



Catalogue 1 **STAUFF Clamps**

Germany

Walter Stauffenberg GmbH & Co. KG Im Ehrenfeld 4 58791 Werdohl

www.stauff.com

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

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

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

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

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

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

With the publication of this product catalogue, previous editions are no longer valid.



Introduction	4 - 11
Standard Series according to DIN 3015, Part 1	12 - 33
Heavy Series according to DIN 3015, Part 2	34 - 51
Twin Series according to DIN 3015, Part 3	52 - 63
Heavy Twin Series	64 - 69
STAUFF ACT Clamps: Anti-Corrosion Technology	70 - 89
STAUFF SWG: Stud Welding System	96 - 101
Notes	96 - 101
Custom-Designed Special Clamps	102 - 109
Light Series	110 - 119
Saddle / Piggyback Clamps	120 - 123
Flat Steel and Round Steel U-Bolt Clamps	124 - 133
Metal DIN Clamps	134 - 141
Construction Series	142 - 145
Other Types of Clamps	146 - 151
Technical Appendix	152 - 165
Appendix (Product-Specific Abbreviations / Global Contact Directory)	166 - 171





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**

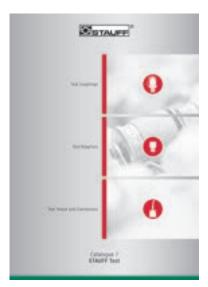
- Push-to-Connect Couplings
- Multi Couplings
- Screw-to-Connect Couplings



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**

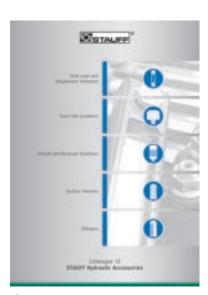
- Pressure Gauges
- Hydraulic Testers
- Oil Analysis Equipment



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
- Diffusors



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

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

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

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

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



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

STAUFF LINE Components



With the seven dedicated STAUFF Line product groups

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

6

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.

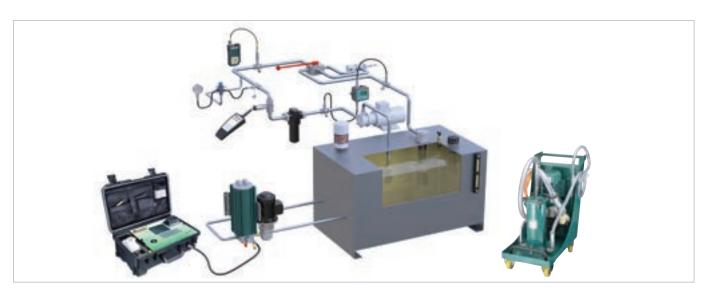
If desired, Original Equipment Manufacturers can be supported with value-added services, from **technical consultation** to **pre-assembly**, **assembly and kitting** as well as **logistics services**:

- 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



Catalogue 1 • Edition 08/2022





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

8

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.



Catalogue 1 • Edition 08/2022

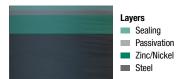








STAUFF Zinc/Nickel Coating



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 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.

Online Page-Flip Catalogues

- Easy navigation through index or the powerful full text search functionality
- Contents can be shared and forwarded by e-mail, printed or downloaded and saved in PDF file format
- Also suitable for mobile devices

Download Catalogues

· Download entire product catalogues and save them in PDF file format

Catalogue Request

• Contact form to request printed copies of the product catalogue as well as digital copies on USB stick

The fastest way to the online page-flip catalogue:

The links that can be found at the bottom edge of all pages of this product catalogue will lead you directly to the corresponding page in the online page-flip catalogue.

In doing so, contents can be searched, shared and forwarded by e-mail, printed or downloaded and saved in PDF file format.

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



Catalogue 1 • Edition 08/2022

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

Follow STAUFF and keep yourself updated:



Linkedin

www.linkedin.com/company/stauff



Youtube

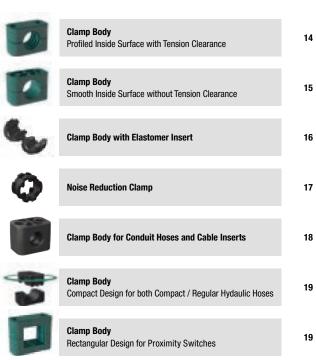
www.youtube.com/stauffgroup



STAUFF Newsletters

Automatic e-mail notifications about latest news from STAUFF www.stauff.com/newsletter





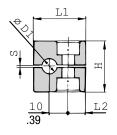


-	Weld Plate SP	20		Cover Plate DP	26
white the	Elongated Weld Plate SPV	20	1	Hexagon Head Bolt for use with Cover Plate DP	26
William .	Twin Weld Plate DSP	21		Safety Washer (DIN 93)	27
C	Group Weld Plate	21	_	Safety Washer (DIN 463)	27
v-0	Angled Weld Plate WSP	22	1	Socket Cap Screw IS	28
0-0	BSP	22	1	Slotted Head Screw	28
	Clamp Body for Multi-Group Weld Plates	23	1	Hexagon Head Bolt for use with Insert ES / EP AS	28
*****	Multi-Group Weld Plate RAP-MGR	23	9	Insert ES / EP	28
<u></u>	Hexagon Rail Nut	24	=	Safety Locking Plate SIG	29
	Mounting Rail TS	24	1	Stacking Bolt AF	29
also	Channel Rail Adaptor CRA	25		Clamp Assemblies	30

Clamp Body - Profiled Design

Profiled Inside Surface with Tension Clearance





L1

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 cla	mp halves.
* STAUFF Group	1
* Exact outside diameter Ø D1 (mm)	06
* Material code (see below)	PP

Standard Materials



Polypropylene Colour: Green Material code: PP



Polypropylene Colour: Black Material code: PP-BK



Polyamide Colour: Black Material code: PA



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



Aluminium Colour: Self-Colour

Material code: AL (STAUFF Group 1A to 6)

See pages 154 / 155 for material properties and technical

Special Materials

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

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

Product Features

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

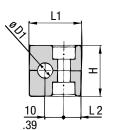
Pipe / Tube Copper Tube (2 Clamp Halves) (mm/in) Pipe ASTM B88	Group		Outside	Diameter	Nominal	Rore	Ordering Codes	Dimens	sions					
Table Pipe ASTM B88 (**= Materia) L1	-						_							
1	¥	_			Pipe		(11)	(,,						
Table Tabl	ST	a	(mm)	(in)	(in)	(in)	(** = Material)	L1	L2	Н	S min.	Width		
Table Tabl			6				106-**							
1			6,4	1/4			106.4-**							
10	1	0	8	5/16			108-**	28	9,5	27	0,4	30		
Table Tabl	•		_	3/8		1/4		1.10	.37	1.06	.02	1.18		
Table Tabl					1/8									
Table Tabl														
1A 1 8 5/16 108A-** 37 20 27 0,4 30 10 1/8 110A-** 110A-** 1.46 79 1.06 .02 1.18 12 12 112A-** 112A-** 1.46 .79 1.06 .02 1.18 12 127 1/2 3/8 212.7-** 213.5** 42 26 33 0.6 30 16 5/8 1/2 216-** 1.65 1.02 1.30 .02 1.18 19 3/4 319-** 1.65 1.02 1.30 .02 1.18 20 3/4 329-** 1.97 1.30 1.42 .02 1.18 21,3 1/2 3/4 322-** 1.97 1.30 1.42 .02 1.18 25 25 3/4 325-** 1.97 1.30 1.42 .02 1.18 4 26,9 3/4 426-9-** 1.97 1.30 1.42 .06 30 28 4 428,6-														
1			-											
10	1A	1									-			
12			-	3/8	1.00	1/4		1.46	.79	1.06	.02	1.18		
12,7					1/8									
Table Tabl				1/0		0.00								
Table				1/2	1//	3/0								
2					1/4									
16 5/8 1/2 216-** 1.02 1.30 .02 1.18 17,2 3/8 217.2-** 1.02 1.30 .02 1.18 19 3/4 319-** 20 320-** 30-** 30 30 30 30 30 30 30 30 30 30 1.42 .02 1.18 22 7/8 3/4 325-** 50 33 36 0,6 30 25,4 1 325-** 1.97 1.30 1.42 .02 1.18 26,9 3/4 426-** 428-** 59 40 42 0,6 30 28,6 1 428.6-** 59 40 42 0,6 30 32 1-1/4 532-** 537-** 533.7-** 533.7-** 71 52 58 0,8 30 5 38 1-1/2 538-** 71 52 58 0,8 30 40 540-** 540-** 280 2.05 2.28 .03 1.18 6 48,3 1-1/2 541.3-** 86 66 66 0.8 30 57,2 2-1/4 65	2	2						42	26	33	0,6	30		
17,2				5/8		1/2		1.65	1.02	1.30	.02	1.18		
3 18 218-** 20 320-** 21,3 1/2 321.3-** 25 3/4 322-** 26,9 3/4 426.9-** 28 428-** 29,6 1 428.6-** 30 430-** 32 1-1/4 532-** 33,7 1 533-** 35 1-1/4 532-** 33 1-1/2 538-** 40 540-** 41,3 1-1/2 541.3-** 42 1-1/4 542-** 48,3 1-1/2 648.3-** 50,8 2 650.8-** 57,2 2-1/4 760.3-** 7 63,5 2-1/2 763.5-** 70 2-3/4 770-** 4.70 76,1 3 2-1/2 (ANSIB 36-10) 770-** 76,1 3 2-1/2 (QIN EN 10220) 7761-** 8 88,9 3				3/0	3/8	1/2								
3 19 3/4 319-** 320-** 321.3 +* 50 33 36 0,6 30 22 7/8 3/4 322-** 1.97 1.30 1.42 .02 1.18 25 25,4 1 325.4-** 1.97 1.30 1.42 .02 1.18 26,9 3/4 426.9-** 426.9-** 59 40 42 0,6 30 28 428-** 59 40 42 0,6 30 30 430-** 532-** 59 40 42 0,6 30 31 1-1/4 532-** 537-** 1.65 .02 1.18 33 1-1/4 532-** 71 52 58 0,8 30 33,7 1 535-** 71 52 58 0,8 30 38 1-1/2 538-** 71 52 58 0,8 30 40 540-** 541-3** 2.80 2.05 2.28 .03 1.18 44,5 1-3/4 644.5-** 86 66 66 0,8 30 50,8 2 650.8-** 3.39 2.60 2.60					0/0									
3 20 320-** 50 33 36 0,6 30 21,3 322-** 50 33 36 0,6 30 30 325.** 50 325.** 50 325.** 50 325.** 50 325.** 50 325.** 50 325.** 50 325.** 50 325.** 50 325.** 50 325.** 50 325.** 50 325.** 50 325.** 50 325.** 50 325.** 50 40 42 0,6 30 426.9-** 60,6 30 426.9-** 60,6 30 426.9-** 60,6 30 426.9-** 60,6 30 426.9-** 60,6 30 426.9-** 60,6 30 426.9-** 60,6 30 426.9-** 60,6 30 426.9-** 60,6 30 426.9-** 60,6 30 426.9-** 60,6 30 426.9-** 60,6 30 426.9-** 60,6 30 426.9-** 60,6 30 426.9-** 60,6 30 426.9-** 60,6 30 426.9-** 60,6 30 426.9-** 60,8 30 426.9-** 60,				3/4										
3 3 21,3				0, 1										
22 7/8 3/4 322-** 1.97 1.30 1.42 .02 1.18 25 25,4 1 325-** 325-4** 426.9-** 426.9-** 59 40 42 0,6 30 28,6 1 428.6-** 59 40 42 0,6 30 30 430-** 532-** 532-** 532-** 71 1.65 .02 1.18 33,7 1 533-** 71 533-** 71 533-** 71 52 58 0,8 30 33,7 1 535-** 71 52 58 0,8 30 40 1-1/2 538-** 71 52 58 0,8 30 41,3 1-1/2 541.3-** 71 52 58 0,8 30 44,5 1-3/4 644.5-** 86 66 66 0,8 30 50,8 2 650.8-** 3.39 2.60 2.60 .03 1.18 7 48,3 1-1/2 757.2-** 86 66 66 66 0,8 30 50,8 2 650.8-** 3.39 2.60 2.60 .03		3			1/2			50	33	36	0.6	30		
25,4 1 325.4-** 26,9 3/4 426.9-** 28 428-** 28 428-** 30 430-** 32 432-** 33,7 1 533.7-** 35 1-1/4 535-** 40 540-** 41,3 1-1/2 541.3-** 42 1-1/4 542-** 6 6 6 6 6 6 6 0,8 30 1 1/2 644.5-** 6 6 6 6 6 6 0,8 30 1 1/2 70 2-3/4 70 2-3/4 70 3.66 .03 1.18 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	3			7/8		3/4								
26,9 3/4 426.9** 59 40 42 0,6 30 28,6 1 428.6** 59 40 42 0,6 30 30 430*** 2.32 1.57 1.65 .02 1.18 32 1-1/4 532*** 71 52 58 0,8 30 33,7 1 533.7*** 71 52 58 0,8 30 40 1-1/2 538*** 71 52 58 0,8 30 41,3 1-1/2 541.3*** 71 52 58 0,8 30 44,5 1-3/4 644.5*** 86 66 66 0,8 30 50,8 2 650.8*** 3.39 2.60 2.60 .03 1.18 7 48,3 1-1/2 648.3*** 86 66 66 0,8 30 50,8 2 654.*** 3.39 2.60 2.60 .03 1.18 7 460,3 2 760.3*** 12 4.76 </th <th></th> <td>25</td> <td></td> <td></td> <td></td> <th>325-**</th> <td></td> <td></td> <td></td> <td></td> <td></td>			25				325-**							
28 428.** 59 40 42 0,6 30 30 430.** 2.32 1.57 1.65 .02 1.18 32 1-1/4 532.** 71 52 58 0,8 30 33,7 1 533.** 71 535.** 71 52 58 0,8 30 40 538.** 71 52 58 0,8 30 40 540.** 2.80 2.05 2.28 .03 1.18 41,3 1-1/2 541.3.** 2.80 2.05 2.28 .03 1.18 44,5 1-3/4 644.5.** 86 66 66 0,8 30 50,8 2 650.8.** 3.39 2.60 2.60 .03 1.18 7 48,3 1-1/2 648.3.** 86 66 66 0,8 30 50,8 2 654.** 2 654.** 3.39 2.60 2.60 .03 1.18 7 63,5 2-1/2 763.5.**			25,4	1			325.4-**							
4 28,6 1 428.6** 59 40 42 0,6 30 30 430*** 430*** 1.57 1.65 .02 1.18 32 1-1/4 532*** 71 52 58 0,8 30 33,7 1 533.7*** 71 52 58 0,8 30 40 1-1/2 538*** 71 52 58 0,8 30 40 540*** 2.80 2.05 2.28 .03 1.18 41,3 1-1/2 541.3*** 86 66 66 0,8 30 44,5 1-3/4 644.5*** 86 66 66 0,8 30 50,8 2 650.8*** 3.39 2.60 2.60 .03 1.18 7 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 7 70 2-3/4 760.3*** 12 <td< th=""><th></th><th></th><th>26,9</th><th></th><th>3/4</th><th></th><th>426.9-**</th><th></th><th></th><th></th><th></th><th></th></td<>			26,9		3/4		426.9-**							
4 28,6 1 428,6*** 2.32 1.57 1.65 .02 1.18 30 430*** 2.32 1.57 1.65 .02 1.18 32 1-1/4 532*** 71 52 58 0.8 30 33,7 1 538*** 71 52 58 0.8 30 40 540*** 540*** 2.80 2.05 2.28 .03 1.18 41,3 1-1/2 541.3*** 86 66 66 0.8 30 44,5 1-3/4 644.5*** 86 66 66 0.8 30 50,8 2 650.8*** 3.39 2.60 2.60 .03 1.18 60,3 2 757.2*** 757.2*** 12 94 93 0.8 30 70 2-3/4 770*** 770*** 4.76 3.70 3.66 .03 1.18 8 88,9 3 2-1/2 (DIN EN 10220) 776.1** 4.76 4.72 4.65 0.2 1.18 8 88,9 3 888.9*** 147 120 118 0.8 30			28				428- **	50	40	12	0.6	20		
30	4	4	28,6			1	428.6- **				-			
5 32 1-1/4 532-** 33,7 1 533.7-** 35 1-1/4 535-** 40 540-** 41,3 1-1/2 541.3-** 42 1-1/4 542-** 48,3 1-1/2 648.3-** 86 66 66 0,8 30 50,8 2 650.8-** 3.39 2.60 2.60 2.60 .03 1.18 7 60,3 2 757.2-** 12 94 93 0,8 30 70 2-3/4 770-** 4.76 3.70 3.66 .03 1.18 8 88,9 3 888.9-** 147 120 118 0,8 30 8 8 88,9 3 888.9-** 147 120 118 0,8 30							430-**	2.02	1.07	1.00	.02	1.10		
5 33,7 1 533,7*** 71 52 58 0,8 30 38 1-1/2 538*** 2.80 2.05 2.28 .03 1.18 40 540*** 540*** 2.80 2.05 2.28 .03 1.18 41,3 1-1/2 541.3*** 86 66 66 0,8 30 44,5 1-3/4 644.5*** 86 66 66 0,8 30 50,8 2 650.8** 3.39 2.60 2.60 .03 1.18 54 2 654*** 3.39 2.60 2.60 .03 1.18 60,3 2 760.3*** 12 12 94 93 0,8 30 70 2-3/4 770*** 4.76 3.70 3.66 .03 1.18 73 2-1/2 (ANSIB 36-10) 773*** 4.76 3.70 3.66 .03 1.18 8 88,9 3 888.9*** 147 120 118 0,8 30 8 8 86,9 3 888.9*** 147 120 118 0,8 30														
5 35 1-1/4 535-** 71 52 58 0,8 30 40 540-** 2.80 2.05 2.28 .03 1.18 41,3 1-1/2 541.3-** 2.80 2.28 .03 1.18 44,5 1-3/4 644.5-** 86 66 66 0.8 30 50,8 2 650.8-** 3.39 2.60 2.60 .03 1.18 54 2 654-** 3.39 2.60 2.60 .03 1.18 54 2 654-** 3.39 2.60 2.60 .03 1.18 60,3 2 760.3-** 12 4.76 3.70 3.66 .03 1.18 70 2-3/4 770-** 4.76 3.70 3.66 .03 1.18 76,1 3 2-1/2 (DIN EN 10220) 776.1-** 4.76 3.70 4.65 .02 1.18 8 88,9 3 888.9-** 147 120 118 0.8 30 12 4.72 4.72 4.72 4.75 4.72 4.75 4.75 4.75 4.75 4.75 4.75 4.75 4.75 4.75 <th></th> <td></td> <td></td> <td>1-1/4</td> <td></td> <td></td> <th></th> <td></td> <td></td> <td></td> <td></td> <td></td>				1-1/4										
5 38 1-1/2 538-** 71 52 58 0,8 30 40 540-** 2.80 2.05 2.28 .03 1.18 41,3 1-1/2 541.3-** 86 66 66 0,8 30 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 57,2 2-1/4 757.2-** 760.3-** 12 763.5-** 121 94 93 0,8 30 70 2-3/4 770-** 4.76 3.70 3.66 .03 1.18 73 2-1/2 (ANSIB 36-10) 773-** 4.76 3.70 3.66 .03 1.18 8 88,9 3 888.9-** 147 120 118 0,8 30 8 8 86,9 3 888.9-** 147 120 118 0,8 30					1									
6 38 1-1/2 538*** 2.80 2.05 2.28 .03 1.18 40 540-** 2.80 2.05 2.28 .03 1.18 41,3 1-1/2 541.3-** 86 66 66 0,8 30 42 1-3/4 644.5-** 86 66 66 0,8 30 50,8 2 650.8-** 3.39 2.60 2.60 .03 1.18 57,2 2-1/4 757.2-** 760.3-** 12 12 94 93 0,8 30 60,3 2 763.5-** 12 94 93 0,8 30 70 2-3/4 770-** 4.76 3.70 3.66 .03 1.18 76,1 3 2-1/2 (ANSIB 36-10) 773-** 147 120 118 0,8 30 8 88,9 3 888.9-** 147 120 118 0,8 30		_				1-1/4		71	52	58	0.8	30		
41,3	5	5		1-1/2						+				
6 42 1-1/4 542-** 44,5 1-3/4 644.5-** 86 66 66 0,8 30 50,8 2 650.8-** 3.39 2.60 2.60 .03 1.18 54 2 654-** 757.2-** 60,3 2 760.3-** 12 760.3-** 12 94 93 0,8 30 70 2-3/4 770-** 770-** 4.76 3.70 3.66 .03 1.18 8 88,9 3 888.9-** 147 120 118 0,8 30 8 8 8 9 3 888.9-** 147 120 118 0,8 30						4.40								
6 44,5 1-3/4 644.5*** 86 66 66 0,8 30 50,8 2 650.8*** 3.39 2.60 2.60 .03 1.18 54 2 654*** 757.2*** 860,3 2 2.60 2.60 .03 1.18 60,3 2 760.3*** 12 760.3*** 12 94 93 0,8 30 70 2-3/4 770*** 4.76 3.70 3.66 .03 1.18 73 2-1/2 (ANSIB 36-10) 773*** 776.1** 3.70 3.66 .03 1.18 8 88,9 3 888.9*** 147 120 118 0,8 30 8 8 88,9 3 888.9*** 147 120 118 0,8 30					1 1/4	1-1/2								
6 48,3 1-1/2 648.3-** 86 66 66 0,8 30 50,8 2 650.8-** 3.39 2.60 2.60 .03 1.18 54 2 654-** 77 760,3 2 760.3-** 121 94 93 0,8 30 70 2-3/4 770-** 4.76 3.70 3.66 .03 1.18 8 8 8 8 9 3 888.9-** 147 120 118 0,8 30 8 8 8 9 8 8 88.9-** 147 120 118 0,8 30				1 0/4	1-1/4									
7 7 63,5 2-1/2 763.5-** 121 94 93 0,8 30 760,1 3 2-1/2 (ANSIB 36-10) 773-** 76,1 3 2-1/2 (DIN EN 10220) 776.1-** 88,9 3 888.9-** 147 120 118 0,8 30 118				1-3/4	1-1/2			96	66	66	0.8	30		
7 7 7 63,5 2-1/2 763.5-** 121 94 93 0,8 30 760.3-** 4.76 3.70 2-3/4 770.4-* 4.76 3.70 3.66 .03 1.18 76,1 3 2-1/2 (DIN EN 10220) 776.1-** 147 120 118 0,8 30 888.9-** 147 120 118 0,8 30 6.70 1.18	6	6		2	1-1/2									
7 7 7 63,5 2-1/2 763.5-** 121 94 93 0,8 30 760.3-** 770 2-3/4 773 2-1/2 (ANSIB 36-10) 773-** 76,1 3 2-1/2 (DIN EN 10220) 776.1-** 147 120 118 0,8 30 888.9-** 147 120 118 0,8 30 65 70 4.72 4.65 0.2 1.18			-			2		0.00	2.00	2.00	.00	1.10		
7				2-1/4		_								
7				2 1/1	2									
70 2-3/4 770 770-** 4.76 3.70 3.66 .03 1.18 73 2-1/2 (ANSI B 36-10) 773-** 76,1 3 2-1/2 (DIN EN 10220) 776.1-** 8 88,9 3 888.9-** 147 120 118 0.8 30				2-1/2	_			121	94	93	0.8	30		
73 2-1/2 (ANSI B 36-10) 773-** 76,1 3 2-1/2 (DIN EN 10220) 776.1-** 8 88,9 3 888.9-** 147 120 118 0,8 30	7	7												
76,1 3 2-1/2 (DIN EN 10220) 776.1-** 8 88,9 3 888.9-** 147 120 118 0,8 30				_ 0, .	2-1/2 (ANS	SI B 36-10)			2					
8 88.9 3 888.9-** 147 120 118 0.8 30			_	3	-									
8 8 141 120 110 0,0 30					,	,			100	110		00		
102 4 3-1/2 8102L-** 5.79 4.72 4.65 .03 1.18	8	8					550.5- ~~							
			102	4	3-1/2		8102L-**	5.79	4.72	4.05	.03	1.18		

