W1
	W66
	W5

Applications

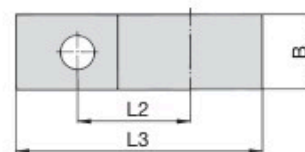
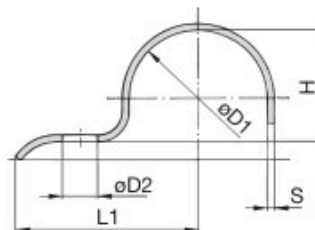
- Installation of pipes, tubes, poles and other round components directly on the substrate (floor, wall or ceiling)

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
Carbon Steel, zinc-plated
and thick-film passivated

W1

W66

Stainless Steel V4A

1.4401 / 1.4571 (AISI 316 / 316 Ti)

W5

Applications

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

STAUFF Group	Diameter Range		Dimensions (mm/in)						
Ø D1	(mm)	(in)	L1	L2	L3	H	D2	B	S
7	5,5 ... 7	.2228	26	14	31,5	5	6,6	16	2
			1.02	.55	1.24	.20	.26	.63	.08
9	7 ... 9	.2835	28	16	34,5	6	6,6	16	2
			1.10	.63	1.36	.24	.26	.63	.08
13	9,5 ... 13	.3951	30	18	38,5	9	6,6	20	2
			1.18	.71	1.52	.35	.26	.79	.08
15,5	13 ... 15,5	.5161	32	20	41,75	12	6,6	20	2
			1.26	.79	1.64	.47	.26	.79	.08
19	15,5 ... 19	.6175	34	22	45,5	15	6,6	20	2
			1.34	.87	1.79	.59	.26	.79	.08
23	20 ... 23	.7991	43	28	57,5	19	9	25	3
			1.69	1.10	2.26	.75	.35	.98	.12
26	23 ... 26	.91 ... 1.02	44	29	60	22	9	25	3
			1.73	1.14	2.36	.87	.35	.98	.12
28,5	26 ... 28,5	1.02 ... 1.12	47	32	64,25	24	9	25	3
			1.85	1.26	2.53	.94	.35	.98	.12
31	28,5 ... 31	1.12 ... 1.22	47	32	65,5	27	9	25	3
			1.85	1.26	2.58	1.06	.35	.98	.12
33 *	31 ... 33	1.22 ... 1.30	56	36	75,5	29	9	25	3
			2.20	1.42	2.97	1.14	.35	.98	.12
36	33 ... 36	1.30 ... 1.42	57	40	78	32	11	30	3
			2.24	1.57	3.07	1.26	.43	1.18	.12
39	36 ... 39	1.42 ... 1.54	59	42	81,5	34	11	30	3
			2.32	1.65	3.21	1.34	.43	1.18	.12
43	39 ... 43	1.54 ... 1.69	61	44	85,5	38	11	30	3
			2.40	1.73	3.37	1.50	.43	1.18	.12
46	43 ... 46	1.69 ... 1.81	62	45	88	41	11	30	3
			2.44	1.77	3.46	1.61	.43	1.18	.12
49	46 ... 49	1.81 ... 1.93	67	48	95,5	44	14	40	4
			2.64	1.89	3.76	1.73	.55	1.57	.16
52 *	49 ... 52	1.93 ... 2.05	72	53	102	47	14	40	4
			2.83	2.09	4.02	1.85	.55	1.57	.16
58	53 ... 58	2.09 ... 2.28	76	55	107	52	14	40	4
			2.99	2.17	4.21	2.05	.55	1.57	.16
61	58 ... 61	2.28 ... 2.40	77	58	111,5	56	14	40	4
			3.03	2.28	4.39	2.20	.55	1.57	.16

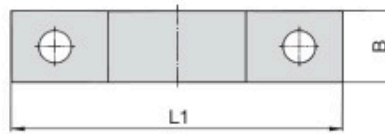
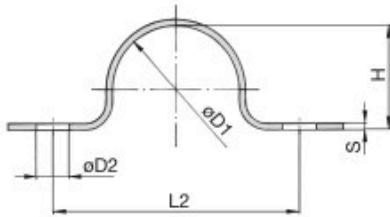
* Similar to DIN 1596.

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



Light Saddle with Tension Clearance (DIN 1597)

Two-Bolt Design



STAUFF Group	Diameter Range		Dimensions (mm/in)					
	Ø D1	(mm) (in)	L1	L2	H	D2	B	S
7	5,5 ... 7	.2228	44	28	5	5,5	16	1,5
			1.73	1.10	.20	.22	.63	.06
9	7 ... 9	.2835	48	32	6	5,5	16	1,5
			1.89	1.26	.24	.22	.63	.06
13	9,5 ... 13	.3951	52	36	9	5,5	16	1,5
			2.06	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 1.4401 / 1.4571 (AISI 316 / 316 Ti) W5

Applications

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

* Similar to DIN 1597.

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







Construction Series

KS / DKS

168



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

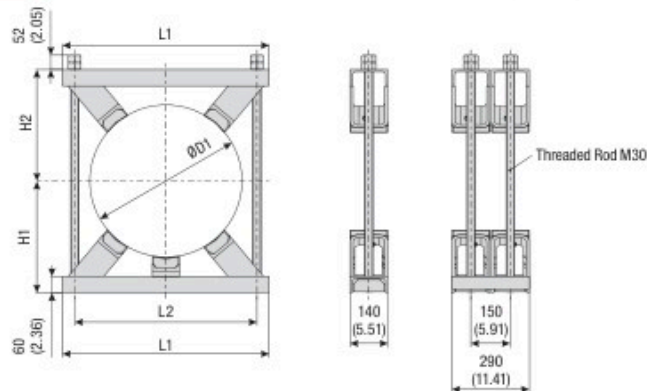
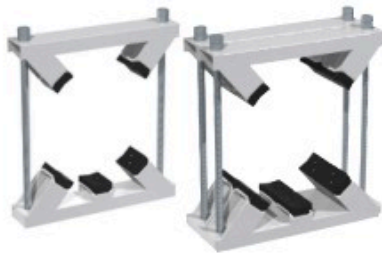
KSV / DKSV

169



Construction Series

Types KS (Single Version) / DKS (Double Version)



Ordering Codes

Construction Series *KS-*220-*PA-*W8

* Version Single version **KS**
 Double version **DKS**

* Exact outside diameter ØD1 (mm) **220**

* Material of Plastic Pads (see below) **PA**

* Material Code Steel, prime coated (grey, RAL 7035) **W8**

Please note: All items are supplied non-assembled.

Standard Materials for Plastic Pads



Polyamide

Colour: Black

Material Code: **PA**

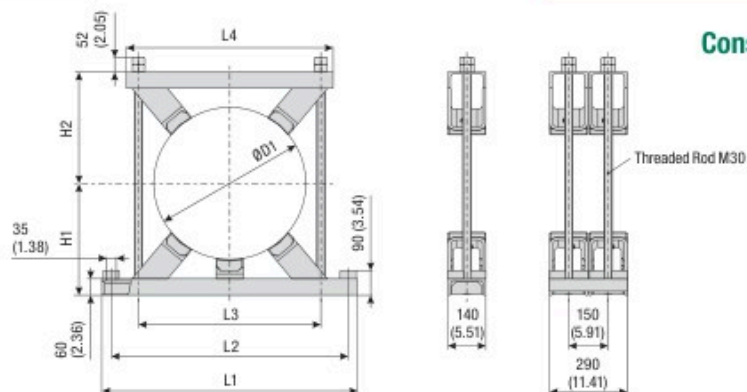
See pages 178 / 179 for material properties and technical information.

Outside Diameter ØD1 Pipe / Tube Diameter Range		Standard Diameters		Dimensions (mm/in)				No. of Plastic Pads
(mm)	(in)	(mm)	(in)	L1	L2	H1	H2	
220 ... 275	8.66 ... 10.85	220	8.66	420 16.54	330 12.99	220 8.66	220 8.66	4
		247	9.72					
		267	10.51					
		273	10.75					
		280	11.02					
276 ... 325	10.87 ... 12.80	300	11.81	460 18.11	370 14.57	240 9.45	240 9.45	4
		318	12.52					
		323,9	12.75					
326 ... 370	12.83 ... 14.57	355,6	14.00	510 20.08	420 16.53	260 10.23	260 10.23	4
		368	14.49					
371 ... 425	14.61 ... 16.73	390	15.35	570 22.44	480 18.89	290 11.42	290 11.42	4
		406,4	16.00					
426 ... 485	16.77 ... 19.09	457,2	18.00	620 24.41	530 20.87	305 12.01	305 12.01	4
		470	18.50					
486 ... 550	19.13 ... 21.65	490	19.29	680 26.77	590 23.23	370 14.57	370 14.57	4
		508	20.00					
		521	20.51					
		546	21.50					
551 ... 630	21.69 ... 24.80	558,8	22.00	760 29.92	670 26.38	410 16.14	410 16.14	5
		609,6	24.00					
631 ... 715	24.84 ... 28.15	711	28.00	845 33.27	755 29.72	452 17.80	452 17.80	5
716 ... 800	28.19 ... 31.50	762	30.00	940 37.00	850 33.46	495 19.49	495 19.49	5
		813	32.00	990 38.97	900 35.43	500 19.69	500 19.69	5
		1000	39.37	1200 47.24	1100 43.30	591,5 23.29	593 23.34	5
		1016	40.00	1200 47.24	1100 43.30	602 23.70	602 23.70	5

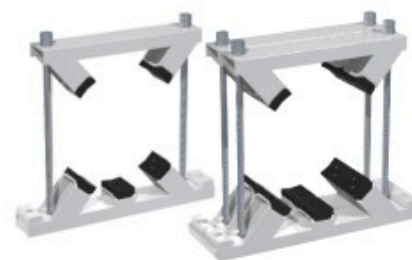
Alternative outside diameters, materials and surface finishings are available upon request. Contact STAUFF for further information.