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

Dimensional drawings: All dimensions in mm (in).







STAUFF Group 1

L2 L1

STAUFF Group 1A to 8



Smooth Inside Surface without Tension Clearance

Clamp Body • Type H

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









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

Special Materials

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

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

Product Features

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

Group		Outside Diam	neter	Ordering Codes	Dimens	ions				
		Hose		(2 Clamp Halves)	(mm/in)					
STAUFF	_	Ø D1		(11)						
ST	N	(mm)	(in)	(**-H = Material)	L1	L2	Н	Width		
		6		106- ** -H						
		6,4	1/4	106.4-**-H						
		8	5/16	108- ** -H	28	9,5	26	30		
1	0	9,5	3/8	109.5-**-H	1.10	.37	1.02	1.18		
		10		110-**-H						
		12		112-**-H						
		6		106A-**-H						
		6,4	1/4	106.4A-**-H						
1A	1	8	5/16	108A-**-H	37	20	26	30		
IA		9,5	3/8	109.5A-**-H	1.46	.79	1.02	1.18		
		10		110A-**-H						
		12		112A-**-H						
		12,7	1/2	212.7-**-H						
		13,5		213.5-**-H						
		14		214- ** -H	42	26	32	30		
2	2	15		215- ** -H	1.65	1.02	1.26	1.18		
		16	5/8	216-**-H	1.00	1.02		1.10		
		17,2		217.2-**-H						
		18		218-**-H						
		19	3/4	319- ** -H						
		20		320-**-H						
3	3	21,3		321.3-**-H	50	33	35,5	30		
	0	22	7/8	322- ** -H	1.97	1.30	1.40	1.18		
		25		325- ** -H						
		25,4	1	325.4-**-H						
		26,9		426.9- ** -H						
ı	4	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						
		33,7		533.7- ** -H						
5	5	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						
3	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	2	654- ** -H						
		57,2	2-1/4	757.2- ** -H						
		60,3	0.110	760.3-**-H						
,	7	63,5	2-1/2	763.5- ** -H	121	94	92	30		
		70	2-3/4	770- ** -H	4.76	3.70	3.62	1.18		
		73		773- ** -H						
		76,1	3	776.1- ** -H						
В	8	88,9		888.9- ** -H	147	120	116	30		
-	~	102	4	8102L-**-H	5.79	4.72	4.57	1.18		

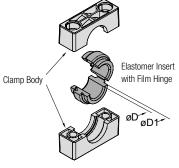
Additional outside diameters are available upon request. Please contact STAUFF for further information.

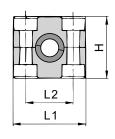
www.stauff.com/1/en/#15



Clamp Body with Elastomer Insert Type RI







Ordering Codes	
Clamp Assembly *4*06-*	PP-R
One assembly is consisting of one clamp body and on	e insert.
* STAUFF Group	4
* Exact outside diameter Ø D (mm)	06
* Material code (see below)	PP-R
Clamp Body *4-*	PP-R
One clamp body is consisting of two clamp halves.	
* STAUFF Group	4
* Material code (see below)	PP-R
Elastomer Insert *RI-*06-*	4/4\$
* Elastomer Insert	RI
* Exact outside diameter Ø D (mm)	06
* STAUFF Group 4 (Standard) and 4S (Heavy)	4/4S
6 (Standard) and 5S (Heavy)	6/5S

Stand			



Polypropylene Colour: Black Material code: PP-R



Polyamide Colour: Black Material code: PA-R

Colour: Black



Elastomer Insert Thermoplastic Elastomer (73 Shore-A)

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

Special Materials

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

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

Product Features

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

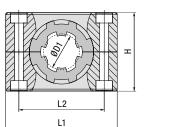
Group Outside Diamete							Dimensions					
STAUFF	Pipe / Tube / Hose		Clamp Assembly (Clamp Body +	embly Clamp Body Insert *		(^{mm} / _{in})						
ST/		(mm)	(in)	Insert)	(2 Clamp Halves)		Ø D1	L1	L2	Н	Width	
		6		406- ★★ -R		RI-06-4/4S						
		8	5/16	408- ** -R		RI-08-4/4S						
		10		410- ** -R		RI-10-4/4S						
		12		412- ** -R		RI-12-4/4S						
4		12,7	1/2	412.7- ** -R		RI-12.7-4/4S				41,2		
	4	14		414- ** -R	4-**-R	RI-14-4/4S	.98	2.32	1.57		1.18	
		15		415- ** -R		RI-15-4/4S						
		16	5/8	416- ** -R		RI-16-4/4S						
		17,2		417.2- ** -R		RI-17.2-4/4S						
		18		418- ** -R		RI-18-4/4S						
		19	3/4	419- ** -R		RI-19-4/4S						
		20		620- ** -R		RI-20-6/5S						
		21,3		621.3- ** -R		RI-21.3-6/5S						
		22	7/8	622- ** -R		RI-22-6/5S						
6	6	25		625- ** -R	6- ** -R	RI-25-6/5S	38	86	66	64,5	30	
0	0	26,9		626.9- ** -R	0- ቶቶ -በ	RI-26.9-6/5S	1.50	3.39	2.60	2.54	1.18	
		28		628- ** -R		RI-28-6/5S						
		30		630- ** -R		RI-30-6/5S						
		32	1-1/4	632- ** -R		RI-32-6/5S						

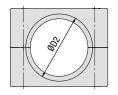
Elastomer Inserts for Standard Series clamp bodies, STAUFF Group 4 also fit into Heavy Series clamp bodies, STAUFF Group 4S. Elastomer Inserts for Standard Series clamp bodies, STAUFF Group 6 also fit into Heavy Series clamp bodies, STAUFF Group 5S.

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



Noise Reduction Clamp Type NRC









STAUFF Group		Outside Pipe / Tu Ø D1	Diameter Ibe	Ordering Codes Clamp Assembly (Clamp Body +	Clamp Body	NRC Insert	Dimensions (mm/in)					
ST	N O	(mm)	(in)	NRC Insert)	(2 Clamp Halves)	(2 Insert Halves)	ØD2	ØD3	L1	L2	Н	Width
		6		206-PP-NRC		RI-NRC-6-2						
		8	5/16	208-PP-NRC		RI-NRC-8-2						
2	2	10		210-PP-NRC	2-PP-NRC	RI-NRC-10-2	.98	26 1.02	42 1.65	26 1.02	32 1.26	30 1.18
		12		212-PP-NRC		RI-NRC-12-2			1.00		1120	
		12,7	1/2	212.7-PP-NRC		RI-NRC-12.7-2						
		14		314-PP-NRC		RI-NRC-14-3						
3	3	15		315-PP-NRC	3-PP-NRC	RI-NRC-15-3	1.10	29	50 1.97	1.30	35,5 1.40	30 1.18
		16	5/8	316-PP-NRC		RI-NRC-16-3						
4	4	18		418-PP-NRC	4-PP-NRC	RI-NRC-18-4	34	35	59	40	41,5	30
4 4	4	20		420-PP-NRC	4-FF-NNG	RI-NRC-20-4	1.34	1.38	2.32	1.57	1.63	1.18
		21,3		521.3-PP-NRC		RI-NRC-21.3-5						
		22	7/8	522-PP-NRC		RI-NRC-22-5						
		25		525-PP-NRC		RI-NRC-25-5						
5	5	26,9		526.9-PP-NRC	5-PP-NRC	RI-NRC-26.9-5		1.97	71 2.80	52 2.05	56,5	30
		28		528-PP-NRC		RI-NRC-28-5						
		30		530-PP-NRC		RI-NRC-30-5						
		32	1-1/4	532-PP-NRC		RI-NRC-32-5						
		33,7		633.7-PP-NRC		RI-NRC-33.7-6						
		35		635-PP-NRC		RI-NRC-35-6						
6	6	38	1-1/2	638-PP-NRC	6-PP-NRC	RI-NRC-38-6	60 2.36	61 2.40	86 3.39	66 2.60	64,5 2.54	30 1.18
		40		640-PP-NRC		RI-NRC-40-6						
		42		642-PP-NRC		RI-NRC-42-6						

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
- \blacksquare Suitable for the most common outside diameters from 6 to 42 mm and from $\,1\!\!/_{\!2}$ 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

* Exact outside diameter Ø D1 (mm) 12

* Material code (see below) PP-NRC

NRC Clamp Body *2-*PP-NRC

One NRC clamp body is consisting of two clamp halves.

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

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

One NRC elastomer insert is consisting of two insert halves.

Standard Materials



Polypropylene Colour: Black Material code: PP-NRC



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

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

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

Special Materials

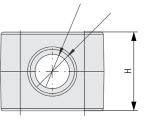
Please contact STAUFF for further details on fire-proof clamp body materials, tested and approved according to several international fire-protection standards (such as BS 6853, EN 45545-2, UL 94 and many more).

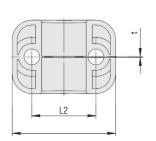
See pages 156 / 157 for material properties and technical information.

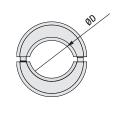
Clamp Body for Conduit Hoses and Cable Inserts

Type CHC









Ordering Codes

Clamp Assembly

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

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

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

CHC Clamp Body

*3*17-*PA-CHC

One CHC Clamp Body is consisting of two clamp halves.

* STAUFF Group	3
* Nominal Size of the Conduit Hose	17
* Material code clamp hody (see helow)	DV-CHU

CHC Elastomer Insert

*RI-CHC-*10/14*3*SA-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)	SA-VO

Gro	oup	Nominal	ØD (mm/in)	Ordering Codes (*	= Material)		Dime	ensior	18						
出	Size Cable		Cable	Clamp Assembly	Clamp Body	CHC-Insert	(^{mm} /in)								
STAUFF	N N	Conduit		(Clamp Body +											
S		Hose		Insert)	(2 Halves)	(2 Halves)	ØD1	ØD2	t	L1	L2	Н	Width		
		10	6 8		210-*		13	11	0,5	42	26	32	30		
2	2	10	.2431		210-4		.51	.43	.02	1.65	1.02	1.26	1.18		
	-	12	8 10		212-*		16	13,5	0,5	42	26	32	30		
		12	.3139		212-4		.63	.53	.02	1.65	1.02	1.26	1.18		
	7	7 10	317-7/10-*-*	317-*	RI-CHC-7/10-3-*										
3	_	17	.2839	311-1/10- ক-ক	317-4	NI-U∏U-1/ IU-3- ∓	21,5	18	0,7	50	33	35,5	30		
3	3	17	10 14	047.40/44.4.4.	047	DI 0110 40/44 0 4	.85	.71	.03	1.97	1.30	1.40	1.18		
			.3955	317-10/14-*-*	317-*	RI-CHC-10/14-3-*									
			14 18		423-*	400 4	400 4	DI 0110 44/40 4 4							
١.		23	.5571	423-14/18-*-*		RI-CHC-14/18-4-*	29	24,5	0,7	59	40	41,5	30		
4	4		18 20				1.14	.96	.03	2.32	1.57	1.63	1.18		
			.7179		423- *										
		00	20 26,9				35	30,5	1,0	71	52	56,5	30		
_		29	.79 1.06		529 -*		1.38	1.20	.04	2.80	2.05	2.22	1.18		
5	5		26,9 33,7		536-*		43	38,5	1,0	71	52	56,5	30		
		36	1.06 1.33				1.69	1.52	.04	2.80	2.05	2.22			
			33,7 42				55	49,5	1,0	86	66	64,5	-		
6	6	48	1.33 1.65		648- *			1.95	-		_	2.54	_		

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



Polvamide 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: SA Elastomer Insert



fire-proof clamp body material made of Thermoplastic Elastomer (86 Shore-A)

Colour: White Material code: SA-VO

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

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

Recommended Bolt Lengths (Socket Cap Screw IS)

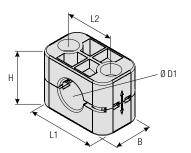
for use without Cover Plate DP, assembly with Weld Plate SP, Hexagon Rail Nut SM and Channel Rail Adaptor CRA.

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

See page 30 for further information on ordering.

www.stauff.com/1/en/#18





For Use with Regular Hose

(in)

.75

.87

1.00

Outside Diameter

Regular Hose

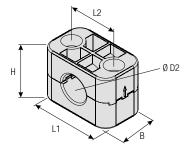
Ø D1

(mm)

19

22,2

25.4



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

35,5

1.30 1.40

Regular Hose Compact Hose B

34

1 34

Dimensions (mm/in)

L2

50 | 33

1.97



Clamp Body • Compact Design

Type CC

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

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

Outside Diameter

(in)

.69

.81

93

Compact Hose

Ø D2

(mm)

17.4

20,6

23.7

Product Features

3

Group

- 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 diamaters
- Outer dimensions according to DIN 3015, Part 1
- Effective cost reduction due to lower inventories

Special Materials

Ordering Codes

(2 Clamp Halves)

319-**-*-CC-BK

322.2-**-*-CC-BK

325.4-**-*-CC-BK

(**-* = Material) L1

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

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

Standard Materials



30

1.18

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

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

Ordering Codes

One clamp body is consisting of two clamp halves.

Clamp Body

540-40-PP-VK

Rectangular design with a square of 40 mm x 40 mm / 1.57 in x 1.57 in

Clamp Body

540-36-PP-VK

Rectangular design with a square of 40 mm x 36 mm / 1.57 in x 1.42 in

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

Product Features

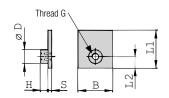
- Outer dimensions of clamp body according to Standard Series, STAUFF Group 5
- For proximity switches according to DIN EN 60947-5-2 or similar, rectangular construction, with a square of 40 mm x 40 mm / 1.57 in x 1.57 in or 40 mm x 36 mm / 1.57 in x 1.42 in
- For proximity switches according to DIN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

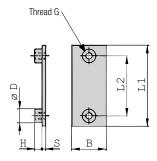
Clamp Body • Rectangular Design Type VK



Single Weld Plate Type SP







STAUFF Group 1

STAUFF Group 1A to 8

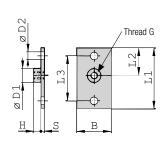
Ordering C	odes	
Weld Plate	*SP-*1-*M-*	W2
* Single Weld Plat	te	SP
* STAUFF Group		1
* Thread code	Metric ISO thread Unified coarse (UNC) thread	M U
* Material code	Carbon Steel, phosphated Carbon Steel, zinc/nickel-plated	W2 W3
	Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303)	W4
	Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)	W5
	Aluminium EN AW-6060 (Dimension S: 5 mm / .20 in)	W85

Group		Dimensions (m	m/in)						Ordering Codes
STAUFF	DIN	Thread G	L1	L2	В	S	Н	ØD	(Standard Options)
1	0	M6	31,5	10	30	3	6,5	12	SP-1-M-W2
1	U	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
2	3 3	M6	50	33	30	3	6,5	12	SP-3-M-W2
3		1/4-20 UNC	1.97	1.30	1.18	.12	.26	.47	SP-3-U-W2
	4	M6	60	40	30	3	6,5	12	SP-4-M-W2
4	4	1/4-20 UNC	2.36	1.57	1.18	.12	.26	.47	SP-4-U-W2
-	5	M6	71	52	30	3	6,5	12	SP-5-M-W2
5	5	1/4-20 UNC	2.80	2.05	1.18	.12	.26	.47	SP-5-U-W2
c	6	M6	88	66	30	3	6,5	12	SP-6-M-W2
6	О	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	1/4-20 UNC	4.80	3.70	1.18	.20	.26	.47	SP-7-U-W2
^	0	M6	148	120	30	5	6,5	12	SP-8-M-W2
8	8	1/4-20 UNC	5.83	4.72	1.18	.20	.26	.47	SP-8-U-W2

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

Elongated Weld Plate Type SPV





Thread G \bigoplus

STAUFF Group 1

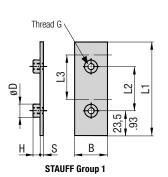
STAUFF Group 1A to 8

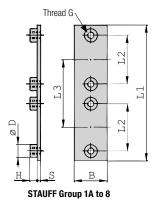
			Group		Dimensions (mm/in)		
Ordering C	odes		STAUFF	DIN	Thread G	L1	
3.			1	0	M6	58	
Weld Plate	*SPV-*1-*M-*	W2	'	U	1/4-20 UNC	2.28	
			1A	1	M6	64	
* Elongated Weld	Plate	SPV	IA.	1	1/4-20 UNC	2.52	
# OTAUEE 0		_	2	2	M6	70	
* STAUFF Group		1			1/4-20 UNC	2.76	
* Thread code	Metric ISO thread	М	3	3	M6	78	
	Unified coarse (UNC) thread	U	3	J	1/4-20 UNC	3.07	
			4	4	M6	87	
* Material code	Carbon Steel, phosphated	W2	7	7	1/4-20 UNC	3.43	
	Carbon Steel, zinc/nickel-plated	W3	5	5	M6	100	
	Stainless Steel V2A		J	J	1/4-20 UNC	3.94	
	1.4301 / 1.4305 (AISI 304 / 303)	W4	6	6	M6	115	
	Stainless Steel V4A		U	U	1/4-20 UNC	4.53	
	1.4401 / 1.4571 (AISI 316 / 316 Ti)	W5	7	7	M6	150	
	, , , , , , , , , , , , , , , , , , , ,		1	1	1/4-20 UNC	5.91	
			8	8	M6	178	