Dimensional drawings: All dimensions in mm (in).





Construction Series for Anchor Bolt Fastening Types KSV (Single) / DKSV (Double)



Outside Diameter ØD1 Pipe / Tube Diameter Range		Standard Diameters		Dimensions (mm/in)						No. of Plastic Pads
(mm)	(in)	(mm)	(in)	L1	L2	L3	L4	H1	H2	
220 ... 275	8.66 ... 10.85	220	8.66	580 22.83	490 19.29	330 12.99	420 16.54	220 8.66	220 8.66	4
		247	9.72							
		267	10.51							
		273	10.75							
		280	11.02							
276 ... 325	10.87 ... 12.80	300	11.81	620 24.41	530 20.87	370 14.57	460 18.11	240 9.45	240 9.45	4
		318	12.52							
		323,9	12.75							
326 ... 370	12.83 ... 14.57	355,6	14.00	670 26.38	580 22.83	420 16.53	510 20.08	260 10.23	260 10.23	4
		368	14.49							
371 ... 425	14.61 ... 16.73	390	15.35	750 29.53	640 25.20	480 18.89	570 22.44	290 11.42	290 11.42	4
		406,4	16.00							
426 ... 485	16.77 ... 19.09	457,2	18.00	800 31.50	730 28.74	530 20.87	620 24.41	305 12.01	305 12.01	4
		470	18.50							
486 ... 550	19.13 ... 21.65	490	19.29	860 33.86	790 31.10	590 23.23	680 26.77	370 14.57	370 14.57	4
		508	20.00							
		521	20.51							
		546	21.50							
551 ... 630	21.69 ... 24.80	558,8	22.00	940 37.00	870 34.25	670 26.38	760 29.92	410 16.14	410 16.14	5
		609,6	24.00							
631 ... 715	24.84 ... 28.15	711	28.00	1025 40.31	955 37.60	755 29.72	845 33.27	452 17.80	452 17.80	5
716 ... 800	28.19 ... 31.50	762	30.00	1120 44.09	1050 41.33	850 33.46	940 37.00	495 19.49	495 19.49	5
		813	32.00	1170 46.06	1100 43.30	900 35.43	990 38.97	500 19.69	500 19.69	5
		1000	39.37	1400 55.12	1300 51.18	1100 43.30	1200 47.24	591,5 23.29	593 23.34	5
		1016	40.00	1400 55.12	1300 51.18	1100 43.30	1200 47.24	602 23.70	602 23.70	5

Ordering Codes

Construction Series *KSV-*220-*PA-*W8

* Version Single version KSV
 Double version DKSV

* Exact outside diameter ØD1 (mm) 220

* Material of Plastic Pads (see below) PA

* Material Code Steel, prime coated (grey, RAL 7035) W8

Please note: All items are supplied non-assembled.

Standard Materials for Plastic Pads

Polyamide
Colour: Black
Material Code: **PA**

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

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

Dimensional drawings: All dimensions in mm (in).






Cushion Clamp Series

STC / SPC

172


Channel Rail

SCS

173


Compact Twin Series

DS

174


Agriculture Twin Series

AG

174


Pipe / Tube Bushing

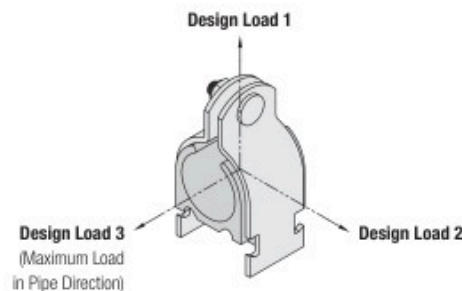
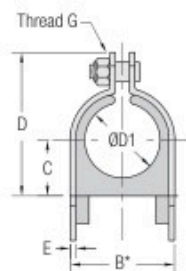
RF

175



Clamp Assembly • Types STC / SPC

(for Use with Channel Rail SCS)



Outside Diameter Pipe / Tube / Hose Ø D1 (mm) (in)	Nominal Bore Pipe (in)	Ordering Codes (1 Clamp Assembly) (*** = Material Code)	Standard Packaging Units pcs.	Dimensions (mm/in)						Design Loads (kg/oz)		
				B*	C	D	E	Thread G		1	2	3
6,4	1/4	STC-025-***-K	24 / box	15,7 .62	5,6 .22	28,2 1.11	2 .08	1/4-20 UNC		1,78 400	0,22 50	0,22 50
8	3/8	STC-037-***-K	24 / box	19,1 .75	7,1 .28	31,5 1.24	2 .08	1/4-20 UNC		1,78 400	0,22 50	0,22 50
12,7	1/2	STC-050-***-K	24 / box	22,1 .87	8,6 .34	34,5 1.36	2 .08	1/4-20 UNC		1,78 400	0,22 50	0,22 50
13,5	1/4	SPC-025-***-K	24 / box	23,1 .91	9,1 .36	35,8 1.41	2 .08	1/4-20 UNC		1,78 400	0,22 50	0,22 50
16	5/8	STC-062-***-K	24 / box	25,4 1.00	10,4 .41	38,1 1.50	2 .08	1/4-20 UNC		1,78 400	0,22 50	0,22 50
17,2	3/8	SPC-037-***-K	24 / box	27,2 1.07	11,4 .45	40,4 1.59	2 .08	1/4-20 UNC		2,67 600	0,33 75	0,33 75
19	3/4	STC-075-***-K	24 / box	33,8 1.33	13,5 .53	45,2 1.78	2 .08	1/4-20 UNC		2,67 600	0,33 75	0,33 75
21,3	1/2	SPC-050-***-K	24 / box	36,8 1.45	15,0 .59	48,5 1.91	2 .08	1/4-20 UNC		2,67 600	0,33 75	0,33 75
22,2	7/8	STC-087-***-K	24 / box	36,8 1.45	14,7 .58	48,5 1.91	2 .08	1/4-20 UNC		2,67 600	0,33 75	0,33 75
25,4	1	STC-100-***-K	12 / box	42,2 1.66	16,8 .66	51,6 2.03	2,8 .11	1/4-20 UNC		2,67 600	0,33 75	0,33 75
26,9	3/4	SPC-075-***-K	12 / box	45,5 1.79	18,3 .72	54,9 2.16	2,8 .11	1/4-20 UNC		2,67 600	0,33 75	0,33 75
32	1-1/4	STC-125-***-K	12 / box	48,8 1.92	19,8 .78	58,4 2.30	2,8 .11	1/4-20 UNC		2,67 600	0,33 75	0,33 75
33,7	1	SPC-100-***-K	12 / box	56,4 2.22	23,1 .91	69,9 2.75	3 .12	5/16-18 UNC		2,67 600	0,33 75	0,33 75
38	1-1/2	STC-150-***-K	12 / box	56,4 2.22	23,1 .91	69,9 2.75	3 .12	5/16-18 UNC		2,67 600	0,33 75	0,33 75
42	1-1/4	SPC-125-***-K	12 / box	62,7 2.47	26,2 1.03	77,0 3.03	3 .12	5/16-18 UNC		3,56 800	0,56 125	0,56 125
48,3	1-1/2	SPC-150-***-K	12 / box	62,7 2.47	29,5 1.16	83,3 3.28	3 .12	5/16-18 UNC		3,56 800	0,56 125	0,56 125
50,8	2	STC-200-***-K	12 / box	69,1 2.72	29,5 1.16	83,3 3.28	3 .12	5/16-18 UNC		3,56 800	0,56 125	0,56 125
60,3	2	SPC-200-***-K	1 / bag	69,1 3.22	35,8 1.41	96,0 3.78	3 .12	5/16-18 UNC		3,56 800	0,56 125	0,56 125
63,5	2-1/2	STC-250-***-K	1 / bag	88,1 3.47	38,9 1.53	102,4 4.03	3 .12	5/16-18 UNC		3,56 800	0,56 125	0,56 125
66,7	2-5/8	STC-262-***-K	1 / bag	88,1 3.47	38,9 1.53	102,4 4.03	3 .12	5/16-18 UNC		3,56 800	0,56 125	0,56 125
73	2-1/2	SPC-250-***-K	1 / bag	94,5 3.72	42,2 1.66	108,5 4.27	3 .12	5/16-18 UNC		3,56 800	0,56 125	0,56 125
76,2	3	STC-300-***-K	1 / bag	100,8 3.97	45,2 1.78	114,8 4.52	3 .12	5/16-18 UNC		4,45 1 000	0,89 200	0,67 150
88,9	3	SPC-300-***-K	1 / bag	110,7 4.36	50,0 1.97	124,7 4.91	3 .12	3/8-16 UNC		4,45 1 000	0,89 200	0,67 150
102	3-1/2	SPC-350-***-K	1 / bag	126,2 4.97	57,9 2.28	140,5 5.53	3 .12	3/8-16 UNC		4,45 1 000	0,89 200	0,67 150
114	4	SPC-400-***-K	1 / bag	138,9 5.47	64,3 2.53	153,2 6.03	3 .12	3/8-16 UNC		4,45 1 000	0,89 200	0,67 150
140	5	SPC-500-***-K	1 / bag	164,3 6.47	77,0 3.03	178,6 7.03	3,6 .14	3/8-16 UNC		4,45 1 000	0,89 200	0,67 150
168	6	SPC-600-***-K	1 / bag	189,7 7.47	89,7 3.53	204,0 8.03	3,6 .14	3/8-16 UNC		4,45 1 000	0,89 200	0,67 150

* 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.

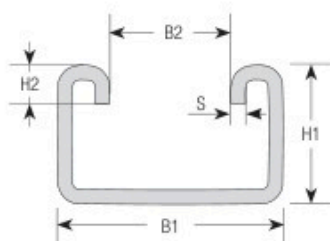
Product Features

- 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)	STC
	SPC (Pipe diameters)	SPC
* Pipe / Tube O.D. (according to dimension table)		125
* Material code	Carbon Steel, zinc-plated, blue-chromated	W32
	Stainless Steel V2A	W4
	1.4301 (AISI 304)	W4
	Stainless Steel V4A	W5
	1.4401 (AISI 316)	W5
Assembling	Components packed in kits	K

Channel Rail ■ Type SCS



Dimensions (mm/in)				
B1	B2	H1	H2	S
41,3	22,2	25,4	7	2,7
1.63 (1-5/8)	.88 (7/8)	1.00	.28	.11

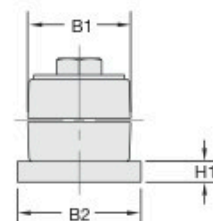
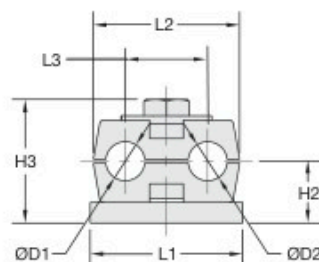
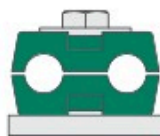
Alternative rail profiles, materials and surface finishings are available upon request. Contact STAUFF for further information.

Ordering Codes

Strut Channel	*SCS-*048-*1-*PL	
* Strut Channel		SCS
* Length of Rail	1,22 m / 4.00 ft / 48 in	048
	3,05 m / 10.00 ft / 120 in	120
* Height of Rail	25,4 mm / 1.00 in	1
* Material code	Carbon Steel, uncoated	PL



Compact Twin Series: Clamp Body Type DS



Ordering Codes

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

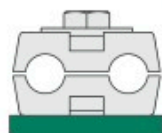
One clamp body is consisting of two clamp halves.

* 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 Copper Tube ASTM B88		Ordering Codes (2 Clamp Halves)	Dimensions (mm/in)							
STAUFF	(mm)	(in)	Pipe (in)	(in)		L1	L2	L3	H1	H2	H3	B1	B2
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								

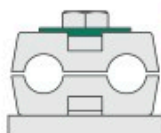
Additional outside diameters are available upon request. Please contact STAUFF for further information.

Compact Twin Series: Metal Hardware



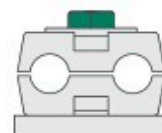
Weld Plate, Type SP-DS

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

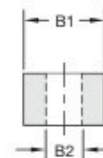
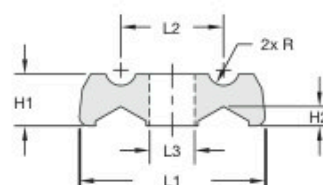
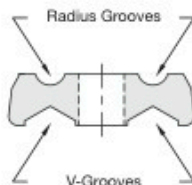


Hexagon Bolt, Type AS

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)						
STAUFF	Radius Grooves (mm)	(in)	V-Grooves (mm)	(in)		L1	L2	L3	H1	H2	B1	B2
2	3 ... 10	.1239	4 ... 15	.2659	215.8/09.6-PP-AG-BK-HV	57.5	31.7	14.0	16.0	7.1	25.0	11.0
						2.26	1.25	.55	.63	.24	.98	.43
3	4 ... 25	.1698	7 ... 20	.2879	324.8/19.5-PP-AG-BK-HV	62.0	34.5	14.0	19.0	7.1	32.0	11.0
						2.48	1.36	.55	.75	.28	1.26	.43

Standard Material



Polypropylene
Colour: Black

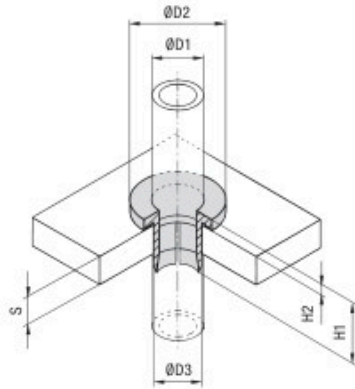
See pages 178 / 179 for properties and technical information.

Product Features

- Flip the clamp body to choose between the radius grooved or the v-grooved design (suitable for a range of diameters)
- Use M10 or 3/8–16 UNC bolts or screws (preferably with washers) to fasten clamp bodies directly to the machine
- Clamp bodies can be stacked for multi-level assembly

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





Pipe / Tube Bushing • Type SRF



Outside Diameter ØD1		Nominal Bore	Dimensions			Wall Thickness	Mounting Bore
(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
25	1		38	22	4	4 ... 12	30
			1.50	.87	.16	.1647	1.18
28		1 Copper Tube (ASTM B88)	41	22	4	4 ... 12	33
			1.61	.87	.16	.1647	1.30
30			43	22	4	4 ... 12	34
			1.69	.87	.16	.1647	1.39
35		1-1/4 Copper Tube (ASTM B88)	48	22	4	4 ... 12	40
			1.89	.87	.16	.1647	1.57
38	1-1/2		51	22	4	4 ... 12	43
			2.01	.87	.16	.1647	1.70
42		1-1/4 Pipe 1-1/2 Copper Tube (ASTM B88)	55	22	4	4 ... 12	47
			2.17	.87	.16	.1647	1.85

Ordering Codes

Pipe / Tube Bushing

***SRF-*20-*PP**

* Pipe / Tube Bushing	SRF
* Exact outside diameter Ø D1 (mm)	20
* Material code (see below)	PP

Standard Materials



Polypropylene
Colour: Natural colour
Material code: **PP**



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

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

Product Features

- Designed to centre the pipe or tube in a through-hole (e.g. for return lines entering the hydraulic reservoir)
- Vibration and noise absorbing element
- Available for all commonly used Metric and imperial pipe and tube diameters from 6 ... 42 mm and 1/4 ... 1-1/2 in
- Easy plug-in installation

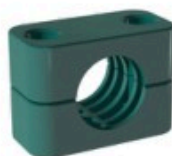




Standard Clamp Body Materials	178
Standard Elastomer Insert Materials	179
Special Clamp Body Materials	180
Standard Clamp Body Designs	182
Materials and Surface Finishings of Metal Parts	183
Property Classes / Grades of Bolts and Screws	183
Thread Conversion Chart	183
General Installation Instructions	184
Tightening Torques / Maximum Loads in Pipe Direction	185
Dimensions and Weights of Clamp Assemblies	186
Packaging Units (Selection)	187



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) Alternative hardnesses are available upon request! Contact STAUFF for details.
Thermal Properties				
Temperature Resistance (Min ... Max)	-30 °C ... +90 °C / -22 °F ... +194 °F	-40 °C ... +120 °C / -40 °F ... +248 °F (Brief exposure up to +140 °C / +284 °F)	up to +300 °C / up to +572 °F	-40 °C ... +125 °C / -40 °F ... +257 °F
Chemical Properties				
Weak Acids	conditionally consistent	conditionally consistent	conditionally consistent	consistent
Solvents	conditionally consistent	conditionally consistent	conditionally consistent	conditionally consistent
Benzine	conditionally consistent	consistent	consistent	conditionally consistent
Mineral Oils	conditionally consistent	consistent	consistent	conditionally consistent
Other Oils	consistent	consistent	consistent	consistent
Alcohols	consistent	consistent	consistent	consistent
Seawater	consistent	consistent	consistent	consistent



Special Clamp Body Materials

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

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

The information for the Polyamide material PA have been determined in a conditioned state according to ISO 1110.

For Aluminium, the tensile strength (under reversed bending stress) and impact bending strength both rise constantly at decreasing temperatures whilst the value for breaking elongation decreases.