Group		Dimensions (mm	/in)								Ordering Codes
STAUFF	DIN	Thread G	L1	L2	L3	В	S	Н	ØD1	ØD2	(Standard Options)
4	0	M6	58	24,5	44	30	3	6,5	12	6,5	SPV-1-M-W2
1	U	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
IA	'	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
2	2	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
3	3	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
4	4	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
5	5	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
U	U	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	1/4-20 UNC	5.91	3.70	5.35	1.18	.20	.26	.47	.26	SPV-7-U-W2
	0	M6	178	120	162	30	5	6,5	12	6,5	SPV-8-M-W2
8	8	1/4-20 UNC	7.01	4.72	6.38	1.18	.20	.26	.47	.26	SPV-8-U-W2

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







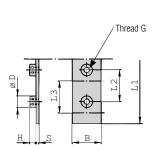




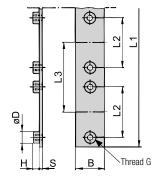
Group		Dimensions (mm	/in)							Ordering Codes
STAUFF	DIN	Thread G	L1	L2	L3	В	S	Н	ØD	(Standard Options)
1	0	M6	87	40	40	30	3	6.5	12	DSP-1-40-M-W2
'	0	1/4-20 UNC	3.43	1.57	1.57	1.18	.12	.26	.47	DSP-1-40-U-W2
1A	1	M6	77	20	37	30	3	6.5	12	DSP-1A-37-M-W2
IA	'	1/4-20 UNC	3.03	.79	1.46	1.18	.12	.26	.47	DSP-1A-37-U-W2
2	2	M6	86	26	44	30	3	6.5	12	DSP-2-44-M-W2
2	2	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
J	3	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
4	4	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
Э	5	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
О	6	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									
* STAUFF Group									
* Pipe center spacing L3 (mm)									
* Thread code	Metric ISO thread Unified coarse (UNC) thread	M U							
* Material code	Carbon Steel, phosphated Carbon Steel, zinc/nickel-plated	W2 W3							
	Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303) Stainless Steel V4A	W4 W5							
	1.4401 / 1.4571 (AISI 316 / 316 Ti)	CAA							







STAUFF Group 1A to 8

Group		Dimensions (mn	Dimensions (mm/in)										
STAUFF	DIN	Thread G	L1	L2	L3	В	S	Н	ØD	(Standard Options)			
	0	M6	314	31	31	30	4	6,5	12	RAP-1-31-10-M-W1			
1	U	1/4-20 UNC	12.36	1.22	1.22	1.18	.16	.26	.47	RAP-1-31-10-U-W1			
4.6	4	M6	373	20	37	30	4	6,5	12	RAP-1A-37-10-M-W1			
1A 1		1/4-20 UNC	14.69	.79	1.46	1.18	.16	.26	.47	RAP-1A-37-10-U-W1			
2 2	2	M6	442	26	44	30	4	6,5	12	RAP-2-44-10-M-W1			
	2	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			
3	3	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			
4	4	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			
5	5	1/4-20 UNC	14.88	2.05	2.95	1.18	.16	.26	.47	RAP-5-75-5-U-W1			
c	6	M6	450	66	90	30	4	6,5	12	RAP-6-90-5-M-W1			
6	6	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 Co	odes
Weld Plate	*RAP-*1-*31-*10-*M-*W1

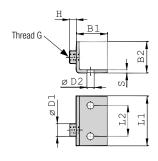
* Group Weld Plate for 5 or 10 Clamp Bodies								
* STAUFF Group								
* Pipe center spacing L3 (mm)								
* Number of clamps								
* Thread code	Metric ISO thread Unified coarse (UNC) thread	M U						
* Material code	Carbon Steel, phosphated Carbon Steel, zinc/nickel-plated	W2 W3						
	Stainless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

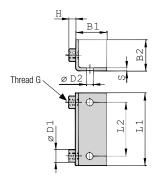
Dimensional drawings: All dimensions in mm (in).



Angled Weld Plate Type WSP







STAUFF Group 1

STAUFF Group 1A to 6

Ordering Codes

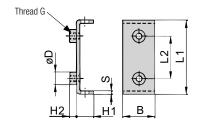
Weld Plate	*WSP-*1-*M-*	W1
* Angled Weld Pla	ite	WSP
* STAUFF Group		1
* Thread code	Metric ISO thread Unified coarse (UNC) thread	M U
* Material code	Carbon Steel, zinc/nickel-plated	W3
	Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303) Stainless Steel V4A	W4 W5
	1.4401 / 1.4571 (AISI 316 / 316 Ti)	W5

Group		Dimensions ("	^{im} /in)								Ordering Codes
STAUFF	DIN	Thread G	L1	L2	B1	B2	S	Н	ØD1	ØD2	(Standard Options)
1	0	M6	30	14	30	30	3	6,5	12	6,5	WSP-1-M-W1
'	0	1/4-20 UNC	1.18	.55	1.18	1.18	.12	.26	.47	.26	WSP-1-U-W1
1A	1	M6	36	20	30	30	3	6,5	12	6,5	WSP-1A-M-W1
IA		1/4-20 UNC	1.26	.79	1.18	1.18	.12	.26	.47	.26	WSP-1A-U-W1
2	2	M6	42	26	30	30	3	6,5	12	6,5	WSP-2-M-W1
2		1/4-20 UNC	1.65	1.02	1.18	1.18	.12	.26	.47	.26	WSP-2-U-W1
3	3	M6	50	33	30	30	3	6,5	12	6,5	WSP-3-M-W1
3		1/4-20 UNC	1.97	1.30	1.18	1.18	.12	.26	.47	.26	WSP-3-U-W1
4	4	M6	60	40	30	30	3	6,5	12	6,5	WSP-4-M-W1
4	4	1/4-20 UNC	2.36	1.57	1.18	1.18	.12	.26	.47	.26	WSP-4-U-W1
-	_	M6	70	52	30	30	3	6,5	12	6,5	WSP-5-M-W1
5	5	1/4-20 UNC	2.76	2.05	1.18	1.18	.12	.26	.47	.26	WSP-5-U-W1
_	_	M6	88	66	30	30	3	6,5	12	6,5	WSP-6-M-W1
6	6	1/4-20 UNC	3.46	2.60	1.18	1.18	.12	.26	.47	.26	WSP-6-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.

Bridge Weld Plate Type BSP





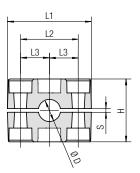
Ordering Codes

Weld Plate	*BSP-*1A-*M-*\	N 1
* Bridge Weld Plat	e	BSP
* STAUFF Group		1A
* Thread code	Metric ISO thread Unified coarse (UNC) thread	M U
* Material code	Carbon Steel, phosphated Carbon Steel, zinc/nickel-plated	W2 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	В	S	H1	H2	ØD	(Standard Options)
1A	4	M6	48	20	30	3	13	6,5	12	BSP-1A-M-W1
IA	1	1/4-20 UNC	1.89	.79	1.18	.12	.52	.26	.47	BSP-1A-U-W1
2	2	M6	54	26	30	3	13	6,5	12	BSP-2-M-W1
2	2	1/4-20 UNC	2.13	1.02	1.18	.12	.52	.26	.47	BSP-2-U-W1
3	3	M6	62	33	30	3	13	6,5	12	BSP-3-M-W1
3	3	1/4-20 UNC	2.44	1.30	1.18	.12	.52	.26	.47	BSP-3-U-W1
4	4	M6	71	40	30	3	13	6,5	12	BSP-4-M-W1
4	4	1/4-20 UNC	2.80	1.57	1.18	.12	.52	.26	.47	BSP-4-U-W1
5	5	M6	85	52	30	3	13	6,5	12	BSP-5-M-W1
5	5	1/4-20 UNC	3.35	2.05	1.18	.12	.52	.26	.47	BSP-5-U-W1
c	6	M6	98	66	30	3	13	6,5	12	BSP-6-M-W1
6	U	1/4-20 UNC	3.86	2.60	1.18	.12	.52	.26	.47	BSP-6-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 5

Group		Outside	Diameter	Nomina	l Bore	Ordering Codes	Dime	nsions	3				
		Pipe / T	ube		Copper Tube	(2 Clamp	(mm/in)					
		Ø D		Pipe	ASTM B88	Halves)							
STAUFF	DIN	(mm)	(in)	(in)	(in)	(** = Material)	L1	L2	L3	Н	S min.	Width	
		20				520-**-MGR							
		21,3		1/2		521.3-**-MGR							
		22			3/4	522-**-MGR							
		23				523-**-MGR						30 1.18	
		25				525- ★★ -MGR							
		26,9		3/4		526.9-**-MGR							
_	_	28				528-**-MGR	71	52	26	58	0,8	30	
5	5	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						30	
		38	1-1/2			538-**-MGR							
		40				540-**-MGR							
		42		1-1/4		542-**-MGR	1						

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

Clamp Body for Multi-Group Weld Plate Type MGR



Ordering Codes	
Clamp Body *5*20-*PP-MG	R
One clamp body is consisting of two clamp halves.	
* STAUFF Group * Exact outside diameter Ø D1 (mm) * Material code (see below) PP-M	5 20 GR

Standard Materials



Polypropylene Colour: Green Material code: PP-MGR



Polyamide Colour: Black Material code: PA-MGR

See pages 154 / 155 for properties and technical information.

Multi-Group Weld Plates (type RAP-MGR) are designed to be used in combination with Standard Series clamp bodies, STAUFF Group 2 (regular types, see pages 14 ff.) covering a diamater range from 8 mm / .31 in to 18 mm / .71 in, as well as Standard Series clamp bodies, STAUFF Group ${\bf 5}$ (type MGR, see above) covering a diamater 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	Multi-Group Weld Plate RAP-MGR-25-312-M-W1								
Number of	Dimensions (mm/in)							Ordering Codes	
Weld Nuts	Thread G	L3	L4	В	S	Н	ØD	(Standard Options)	
c	M6	26	156	30	4	6,5	12	RAP-MGR-25-156-M-W1	
6	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	
9	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	
12	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	
15	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	
20	1/4-20 UNC	1.02	20.47	1.18	.16	.26	.47	RAP-MGR-25-520-U-W1	

igoplus

igotharpoons

В

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

700

27.55

26

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

30

1.18

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



Ordering	Codes			
Wald Diete	*DAD	MCD	*0=	*450

Weiu Plate	TAP-IVIUN- 25- 150- IVI-	VV I
* Multi Group We	ld Plate RAP-	MGR
* Suitable for STA	AUFF Group 2 and 5 (only type MGR)	25
* Length L4 (mm)	156 (with 6 weld nuts) 234 (with 9 weld nuts)	156 234
	312 (with 12 weld nuts)	312
	390 (with 15 weld nuts) 520 (with 20 weld nuts)	390 520
* Thursdands	700 (with 27 weld nuts)	700
* Thread code	Metric ISO thread Unified coarse (UNC) thread	M U
* Material code	Carbon Steel, uncoated	W1
	Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)	W5



27

M6

6,5

12

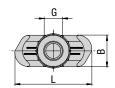
RAP-MGR-25-700-M-W1

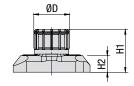
RAP-MGR-25-700-U-W1



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







Ordering C Hexagon Rail	odes Nut *SM-*1-8/1D-*M-*W3
* Hexagon Rail No	ıt SM
* STAUFF Group	1 to 8 (DIN Group 0 to 8) 1-8/1D
* Thread code	Metric ISO thread M Unified coarse (UNC) thread U
* Material code	Carbon Steel, zinc/nickel-plated W3
	Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303) W4
	Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti) W5

Group		Dimensions (mn	¹ /in)					Ordering Codes
STAUFF	DIN	Thread G	L	В	H1	H2	ØD	(Standard Options)
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	1.00 .4	.41	.56	56 .22	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

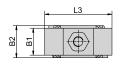
Ordering C	odes	
Mounting Ra	il *TS-*11-*1M-*W1	
* Mounting Rail	TS	
* Height of rail	11 mm / .43 in 11 14 mm / .55 in 14 30 mm / 1.18 in 30	
* Length of rail	1 m / 3.28 ft 1M 2 m / 6.56 ft 2M	
	Alternative lengths available upon request. Contact STAUFF for further information.	
* Material code	Carbon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

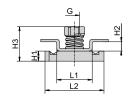
Group STAUFF	DIN	Dimensions (mages)	"/ _{in}) B2	S	Ordering Codes (Standard (Length of Rail: 1 m / 3.28ft	Options) Length of Rail: 2m / 6.56ft	
STAUFF		DI	DZ	3	Lengur or nam. Tim/ 3.2011	Lengur of hall. 2111/ 0.3011	
1	0						
1A	1				Height 11 mm / .43 in TS-11-1M-W1	Height 11 mm / .43 in TS-11-2M-W1	
2	2						
3	3						
4	4	1.10	.43	.08	Height 14 mm / .55 in TS-14-1M-W1	Height 14 mm / .55 in TS-14-2M-W1	
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						

 $\label{lem:mounting Rails, type TS-11/14/30} \ are \ suitable \ for \ all \ Standard \ Series \ and \ Twin \ Series \ group \ sizes.$ $Alternative\ materials\ and\ surface\ finishings\ are\ available\ upon\ request.\ Contact\ STAUFF\ for\ further\ information.$



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







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

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

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

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

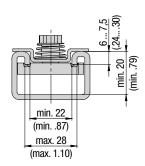


Compatibility with Channel Rails

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

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

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



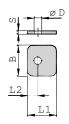
Basic dimensional requirements for channel rails to be used with STAUFF Channel Rail Adaptors, type CRA

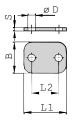
Dimensional drawings: All dimensions in mm (in).



Cover Plate Type DP







STAUFF Group 1

STAUFF Group 1A to 8

Ordering C	odes	
Cover Plate	*DP-*1-*	W3
* Cover Plate		DP
* 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
	Aluminium EN AW-6060	W85

Group		Dimensions (n	^{nm} /in)				Ordering Codes
STAUFF	DIN	L1	L2	В	S	ØD	(Standard Options)
1	0	28	9,5	30	3	7	DP-1-W3
'	U	1.10	.37	1.18	.12	.28	DF-1-W3
1A	1	34	20	30	3	7	DP-1A-W3
IA	1	1.34	.79	1.18	.12	.28	DF-IM-W3
2	2	40,5	26	30	3	7	DP-2-W3
2		1.59	1.02	1.18	.12	.28	DF-2-W3
3	3	48	33	30	3	7	DP-3-W3
3	J	1.89	1.30	1.18	.12	.28	DF-3-W3
4	4	57	40	30	3	7	DP-4-W3
4	4	2.24	1.57	1.18	.12	.28	DF-4-W3
5	5	70	52	30	3	7	DP-5-W3
3	J	2.76	2.05	1.18	.12	.28	DF-3-W3
6	6	86	66	30	3	7	DP-6-W3
U	U	3.39	2.60	1.18	.12	.28	טר-ט-พง
7	7	118	94	30	5	7	DP-7-W3
′	1	4.65	3.70	1.18	.20	.28	טר-1-אס
8	8	144	120	30	5	7	DP-8-W3
0	0	5.67	4.72	1.18	.20	.28	DL-0-M9

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

Hexagon Head Bolt

Ordering Codes

(for Use with Cover Plate DP)

Type AS





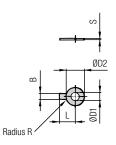
 $\textbf{Hexagon Head Bolt AS} \ (according to \ DIN\ 931\ /\ 933\ or\ ANSI\ /\ ASME\ B18.2.1.)$ Dimensions applicable only when used with Cover Plate DP

ordoring oddoo	
Hexagon Head Bolt	*AS-*M6x30-*W3
(accord	on Head Bolt ling to DIN 931 / 933 AS I / ASME B18.2.1.)
* Thread type and size acc	c. to dimension table M6x30
* Material code Carbon	Steel, zinc/nickel-plated W3
1.4301	ss Steel V2A / 1.4305 (AISI 304 / 303) W4
	ss Steel V4A / 1.4571 (AISI 316 / 316 Ti) W5

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

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





Safety Washer 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	Group Dimensions (mm/in)							Ordering Codes	
STAUFF	DIN	ØD1	В	ØD2	L	R	S	(Standard Options)	
1 to 8	0 to 8	6,4	7	19	18	4	0,5	SI-6.4-DIN93-W3	
1 10 6	0 10 6	.25	.28	.75	.71	.16	.02	31-0.4-DIN93-W3	
		.20	.20	./3	./ 1	.10	.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

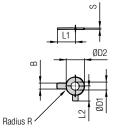
Safety Washer *SI-*6.4-*DIN93-*W3

* Type of washer Safety washer with 1 tab SI-6.4-DIN93

(according to DIN 93) * Material code Carbon Steel, zinc/nickel-plated

Stainless Steel V4A

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		Dimension	ns (^{mm} /in)						Ordering Codes
STAUFF	DIN	ØD1	В	ØD2	L1	L2	R	S	(Standard Options)
1 to 8	0 to 8	6,4	7 .28	.47	.71	9 .35	.16	0,5	SI-6.4-DIN463-W3

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 SI-6.4-DIN463

(according to DIN 463)

* Material code Carbon Steel, zinc/nickel-plated W3

Stainless Steel V4A

1.4401 / 1.4571 (AISI 316 / 316 Ti)



Socket Cap Screw Slotted Head Screw Type IS Type LI









Socket Cap Screw IS

Slotted Head Screw LI (according to ISO 4762 or ANSI / ASME B18.3)

(according to ISO 1207 or ANSI / ASME B18.6.3) Dimensions applicable only when used without Cover Plate DP Dimensions applicable only when used without Cover Plate DP

Uraering C	oaes			
Socket Cap S Slotted Head		-*M6x30-*\ -*M6x30-*\		
* Type of bolt	Socket Cap Screw ISO 4762 or ANSI / Slotted Head Screv ISO 1207 or ANSI /	ASME B18.3) w (according to	IS LI	
Please note:	Socket cap screws screws LI have to with washers US, v separately.	be used in conjun	ction	
* Thread type and	size acc. to dimens	sion table M 6	6x30	
* Material code	Carbon Steel, zinc/ Stainless Steel V2/ 1.4301 / 1.4305 (/ Stainless Steel V4/ 1.4401 / 1.4571 (/	A AISI 304 / 303) A	W3 W4 W5	

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

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

Hexagon Head Bolt Type AS









Hexagon Head Bolt AS

(according to DIN 931 / 933 or ANSI / ASME B18.2.1.) Dimensions applicable only when used with Inserts $\ensuremath{\mathsf{EP}}\,/\,\ensuremath{\mathsf{ES}}$

_	Г	2	_	
		ı		
				H
	D	1		

Insert EP (Polypropylene) Insert ES-W3 (Steel, zinc/nickel-plated) Insert ES-W5 (Stainless Steel V4A)

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

Ordering Codes

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

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

* Thread type and size acc. to dimension table M6x27

* 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)

W4

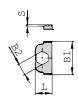
Group		Dimensions (mm/in)	Ordering Codes
STAUFF	DIN	Thread G x L	(Standard Options)
1	0	M6 x 27	AS-M6x27-W3
'	U	1/4-20 UNC x 1-1/8	AS-1/4-20UNCx1-1/8-W3
1A	1	M6 x 27	AS-M6x27-W3
IA	'	1/4-20 UNC x 1-1/8	AS-1/4-20UNCx1-1/8-W3
2	2	M6 x 32	AS-M6x32-W3
2		1/4-20 UNC x 1-3/8	AS-1/4-20UNCx1-3/8-W3
3	3	M6 x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

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





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







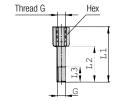
STAUFF Group 1

STAUFF Group 1A to 8

Group		Dimensions ((^{mm} /in)	Ordering Codes		
STAUFF	DIN	L	B1	B2	S	(Standard Options)
1	0	16	32	11,2	1	SIG-1-W3
1 0	0	.63	1.26	.44	.04	31d-1-W3
1A	1	33	28	11,2	1	SIG-1A-W3
IA	'	1.30	1.10	.44	.04	Sid-IA-W3
2	2	39	28	11,2	1	SIG-2-W3
2	2	1.54	1.10	.44	.04	31G-2-W3
3	3	47	28	11,2	1	SIG-3-W3
J	3	1.85	1.10	.44	.04	31u-3-w3
4	4	56	28	11,2	1	SIG-4-W3
4	4	2.20	1.10	.44	.04	51G-4-W3
5	5	69	28	11,2	1	SIG-5-W3
o o	5	2.72	1.10	.44	.04	51G-5-W3
c	6	85	28	11,2	1	SIG-6-W3
6	0	3.35	1.10	.44	.04	51G-6-W3
7	7	117	28	11,2	1	SIC 7 W2
7	1	4.61	1.10	.44	.04	SIG-7-W3
0	0	143	28	11,2	1	CIC O WO
8	8	5.63	1.10	.44	.04	SIG-8-W3

Ordering Codes							
Safety Lockin	g Plate *SIG-*1-*\	W3					
* Safety Locking F	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					

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



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



Group		Dimensions (n	^{lm} /in)	Ordering Codes			
STAUFF	DIN	Thread G	L1	L2	L3 min.	Hex	(Standard Options)
1	0	M6	34	20	12	11	AF-1/1A/1D-M-W3
1	0	1/4-20 UNC	1.34	.79	.47	.43	AF-1/1A/1D-U-W3
1A	1	M6	34	20	12	11	AF-1/1A/1D-M-W3
IA	1	1/4-20 UNC	1.34	.79	.47	.43	AF-1/1A/1D-U-W3
2	2	M6	40	25	12	11	AF-2-M-W3
		1/4-20 UNC	1.57	.98	.47	.43	AF-2-U-W3
3	3	M6	44	30	12	11	AF-3-M-W3
3	J	1/4-20 UNC	1.73	1.18	.47	.43	AF-3-U-W3
4	4	M6	49	35	12	11	AF-4-M-W3
4	4	1/4-20 UNC	1.93	1.38	.47	.43	AF-4-U-W3
5	5	M6	64	50	12	11	AF-5-M-W3
J	J	1/4-20 UNC	2.52	1.97	.47	.43	AF-5-U-W3
6	6	M6	74	60	12	11	AF-6-M-W3
U	0	1/4-20 UNC	2.91	2.36	.47	.43	AF-6-U-W3
7	7	M6	99	85	12	11	AF-7-M-W3
′	′	1/4-20 UNC	3.90	3.35	.47	.43	AF-7-U-W3
8	8	M6	124	110	12	11	AF-8-M-W3
0	0	1/4-20 UNC	4.88	4.33	.47	.43	AF-8-U-W3

Ordering Codes								
Stacking Bolt	*AF-*1/1A/1D-*M-*\	N3						
* Type of bolt	Stacking Bolt (according to STAUFF Standard)	AF						
* STAUFF Group		1						
* Thread code	Metric ISO thread Unified coarse (UNC) thread	M 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.







1 Type of Installation

Please select the type of installation (e.g. Weld Plates, Rail Nuts etc.) and add the corresponding Code to position $\ensuremath{\textcircled{1}}$ 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)

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	Δvailahi	lity of Cla	mn	
aroup	Diameter	Body Ma			
STAUFF	P/T/H	Profiled	lei iais &	Designs	
(DIN)	(mm)	Design	Type H	Type RI	Code
(DIN)	6	Design	- Type II	О	106
	6,4	•	•	0	106.4
1	8	•	•	0	108
1 (0)	9,5	•	•	0	109.5
	10	•	•	0	110
	12	•	•	0	112
	6	•	•	0	106A
	6,4	•	•	0	106.4A
1A	8	•	•	0	108A
(1)	9,5	•	•	0	100A
(.)	10	•	•	0	110A
	12	•	•	0	112A
	12,7	•	•	0	212.7
	13,5	•	•	0	213.5
	14		•	0	214
2	15	•	•	0	215
(2)	16	•	•	0	216
	17,2	•	•	0	217.2
	18	•	•	0	218
	19	•	•	0	319
	20	•	•	0	320
3	21,3	•	•	0	321.3
(3)	22	•	•	0	322
(0)	25	•	•	0	325
	25,4	•	•	0	325.4
	6	0	0	•	406
	8	0	0	•	408
	10	0	0	•	410
	12	0	0	•	412
	12,7	0	0	•	412.7
	14	0	0	•	414
	15	0	0	•	415
4	16	0	0	•	416
(4)	17,2	0	0	•	417.2
. 7	18	0	0	•	418
	19	0	0	•	419
	26.9	•	•	0	426.9
	28	•	•	0	428
	28,6	•	0	0	428.6
	30	•	•	0	430
	32	•	•	0	432

Group	Outside Diameter	Availabil Body Ma			
STAUFF	P/T/H	Profiled			
(DIN)	(mm)	Design	Type H	Type RI	Code
	32	•	•	0	532
	33,7	•	•	0	533.7
_	35	•	•	0	535
5 (5)	38	•	•	0	538
(5)	40	•	•	0	540
	41,3	•	0	0	541.3
	42	•	•	0	542
	20	0	0	•	620
	21,3	0	0	•	621.3
	22	0	0	•	622
	25	0	0	•	625
	26,9	0	0	•	626.9
6	28	0	0	•	628
(6)	30	0	0	•	630
	32	0	0	•	632
	44,5	•	•	0	644.5
	48,3	•	•	0	648.3
	50,8	•	•	0	650.8
	54	•	•	0	654
	57,2	•	•	0	757.2
	60,3	•	•	0	760.3
7	63,5	•	•	0	763.5
(7)	70	•	•	0	770
	73	•	•	0	773
	76,1	•	•	0	776.1
8	88,9	•	•	0	888.9
(8)	102	•	•	0	8102L

Standard Option



Please see pages 32 and 33 with detailed order examples for some of the most popular Standard Series clamp assemblies.

3 Clamp Body Design & Material

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

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

Profiled Design



Polypropylene Code: **PP**



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



Polyamide Code: PA



Thermoplastic Elastomer (87 Shore-A)
Code: SA



Aluminium

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

Type H (Smooth)



Polypropylene Code: **PP-H**



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



Polyamide Code: **PA-H**



Thermoplastic Elastomer (87 Shore-A)

Code: SA-H

Type RI (with Elastomer Insert)



Polypropylene

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



Polyamide

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

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

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

(4) Mounting & Fitting Combination

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

Installation with Cover Plate and Bolts

Cover Plate DP with Hexagon Head Bolts AS

Code: DP-AS

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

Installation with Locking Plate and Bolts

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

Installation with Inserts and Bolts

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

Inserts ES (Steel) with Hexagon Head Bolts AS

Code: **ES-AS**

Installation with Bolts only

Socket Cap Screws IS (Washers US included) Code: ${f IS}$

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

(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 ③ of the order code for your clamp assembly.

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

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

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.

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: W3 Thread: Metric

1x Cover Plate

Surface: W3

1x Clamp Body (two halves) STAUFF Group 2 (DIN 2) 0.D. 12,7 mm / .50 in Material: Polypropylene Profiled inside surface with tension clearance

1x Single Weld Plate

Surface: W2 Thread: Metric



2x Socket Cap Screw

with Washer Surface: W3 Thread: Metric

1x Clamp Body (two halves) STAUFF Group 2 (DIN 2) 0.D. 12.7 mm / .50 in

Material: Polypropylene Profiled inside surface with tension clearance

1x Single Weld Plate

Surface: W2 Thread: Metric



2x Slotted Head Screw

with Washer Surface: W3 Thread: Metric

1x Clamp Body (two halves)

STAUFF Group 2 (DIN 2) 0.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.

Order Code

SP-212.7-PP-IS-M-W10

W10 is the standard option for this type of installation.

Order Code

SP-212.7-PP-LI-M-W10

 $\boldsymbol{W10}$ 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) 0.D. 12,7 mm / .50 in Material: Polypropylene Profiled inside surface with tension clearance

1x Elongated Weld Plate

Surface: W2 Thread: Metric

2x Socket Cap Screw with Washer

Surface: W3 Thread: Metric

1x Clamp Body (two halves) STAUFF Group 2 (DIN 2) 0 D 12 7 mm / 50 in Material: Polypropylene Profiled inside surface with tension clearance

Elongated Weld Plate

Surface: W2 Thread: Metric



2x Slotted Head Screw

with Washer Surface: W3 Thread: Metric

1x Clamp Body (two halves) STAUFF Group 2 (DIN 2) 0 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.

Order Code

SPV-212.7-PP-IS-M-W10

W10 is the standard option for this type of installation.

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) 0.D. 12,7 mm / .50 in Material: Polypropylene Profiled inside surface with tension clearance

2x Hexagon Rail Nut

Surface: W3 Thread: Metric

2x Socket Cap Screw

with Washer Surface: W3 Thread: Metric

1x Clamp Body (two halves) STAUFF Group 2 (DIN 2) 0 D 12 7 mm / 50 in Material: Polypropylene

Profiled inside surface with tension clearance

2x Hexagon Rail Nut

Surface: W3 Thread: Metric



2x Slotted Head Screw

with Washer Surface: W3 Thread: Metric

1x Clamp Body (two halves) STAUFF Group 2 (DIN 2) 0 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.

Order Code (Mounting Rail TS not included.)

SM-212.7-PP-IS-M-W3

W3 is the standard option for this type of installation.

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



2x Socket Cap Screw

with Washer Surface: W3 Thread: Metric

1x Clamp Body (two halves) STAUFF Group 2 (DIN 2) 0.D. 12,7 mm / .50 in Material: Polypropylene Profiled inside surface with tension clearance



2x Slotted Head Screw

with Washer Surface: W3 Thread: Metric

1x Clamp Body (two halves) STAUFF Group 2 (DIN 2) Tube-0.D. 12,7 mm / .50 in Material: Polypropylene Profiled inside surface with tension clearance

Order Code

212.7-PP-DP-AS-M-W3

 ${\bf W3}$ is the standard option for this type of installation.

Order Code

212.7-PP-IS-M-W3

W3 is the standard option for this type of installation.

Order Code

212.7-PP-LI-M-W3

W3 is the standard option for this type of installation.

2x Stacking Bolt Surface: W3

Surface: W3 Thread: Metric

1x Safety Locking Plate Surface: W3

1x Clamp Body (two halves) STAUFF Group 2 (DIN 2) 0.D. 12,7 mm / .50 in Material: Polypropylene Profiled inside surface with tension clearance



Order Code*

SP-106-PP-IS-M-W10

W10 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) 0.D. 6 mm / .24 in Material: Polypropylene Profiled inside surface with tension clearance Thread: Metric

1x Single Weld Plate

Surface: W2 Thread: Metric

Thread codes

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

Metric ISO thread 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

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

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

W3

Technical Notes

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

Order Code

212.7-PP-SIG-AF-M-W3

 $\boldsymbol{W3}$ 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) 0.D. 12,7 mm / .50 in Material: Polypropylene Profiled inside surface with tension clearance

1x Single Weld Plate

Surface: W2 Thread: Metric

2x Hexagon Head Bolt

Surface: W3 Thread: Metric

2x Insert

Material: Plastic

1x Clamp Body (two halves) STAUFF Group 2 (DIN 2) 0.D. 12,7 mm / .50 in Material: Polypropylene Profiled inside surface with tension clearance

1x Elongated Weld Plate

Surface: W2 Thread: Metric

Order Code

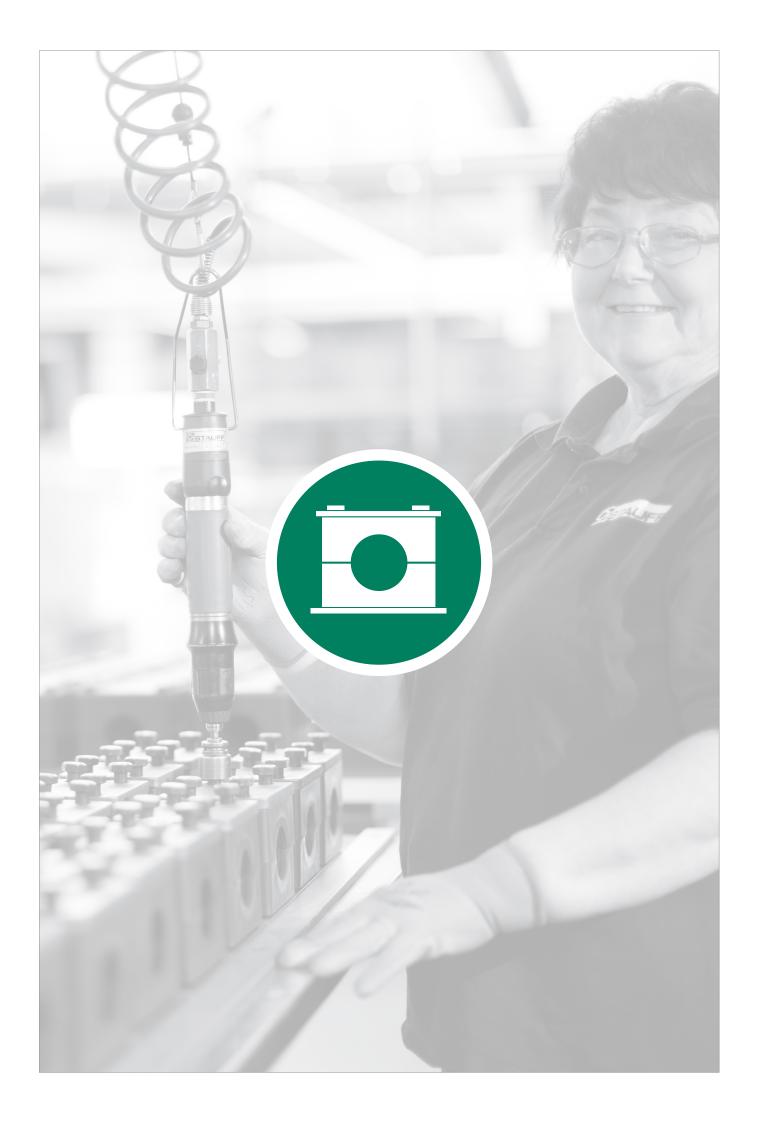
SP-212.7-PP-EP-AS-M-W10

W10 is the standard option for this type of installation.

Order Code

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

W10 is the standard option for this type of installation.







Clamp Body

Profiled Inside Surface with Tension Clearance



36

39

Weld Plate for Single Clamps SPAL

40



Clamp Body

Smooth Inside Surface without Tension Clearance

Clamp Body with Elastomer Insert



Weld Plate for Double Clamps

40





Elongated Weld Plate for Single Clamps

SPAL-DUEB





Elongated Weld Plate for Double Clamps

SPAS-DUEB





Mounting Rail Nut

42



Mounting Rail

STSV

42



Channel Rail Adaptor

CRA

43



Cover Plate for Single Clamps



Cover Plate for Double Clamps

DPAL





Hexagon Head Bolt

AS

45



Socket Cap Screw

IS

45



Safety Washer (DIN 93)

46



Safety Washer (DIN 463)

46



Safety Locking Plate

47



Stacking Bolt

AF

47

Clamp Assemblies

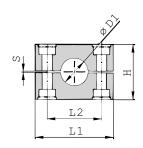
48

S min. Width

Clamp Body - Profiled Design

Profiled Inside Surface with Tension Clearance





(2 Clamp

Halves)

3006-** 3006.4-**

3008-**

3010-**

3012-**

3009.5-**

Copper Tube

ASTM B88

(in)

1/4

Ordering Codes Dimensions (mm/in)

(** = Material) PP/PA/SA

Outside Diameter Nominal Bore

(in)

1/8

Pipe / Tube

(in)

5/16

3/8

Ø D1

(mm)

6,4

9,5

10

12

8

Ordering Codes

*3*006-*PP **Clamp Body**

Group

N

One clamp body is consisting of two clamp halves.

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

Standard Materials



Polypropylene Colour: Green Material code: PP



Polypropylene Colour: Black Material code: PP-BK



Polyamide Colour: Black Material code: PA



Thermoplastic Elastomer (87 Shore-A) Colour: Black





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

Special Materials

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

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

Product Features

- Proven, tested and trusted product in various markets
- Recommended for the safe installation of rigid pipes and tubes
- Environmental protection due to vibration/noise reducing design • Excellent weathering resistance, even under extreme conditions

			0012 111									
3S	1	12,7	1/2		3/8	3012.7-**	55	56	33	32	0,6	30,5
35		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-**						
		19	3/4			4019- **					0,6 .02	
		20				4020-**						
		21,3		1/2		4021.3- **						
		22	7/8		3/4	4022-**	70	70	A.E.	40		30.5
48	2	25				4025-**	-				0,6 .02	1.20
		25,4	1			4025.4-**	2.70	2.10	1.77	1.03		1.20
		26,9		3/4		4026.9-**						
		28				4028-**						
		30				4030-**						
		30	5030-**									
		32	1-1/4			5032-**					0,6 .02	
		33,7		1		5033.7-**						
5S	3	35			1-1/4	5035-**	85	85	60	60	_	30.5
33	3	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-**					0,6 .02	
		38	1-1/2			6038-**					0,6 .02	
		42		1-1/4		6042- **	1.3-** 2-** 5-** 5-** 2.76 2.76 2.76 2.76 1.77 1.89 .02 6.9-** 8-** 0-** 3.7-** 5-** 85 85 85 60 60 0,6 8-* 3.35 3.35 2.36 2.36 0.2 .02					
		44,5	1-3/4			6044.5-**						
		48,3		1-1/2		6048.3-**						
		50,8	2			6050.8-**					0,6 6 .02	
		54			2	6054-**	115	120	90	89		45
6S	4	55				6055-**	4.53	4.72	3.54		_	1.77
	, -	57				6057-**	4.00	7.12	0.04	0.00	.00	1.77

6057.2-**

6060.3-**

6063.5-**

6065-**

6070-**

See page 37 for STAUFF Group 7S to 12S (DIN Group 5 to 10).

2-1/4

2-1/2

2-3/4

2

57,2

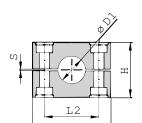
60,3

63,5

65

Available for all commonly used pipe and tube outside diameters Additional outside diameters are available upon request. Please contact STAUFF for further information.





Clamp Body • Profiled Design

Profiled Inside Surface with Tension Clearance



Group Outside Diameter Nom				D.							
Group					Ordering Codes	Dimens	sions (^{mm}	/in)			
生		Pipe / Tu	npe	Bore	(2 Clamp						
STAUFF	N N	Ø D1		D : (1)	Halves)	L1	L1				
S	0	(mm)	(in)	Pipe (in)	(** = Material)	PP/PA	AL	L2	Н	S min.	Width
		60,3			7060.3-**						
		65			7065-**						
		70	2-3/4		7070-**						Width 60 2.36 80 3.15 91 3.58
		73		2-1/2 (ANSI B 36-10)	7073-**	154	152	122	120	2	60
7S	5	75			7075-**	6.06	5.98	4.80	4.72	.08	
		76,1	3	2-1/2 (DIN EN 10220)							
		80			7080-**						
		82,5			7082.5-**						
		88,9	3-1/2	3	7088.9-**						
		88,9	3-1/2	3	8088.9-**						
		100			8100-**						
		102	4	3-1/2	8102-**	206	208	168	168	2	90
88	6	108			8108-**	8.11	8.19	6.61	6.61	.08	
		114	4-1/2	4	8114-**	0.11	0.13	0.01	0.01	.00	0.10
		127	5		8127-**						0.10
		133			8133-**						
		127	5		9127-**						
		133			9133-**						80 3.15 91 3.58
		140		5	9140-**	054	055	005	000		
98	7	152	6		9152-**	251	255 10.04	205	200	.12	_
		159			9159-**	9.88	10.04	8.07	7.87	.12	3.30
		165			9165-**						
		168		6	9168-**						
		168		6	10168-**						
		177,8			10177.8-**						
400		193,7			10193.7-**	336	326	265	270	3	120
10S	8	203	8		10203-**	13.22	12.83	10.43	10.63	.12	4.72
		216			10216-**						
		219		8	10219-**						
		219		8	11219-**						
118	9	273		10	11273-**	470	470	395	410	8	
		324		12	11324-**	18.50	18.50	15.55	16.14	.31	6.38
100	10	356		14	12356-**	630	630	534	530	20	182
12S	10	406		16	12406-**	24.80	24.80	21.02	20.87	.79	7.16

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

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

Ordering Codes Clamp Body *7*060.3-*PP One clamp body is consisting of two clamp halves.