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



Standard Clamp Insert Materials



STAUFF Group 4 and 6 (Standard Series)
STAUFF Group 4S to 7S (Heavy Series)



STAUFF Group 8S to 10S (Heavy Series)

SA		EPDM		Material Code
Thermoplastic Elastomer		Ethylene Propylene Diene Monomer		Basic Material
Black		Black		Standard Colour
				Mechanical Properties
16 N/mm² at +23 °C / +73.4 °F (ASTM D412)				Tensile E-Module
				Notch Impact Strength
				Low Temperature Notch Impact Strength
8,3 MPa (ASTM D412)		9,0 MPa (DIN 53504)		Tensile Strength at Yield (Tensile Strength)
				Ball Indentation Hardness (Brinell Hardness)
73 A (ISO 868)	Alternative hardnesses are available upon request! Contact STAUFF for details.	70 A (DIN 53505)	Alternative hardnesses are available upon request! Contact STAUFF for details.	Shore Hardness
				Thermal Properties
-40 °C ... +125 °C/ -40 °F ... +257 °F		-50 °C ... +120 °C/ -58 °F ... +248 °F		Temperature Resistance (Min ... Max)
				Chemical Properties
consistent		consistent		Weak Acids
conditionally consistent		consistent		Solvents
conditionally consistent		conditionally consistent		Benzine
conditionally consistent		conditionally consistent		Mineral Oils
consistent		conditionally consistent		Other Oils
consistent		consistent		Alcohols
consistent		consistent		Seawater

0



Special Clamp Insert Materials

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

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

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



Special Clamp Body Materials (Selection)

Preventive Fire Protection



Material Code	PA-V0	PP-DA	PA-GF30-USR
Basic Material	Polyamide	Polypropylene	Polyamide
Standard Colour	Black (PA-V0-BK)	White	Black
Mechanical Properties			
Tensile E-Module	1500 MPa (ISO 527-2)	1614 N/mm ² (ISO 527) at +23 °C / +73.4 °F: 50 mm/min	8274 MPa (ASTM D638)
Notch Impact Strength	35 kJ/m ² at +23 °C / +73.4 °F (acc. to Charpy / ISO 179 / 1eJ)	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	Tested and approved acc. to UL94 ¹ (material thickness: 3 mm) - Classification: V-0 (Vertical Burning Test) Tested and approved acc. to EN 45545-2 (material thickness: 3,5 mm) - Requirements set R22 / R23 / R24 / R26 - Hazard level HL1 - HL3 Tested and approved acc. to DIN 5510, Part 2 (material thickness: 3 mm) - Combustibility classification: S4 - Smoke development classification: SR2 - Dripping classification: ST2 Tested and approved acc. to NF F 16-101 (material thickness: 3 mm) - Classification: I3 / F2 Low Smoke Zero Halogen (LSZH)	Tested and approved acc. to UL94 ¹ (material thickness: 3 mm) - Classification: V-0 (Vertical Burning Test) Tested and approved acc. to Def Stan 07-247 - Assessment: category B Approved by the UK Ministry of Defence (MoD) Low Smoke Zero Halogen (LSZH)	Tested and approved acc. to ASTM D638 (material thickness: 1,5 mm) - Classification: V-0 (Vertical Burning Test) Tested and approved acc. to NFPA 130 (material thickness: 3 mm) - no burning dripping Halogen Free Flame Retardant (HFFR)

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		PP-EC-BK	Material Code
Polypropylene	Polypropylene	Thermoplastic Elastomer		Polypropylene	Basic Material
White	Black	Natural		Black	Standard Colour
					Mechanical Properties
1264 MPa (ICE 60811-1-1)			113 N/mm ² at +23 °C / +73.4 °F (ASTM D412)		Tensile E-Module
17 kJ/m ² at +23 °C / +73.4 °F (acc. to IZOD / ISO 179 / 1eA)	5 kJ/m ² at +23 °C / +73.4 °F (acc. to ISO 180/A)			24 kJ/m ² bei +23 °C / +73.4 °F (ISO 179 / 1eA)	Notch Impact Strength
				10 kJ/m ² bei -20 °C / -28.9 °F (ISO 179 / 1eA)	Low Temperature Notch Impact Strength
25 MPa (ICE 60811-1-1)	24 MPa (ISO 527)	15,9 MPa (ASTM D412)		26 MPa (ISO 527-2)	Tensile Strength at Yield (Tensile Strength)
					Ball Indentation Hardness (Brinell Hardness)
		86 A (ISO 868)	Alternative hardnesses are available upon request!		Shore Hardness
					Thermal Properties
-25 °C ... +90 °C / -13 °F ... +194 °F	-25 °C ... +90 °C / -13 °F ... +194 °F	-55 °C ... +90 °C / -67 °F ... +194 °F			
					Temperature Resistance (Min ... Max)
					Features
Tested and approved acc. to EN 45545-2 (material thickness: 3 mm) ▪ Requirements set R22 / R23 / R24 / R26 ▪ Hazard level HL1 - HL3 Tested and approved acc. to BS 6853 (Code of practice for fire precautions in the design/construction of passenger carrying trains) ▪ Assessment: category 1a Compliant to the requirements of London Underground / Metronet (standard 2-01001-002: Fire Safety Performance of Materials) Tested and approved acc. to DIN 5510, Part 2 (material thickness: 25 mm) ▪ Combustibility classification: S4 ▪ Smoke development classification: SR2 ▪ Dripping classification: ST2 Tested and approved acc. to Def Stan 07-247 ▪ Assessment: category B Compliant to the requirements of JRMA (Japan Railway Rollingstock & Machinery Association) ▪ Classification: extremely incom- bustible Low Smoke Zero Halogen (LSZH)	Tested and approved acc. to UL94 ¹ (material thickness: 3 mm) ▪ Classification: V-0 (Vertical Burning Test)	Tested and approved acc. to UL94 ¹ (material thickness: 3 mm) ▪ Classification: V-0 (Vertical Burning Test)			
					Approvals / Properties

¹ Successful testing and approval according to UL94 (classification V-0) is equivalent to EN 45545-2 (requirements set R26; hazard level HL3).

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



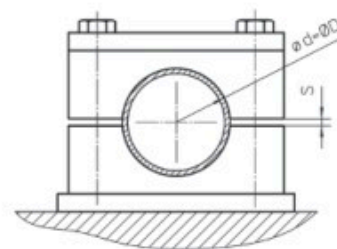
Standard Clamp Body Designs



Profiled Design

Profiled Inside Surface with Tension Clearance

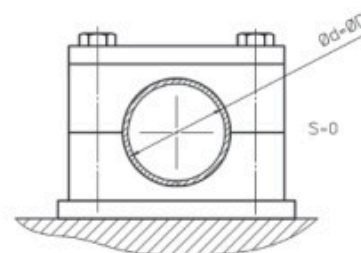
- Available in the Standard, Heavy, Twin and Heavy Twin Series
- Recommended for the safe installation of rigid pipes or tubes
- Available for all commonly used outside diameters and nominal sizes
- Vibration/noise reducing and impact absorbing effect towards the direction of the line provided by the grooves on the inside of the clamp bodies
- Clearance S between the clamp halves provides tension of the tube or pipe
- To be used as fixed point clamp preventing the line from sliding (see page 161 for Maximum Loads in Pipe Direction)



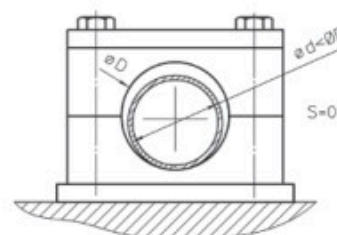
Type H (Smooth)

Smooth Inside Surface w/o Tension Clearance

- Available in the Standard, Heavy and Twin Series
- Recommended for the safe installation of hoses or cables
- Available for all commonly used outside diameters and nominal sizes
- Smooth inside surface and chamfered edges avoid damaging of the hose or cable

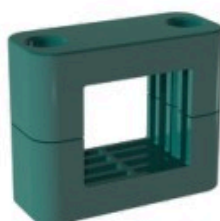


- Choose the diameter $\varnothing D$ of the clamp body slightly larger (in accordance to your specific requirements) than the outside diameter $\varnothing d$ of the pipe, tube, hose or cable in order to use it as a longitudinal guide allowing the line to slide



Type RI (with Elastomer Insert)

- Available in the Standard, Heavy and Heavy Twin Series
- Recommended for the extra-gentle installation of pipes, tubes, hoses or cables
- Available for all commonly used outside diameters and nominal sizes
- Elastomer insert made of Thermoplastic Elastomer with a hardness of 73 Shore-A provides most effective reduction of vibration and noise caused by vibration



Rectangular Design - Type VK

- Available in the Standard Series (STAUFF Group 5)
- Recommended for the safe installation of proximity switches according to DIN EN 60947-5-2 or similar, rectangular construction, with a square of 40 mm x 40 mm (1.57 in x 1.57 in) or 40 mm x 36 mm (1.57 in x 1.42 in)



Materials and Surface Finishings of Metal Parts

Materials

Unless otherwise stated, all metal parts (e.g. weld plates, cover plates, bolts, rail nuts etc.) are made of **Carbon Steel** (surface finishing according to material code).

Besides that, all metal parts are also available **ex stock** in two different stainless steel qualities:

Stainless Steel V2A

- 1.4301 / 1.4305 (AISI 304 / 303)
- Material code: W4



Stainless Steel V4A

- 1.4401 / 1.4571 (AISI 316 / 316 Ti)
- Material code: W5

Aluminium

- Aluminium EN AW-6060
- Material code: W85

Alternative materials (e.g. Aluminium) are available upon request. Contact STAUFF for further information.

Surface Finishings

Unless otherwise stated, all metal parts made of Carbon Steel are available with the following standard surface finishings:

Carbon Steel, uncoated

- Material code: W1

Carbon Steel, phosphated

- Fe/Znph r 10 according to DIN EN 12476
- Material code: W2

Carbon Steel, zinc/nickel-plated

- More than 1200 hours resistance against red rust / base metal corrosion in the salt spray test to DIN EN ISO 9227
- Free of hexavalent chromium Cr(VI)
- RoHS compliant according to 2002/95/EC (Restrictions of the Use of Hazardous Substances)
- ELV compliant according to 2000/53/EC (End of Life Vehicles Directive)
- Material code: W3

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



Original STAUFF Cover Plate with Zinc/Nickel-Coating:
No signs of corrosion after 1200 hours in the salt spray chamber!



Original STAUFF Cover Plates with alternative surface finishings widely-used by competitors in the market (from left to right):

- Galvanisation and blue-chromating after 96 hours
- Galvanisation and yellow-chromating after 192 hours
- Zinc-coating, thick-film passivation and sealing after 192 hours

In all three cases, signs of white and red rust / base metal corrosion are quite clearly visible! Please do not hesitate to contact STAUFF and ask for a detailed report.