* 1st part of STAUFF Group 7

* Exact outside diameter Ø D1 (mm) 060.3

* Material code (see below) PP

Standard Materials









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

Special Materials

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

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

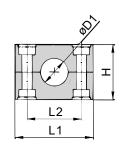
Product Features

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

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: SA-H

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

Special Materials

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

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

Product Features

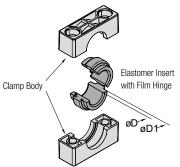
- Proven, tested and trusted product in various markets
- Recommended for the safe installation of hoses and cables
- Chamfered edges avoid damaging of the hose or cable
- Available for all commonly used hose and cable outside diameters
- Excellent weathering resistance, even under extreme conditions

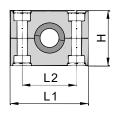
Group 出		Outside Diameter Hose		Ordering Codes (2 Clamp	Dimens (mm/in)	ions			
STAUFF	N O	Ø D1		Halves)					
S	_	(mm)	(in)	(**-H = Material)	L1	L2	Н	Width	
		6		3006- * ∗-H					
		6,4	1/4	3006.4-**-H					
		8	5/16	3008-**-H					
		9,5	3/8	3009.5-**-H					
		10		3010-**-H					
		12		3012-**-H	55	33	30,5	30.5	
3S	1	12,7	1/2	3012.7- ★★ -H	2.16	1.30	1.20		
		13,5		3013.5-**-H	2.10	1.00	1.20	1.20	
		14		3014-**-H					
		15		3015-**-H					
		16	5/8	3016- ★★ -H				30,5 1.20 30,5 1.20 30,5 1.20	
		17,2		3017.2-**-H					
		18		3018- ★★ -H				30,5 1.20 30,5 1.20	
		19	3/4	4019- ** -H					
		20		4020- ** -H					
		21,3		4021.3- ** -H					
		22	7/8	4022- ★★ -H	70	45	46,5		
4S	2	25		4025- ★★ -H	2.76	1.77	1.83	1.20	
		25,4	1	4025.4- ** -H					
		26,9		4026.9- ** -H					
		28		4028- ★★ -H					
		30		4030- ** -H					
		30		5030- ★ ★-H					
		32	1-1/4	5032- ★★ -H					
		33,7		5033.7- ★ ★-H					
5S	3	35		5035- ★ ★-H	85	60	58		
		38	1-1/2	5038- ★ ★-H	3.35	2.36	2.28	1.20	
		40		5040- ★★ -H					
		41,3		5041.3- ** -H					
		42		5042- ★ ★-H					
		38	1-1/2	6038- ★★ -H					
		42		6042- ** -H					
		44,5	1-3/4	6044.5- ★★ -H					
		48,3		6048.3- ** -H					
		50,8	2	6050.8- ★ ★-H	115	90	87		
6S	4	55		6055- ★ ★-H	4.53	3.54	3.43	1.77	
		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.

www.stauff.com/1/en/#38







Clamp Body with Elastomer Insert Type RI



Group		Outside	Diameter	Ordering Codes	(**R = Clamp I	Rody Material	Dime	nsions			
			ube / Hose	_	Clamp Body	Insert *	(mm/in)				
STAUFF		Ø D	ube / Hose	(Clamp Body +	Clamp Body	IIIoGit	(/in)				
STA	름	(mm	(in	Insert	(2 Clamp Halves		Ø D1	L1	L2	н	Widtl
		6	(4006-**-R	(E Glamp Haivoo	RI-06-4/4S	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			•	TTIQU
		8	5/16	4008- ** -R		RI-08-4/4S					
		10	0/10	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					
4S	2	14	1/2	4014- ** -R	4S-**-R	RI-14-4/4S	25	70	45	46,5	, -
	-	15		4015- ** -R	10 44 11	RI-15-4/4S	.98	2.76	1.77	4.83	1.20
		16	5/8	4016- ** -R		RI-16-4/4S					
		17,2	0/0	4017.2- ** -R		RI-17.2-4/4S					
		18		4018- ** -R		RI-18-4/4S					
		19	3/4	4019- ** -R		RI-19-4/4S					
		20	0/ 1	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	170	5025- ** -R	-	RI-25-6/5S	38	85	60	58	30,5
5S	3	26,9		5025- ** -R	5S- ** -R	RI-26.9-6/5S	1.50	3.35	2.36	2.28	
		28		5028- ** -R		RI-28-6/5S		0.00	2.00	2.20	
		30		5030-**-R		RI-30-6/5S					
		32	1-1/4	5030-**-R		RI-32-6/5S					
		32	1-1/4	6032- ** -R		RI-32-6S					
		33,7	1 1/4	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					
6S	4	42		6042- ** -R	6S-**-R	RI-42-6S	64	115	90	87	45
00	"	45,5		6045.5- ** -R	00 44 11	RI-45.5-6S	2.52	4.53	3.54	3.43	1.77
		48		6048- ** -R		RI-48-6S					
		51	2	6051-**-R		RI-51-6S					
		53,4		6053.4-**-R	-	RI-53.4-6S					
		56,4		6056.4- ** -R		RI-56.4-6S					
		55		7055- ** -R		RI-55-7S					
		57	2-1/4	7057- ** -R		RI-57-7S					
		60	2 1/1	7060- ** -R		RI-60-7S					
		63.5	2-1/2	7063.5- ** -R		RI-63.5-7S	88	154	122	120	60
7S	5	65	2 1/2	7065- ** -R	7S- ** -R	RI-65-7S	3.56	6.06	4.80	4.72	
		70	2-3/4	7070- ** -R		RI-70-7S	0.00	0.00	1.00	1.72	2.36
		72	2 0/1	7070- ** -R		RI-72-7S					
		76	3	7072- ** -R		RI-76-7S					
		80	3	8080-**-R		RI-80-8S					
8S	6	88,9	3-1/2	8088.9-**-R	8S-**-R	RI-88.9-8S	114	208	168	168	80
00	0	102	J-1/2	8102-**-R	00-44-II	RI-102-8S	4.49	8.11	6.61	6.61	3.15
_		114		9114-**-R		RI-114-9S					45 1.77 60 2.36
9S	7	133	5-1/4	9133-**-R	9S- ** -R	RI-133-9S	150	251	205	200	
55		140	J-1/4	9140-**-R	30- ++ -II	RI-140-9S	5.91	9.88	8.07	7.87	3.58
		150		10150-**-R		RI-150-10S					
		165		10150-**-R		RI-165-10S	200	336	265	270	100
10S	8	168		10165-**-R	10S- * *-R	RI-168-10S	7.87			-	
		172					1.07	13.22	10.43	10.03	4.12
		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.

Ordering C	odes						
Clamp Assem	*4*006	-*PP-R					
One assembly is co	nsisting of one clamp body and	one insert.					
* 1st part of STAUF * Exact outside dia * Material code (s	ameter Ø D (mm)	4 006 PP-R					
Clamp Body *4S-*PP-R							
One clamp body is	consisting of two clamp halve	es.					
* STAUFF Group * Material code (s	,	4S PP-R 6-*4/4S					
* Elastomer Insert * Exact outside di * STAUFF Group	ameter Ø D (mm)	RI 06 4/4S 6/5S 6S 7S 8S 9S					

Standard Materials







Elastomer Insert 4S to 6S: **Thermoplastic Elastomer** (73 Shore-A) 7S to 10S: **EPDM** (70 Shore-A)

Colour: Black

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

Special Materials

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

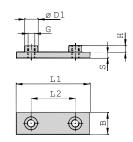
See pages 156 / 157 for material properties and technical information.

Product Features

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

Weld Plate for Single Clamps Type SPAL





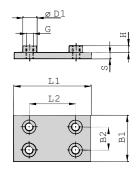
Ordering C	odes *SPAL-*3S-*M-*	W2
* Weld Plate for S	Single Clamps	SPAL
* STAUFF Group		3S
* Thread code	Metric ISO thread Unified coarse (UNC) thread	M U
* Material code	Carbon Steel, uncoated Carbon Steel, phosphated Carbon Steel, zinc/nickel-plated	W1 W2 W3
	Stainless Steel V2A 1.4301 / 1.4305 (AISI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

Group		Dimensio	ns (^{mm} /in)						Ordering Codes
STAUFF	DIN	L1	L2	В	S	Н	Thread G	ØD1	(Standard Options)
3S	1	74	33	30	8	8	M10	18	SPAL-3S-M-W2
33	'	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
43		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
33	3	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
03		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
73		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
03	U	8.90	6.61	3.15	.59	.71	3/4-10 UNC	1.18	SPAL-8S-U-W1
98	7	270	205	90	15	21	M24	35	SPAL-9S-M-W1
95	1	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
105	0	13.39	10.43	4.72	.98	.83	1-1/8-7 UNC	1.77	SPAL-10S-U-W1
11S	0	520	395	160	30	38	M30	50	SPAL-11S-M-W1
115	9	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
125	10	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





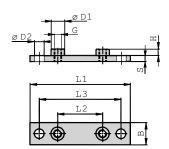
Ordering C	odes						
Weld Plate	*SPAS-*3S-*M-*	W2					
* Weld Plate for Double Clamps							
* STAUFF Group		3\$					
* Thread code	Metric ISO thread Unified coarse (UNC) thread	M U					
* Material code	Carbon Steel, uncoated Carbon Steel, phosphated Carbon Steel, zinc/nickel-plated	W1 W2 W3					
	Stainless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

Group		Dimens	ions (^{mm} /	in)						Ordering Codes
STAUFF	DIN	L1	L2	B1	B2	S	Н	Thread G	ØD1	(Standard Options)
3S	1	74	33	60	30,5	8	8	M10	18	SPAS-3S-M-W2
33	'	2.91	1.30	2.36	1.20	.31	.31	3/8-16 UNC	.71	SPAS-3S-U-W2
4S	2	86	45	60	30,5	8	8	M10	18	SPAS-4S-M-W2
40		3.39	1.77	2.36	1.20	.31	.31	3/8-16 UNC	.71	SPAS-4S-U-W2
5S	3	100	60	60	30,5	8	8	M10	18	SPAS-5S-M-W2
33	3	3.94	2.36	2.36	1.20	.31	.31	3/8-16 UNC	.71	SPAS-5S-U-W2
6S	4	140	90	90	46	10	8	M12	20	SPAS-6S-M-W2
03	4	5.51	3.54	3.54	1.81	.39	.31	7/16-14 UNC	.78	SPAS-6S-U-W2
7 S	5	180	122	120	61	10	12	M16	24	SPAS-7S-M-W2
13		7.09	4.80	4.72	2.40	.39	.47	5/8-11 UNC	.94	SPAS-7S-U-W2
88	6	226	168	160	81	15	18	M20	30	SPAS-8S-M-W1
00	U	8.90	6.61	6.61	3.19	.59	.71	3/4-10 UNC	1.18	SPAS-8S-U-W1
98	7	270	205	180	91	15	21	M24	35	SPAS-9S-M-W1
93	′	10.63	8.07	7.09	3.58	.59	.83	7/8-9 UNC	1.38	SPAS-9S-U-W1
10S	8	340	265	240	121	25	21	M30	45	SPAS-10S-M-W1
103	0	13.39	10.43	9.45	4.78	.98	.83	1-1/8-7 UNC	1.77	SPAS-10S-U-W1
11S	9	520	395	324	166	30	38	M30	50	SPAS-11S-M-W1
110	9	20.47	15.55	12.76	6.54	1.18	1.50	1-1/4-7 UNC	1.97	SPAS-11S-U-W1
12S	10	680	534	364	186	30	38	M30	50	SPAS-12S-M-W1
123	10	27.16	21.02	14.33	7.32	1.18	1.50	1-1/4-7 UNC	1.97	SPAS-12S-U-W1

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







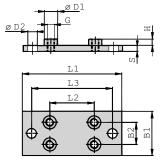
Elongated Weld Plate for Single Clamps Type SPAL-DUEB



Group		Dimen	sions (m	m/in)							Ordering Codes
STAUFF	DIN	L1	L2	L3	В	S	Н	Thread G	ØD1	ØD2	(Standard Options)
3S	1	113	33	85	30	8	8	M10	18	13	SPAL-DUEB-3S-M-W2
33	Į Į	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
45	2	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
55	3	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
00		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
15		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
03	O	12.17	6.61	10.20	3.15	.59	.71	3/4-10 UNC	1.18	1.02	SPAL-DUEB-8S-U-W1
98	7	370	205	310	90	15	21	M24	35	31	SPAL-DUEB-9S-M-W1
95	'	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
105	0	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
110	9	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
123	10	29.53	21.02	27.17	7.09	1.18	1.50	1-1/4-7 UNC	1.97	1.22	SPAL-DUEB-12S-U-W1

Ordering Codes Weld Plate *SPAL-DUEB-*3S-*M-*W2 * Elongated Weld Plate for Single Clamps **SPAL-DUEB** * STAUFF Group 38 * Thread code Metric ISO thread M Unified coarse (UNC) thread U * Material code Carbon Steel, uncoated W1 Carbon Steel, phosphated W2 Carbon Steel, zinc/nickel-plated W3 Stainless Steel V2A W4 1.4301 / 1.4305 (AISI 304 / 303) Stainless Steel V4A **W5** 1.4401 / 1.4571 (AISI 316 / 316 Ti)

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



STAUFF Group 3S to 9S

L2

113

4.45

125

4.92 140 60

187

7.36 3.54 6.10 3.54 1.81 .39

238 122 198 120 61 10 12

9.37 4 80 7 80 4 72 2 40 39 47

309 168 259 160 81

370 205

460 265

590 395 530 324 166 30 38

12.17 6.61

14.57 8.07

33 1.30

45

1.77 3.82 2.36 1.20 .31

2.36 5.51

90

85

3.35

112 60

4 41

155

60

60

2.36 1 20 31 31

90

10.20 6.61

12.20 7.09

29.53 21.02 27.17 14.33 7.32 1.18

310 180 91 15 21

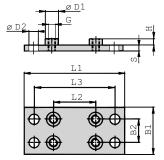
400 240 121

18.11 10.43 15.75 9.45

23.23 15.55 20.87 12.76

750 534 690 364

2.36 1.20 .31 .31



	STAUFF Group 10S to 12S									
	Thread G	ØD1	ØD2	Ordering Codes (Standard Options)						
				SPAS-DUEB-3S-M-W2						
_	M10	18	13							
_	3/8–16 UNC	.71	.51	SPAS-DUEB-3S-U-W2						
	M10	18	13	SPAS-DUEB-4S-M-W2						
	3/8-16 UNC	.71	.51	SPAS-DUEB-4S-U-W2						
	M10	18	13	SPAS-DUEB-5S-M-W2						
	3/8-16 UNC	.71	.51	SPAS-DUEB-5S-U-W2						
	M12	20	16	SPAS-DUEB-6S-M-W2						
	7/16-14 UNC	.78	.62	SPAS-DUEB-6S-U-W2						
	M16	24	21	SPAS-DUEB-7S-M-W2						
	5/8-11 UNC	.94	.83	SPAS-DUEB-7S-U-W2						
	M20	30	26	SPAS-DUEB-8S-M-W1						
	3/4-10 UNC	1.18	1.02	SPAS-DUEB-8S-U-W1						
	M24	35	31	SPAS-DUEB-9S-M-W1						

SPAS-DUEB-9S-U-W1

SPAS-DUFB-10S-M-W1

SPAS-DUEB-10S-U-W1

SPAS-DUEB-11S-M-W1

SPAS-DUEB-11S-U-W1

SPAS-DUEB-12S-M-W1

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.

30,5

30.5

30.5 8 8

3.19 .59 .71

3.58 .59 .83

4.78 .98 .83

6.54 1.18

186 30

8

10 46

> 15 18

8

.31

.31

21

1.50

1.50

Elongated Weld Plate for Double Clamps Type SPAS-DUEB





Ordering Codes								
Weld Plate *	SPAS-DUEB-*3S-*M-*V	V 2						
* Elongated Weld F	Plate for Double Clamps SPAS-DL	JEB						
* STAUFF Group		3S						
* Thread code	Metric ISO thread Unified coarse (UNC) thread	M U						
* Material code	Carbon Steel, phosphated	W1 W2 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

3S

4S

5S

7S

98

10S

11S

12S

3

5

7

8

9

10

Catalogue 1 • Edition 08/2022

7/8-9 UNC

1-1/4-7 UNC

1-1/4-7 UNC

M30

1-1/8-

M30

M30

1.38 1.22

45

1.77 1.22

1.97 1.22

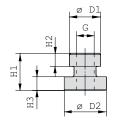
50

1.97

50 31

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







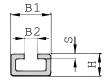
Ordering C Mounting Rail		W3
* Mounting Rail N	ut	GMV
* STAUFF Group	3S to 5S (DIN Group 1 to 3) 6S (DIN Group 4)	3-5S 6S
* Thread code	Metric ISO thread Unified coarse (UNC) thread	M U
* Material code	Carbon Steel, zinc/nickel-plated	W3
	Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303) Stainless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

Group	Group Dimensions (mm/in)							Ordering Codes
STAUFF	DIN	ØD1	ØD2	H1	H2	H3	Thread G	(Standard Options)
3S	1							
4S	2	17,8	24	21	7,6	7,4	M10	GMV-3-5S-M-W3
43	2	.70	.94	.83	.30	.29	3/8-16 UNC	GMV-3-5S-U-W3
5S	3							
6S	4	19,8	24	23	8,8	8,8	M12	GMV-6S-M-W3
บอ	4	.78	.94	.91	.35	.35	7/16–14 UNC	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 C	odes	
Mounting Rai	il *STSV-*1M-*	W1
* Mounting Rail	•	STSV
* Length of rail	1 m / 3.28ft 2 m / 6.56ft	1M 2M
	Alternative lengths available upon requ Contact STAUFF for further informat	
* 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

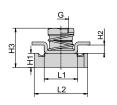
Group		Dimension	. ,			Ordering Codes (Standard Options)		
STAUFF	DIN	B1	B2	Н	S	Length of Rail: 1 m / 3.28ft	Length of Rail: 2m / 6.56ft	
3S	1							
48	2	40	13	22	5	CTCV 4M W4	CTCV OM W4	
5\$	3	1.57	.51	.86	.19	STSV -1M-W1	STSV -2M-W1	
68	4							

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







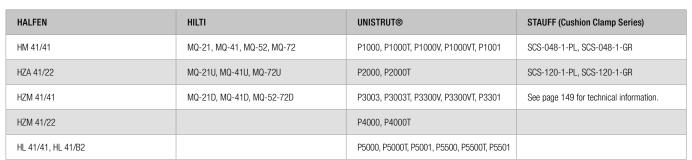
Group	Group Dimensions (mm/in)								Ordering Codes		
STAUFF	DIN	Thread G	L1	L2	L3	B1	B2	H1	H2	Н3	(Standard Options)
3\$	1										
4S	2	M10	22	35	38	22	20,5	9,2	5,5	27,5	CRA-3-5S-M-W3
43		3/8-16 UNC	.87	1.38	1.50	.87	.81	.36	.22	1.08	CRA-3-5S-U-W3
5S	3										
6S	4 M12 7/16–14 UNC	21,5	35	45	25	19	9,2	5	27,5	CRA-6S-M-W3	
00		.85	1.38	1.77	.98	.75	.36	.20	1.08	CRA-6S-U-W3	

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

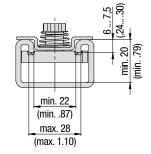
All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Compatibility with Channel Rails

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



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		Hexagon Head Bolts AS (used with Cover	Plates DPAL or DPAS)	Socket Cap Screws IS (used without Cover Plates DPAL or DPAS)			
STAUFF	DIN	Metric ISO thread	Unified coarse (UNC) thread	Metric ISO thread	Unified coarse (UNC) thread		
3S	1	M10 x 40	3/8-16 UNC x 1-1/2	M10 x 25	3/8-16 UNC x 1		
4 S	2	M10 x 55	3/8-16 UNC x 2-1/4	M10 x 40	3/8–16 UNC x 1-1/2		
5S	3	M10 x 65	3/8-16 UNC x 2-3/4	M10 x 50	3/8–16 UNC x 2		
6S	4	M12 x100	7/16–14 UNC x 3-3/4	M12 x 75	7/16–14 UNC x 3		

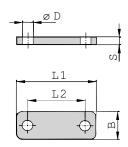
Clamp assemblies including Channel Rail Adaptors, type CRA are supplied with the recommended bolt lengths by default. See page 48 for further information on ordering.