Thread Conversion Chart

Metric ISO vs. Unified Coarse (UNC) Thread

Unless otherwise stated, all threaded parts available with Metric ISO thread or unified coarse (UNC) thread.

Standard Series (DIN 3015, Part 1)

Group STAUFF	DIN	Thread Metric ISO	Unified Coarse
1 to 8	0 to 8	M6	1/4-20 UNC

Heavy Series (DIN 3015, Part 2)

Group STAUFF	DIN	Thread Metric ISO	Unified Coarse
3S to 5S	1 to 3	M10	3/8-16 UNC
6S	4	M12	7/16-14 UNC
7S	5	M16	5/8-11 UNC
8S	6	M20	3/4-10 UNC
9S	7	M24	7/8-9 UNC
10S	8	M30	1-1/8-7 UNC
11S to 12S	9 to 10	M30	1-1/4-7 UNC

Twin Series (DIN 3015, Part 3)

Group STAUFF	DIN	Thread Metric ISO	Unified Coarse
1D	1	M6	1/4-20 UNC
2D to 5D	2 to 5	M8	5/16-18 UNC

Property Classes / Grades of Bolts and Screws



Hexagon Head Bolt



Socket Cap Screw



Slotted Head Screw

Bolt / Screw Type	Material Code	Property Class / Grade Metric ISO Threaded Bolts / Screws	Unified Coarse Threaded Bolts / Screws
Hexagon Head Bolt Type AS	W1, W2, W3	8.8 (according to DIN EN ISO 898)	5 (according to SAE J429)
	W4	A2-70 (according to DIN EN ISO 3506)	AISI 304 / B8 (according to ASTM A193)
	W5	A4-70 (according to DIN EN ISO 3506)	AISI 316 / B8M (according to ASTM A193)
Socket Cap Screw Type IS	W1, W2, W3	8.8 (according to DIN EN ISO 898)	5 (according to SAE J429)
	W4	A2-70 (according to DIN EN ISO 3506)	AISI 304 / B8 (according to ASTM A193)
	W5	A4-70 (according to DIN EN ISO 3506)	AISI 316 / B8M (according to ASTM A193)
Slotted Head Screw Type LI	W1, W2, W3	4.8 (according to DIN EN ISO 898)	2 (according to SAE J429)
	W4	A2-70 (according to DIN EN ISO 3506)	AISI 304 / B8 (according to ASTM A193)
	W5	A4-70 (according to DIN EN ISO 3506)	AISI 316 / B8M (according to ASTM A193)

Unless otherwise stated, the above mentioned property classes / grades apply as standards for bolts and screws supplied by STAUFF. The information indicate the minimum requirements; higher property classes are available upon request. Contact STAUFF for details.



Basic Installation Instructions



Installation on Weld Plate

Different types of weld plates are available for all STAUFF Clamps according to DIN 3015 as well as for most of the other series and many custom-designed special clamps.

- Mark the positions of the weld plates to ensure best alignment.
- Place weld plates in their designated positions. Please make sure these positions are suitable for the expected loads.
- Weld the weld plates into position. Elongated weld plates can also be mounted to their positions by using screws or bolts.
- Push bottom clamp half onto weld plate.
- Insert pipe, tube, hose, cable or any other type of line.
- Place second clamp half and cover plate (optional) on top and mount clamp assembly by using screws or bolts.

Unless otherwise stated, the bolt lengths indicated for clamps according to DIN 3015 refer to the installation on weld plates and mounting rails as well as multi-level (stacking) installation. For direct installation, different lengths may be required.



Installation on Mounting Rail

STAUFF Mounting Rails are available in different heights. STAUFF Rail Nuts are available for all STAUFF Clamps according to DIN 3015 (Heavy Series up to STAUFF Group 6S only) as well as for many custom-designed special clamps.

- Mark the positions of the mounting rails to ensure best alignment.
- Place mounting rails in their designated positions. Please make sure these bases are suitable for the expected loads.
- Weld the mounting rails into position. Mounting rails can also be mounted to their positions by using side-mounting brackets with screws or bolts.
- Insert rail nuts into mounting rail and turn until stop to lock (Standard and Twin Series) or slide in rail nut (Heavy Series).
- Push bottom clamp half onto rail nuts.
- Insert pipe, tube, hose, cable or any other type of line.
- Place second clamp half and cover plate (optional) on top and mount clamp assembly by using screws or bolts.

The exact positions of the clamp assemblies can still be adjusted before being firmly bolted.



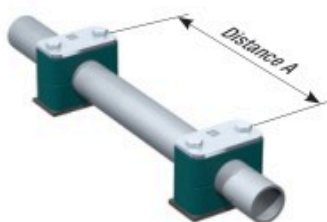
Multi-Level (Stacking) Installation

Stacking bolts permit the multi-level assembly of clamps of identical group sizes. Safety locking plates inserted between the levels prevent the stacking bolts from turning. The Twin Series also allows stacking of different group sizes (STAUFF Groups 2D to 5D).

- Push bottom clamp half onto weld plate or rail nuts.
- Insert pipe, tube, hose, cable or any other type of line.
- Place second clamp half.
- Insert stacking bolts into the clamp assembly and tighten using the following tightening torques (or in a way that the clamp halves are in contact with the line over the entire internal contact surface):
 - Standard Series** 1 ... 2 N-m / .75 ... 1.5 ft-lb (hand-tightened)
 - Heavy Series** 5 N-m / 3.75 ft-lb
 - Twin Series** 1 ... 2 N-m / .75 ... 1.5 ft-lb (hand-tightened)
- Place safety locking plate on top of clamp assembly.
- Proceed with next levels. Top level to be assembled with cover plate and hexagon head bolts using the tightening torques as indicated on page 161.

STAUFF multi-level clamp assemblies can be mounted both to weld plates or to mounting rails (with rail nuts).

Recommended Distance between Clamps



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

Outside Diameter (mm)	(in)	Distance A (m)	(ft)	Outside Diameter (mm)	(in)	Distance A (m)	(ft)
6,0 ... 12,7	.2350	1,00	3,28	114,0 ... 168,0	4.50 ... 6.60	5,00	16,40
12,7 ... 22,0	.5086	1,20	3,94	168,0 ... 219,0	6.60 ... 8.60	6,00	19,68
22,0 ... 32,0	.86 ... 1.25	1,50	4,92	219,0 ... 324,0	8.60 ... 12.70	6,70	21,98
32,0 ... 38,0	1.25 ... 1.50	2,00	6,56	324,0 ... 356,0	12.70 ... 14.00	7,00	22,96
38,0 ... 57,0	1.5 ... 2.25	2,70	8,86	356,0 ... 406,0	14.00 ... 16.00	7,50	24,60
57,0 ... 75,0	2.25 ... 2.95	3,00	9,84	406,0 ... 419,0	16.00 ... 16.50	8,20	26,90
75,0 ... 76,1	2.95 ... 3.00	3,50	11,48	419,0 ... 508,0	16.50 ... 20.00	8,50	27,88
76,1 ... 88,9	3.00 ... 3.50	3,70	12,14	508,0 ... 521,0	20.00 ... 20.50	9,00	29,52
88,9 ... 102,0	3.50 ... 4.00	4,00	13,12	521,0 ... 558,0	20.50 ... 22.00	10,00	32,80
102,0 ... 114,0	4.00 ... 4.50	4,50	14,76	558,0 ... 800,0	22.00 ... 31.50	12,50	41,00

Installation next to Pipe Bends, Connectors / Couplings and Valves



Please note the following information on the installation of STAUFF Clamps next to pipe bends, connectors / couplings and valves:

Pipe Bends

Pipe bends should be supported by STAUFF Clamps as close to the bends as possible. Furthermore, it is recommended to design these clamps as fixed point clamps.

Connections / Couplings

The first clamp should be placed directly next to the connector / coupling. This protects the connector / coupling from vibrations.

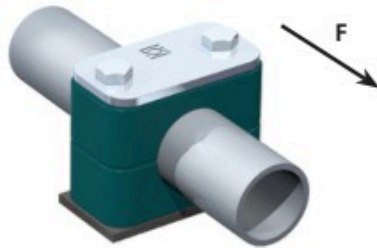
Valves

If valves are incorporated in the pipelines, it is recommended that support is provided in front of and behind these valves.

Contact STAUFF for further information.



Tightening Torques and Maximum Loads In Pipe Direction



All tightening torques and maximum loads in pipe direction refer to STAUFF Clamp Bodies (profiled inside surface with tension clearance) with Cover Plates, Weld Plates and Hexagon Head Bolts according to DIN EN ISO 4014/4017 (DIN 931/933).

The max. load in pipe direction (according to DIN 3015-10:1999) is an average value, determined by three tests at +23 °C / +73.4 °F with a steel pipe according to DIN EN 10220, St37 – rolled surface – taking static friction into consideration.

Sliding starts when the shown values (F) are reached.