STAUFF®

Cover Plate for Single Clamps Type DPAL





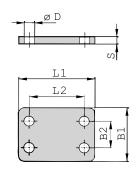
Ordering Codes *DPAL-*3S-*W2 **Cover Plate** * Cover Plate for Single Clamps DPAL * STAUFF Group 3\$ * Material code W1 Carbon Steel, uncoated Carbon Steel, phosphated W2 Carbon Steel, zinc/nickel-plated W3 Stainless Steel V2A W4 1.4301 / 1.4305 (AISI 304 / 303) Stainless Steel V4A 1.4401 / 1.4571 (AISI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

Group		Dimensions (nm/in)				Ordering Codes
STAUFF	DIN	L1	L2	В	S	ØD	(Standard Options)
3S	1	55	33	30	8	11	DPAL-3S-W2
33	'	2.16	1.30	1.18	.31	.43	DFAL-33-W2
4S	2	70	45	30	8	11	DPAL-4S-W2
43	2	2.76	1.77	1.18	.31	.43	DFAL-43-WZ
5S	3	85	60	30	8	11	DPAL-5S-W2
33	3	3.35	2.36	1.18	.31	.43	DFAL-33-W2
6S	4	115	90	45	10	14	DPAL-6S-W2
03	4	4.53	3.54	1.77	.39	.55	DPAL-65-W2
7S	5	152	122	60	10	19	DPAL-7S-W2
13	J	5.98	4.80	2.36	.39	.75	DFAL-7 3-WZ
8S	6	206	168	80	15	22	DPAL-8S-W1
03	0	8.11	6.61	3.15	.59	.87	DFAL-03-WT
98	7	251	205	90	15	26	DPAL-9S-W1
93	1	9.88	8.07	3.54	.59	1.02	DLAT-89-MI
10S	8	320	265	120	25	35	DPAL-10S-W1
103	0	12.60	10.43	4.72	.98	1.38	DLAT-109-M1
11S	9	470	395	160	30	35	DPAL-11S-W1
113	J	18.50	15.55	6.30	1.18	1.38	DLWF-119-M1
12S	10	630	534	180	30	35	DPAL-12S-W1
123	10	24.80	21.02	7.09	1.18	1.38	DI ML-120-W I

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

Cover Plate for Double Clamps Type DPAS





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

Group		Dimensions	S (^{mm} / _{in})					Ordering Codes
STAUFF	DIN	L1	L2	B1	B2	S	ØD	(Standard Options)
3S	1	55	33	60	30,5	8	11	DPAS-3S-W2
JJ	'	2.16	1.30	2.36	1.20	.31	.43	DFA3-33-W2
4S	2	70	45	60	30,5	8	11	DPAS-4S-W2
43		2.76	1.77	2.36	1.20	.31	.43	DFA3-43-W2
5S	3	83	60	60	30,5	8	11	DPAS-5S-W2
33	3	3.27	2.36	2.36	1.20	.31	.43	DFA3-33-W2
6S	4	115	90	90	46	10	14	DPAS-6S-W2
US	4	4.53	3.54	3.54	1.81	.39	.55	DFA3-03-W2
7S	5	152	122	120	61	10	19	DPAS-7S-W2
73	3	5.98	4.80	4.72	2.40	.39	.75	DI A3-73-W2
8S	6	206	168	160	81	15	22	DPAS-8S-W1
00	U	8.11	6.61	6.61	3.19	.59	.87	DI A3-03-W I
98	7	251	205	180	91	15	26	DPAS-9S-W1
90	′	9.88	8.07	7.09	3.58	.59	1.02	DF A3-93-W I
10S	8	320	265	240	121	25	35	DPAS-10S-W1
100	· ·	12.60	10.43	9.45	4.78	.98	1.38	DI A3-103-W1
11S	9	470	395	321	166	30	35	DPAS-11S-W1
113	9	18.50	15.55	12.64	6.54	1.18	1.38	DI AU-110-W1
128	10	630	534	361	186	30	35	DPAS-12S-W1
123	10	24.80	21.02	14.21	7.32	1.18	1.38	DF M3-123-W I

 $\label{thm:linear_equation} \textbf{Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.}$





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		Dimensions (mm/in)	Ordering Codes
STAUFF	DIN	Thread G x L	(Standard Options)
00		M10 x 45	AS-M10x45-W1
3S	1	3/8-16 UNC x 1-3/4	AS-3/8-16UNCx1-3/4-W3*
4S	2	M10 x 60	AS-M10x60-W1
45	2	3/8-16 UNC x 2-1/4	AS-3/8-16UNCx2-1/4-W3*
5S	3	M10 x 70	AS-M10x70-W1
55	3	3/8-16 UNC x 2-3/4	AS-3/8-16UNCx2-3/4-W3*
6S	4	M12 x 100	AS-M12x100-W1
65	4	7/16–14 UNC x 4	AS-7/16-14UNCx4-W3*
70	-	M16 x 130	AS-M16x130-W1
7S	5	5/8-11 UNC x 5-1/4	AS-5/8-11UNCx5-1/4-W3*
8S	6	M20 x 190	AS-M20x190-W1
65	O	3/4-10 UNC x 7-1/2	AS-3/4-10UNCx7-1/2-W1
98	7	M24 x 220	AS-M24x220-W1
95	1	7/8-9 UNC x 8-3/4	AS-7/8-9UNCx8-3/4-W1
10S	8	M30 x 300	AS-M30x300-W1
105	0	1-1/8-7 UNC x 12	AS-1-1/8-7UNCx12-W1
110	0	M30 x 450	AS-M30x450-W1
11S	9	1-1/4-7 UNC x 17-1/2	AS-1-1/4-7UNCx17-1/2-W1
100	10	M30 x 560	AS-M30x560-W1
12S	10	1-1/4-7 UNC x 22	AS-1-1/4-7UNCx22-W1



Ordering Codes

Hexagon Head Bolt *AS-*M10x70-*W1

пехауон пеа	u Boit A3- WTOX70-	/V I
* 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 M10	x70
* Material code	Carbon Steel, uncoated Carbon Steel, zinc/nickel-plated	W1 W3
	Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303)	W4
	Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)	W5

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

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

Socket Cap Screw Type IS



Socket Cap Screw IS

(according to ISO 4762 or ANSI / ASME B18.3) Dimensions applicable only when used without Cover Plates

Group		Dimensions (mm/in)	Ordering Codes
STAUFF	DIN	Thread G x L	(Standard Options)
3S	4	M10 x 30	IS-M10x30-W1
33	1	3/8-16 UNC x 1	IS-3/8-16UNCx1-W3*
40	0	M10 x 40	IS-M10x40-W1
48	2	3/8-16 UNC x 1-3/4	IS-3/8-16UNCx1-3/4-W3*
	0	M10 x 50	IS-M10x50-W1
5S	3	3/8-16 UNC x 2	IS-3/8-16UNCx2-W3*
6S	4	M12 x 80	ISM12x80-W1
05	4	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

*IS-*M10x50-*W1 **Socket Cap Screw**

* Thread type an	d size acc. to dimension table	M10x50
	or ANSI / ASME B18.3)	
	(according to ISO 4762	IS
rype of Bolt	Socket Gap Screw	

* Material code Carbon Steel, uncoated W1 Carbon Steel, zinc/nickel-plated **W3**

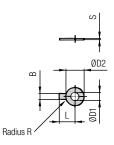
> Stainless Steel V2A W4 1.4301 / 1.4305 (AISI 304 / 303) Stainless Steel V4A W5 1.4401 / 1.4571 (AISI 316 / 316 Ti)



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)

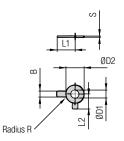
Ordering Cod	les
Safety Washer	*SI-*10.5-*DIN93-*W3
* Safety Washer	SI
* Exact inner diameter	er ØD1 (mm) 10.5
, ,	afety washer with 1 tab according to DIN 93) DIN 93
* Material code C	arbon Steel, zinc/nickel-plated W3
_	tainless Steel V4A .4401 / 1.4571 (AISI 316 / 316 Ti) W5

Group		Dimensions	S (^{mm} /in)	Ordering Codes				
STAUFF	DIN	ØD1	В	ØD2	L	R	S	(Standard Options)
3S	1	10,5	10	26	22	4	0,75	SI-10.5-DIN93-W3
33	1	.41	.39	1.02	.87	.16	.03	31-10.3-W3
4S	2	10,5	10	26	22	4	0,75	SI-10.5-DIN93-W3
43	2	.41	.39	1.02	.87	.16	.03	31-10.3-W3
5S	3	10,5	10	26	22	4	0,75	SI-10.5-DIN93-W3
33	J	.41	.39	1.02	.87	.16	.03	31-10.3-W3
6S	4	13	12	30	28	6	1	SI-13-DIN93-W3
03	4	.51	.47	1.18	1.10	.24	.04	31-13-DIN 33-W3
7S	5	17	15	36	32	6	1	SI-17-DIN93-W3
13		.67	.59	1.42	1.26	.24	.04	31-17-DIN93-W3
8S	6	21	18	42	36	6	1	SI-21-DIN93-W3
03	U	.83	.71	1.65	1.42	.24	.04	31-21-DIN93-W3
9S	7	25	20	50	42	6	1	SI-25-DIN93-W3
30	′	.98	.79	1.97	1.65	.24	.04	31-23-D11133-W3
10S	8	31	26	63	52	10	1,6	SI-31-DIN93-W3
103	O	1.22	1.02	2.48	2.05	.39	.06	31-31-DIN33-W3
11S	9	31	26	63	52	10	1,6	SI-31-DIN93-W3
113	J	1.22	1.02	2.48	2.05	.39	.06	טויס ויטרוט Wט
12S	10	31	26	63	52	10	1,6	SI-31-DIN93-W3
123	10	1.22	1.02	2.48	2.05	.39	.06	כאיינפאווע־ו ני-ונ

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)

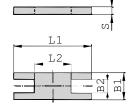
Ordering Codes	
Safety Washer *SI-*10.5-*E)IN463-*W3
* Safety Washer	SI
* Exact inner diameter ØD1 (mm)	10.5
* Type of washer Safety washer with 2 to (according to DIN 463)	DIN 463
* Material code Carbon Steel, zinc/nic	kel-plated W3
Stainless Steel V4A 1.4401 / 1.4571 (AISI	316 / 316 Ti) W5

Group		Dimensio	ns (^{mm} / _{in})	Ordering Codes					
STAUFF	DIN	ØD1	В	ØD2	L1	L2	R	S	(Standard Options)
3S	1	10,5	10	21	22	13	4	0,75	SI-10.5-DIN463-W3
33	'	.41	.39	.83	.87	.51	.16	.03	31-10.5-DIN403-W3
4S	2	10,5	10	21	22	13	4	1	SI-10.5-DIN463-W3
40		.41	.39	.83	.87	.51	.16	.04	31-10.5-D114-05-W5
5S	3	10,5	10	21	22	13	4	1	SI-10.5-DIN463-W3
33	J	.41	.39	.83	.87	.51	.16	.04	31-10.5-D114-05-W5
6S	4	13	12	24	28	15	6	1	SI-13-DIN463-W3
00	7	.51	.47	.94	1.10	.59	.24	.04	31-13-D114-03-W3
7S	7S 5	17	15	30	32	18	6	1	SI-17-DIN463-W3
73	0	.67	.59	1.18	1.26	.71	.24	.04	31-17-DIN403-W3
88	BS 6	21	18	37	36	21	6	1	SI-21-DIN463-W3
00	U	.83	.71	1.46	1.42	.83	.24	.04	31-21-D114-03-W3
98	7	25	20	44	42	25	6	1	SI-25-DIN463-W3
30	′	.98	.79	1.73	1.65	.98	.24	.04	31-23-D1N403-W3
10S	8	31	26	56	52	32	10	1,6	SI-31-DIN463-W3
103	O	1.22	1.02	2.20	2.05	1.26	.39	.06	31-31-011403-113
11S	9	31	26	56	52	32	10	1,6	SI-31-DIN463-W3
110	9	1.22	1.02	2.20	2.05	1.26	.39	.06	01 01 011400-110
12S	10	31	26	56	52	32	10	1,6	SI-31-DIN463-W3
120	10	1.22	1.02	2.20	2.05	1.26	.39	.06	01 01 DIN-100-W0

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**





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	31F-33-W2
4S	2	70	26	30	15,2	8	SIP-4S-W2
43	2	2.76	1.02	1.18	.60	.31	31F-43-W2
5S	3	85	40	30	15,2	8	SIP-5S-W2
33	3	3.35	1.57	1.18	.60	.31	31F-33-W2
6S	4	116	68	45	17,2	10	SIP-6S-W2
03		4.57	2.68	1.77	.68	.39	31F-03-W2
7S	5	153	96	60	22	10	SIP-7S-W2
13	3	6.02	3.78	2.36	.87	.39	31F-73-W2
8S	6	206	130	80	28	15	SIP-8S-W1
00	О	8.11	5.12	3.15	1.10	.59	215-92-M1
9S	7	251	166	90	31	15	SIP-9S-W1
95	<i>'</i>	9.88	6.54	3.54	1.22	.59	215-82-M1
100	0	317	205	120	49	25	CID 10 C W1
10S	8	12.48	8.07	4.72	1.93	.98	SIP-10-S-W1

Ordering Codes Safety Locking Plate *SIP-*3S-*W2						
* Safety Locking	Plate	SIP				
* STAUFF Group		3S				
* 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				

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

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

*AF-*3S-*M-*W2

AF

3S

M U

W1

W2

W3

W4

W5



Metric ISO thread

Unified coarse (UNC) thread

Carbon Steel, uncoated

Stainless Steel V2A

Carbon Steel, phosphated

Carbon Steel, zinc/nickel-plated

1.4301 / 1.4305 (AISI 304 / 303) Stainless Steel V4A

1.4401 / 1.4571 (AISI 316 / 316 Ti)

Ordering Codes

Stacking Bolt * Stacking Bolt

* STAUFF Group

* Thread code

* Material code

Group		Dimension	s (mm/in)	Ordering Codes			
STAUFF	DIN	L1	L2	L3 min.	Hex	Thread G	(Standard Options)
3S	4	49	25	15	15	M10	AF-3S-M-W2
33	'	1.93	.98	.59	.59	3/8-16 UNC	AF-3S-U-W3*
4S	2	65	40	15	15	M10	AF-4S-M-W2
45	2	2.56	1.57	.59	.59	3/8-16 UNC	AF-4S-U-W3*
EC	3	77	51	15	15	M10	AF-5S-M-W2
5S	3	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*
70	_	144	110	24	22	M16	AF-7S-M-W2
7S	5	5.67	4.33	.94	.87	5/8-11 UNC	AF-7S-U-W3*
00	_	200	150	30	27	M20	AF-8S-M-W2
8S	6	7.87	5.91	1.18	1.06	3/4-10 UNC	AF-8S-U-W1*
00	7	240	180	50	30	M24	AF-9S-M-W2
9S	7	9.45	7.09	1.97	1.18	7/8-9 UNC	AF-9S-U-W1*
100	0	331	256	62	46	M30	AF-10S-M-W2
10S	8	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 8S to 10S in North America is W1 (Carbon Steel, uncoated).







1) Type of Installation

Please select the type of installation (e.g. Weld Plates, Rail Nuts etc.) and add the corresponding Code to position $\ensuremath{\textcircled{1}}$ 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



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	Availabil Body Ma			
STAUFF	P/T/H	Profiled			
(DIN)	(mm)	Design	Type H	Type RI	Code
	6	•	•	0	3006
	6,4	•	•	0	3006.4
	8	•	•	0	3008
	9,5	•	•	0	3009.5
	10	•	•	0	3010
	12	•	•	0	3012
3S	12,7	•	•	0	3012.7
(1)	13,5	•	•	0	3013.5
	14	•	•	0	3014
	15	•	•	0	3015
	16	•	•	0	3016
	17,2	•	•	0	3017.2
	18	•	•	0	3018
	20	•	0	0	3020

(2) Group Size & Diameter CONTINUATION

Group Outside Availability of Clamp

Group	Outside	Availabi			
0741155	Diameter		aterials &	Designs	
STAUFF	P/T/H	Profiled			
(DIN)	(mm)	Design	Type H	Type RI	Code
	6	0	0	•	4006
	8	0	0	•	4008
	10	0	0	•	4010
	12	0	0	•	4012
	12,7	0	0	•	4012.7
	14	0	0	•	4014
	15	0	0	•	4015
	16	0	0	•	4016
4 S	17,2	0	0	•	4017.2
(2)	18	0	0	•	4018
(2)	19	•	•	•	4019
	20	•	•	0	4020
	21,3	•	•	0	4021.3
	22	•	•	0	4022
	25	•	•	0	4025
	25,4	•	•	0	4025.4
	26,9	•	•	0	4026.9
	28	•	•	0	4028
	30	•	•	0	4030
	20	0	0	•	5020
	21,3	0	0	•	5021.3
	22	0	0	•	5022
	25	0	0	•	5025
	26,9	0	0	•	5026.9
	28	0	0	•	5028
5S	30	•	•	•	5030
(3)	32	•	•	•	5032
, ,	33,7	•	•	0	5033.7
	35	•	•	0	5035
	38	•	•	0	5038
	40	•	•	0	5040
	41,3	•	•	0	5041.3
	42	•	•	0	5042
	32	0	0	•	6032
	33,7	0	0	•	6033.7
	35	0	0	•	6035
	38	•	•	0	6038
	38,7	0	0	•	6038.7
	40	0	0	•	6040
	40			•	6042
6S	44,5	•	•	0	
(4)	44,5	0	0	•	6044.5 6045.5
	45,5	0	0	•	6048
				0	
	48,3	•	•		6048.3
	50,8	•	•	0	6050.8
	51	0	0	•	6051
	53,4	0	0	•	6053.4
	54	•	0	0	6054

(2) Group Size & Diameter CONTINUATION

Group	Outside Diameter	Body Ma	lity of Cla aterials &	•	
STAUFF	P/T/H	Profiled			
(DIN)	(mm)	Design	Type H	Type RI	Cod
	55	•	•	0	605
	56,4	0	0	•	605
	57	•	•	0	605
6S	57,2	•	•	0	605
(4)	60,3	•	•	0	606
	63,5	•	•	0	606
	65	•	•	0	606
	70	•	•	0	6070
	55	0	0	•	705
	57	0	0	•	705
	60	0	0	•	706
	60,3	•	0	0	706
	63,5	0	0	•	706
	65	•	0	•	706
70	70	•	0	•	7070
7S (5)	72	0	0	•	707
(3)	73	•	0	0	7073
	75	•	0	0	707
	76	0	0	•	7076
	76,1	•	0	0	7070
	80	•	0	0	708
	82,5	•	0	0	708
	88,9	•	0	0	708
	80	0	0	•	808
	88,9	•	0	•	808
	100	•	0	0	8100
8S	102	•	0	•	8102
(6)	108	•	0	0	8108
	114	•	0	0	8114
	127	•	0	0	8127
	133	•	0	0	813
	114	0	0	•	9114
	127	•	0	0	9127
	133	•	0	•	9133
9S	140	•	0	•	9140
(7)	152	•	0	0	9152
	159	•	0	0	9159
	165	•	0	0	916
	168	•	0	0	9168
	150	0	0	•	1015
	165	0	0	•	1016
	168	•	0	•	1016
400	172	0	0	•	1017
10S (8)	177,8	•	0	0	1017
	193,7	•	0	0	1019
	203	•	0	0	1020
	216	•	0	0	102
	219	•	0	0	102
	219	•	0	0	1121
11\$	273	•	0	0	1127
(9)	324	•	0	0	1132
12S	356	•	0	0	123
(10)	406		0	0	1240

Standard Option



Please see pages 50 and 51 with detailed order examples for some of the most popular Heavy Series clamp assemblies.

3 Clamp Body Design & Material

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

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

Profiled Design



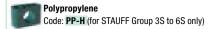








Type H (Smooth)





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

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

Type RI (with Elastomer Insert)

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

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

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

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

(4) Mounting & Fitting Combination

Please select the mounting and fitting combination (e.g. bolts, screws, cover plates etc.) and add the corresponding Code to position ③ of the order code for your clamp assembly.

Installation with Cover Plate and Bolts

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

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

Cover Plate for Single Clamps DPAL with

Socket Cap Screws IS*

Code: DPAL-IS (for STAUFF Group 3S to 6S only)

Installation with Locking Plate and Bolts

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

Installation with Bolts only

Socket Cap Screws IS

Code: IS

Special lengths of Socket Cap Screws IS required.
 For exact lengths, please see details of Hexagon Head Bolt,
 type AS

(for use with Cover Plates DPAL or DPAS) on page 45.

5 Thread Type

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

Metric ISO thread

Code: M

Unified coarse (UNC) thread

Code: U

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

(6) Material & Surface Finishing

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

Metal parts made of Carbon Steel, uncoated	W1
Metal parts made of Carbon Steel, phosphated	W2
Metal parts made of Carbon Steel, zinc/nickel-plated	W3
Metal parts made of Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303)	W4
Metal parts made of Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)	W5
Weld Plate made of Carbon Steel, phosphated; Other metal parts made of Carbon Steel, zinc/nickel-plated	W10

metal parts made of Carbon Steel, zinc/nickel-plated	
Weld Plate and Cover Plate made of Carbon Steel,	

W12

phosphated; Bolts made of Carbon Steel, uncoated

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

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.

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)

0.D. 6 mm / .24 in Material: Polypropylene

Profiled inside surface with tension clearance

1x Weld Plate for Single Clamps

Surface: W2 Thread: Metric



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) 0.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

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.



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) 0.D. 6 mm / .24 in Material: Polypropylene

1x Elongated Weld Plate for Single Clamps

Profiled inside surface with tension clearance

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.



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) 0.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

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.