Standard Series (DIN 3015-1:1999)

Group	Hexagon Head Bolt DIN EN ISO 4014/4017 (DIN 931/933)	Metric ISO Thread	Unified Coarse (UNC) Thread	Polypropylene (PP)				Polyamide (PA)				Aluminium (AL)			
				Tightening Torque		Maximum Load in Pipe Direction F		Tightening Torque		Maximum Load in Pipe Direction F		Tightening Torque		Maximum Load in Pipe Direction F	
STAUFF	DIN			(N-m)	(ft-lb)	(kN)	(lbf)	(N-m)	(ft-lb)	(kN)	(lbf)	(N-m)	(ft-lb)	(kN)	(lbf)
1	0	M6	1/4-20 UNC	8	6	0,6	135	10	7	0,6	135	12	9	3,5	787
1A	1	M6	1/4-20 UNC	8	6	1,1	247	10	7	0,7	157	12	9	4,2	944
2	2	M6	1/4-20 UNC	8	6	1,3	292	10	7	0,8	180	12	9	4,3	967
3	3	M6	1/4-20 UNC	8	6	1,4	315	10	7	1,6	360	12	9	4,9	1101
4	4	M6	1/4-20 UNC	8	6	1,5	337	10	7	1,7	382	12	9	5,0	1124
5	5	M6	1/4-20 UNC	8	6	1,9	427	10	7	2,0	450	12	9	7,3	1641
6	6	M6	1/4-20 UNC	8	6	2,0	450	10	7	2,5	562	12	9	8,9	2000
7	7	M6	1/4-20 UNC	8	6	2,3	517	10	7	3,2	719				
8	8	M6	1/4-20 UNC	8	6	2,6	585	10	7	3,5	787				

Heavy Series (DIN 3015-2:1999)

Group	Hexagon Head Bolt DIN EN ISO 4014/4017 (DIN 931/933)	Metric ISO Thread	Unified Coarse (UNC) Thread	Polypropylene (PP)				Polyamide (PA)				Aluminium (AL)			
				Tightening Torque		Maximum Load in Pipe Direction F		Tightening Torque		Maximum Load in Pipe Direction F		Tightening Torque		Maximum Load in Pipe Direction F	
STAUFF	DIN			(N-m)	(ft-lb)	(kN)	(lbf)	(N-m)	(ft-lb)	(kN)	(lbf)	(N-m)	(ft-lb)	(kN)	(lbf)
3S	1	M10	3/8-16 UNC	12	9	1,6	360	20	15	4,2	944	30	22	12,1	2720
4S	2	M10	3/8-16 UNC	12	9	2,9	652	20	15	4,5	1044	30	22	15,1	3395
5S	3	M10	3/8-16 UNC	15	11	3,3	742	25	18	5,1	1146	35	26	15,5	3485
6S	4	M12	7/16-14 UNC	30	22	8,2	1843	40	30	9,3	2090	55	41	29,5	6609
7S	5	M16	5/8-11 UNC	45	33	11,0	2472	55	41	15,8	3551	120	86	34,9	7845
8S	6	M20	3/4-10 UNC	80	59	14,0	3147	150	111	21,0	4720	220	162	50,0	11240
9S	7	M24	7/8-9 UNC	110	81	28,0	6300	200	148	32,0	7193	250	184	70,6	15871
10S	8	M30	1-1/8-7 UNC	180	133	40,0	8992	350	258	48,0	10790	500	369	84,5	18996
11S	9	M30	1-1/4-7 UNC	200	148	119,0	26752	370	273	125,0	27650	500	369	181,5	40802
12S	10	M30	1-1/4-7 UNC	270	199	168,0	37767	450	332	180,0	40465	600	443	244,5	54965

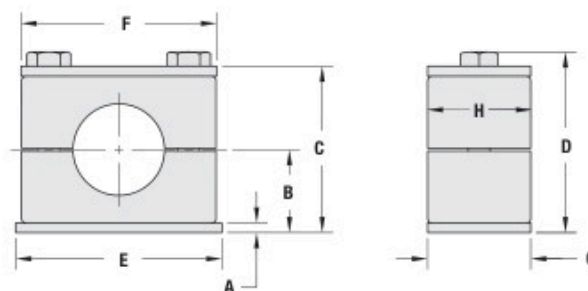
Twin Series (DIN 3015-2:1999)

Group	Hexagon Head Bolt DIN EN ISO 4014/4017 (DIN 931/933)	Metric ISO Thread	Unified Coarse (UNC) Thread	Polypropylene (PP)				Polyamide (PA)			
				Tightening Torque		Maximum Load in Pipe Direction F		Tightening Torque		Maximum Load in Pipe Direction F	
STAUFF	DIN			(N-m)	(ft-lb)	(kN)	(lbf)	(N-m)	(ft-lb)	(kN)	(lbf)
1D	1	M6	1/4-20 UNC	5	4	0,9	202	5	4	0,9	202
2D	2	M8	5/16-18 UNC	12	9	2,1	472	12	9	2,2	495
3D	3	M8	5/16-18 UNC	12	9	1,9	427	12	9	2,0	450
4D	4	M8	5/16-18 UNC	12	9	2,7	607	12	9	2,9	652
5D	5	M8	5/16-18 UNC	8	6	1,7	382	8	6	2,5	562

Only for the standard clamp body materials which are listed on page 154. In case of doubt, please contact STAUFF in advance.

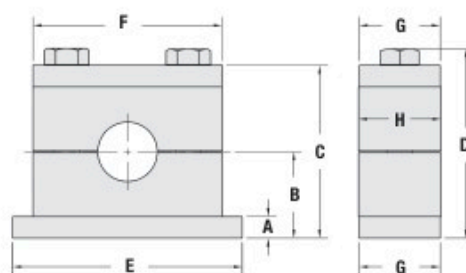


Dimensions and Weights of Clamp Assemblies



Standard Series (DIN 3015, Part 1)

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

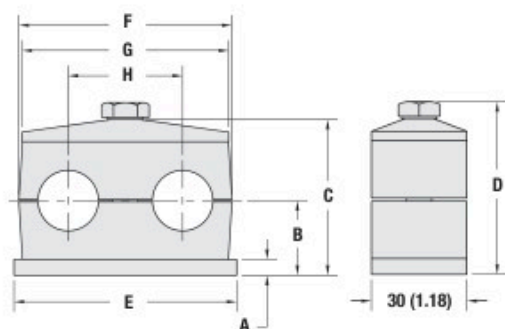


Heavy Series (DIN 3015, Part 2)

Group		Dimensions (mm/in)												Weight per 1 Pc. SPAL-**-PP-DPAL-AS (kg/lbs)
STAUFF	DIN	A	B Profiled Design	Type H(Smooth)	C Profiled Design	Type H(Smooth)	D Profiled Design	Type H(Smooth)	E	F PP/ PA/SA	AL	G	H	
3S	1	8 .31	24 .94	23,25 .92	48 1.89	46,5 1.83	54,4 2.14	52,9 2.09	74 2.91	55 2.16	56 2.20	30 1.18	30,5 1.20	0,32 .70
4S	2	8 .31	32 1.26	31,25 1.23	64 2.52	62,5 2.46	70,4 2.77	68,9 2.72	86 3.39	70 2.76	70 2.76	30 1.18	30,5 1.20	0,40 .88
5S	3	8 .31	38 1.50	37 1.46	76 2.99	74 2.91	82,4 3.24	80,4 3.17	100 3.94	85 3.35	85 3.35	30 1.18	30,5 1.20	0,49 1.08
6S	4	10 .39	54,5 2.15	53,5 2.11	109 4.29	107 4.21	116,5 4.59	114,5 4.51	140 5.51	115 4.53	120 4.72	45 1.77	45 1.77	1,21 2.66
7S	5	10 .39	70 2.76		140 5.51		150 5.91		180 7.09	154 6.06	152 5.98	60 2.36	60 2.36	2,30 5.06
8S	6	15 .59	99 3.90		198 7.80		210,5 8.29		226 8.90	206 8.11	208 8.19	80 3.15	80 3.15	5,56 12.26
9S	7	15 .59	115 4.53		230 9.06		245 9.65		270 10.63	251 9.88	255 10.04	90 3.54	91 3.58	7,97 17.58
10S	8	25 .98	160 6.30		320 12.60		338,7 13.33		340 13.39	336 13.22	326 12.83	120 4.72	120 4.72	22,16 48.75
11S	9	30 1.18	235 9.25		470 18.50		488,7 19.24		520 20.47	470 18.50	470 18.50	160 6.30	162 6.38	54,11 119.04
12S	10	30 1.18	295 11.61		590 23.23		608,7 23.96		680 26.77	630 24.80	630 24.80	180 7.09	182 7.16	77,40 170.28



Dimensions & Weights of Clamp Assemblies



Twin Series (DIN 3015, Part 3)

Group		Dimensions (^{mm} / _{in})											Weight per 100 Pcs.	
STAUFF	DIN	B			C		D							SP-**-**-PP-GD-AS (^{kg} / _{lbs})
		A	Profiled Design	Type H (Smooth)	Profiled Design	Type H (Smooth)	Profiled Design	Type H (Smooth)	E	F	G	H		
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		Quantity per Bag
STAUFF	DIN	(in Pcs.)
1 - 6	0 - 6	25
7 + 8	7 + 8	10

Clamp Bodies (Aluminium)

Group	Quantity per Bag	
STAUFF	DIN	(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		Quantity per Bag
STAUFF	DIN	(in Pcs.)
1 - 8	0 - 8	50

Heavy Series (DIN 3015, Part 2)

Clamp Bodies (Polypropylene / Polyamide)

Group	Quantity per Bag	
STAUFF	DIN	(in Pcs.)
3S - 6S	1 - 4	20
7S	5	10
8S - 12S	6 - 10	1

Clamp Bodies (Aluminium)

Group		Quantity per Bag
STAUFF	DIN	(in Pcs.)
3S - 6S	1 - 4	20
7S	5	10
8S - 12S	6 - 10	1

Weld Plates (Type SPAL)

Cover Plates (Type DPAL)

Group		Quantity per Bag
STAUFF	DIN	(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		Quantity per Bag
STAUFF	DIN	(in Pcs.)
3S - 6S	1 - 4	40