2x Socket Cap Screw

Surface: W1 Thread: Metric

1x Clamp Body (two halves)

STAUFF Group 3S (DIN 1) 0.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

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) 0.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-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.

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) 0.D. 6 mm / .24 in

Material: Polypropylene

Profiled inside surface with tension clearance

2x Mounting Rail Nut

Surface: W3 Thread: Metric



2x Socket Cap Screw

Surface: W1 Thread: Metric

1x Clamp Body (two halves)

STAUFF Group 3S (DIN 1) 0.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 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

Thread codes

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

Order Code (Mounting Rail STSV not included.)

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

GMV-3006-PP-IS-M-W13

Metric ISO thread Unified coarse (UNC) thread

N L

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 Metal parts made of Carbon Steel, phosphated Metal parts made of Carbon Steel, zinc/nickel-plated	W1 W2 W3
Metal parts made of Stainless Steel V2A: 1.4301 / 1.4305 (AISI 304 / 30 Metal parts made of Stainless Steel V4A: 1.4401 / 1.4571 (AISI 316 / 31	,
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 Pla Carbon Steel, phosphated; Bolts made of Carbon Steel, uncoated	te made of 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 Pla Carbon Steel, phosphated; Bolts made of Carbon Steel, zinc/nickel-plate	Wih
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

Order Code

3006-PP-DPAL-AS-M-W19

 $\mathbf{W19}$ (STAUFF Group 3S to 7S) and $\mathbf{W1}$ (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)

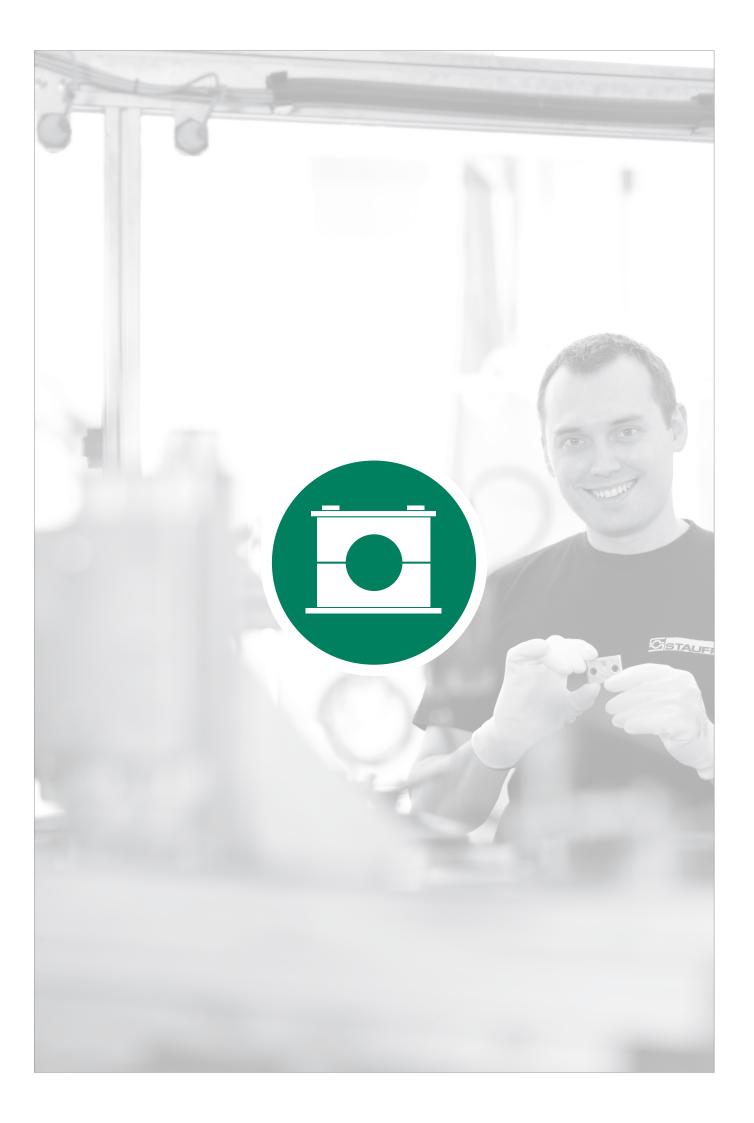
O.D. 6 mm / .24 in Material: Polypropylene

Profiled inside surface with tension clearance

Order Code

3006-PP-SIP-AF-M-W2

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







Clamp Body

Clamp Body

Profiled Inside Surface with Tension Clearance

Smooth Inside Surface without Tension Clearance

54

Single Weld Plate

SP

Group Weld Plate

55

55

54

RAP

Hexagon Rail Nut

SM

56

Mounting Rail

TS

Channel Rail Adaptor CRA

57

56

Cover Plate GD

58

Hexagon Head Bolt

AS

58

Socket Cap Screw IS

59

Safety Locking Plate

60

Safety Locking Plate SIV

60

Stacking Bolt

AF

Clamp Assemblies

62

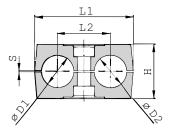
Clamp Body • Profiled Design

Clamp Body - Type H

Profiled Inside Surface with Tension Clearance 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)

06/06

Designs & Standard Materials



Polypropylene • Profiled Design

Profiled inside surface with tension clearance Colour: Green

Material code: PP



Polypropylene • Profiled Design

Profiled inside surface with tension clearance Colour: Black

Material code: PP-BK



Polypropylene - Type H

Smooth inside surface without tension clearance

Colour: Green

Material code: PP-H



Polypropylene • Type H

Smooth inside surface without tension clearance

Colour: Black

Material code: PP-H-BK



Polyamide - Profiled Design

Profiled inside surface with tension clearance

Colour: Black Material code: PA



Polyamide . Type H

Smooth inside surface without tension clearance

Colour: Black

Material code: PA-H

See pages 154 / 155 for properties and technical information.

Special Materials

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

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

Product Features

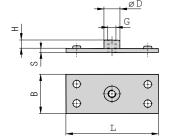
- Proven, tested and trusted product in various markets
- Profiled design recommended for the safe installation of rigid pipes and tubes; type H recommended for the safe installation of hoses and cables
- Available for all commonly used pipe and tube outside diameters
- Environmental protection due to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

Group 出			Diameter be / Hose	Nomin	Nominal Bore Ordering Cod Copper Tube (2 Clamp Hal		Dimensions (mm/in)					
STAUFF	z	Ø D1 / Ø		Pipe	ASTM B88	, , , , , , , , ,			Profile	d Design	ТуреН	
S	NO	(mm)	(in)	(in)	(in)	(**-* = Material)	L1	L2	Н	S min.	Н	Width
		6				106/06-**-*						
		6,4	1/4			106.4/06.4-**-*						
1D	1	8	5/16			108/08-**-*	36	20	27	0,6	26,5	30
10	'	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-**-*						
		12,7	1/2		3/8	212.7/12.7-**-*						
		13,5		1/4		213.5/13.5-**-*						
		14				214/14-**-*						
2D	2	15				215/15-**-*	53	29	1.06	.03	26 1.02	30
		16	5/8		1/2	216/16-**-*						
		17,2		3/8		217.2/17.2-**-*						
		18				218/18-**-*						
		19	3/4			319/19-**-*						
		20				320/20-**-*						
3D	3	21,3		1/2		321.3/21.3-**-*	67	36	37	0,7	36,5	30
3D	3	22	7/8		3/4	322/22-**-*	2.64	1.42	1.46	.03	1.44	1.18
		25				325/25-**-*						
		25,4	1			325.4/25.4-**-*						
		26,9		3/4		426.9/26.9-**-*						
4D	4	28				428/28-**-*	3.15	45 1.77	40 1.57	.03	38	30
		30				430/30-**-*						
		32	1-1/4			532/32-**-*						
		33,7		1		533.7/33.7-**-*						
ED.	_	35			1-1/4	535/35-**-*	106	56	53	0,7	52	30
5D	5	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

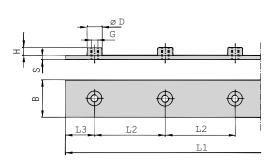




Group		Dimension	S (mm/in)	Ordering Codes				
STAUFF	DIN	L	В	S	Н	ØD	Thread G	(Standard Options)
1D	1	37	30	3	6,5	12	M6	SP-1D-M-W2
טו	'	1.46	1.18	.12	.26	.47	1/4-20 UNC	SP-1D-U-W2
2D	0	55	30	5	6	14	M8	SP-2D-M-W2
20	2	2.17	1.18	.20	.24	.55	5/16-18 UNC	SP-2D-U-W2
3D	3	70	30	5	6	14	M8	SP-3D-M-W2
่งบ	3	2.76	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
40	4	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
טט	υ L	4.33	1.18	.20	.24	.55	5/16-18 UNC	SP-5D-U-W2

Ordering Codes									
Weld Plate	*SP-*1D-*M-*W	12							
* Single Weld Pla	te	SP							
* STAUFF Group		1D							
* Thread code	Metric ISO thread Unified coarse (UNC) thread	M U							
* Material code	carbon otoon, pricopriated	N2 N3							
	Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303)	N4							
	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.



Group Weld Plate for 5 Clamp Bodies Type RAP

Group	roup Dimensions (mm/in)									Ordering Codes
STAUFF	DIN	L1	L2	L3	В	S	Н	ØD	Thread G	(Standard Options)
1D	1	196	40	18	30	3	6,5	12	M6	RAP-1D-40-5-M-W1
טו	'	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
20		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
שט	3	14.09	2.83	1.37	1.18	.20	.24	.55	5/16-18 UNC	RAP-3D-72-5-U-W1
40	4	444	90	42	30	5	6	14	M8	RAP-4D-90-5-M-W1
40	4D 4	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
טט	J	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.

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



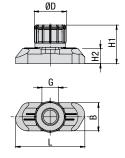
Hexagon Rail Nut (for Use with Mounting Rail TS) **Type SM**



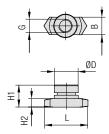


STAUFF Group 1D

STAUFF Group 2D to 5D



STAUFF Group 1D



STAUFF Group 2D to 5D

Ordering Codes

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

Group		Dimensions (m	"/in)		Ordering Codes			
STAUFF	DIN	Thread G	L	В	H1	H2	ØD	(Standard Options)
1D	1	M6	25,5	10,4	14,2	5,5	12	SM-1-8/1D-M-W3
טו		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
4D	4	5/16–18 UNC	1.00	.41	.51	.20	.55	SM-2-5D-U-W3
5D	5							

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

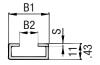
All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

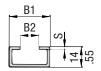
Mounting Rail

(for Use with Hexagon Rail Nut SM)

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 / 3.28ft 2m / 6.56ft 2M
Alternative lengths available upon request. Contact STAUFF for further information.
* Material code Carbon Steel, uncoated W1 Carbon Steel, hot-dip galvanised W98
Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303) Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)

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

Dimensional drawings: All dimensions in mm (in).



Group

1D

2D

3D

4D

5D

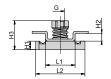
STAUFF DIN

2

3

4

5





Thread G

1/4-20 UNC

5/16-18 UNC

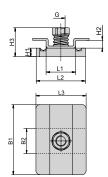
5/16-18 UNC

M8

M8

STAUFF Group 1D

Dimensions (mm/in)



STAUFF Group 2-3D / 4-5D

Н3

20,5

.81

23,5

23,5

H2

5,5

.22

5,5

5,5

.22

Ordering Codes

(Standard Options)

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

CRA-1-8/1D-U-W3

CRA-2-3D-M-W3

CRA-2-3D-U-W3

CRA-4-5D-M-W3

CRA-4-5D-U-W3

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



Ordering Codes					
Adaptor	*CRA-*1-8/1D-*M-*W3				
* Channel Rail Ad	aptor 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.

L2

35

1.38 | 1.57 | .63

35

35

1.38

1.38

21

.83

21

.83

21

.83

L3

40 | 16

38 53

38 80

1.50 3.15 .75 .3

1.50 2.09 .75

B1

B2

19 6

.75

19 9

19 9

H1

.35 .22

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.

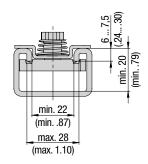


Compatibility with Channel Rails

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.



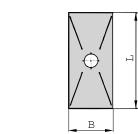
Basic dimensional requirements for channel rails to be used with STAUFF Channel Rail Adaptors, type CRA

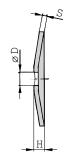
Dimensional drawings: All dimensions in mm (in).



C

Cover Plate Type GD







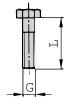
Ordering (Codes	
Cover Plate	*GD-*1D-*\	N3
* Cover Plate		GD
* STAUFF Group		1D
* Material code	Carbon Steel, zinc/nickel-plated	W3
	Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303) Stainless Steel V4A	W4
	1.4401 / 1.4571 (AISI 316 / 316 Ti)	W5

Group	Group		Dimensions (mm/in)					
STAUFF	DIN	L	В	Н	S	ØD	(Standard Options)	
1D	1	34	30	7	3	7	GD-1D-W3	
טו	1	1.34	1.18	.28	.12	.28	dD-ID-W3	
00	2	52	30	7	3	9	GD-2D-W3	
2D	2	2.05	1.18	.28	.12	.35	GD-2D-W3	
3D	3	65	30	7	3	9	GD-3D-W3	
งบ		2.56	1.18	.28	.12	.35	GD-3D-W3	
4D	4	79	30	7	3	9	GD-4D-W3	
40		3.11	1.18	.28	.12	.35	dD-4D-W3	
5D	5	102	30	7	3	9	GD-5D-W3	
טט	5	4.02	1.18	.28	.12	.35	GD-3D-W3	

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 AS or ANSI / ASME B18.2.1.) * Thread type and size acc. to dimension table M8x35 * Material code Carbon Steel, zinc/nickel-plated W3 Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303) Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)

Group STAUFF	DIN	Dimensions (mm/ $_{\rm in}$) 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
2υ	2	5/16–18 UNC x 1-3/8	AS-5/16-18UNCx1-3/8-W3
3D	3	M8 x 45	AS-M8x45-W3
טט		3	5/16–18 UNC x 1-3/4
40	4	M8 x 50	AS-M8x50-W3
4D	4	5/16–18 UNC x 2	AS-5/16-18UNCx2-W3
- FD	_	M8 x 60	AS-M8x60-W3
5D	5	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.



Group STAUFF DIN

2

3

5

1D

2D

3D

4D

5D

Dimensions (mm/in)

1/4-20 UNC x 1-3/8

5/16-18 UNC x 1-3/8

5/16-18 UNC x 1-3/4

5/16-18 UNC x 2

5/16-18 UNC x 2-1/2

Thread G x L

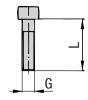
M6 x 35

M8 x 35

M8 x 50

M8 x 60

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 $\,$



IS-M8x50-W3

IS-M8x60-W3

IS-5/16-18UNCx2-W3

IS-5/16-18UNCx2-1/2-W3



Ordering C	odes	
Socket Cap S	crew *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	8x35
* Material code	Carbon Steel, zinc/nickel-plated	W3
	Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303) Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)	W4 W5

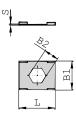
All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



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

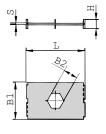
Group STAUFF	DIN	Dimensions (mm/in) L	B1	B2	S	Ordering Codes (Standard Options)
10	4	27	22	11,2	0,5	CL 4D WO
1D	1	1.06	.86	.44	.02	SI-1D-W3
2D	2					
3D	3	27	22	12,2 0,5	0,5	0.0 TD W
4D	4	1.06	.86	.48	.02	SI-2-5D-W3
5D	5					

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)

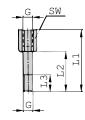
Ordering C	odes	
Safety Lockin	ng Plate *SIV-*1D-*\	N3
* Safety Locking I	Plate	SIV
* STAUFF Group	1D (DIN Group 1) 2D to 3D (DIN Group 2 to 3)	1D 2-3D
* Material code	Carbon Steel, zinc/nickel-plated	W3
	Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)	W5

Group STAUFF	DIN	Dimensions (ⁿ L	^{nm} /in) B1	B2	S	Н	Ordering Codes (Standard Options)
1D	4	27	28	11,1	1	7	SIV-1D-W3
טו	'	1.06	1.10	.44	.04	.27	SIV-ID-WS
2D	2	45	28	12,1	1	7	CIV a an wa
3D	3	1.77	1.10	.48	.04	.27	SIV-2-3D-W3

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





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

Ordering Co	odes *AF-*1/1A/1D-*M-*\	N3
* Stacking Bolt		AF
* STAUFF Group		1D
* Thread code	Metric ISO thread Unified coarse (UNC) thread	M U
* Material code	Carbon Steel, zinc/nickel-plated	W3
	Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303) Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)	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.





Please see page 63 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	Diameter	Availability of Body Materia	•	
STAUFF	P/T/H	Profiled	Туре	
(DIN)	(mm)	Design	Н	Code
	6	•	•	106/06
	6,4	•	•	106.4/06.4
1D	8	•	•	108/08
(1)	9,5	•	•	109.5/09.5
	10	•	•	110/10
	12	•	•	112/12
	12,7	•	•	212.7/12.7
	13,5	•	•	213.5/13.5
0.0	14	•	•	214/14
2D (2)	15	•	•	215/15
(2)	16	•	•	216/16
	17,2	•	•	217.2/17.2
	18	•	•	218/18
	19	•	•	319/19
	20	•	•	320/20
3D	21,3	•	•	321.3/21.3
(3)	22	•	•	322/22
	25	•	•	325/25
	25,4	•	•	325.4/25.4
4D	26,9	•	•	426.9/26.9
4D (4)	28	•	•	428/28
(4)	30	•	•	430/30
	32	•	•	532/32
	33,7	•	•	533.7/33.7
5D	35	•	•	535/35
(5)	38	•	•	538/38
	40	•	•	540/40
	42	•	•	542/42

(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



Code: PA

Type H (Smooth)



Polypropylene Code: PP-H



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





See pages 154 / 155 for material properties

and technical information.

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

4 Mounting & Fitting Combination

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

Installation with Cover Plate and Bolt

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

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

Installation with Locking Plate and Bolt

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

Safety Locking Plate SIV with Stacking Bolt AF

Code: SIV-AF (for STAUFF Group 1D to 3D only)

(5) Thread Type

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

Metric ISO thread

Code: M

Unified coarse (UNC) thread

Code: U

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

6 Material & Surface Finishing

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

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

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

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

W4

W5

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

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

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)

Standard Option



1x Hexagon Head Bolt

Thread: Metric

Surface: W3

Surface: W3

1x Clamp Body (two halves)

STAUFF Group 1D (DIN 1)

both 0.D. 6 mm / .24 in

Material: Polypropylene

Profiled inside surface

with tension clearance

1x Cover Plate





1x Hexagon Head Bolt

Surface: W3 Thread: Metric

1x Cover Plate

Surface: W3

1x Clamp Body (two halves) STAUFF Group 1D (DIN 1) both 0.D. 6 mm / .24 in Material: Polypropylene Profiled inside surface with tension clearance

1x Weld Plate

Surface: W2 Thread: Metric

Order Code

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

W3 is the standard option for this type of installation.

Order Code

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

W10 is the standard option for this type of installation.



STAUFF Group 1D (DIN 1) both 0.D. 6 mm / .24 in Material: Polypropylene Profiled inside surface with tension clearance

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 0.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.