Twin Series (DIN 3015, Part 3)

Clamp Bodies (Polypropylene / Polyamide)

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

Weld Plates (Type SP)

Cover Plates (Type GD)

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

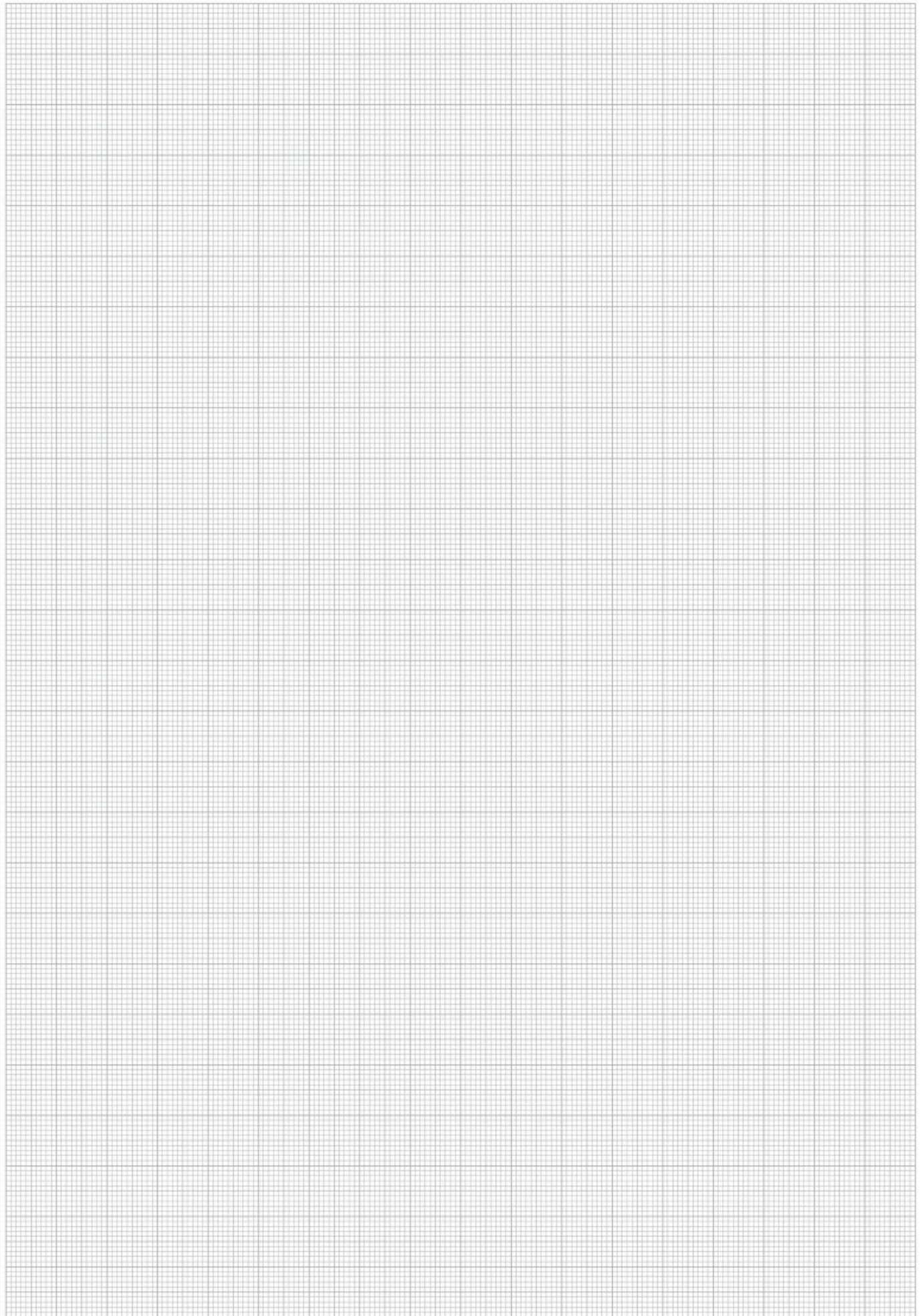
Hexagon Rail Nut (Type SM)

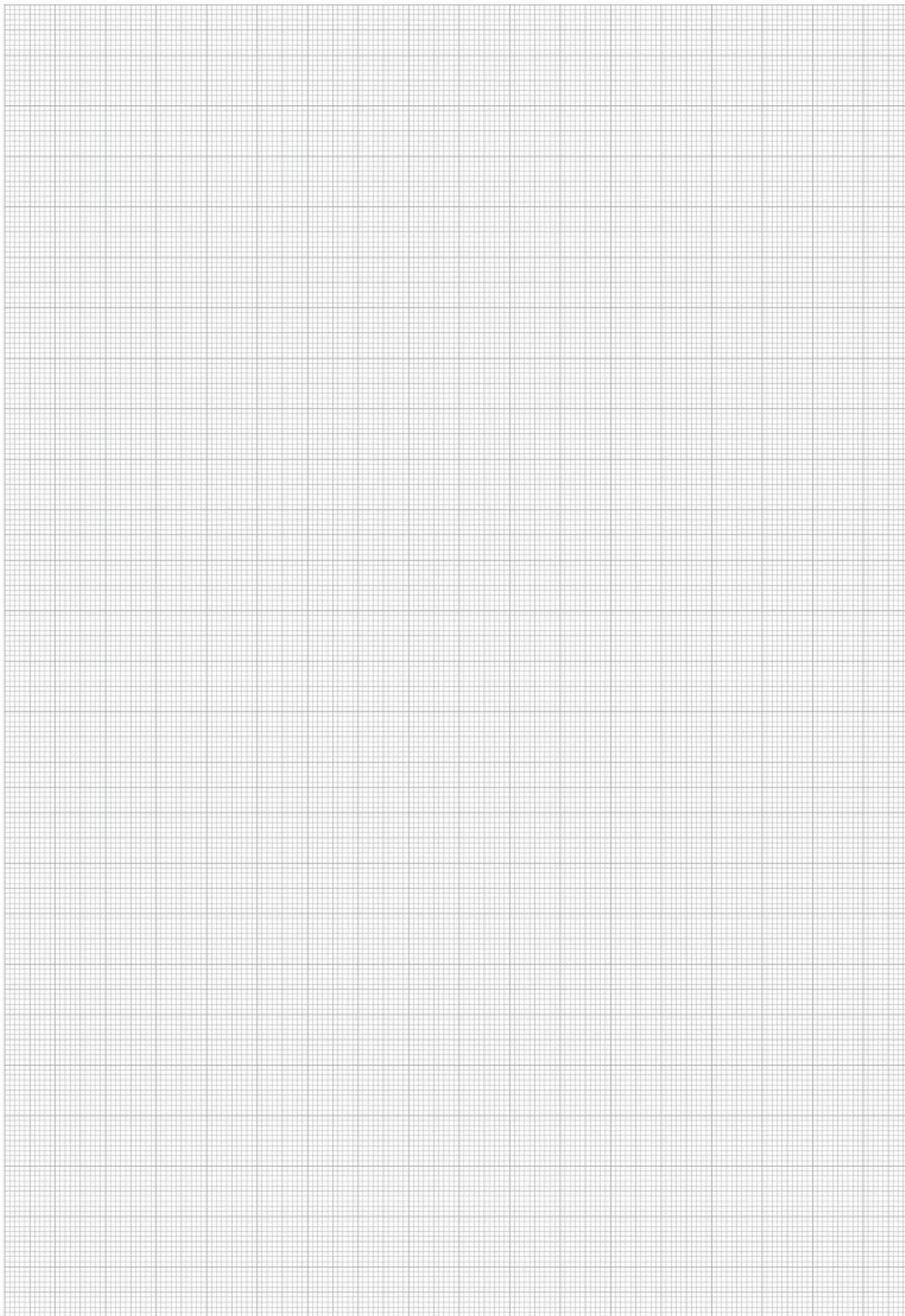
Channel Rail Adaptor (Type CRA)

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.









Product-Specific Abbreviations

192

Global Contact Directory

194



Product-Specific Abbreviations

Abbreviation	Product Category	Product Description	Page
ACT	STAUFF ACT Clamps	ACT Clamp Body, Standard Series	84
ACT	STAUFF ACT Clamps	ACT Clamp Body, Twin Series	94
AF	Standard Series	Stacking Bolt	31
AF	Heavy Series	Stacking Bolt	53
AF	Twin Series	Stacking Bolt	71
AF	Heavy Twin Series	Stacking Bolt	78
AF	Multi-Line Clamps	Stacking Bolt	120
AS	Standard Series	Hexagon Head Bolt	28
AS	Heavy Series	Hexagon Head Bolt	51
AS	Twin Series	Hexagon Head Bolt	68
AS	Heavy Twin Series	Hexagon Head Bolt	78
AS	Multi-Line Clamps	Hexagon Head Bolt	120
AS	Light Series	Hexagon Head Bolt	139
BSP	Standard Series	Bridge Weld Plate	22
CC	Standard Series	Clamp Body, Compact Design	19
CHC	Standard Series	Clamp Body for Conduit Hoses and Cable Inserts	18
Clamp Body	Standard Series	Clamp Body, Profiled Design	14
Clamp Body	Standard Series	Clamp Body, Type H	15
Clamp Body	Heavy Series	Clamp Body, Profiled Design	38
Clamp Body	Heavy Series	Clamp Body, Type H	40
Clamp Body	Twin Series	Clamp Body, Profiled Design	60
Clamp Body	Twin Series	Clamp Body, Type H	60
Clamp Body	Heavy Twin Series	Clamp Body, Profiled Design	76
CRA	Standard Series	Channel Rail Adaptor	26
CRA	Heavy Series	Channel Rail Adaptor	47
CRA	Twin Series	Channel Rail Adaptor	65
CRA	Heavy Twin Series	Channel Rail Adaptor	78
CRA	Multi-Line Clamps	Channel Rail Adaptor	123
DIT-SR6-SWG	STAUFF SWG: Stud Welding System	Distance Tube	109
DP	Standard Series	Cover Plate	28
DPAD	Heavy Twin Series	Cover Plate	77
DPAL	Heavy Series	Cover Plate for Single Clamps	50
DPAS	Heavy Series	Cover Plate for Double Clamps	50
DPL	Light Series	Cover Plate	143
DP-MLC	Multi-Line Clamps	Cover Plate	119
DSP	Standard Series	Twin Weld Plate	21
EP	Standard Series	Insert	30
ES	Standard Series	Insert	30
FB	Flat Steel and Round Steel U-Bolt Clamps	Flat Steel U-Bolt	150
GD	Twin Series	Cover Plate	68
GMV	Heavy Series	Mounting Rail Nut	46
GMV	Heavy Twin Series	Mounting Rail Nut	78
IS	Standard Series	Socket Cap Screw	30
IS	Heavy Series	Socket Cap Screw	51
IS	Twin Series	Socket Cap Screw	69
IS	Heavy Twin Series	Socket Cap Screw	78
Kit-SWG-WI06-Starter	STAUFF SWG: Stud Welding System	Starterkit	108
LB	Light Series	Clamp Body, Single Design	140
LBBU	Light Series	Clamp Body, Single Design	136
LBBU	Light Series	Clamp Body, Twin Design	137
LBBU-DP	Light Series	Cover Plate	139
LBBU-HUE	Light Series	Sleeve	138
LBBU-SP	Light Series	Weld Plate	138
LBG	Light Series	Clamp Body, Twin Design	141
LBU	Light Series	Clamp Body, Twin Design	141
LI	Standard Series	Slotted Head Screw	30
LN	Light Series	Clamp Body, Single Design	142
LNGF	Light Series	Clamp Body, Twin Design	143
LNUF	Light Series	Clamp Body, Twin Design	143
MGR	Standard Series	Clamp Body for Multi-Group Weld Plate	23
MLC	Multi-Line Clamps	Clamp Body (2 Lines) Multi-Line Clamps	114
MLC	Multi-Line Clamps	Clamp Body (3 Lines) Multi-Line Clamps	115
MLC	Multi-Line Clamps	Clamp Body (4 Lines) Multi-Line Clamps	116
MLC	Multi-Line Clamps	Clamp Body (6 Lines) Multi-Line Clamps	117
NRC	Standard Series	Noise Reduction Clamp	17
NRC	Heavy Series	Noise Reduction Clamp	43
RAP	Standard Series	Group Weld Plate	21
RAP	Twin Series	Group Weld Plate	62
RAP-MGR	Standard Series	Multi-Group Weld Plate	23
RB	Flat Steel and Round Steel U-Bolt Clamps	Round Steel U-Bolt	152
RB	Flat Steel and Round Steel U-Bolt Clamps	Round Steel U-Bolt	154
RBD	Flat Steel and Round Steel U-Bolt Clamps	Round Steel U-Bolt (DIN 3570, Type A)	156
RI	Standard Series	Clamp Body with Elastomer Insert	16
RI	Heavy Series	Clamp Body with Elastomer Insert	42
RI	Heavy Twin Series	Clamp Body with Elastomer Insert	76
RUK	Flat Steel and Round Steel U-Bolt Clamps	Plastic Pipe Saddle (Short) for Flat Steel U-Bolt	151
RUK	Flat Steel and Round Steel U-Bolt Clamps	Plastic Pipe Saddle (Short) for Round Steel U-Bolt	153



Product-Specific Abbreviations

Abbreviation	Product Category	Product Description	Page
RUL	Flat Steel and Round Steel U-Bolt Clamps	Plastic Pipe Saddle (Long) for Round Steel U-Bolt	155
SI	Twin Series	Safety Locking Plate	70
SI (DIN 463)	Standard Series	Safety Washer (DIN 463)	29
SI (DIN 463)	Heavy Series	Safety Washer (DIN 463)	52
SI (DIN 93)	Standard Series	Safety Washer (DIN 93)	29
SI (DIN 93)	Heavy Series	Safety Washer (DIN 93)	52
SIG	Standard Series	Safety Locking Plate	31
SIG	Multi-Line Clamps	Safety Locking Plate	121
SIP	Heavy Series	Safety Locking Plate	53
SIPD	Heavy Twin Series	Safety Locking Plate	78
SIV	Twin Series	Safety Locking Plate	70
SM	Standard Series	Hexagon Rail Nut	24
SM	Twin Series	Hexagon Rail Nut	63
SM	Multi-Line Clamps	Hexagon Rail Nut	122
SP	Standard Series	Single Weld Plate	20
SP	Twin Series	Single Weld Plate	61
SPAD	Heavy Twin Series	Weld Plate	77
SPAL	Heavy Series	Weld Plate for Single Clamps	44
SPAL-DUEB	Heavy Series	Elongated Weld Plate for Single Clamps	45
SPAS	Heavy Series	Weld Plate for Double Clamps	44
SPAS-DUEB	Heavy Series	Elongated Weld Plate for Double Clamps	45
SP-MLC	Multi-Line Clamps	Single Weld Plate	118
SPV	Standard Series	Elongated Weld Plate	20
SPV	Twin Series	Elongated Weld Plate	61
STSV	Heavy Series	Mounting Rail	46
STSV	Heavy Twin Series	Mounting Rail	78
SWG-AGS	STAUFF SWG: Stud Welding System	Distance Adaptor	109
SWG-CTH-11-M6	STAUFF SWG: Stud Welding System	Cable Tie Holder	107
SWG-CTH-30-M6-1	STAUFF SWG: Stud Welding System	Cable Tie / Tension Belt Holder	107
SWG-CTH-30-M6-2	STAUFF SWG: Stud Welding System	Cable Tie / Tension Belt Holder	107
SWG-DIP	STAUFF SWG: Stud Welding System	Distance Plate for DIN 3015 Clamps	107
SWG-GC	STAUFF SWG: Stud Welding System	Ground Cable	109
SWG-MRA	Standard Series	Fastening Adaptor	25
SWG-MRA	Twin Series	Fastening Adaptor	64
SWG-SF	STAUFF SWG: Stud Welding System	Weld Stud with Female Thread	106
SWG-SR6	STAUFF SWG: Stud Welding System	Stud Retainer	109
SWG-WG	STAUFF SWG: Stud Welding System	Weld Inverter	108
SWG-WI06	STAUFF SWG: Stud Welding System	Weld Inverter	108
TS	Standard Series	Mounting Rail	24
TS	Twin Series	Mounting Rail	63
TS	Multi-Line Clamps	Mounting Rail	122
VK	Standard Series	Clamp Body, Rectangular Design	19
WSP	Standard Series	Angled Weld Plate	22
ZR-518	Saddle / Piggyback Clamps	Saddle / Piggyback Clamps	146
DIN 3567-A	Metal DIN Clamps	Metal Pipe Clamp with Tension Clearance Two-Bolt Design	160
DIN 3567-B	Metal DIN Clamps	Metal Pipe Clamp with Tension Clearance Three-Bolt Design (Extended to One Side)	161
DIN 1592	Metal DIN Clamps	Heavy Saddle with Tension Clearance Single-Bolt Design	162
DIN 1593	Metal DIN Clamps	Heavy Saddle with Tension Clearance Two-Bolt Design	163
DIN 1596	Metal DIN Clamps	Light Saddle with Tension Clearance Single-Bolt Design	164
DIN 1597	Metal DIN Clamps	Light Saddle with Tension Clearance Two-Bolt Design	165
KS	Construction Series	Construction Series	168
DKS	Construction Series	Construction Series	168
KSV	Construction Series	Construction Series (for Anchor Bolt Fastening)	169
DKSV	Construction Series	Construction Series (for Anchor Bolt Fastening)	169
STC	Other Types of Clamps	Cushion Clamp Series	172
SPC	Other Types of Clamps	Cushion Clamp Series	172
SCS	Other Types of Clamps	Channel Rail	173
DS	Other Types of Clamps	Compact Twin Series	174
AG	Other Types of Clamps	Agriculture Twin Series	174
SRF	Other Types of Clamps	Pipe / Tube Bushing	175
PP	Technical Appendix	Standard Clamp Body Material	178
PA	Technical Appendix	Standard Clamp Body Material	178
AL	Technical Appendix	Standard Clamp Body Material	178
SA	Technical Appendix	Standard Clamp Body Material	178
SA	Technical Appendix	Standard Clamp Insert Materials	179
EPDM	Technical Appendix	Standard Clamp Insert Materials	179
PA-V0	Technical Appendix	Special Clamp Body Material	180
PP-DA	Technical Appendix	Special Clamp Body Material	180
PA-GF30-USR	Technical Appendix	Special Clamp Body Material	180
PP6853	Technical Appendix	Special Clamp Body Material	181
PP-V0	Technical Appendix	Special Clamp Body Material	181
SA-V0	Technical Appendix	Special Clamp Body Material	181



Global Contact Directory

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

Contact information on this page may be subject to changes and additions over time. Frequently updated and complete contact information can always be found at www.stauff.com.

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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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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.

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