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 0.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

М

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 W4

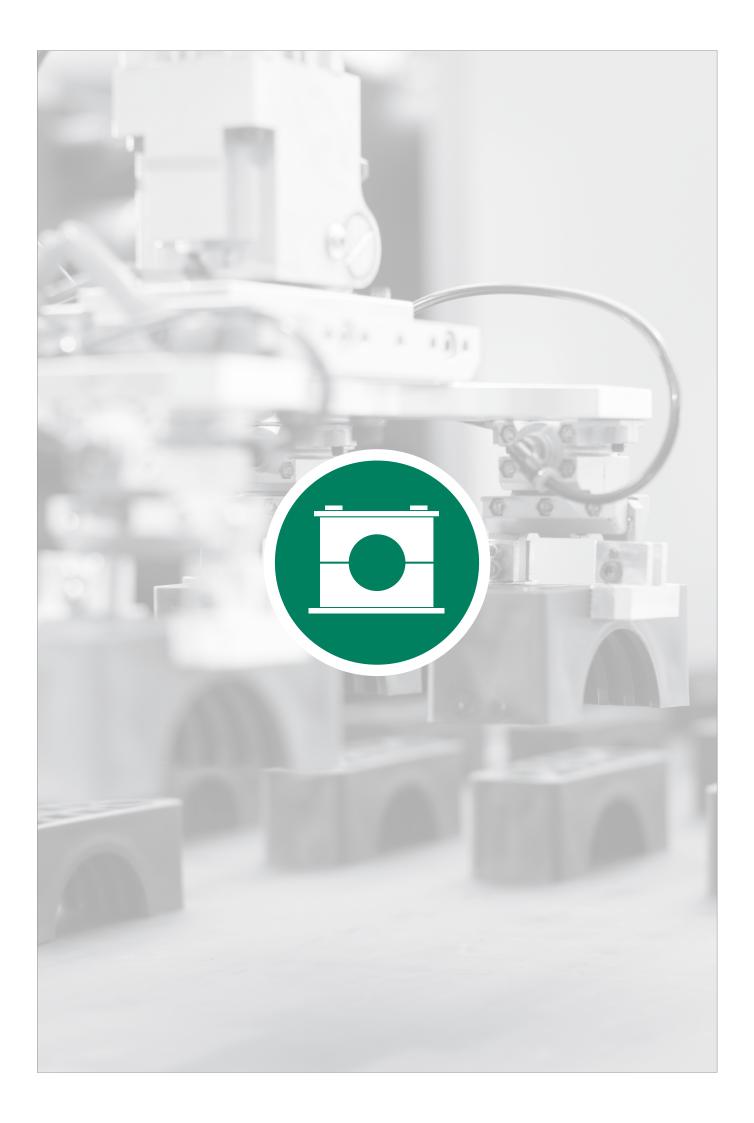
Metal parts made of Stainless Steel V2A: 1.4301 / 1.4305 (AISI 304 / 303) Metal parts made of Stainless Steel V4A: 1.4401 / 1.4571 (AISI 316 / 316 Ti)

W5

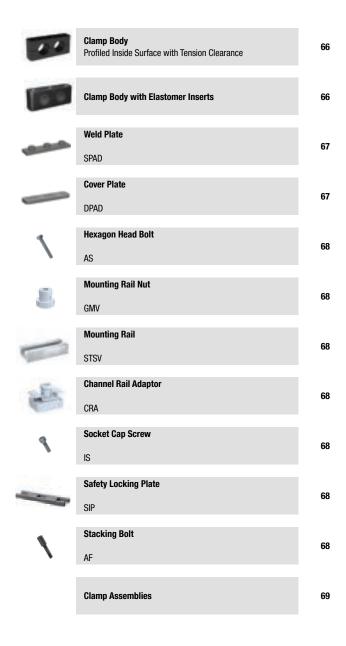
Weld Plate made of Carbon Steel, phosphated

Other metal parts made of Carbon Steel, zinc/nickel-plated

W10



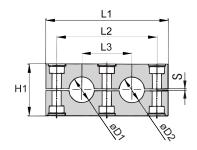




Clamp Body • Profiled Design

Profiled Inside Surface with Tension Clearance





Group Outside Diameter Nominal Bore

Ordering Codes

Clamp Body

*4*012.7/12.7-*PP

One clamp body is consisting of two clamp halves.

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

	Pipe / Tul Ø D1 / Ø		Pipe	Copper Tube ASTM B88	(2 Clamp Halves)						
STAUFF	(mm)	(in)	(in)	(in)	(** = Material)	L1	L2	L3	H1	S	Width
	12,7	1/2		3/8	4012.7/12.7-**						
	19	3/4			4019/19-**				40	1.0	30
	20				4020/20-**	115	90	45			
4S-D	21,3		1/2		4021.3/21.3-**	4.53	3.54	1.77	1.89	1,2 .05	1.18
	22			3/4	4022/22-**	4.55	3.54	1.77	1.09	.03	1.10
	25,4	1			4025.4/25.4-**	1					
	26,9		3/4		4026.9/26.9-**						
	32	1-1/4			5032/32-**						
50 D	33,7		1		5033.7/33.7-**	145	120	60	60	2,0	30
5S-D	38	1-1/2			5038/38-**	5.71	4.72	2.36	2.36	.08	1.18
	42		1-1/4		5042/42-**						

Ordering Codes

Dimensions (mm/in)

Standard Materials



Polypropylene Colour: Green Material code: PP



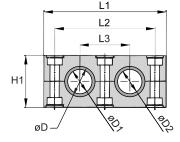
Polyamide Colour: Black Material code: PA

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

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

Clamp Body with Elastomer Inserts Type RI





For use with Elastomer Inserts of the Heavy Series, STAUFF Group 4S and 5S (see page 39 for details)

(mm/in)

Ordering Codes

(Clamp Assembly)

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
- * Exact outside diameters Ø D1 / Ø D2 (mm) 006/06
- * Material code (see below)

PP-R

Group

Outside Diameter

Pipe / Tube / Hose

Ø D1 / Ø D2

Standard Materials



Polypropylene Colour: Black Material code: PP-R



Polyamide Colour: Black Material code: PA-R



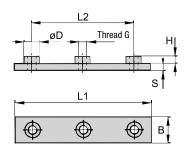
Flastomer Inserts Thermoplastic Elastomer (73 Shore-A)

Colour: Black

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







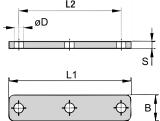




Group	Dimensio	ons (^{mm} /in)	Ordering Codes					
STAUFF	L1	L2	В	S	Н	Thread G	ØD	(Standard Options)
4S-D	130	90	30	8	8,5	M10	18	SPAD-4S-M-W1
43-D	5.12	3.54	1.18	.31	.33	3/8-16 UNC	.71	SPAD-4S-U-W2*
5S-D	160	120	30	8	8,5	M10	18	SPAD-5S-M-W1
ט-ט	6.30	4.72	1.18	.31	.33	3/8-16 UNC	.71	SPAD-5S-U-W2*

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

Ordering Codes *SPAD-*4S-*M-*W1 **Weld Plate** * Weld Plate SPAD * STAUFF Group **4S** 4S-D 5S-D **5S** * Thread code Metric ISO thread M Unified coarse (UNC) thread U Carbon Steel, uncoated W1 * 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 1.4401 / 1.4571 (AISI 316 / 316 Ti)



-	L2		
_ 0	D		
		s	
-	L1	-	
Φ	Φ	ф в	
(Ψ	Ψ	Ψ) - (

Group	Dimensions (Dimensions (mm/in)					
STAUFF	L1	L2	В	S	ØD	(Standard Options)	
4\$	115	90	30	8	11	DPAD-4S-W1*	
45	4.53	3.54	1.18	.31	.43	DFAD-43-W1	
EC	145	120	30	8	11	DPAD-5S-W1*	
5S	5.71	4.72	1.18	.31	.43	DLAD-29-M I	

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 Type DPAD



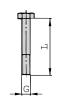
Ordering Codes					
Cover Plate	*DPAD-*4S-*	W1			
* Cover Plate	0	PAD			
* STAUFF Group	4S-D 5S-D	4S 5S			
* Material code	Carbon Steel, uncoated Carbon Steel, phosphated Carbon Steel, zinc/nickel-plated	W1 W2 W3			
	Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303) Stainless Steel V4A	W4			
	1.4401 / 1.4571 (AISI 316 / 316 Ti)	W5			

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

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

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

Group STAUFF	DIN	Dimensions (mm/ $_{\rm in}$) Thread G x L	Ordering Codes (Standard Options)
4S	2	M10 x 60	AS-M10x60-W1
43		3/8–16 UNC x 2-1/4	AS-3/8-16UNCx2-1/4-W3*
EC	2	M10 x 70	AS-M10x70-W1
5S	3	3/8-16 UNC x 2-3/4	AS-3/8-16UNCx2-3/4-W3*

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

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

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

Further Metal Hardware

For Use with the Heavy Twin Series



Mounting Rail Nut Type GMV

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



Type STSV

Heavy Series (See page 42 for details)



Channel Rail Adaptor Type CRA

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



Socket Cap Screw Type IS

Heavy Series, STAUFF Group 4S and 5S (See page 45 for details)



Safety Locking Plate Type SIPD

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



Stacking Bolt Type AF

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



W5

W18

W19





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 crder code for your clamp assembly.

Group	Outside Diameter	Availability		
	P/T/H	Body Materia Profiled		
STAUFF	(mm)	Design	Type RI	Code
STAUFF	6	Design	Type ni	4006/06
	8	0	•	4008/08
	10	0	•	4008/08
	12	_	•	4010/10
		0	•	
	12,7	•	•	4012.7/12.7
		0	•	4014/14
	15	0	•	4015/15
4S-D	16	0	•	4016/16
	17,2	0	•	4017.2/17.2
	18	0	•	4018/18
	19	•	•	4019/19
	20	•	0	4020/20
	21,3	•	0	4021.3/21.3
	22	•	0	4022/22
	25,4	•	0	4025.4/25.4
	26,9	•	0	4026.9/26.9
	20	0	•	5020/20
	21,3	0	•	5021.3/21.3
	22	0	•	5022/22
	25	0	•	5025/25
	26,9	0	•	5026.9/26.9
5S-D	28	0	•	5028/28
	30	0	•	5030/30
	32	•	•	5032/32
	33,7	•	0	5033.7/33.7
	38	•	0	5038/38
	42	•	0	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





Type RI (with Elastomer Insert)





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)

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

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

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;

W13

Bolts made of Carbon Steel, uncoated

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

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

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

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

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

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.

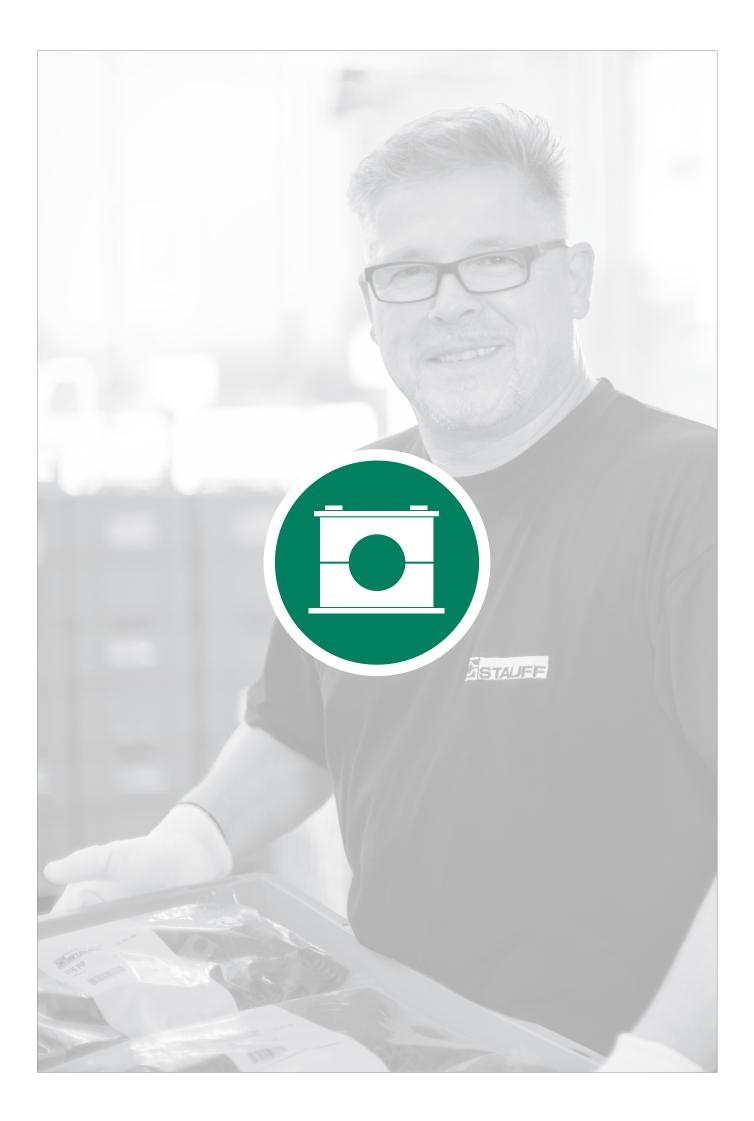
Components Supplied Separately

Code: none (Standard Option)

Components Assembled Code: A (Special Option)

Components Packed in Kits Code: K (Special Option)







Introduction	72
Standard Series	74-81
ACT Clamp Body	74
Installation on Weld Plates	75
Multi-Level Installation (with Weld Plate)	76
Installation with Channel Rail Adaptors	77
Installation in Field Trays / Cable Ladders	78
Multi-Level Installation (with Stacking & Hammerhead Bolts)	79
Multi-Level Installation in Field Trays / Cable Ladders (with Hammerhead Bolts)	80
Clamp Assemblies	81
Twin Series	82-89
ACT Clamp Body	82
Installation on Weld Plates	83
Multi-Level Installation (with Weld Plate)	84
Installation with Channel Rail Adaptors	85
Installation in Field Trays / Cable Ladders	86
Multi-Level Installation (with Stacking & Hammerhead Bolts)	87
Multi-Level Installation in Field Trays / Cable Ladders (with Hammerhead Bolts)	88
Clamp Assemblies	89

STAUFF

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 Technolog 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

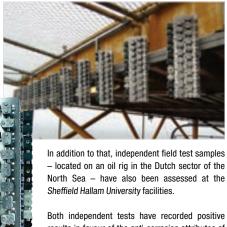
Throughout their development, STAUFF ACT Clamps have been subject to stringent testing at the STAUFF in-house laboratories located in Werdohl, Germany.

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



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.

In a controlled laboratory environment, continous 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.



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.

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.

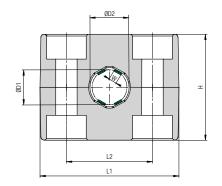
Standard Series according to DIN 3015, Part 1

ACT Clamp Body





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



Ordering Codes

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

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

* STAUFF Group 2 12.7 * Exact outside diameter Ø D1 (mm)

* Material code ACT

Group S	ize	Outside Ø D1	Diameter	Ordering Code	Packaging Unit	Dimer	nsions (mm/in)			
STAUFF	DIN	(mm)	(in)	(2 Clamp Halves)	(in pieces / bag)	ØD2	w	L1	L2	н	Width
		3,2	1/8	103.2A-ACT	25	6,2	1,1				
		3,2	1/0	103.2A-A01	20	.24	.04				
		6		106A-ACT	25	9	1,4				
						.35	.06				
		6,4	1/4	106.4A-ACT	25	9,4	1,5	-			
						11,0	1,8	37	20	26	30
1A	1	8		108A-ACT	25	.43	.07	1.46	.79	1.06	1.18
		9,5	3/8	109.5A-ACT	25	12,5	2,2				
		3,0	3/0	109.0A-A01	23	.49	.09				
		10		110A-ACT	25	13	2,3				
						.51 15	2,8	-			
		12		112A-ACT	25	.59	.11	-			
		40.7	4.00	040 7 407	05	15,7	3,5				
		12,7	1/2	212.7-ACT	25	.62	.14				
		14		214-ACT	25	17	3,5				
				2117101	20	.67	.14				
		14,3	9/16	214.3-ACT	25	17,3	3,5	40	00	00	00
2	2					.68	3,5	1.65	1.02	1.30	30 1.18
		15		215-ACT	25	.71	.14	1.00	1.02		1.10
		40	5.10	040 407	0.5	19	3,5				
		16	5/8	216-ACT	25	.74	.14				
		18		218-ACT	25	21	3,5				
		10		210-A01	23	.83	.14				
		19	3/4	319-ACT	25	.87	3,5				
						23	3,5	1			
		20		320-ACT	25	.91	.14	-			
0	0	01.0		201 2 407	0.5	24,3	3,5	50	33	35,5	30
3	3	21,3		321.3-ACT	25	.96	.14	1.97	1.30	1.42	1.18
		25		325-ACT	25	28	3,5				
						1.10	.14				
		25,4	1	325.4-ACT	25	28,4	3,5	-			
						31,1	6,0				
		26,9		426.9-ACT	25	1.22	.24	1			
4	4	28		428-ACT	25	32,2	6,0	59	40	42	30
4	4	20		420-A01	20	1.27	.24	2.32	1.57	1,65	1.18
		30		430-ACT	25	34,2	6,0	-			
						1.35	.24				
		32	1 1/4	532-ACT	25	1.43	.28	-			
		05		505 407	05	39,2	7				
5	5	35		535-ACT	25	1.54	.28	71	52	58	30
5	5	38	1 1/2	538-ACT	25	42,2	8	2.80	2.05	2.28	1.18
			, _			1.66	.31				
		42		542-ACT	25	46,2	8				
						1.82	.31				

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







ACT Mounting Hardware Installation on Single Weld Plates

Required components (for use with single weld plate):

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

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

W55

ACT Mounting HardwareMaterial Properties and Handling Instructions

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

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

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

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



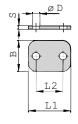


Dimensions applicable only when used with Cover Plate DP and Weld Plate SP

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

ACT Cover Plate Type DP ... W55



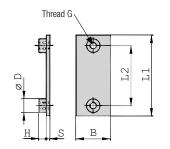


P	DELSTAN
н	Rost
н	froi
-	(" C)
	~

Group		Dimen	sions (^m	ım/in)		Ordering Code	Packaging Unit	
STAUFF	DIN	L1	L2	В	S	ØD		(in pieces / bag)
1A	1	34	20	30	3	7	DP-1A-W55	25
IA.	1	1.34	.79	1.18	.12	.28	DF-IA-W55	20
2	2	40,5	26	30	3	7	DP-2-W55	25
2	2	1.59	1.02	1.18	.12	.28	DF-2-W55	20
3	3	48	33	30	3	7	DP-3-W55	25
3	3	1.89	1.30	1.18	.12	.28	DF-3-W33	20
4	4	57	40	30	3	7	DP-4-W55	25
4	4	2.24	1.57	1.18	.12	.28	DF-4-W55	20
E	E	70	52	30	3	7	DP-5-W55	O.E.
5	5	2.76	2.05	1.18	.12	.28	มห-อ-พออ	25

ACT Single Weld Plate Type SP ... W55





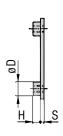


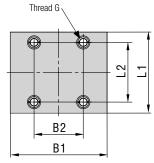
Group		Dime	ensio	1s (^{mm} ,	/in)				Ordering Code	Packaging Unit
STAUFF	DIN	G	L1	L2	В	S	Н	ØD		(in pieces / bag)
1A	1	M6	36	20	30	3	6,5	12	SP-1A-M-W55	25
IA	1	IVIO	1.42	0.79	1.18	.12	.26	.47	3F-IA-WI-W33	20
2	2	M6	42	26	30	3	6,5	12	SP-2-M-W55	25
2	2	IVIO	1.65	1.02	1.18	.12	.26	.47	3F-2-W-W33	20
3	3	M6	50	33	30	3	6,5	12	SP-3-M-W55	25
3	3	IVIO	1.97	1.30	1.18	.12	.26	.47	3F-3-W1-W33	25
4	4	M6	60	40	30	3	6,5	12	SP-4-M-W55	25
4	4	IVIO	2.36	1.57	1.18	.12	.26	.47	3F-4-IVI-W33	20
5	5	Me	71	52	30	3	6,5	12	SP-5-M-W55	25
5	5	M6	2.80	2.05	1.18	.12	.26	.47	5P-3-IVI-W33	20



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

ACT Double Weld Plate Type SPD ... W55





EDELSTAHL
Rost
frei
_
INOX STAINLESS STEEL

Group		Dim	ensio	ns (m	n/in)					Ordering Code	Packaging Unit
STAUFF	DIN	G	L1	L2	B1	B2	S	Н	ØD		(in pieces / bag)
1A	1	M6	36	20	60	30,5	3	6,5	12	SPD-1A-M-W55	25
IA	'	IVIO	1.42	0.79	2.36	1.20	.12	.26	.47	3FD-IA-IVI-W33	23
2	2	M6	42	26	60	30,5	3	6,5	12	SPD-2-M-W55	25
2	2	IVIO	1.65	1.02	2.36	1.20	.12	.26	.47	3FD-2-1VI-VV33	20
3	3	M6	50	33	60	30,5	3	6,5	12	SPD-3-M-W55	25
3	3	IVIO	1.97	1.30	2.36	1.20	.12	.26	.47	3FD-3-IVI-W33	20





ACT Mounting HardwareMulti-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).

W55

ACT Mounting HardwareMaterial Properties and Handling Instructions

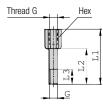
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

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. <u>Details: www.stauff.com/act/assembly</u>

ACT Stacking Bolt Type AF ... W55





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







Group		Dimens	sions (mm	/in)		Ordering Code	Packaging Unit
STAUFF	DIN	L	B1	B2	S		(in pieces / bag)
1A	1	33	28	11,2	2	SIG-1A-ACT-W55	25
IA	'	1.30	1.10	.44	.08	SIG-TA-ACT-W33	25
2	2	39	28	11,2	2	SIG-2-ACT-W55	25
		1.54	1.10	.44	.08	310-2-AC1-W33	20
3	3	47	28	11,2	2	SIG-3-ACT-W55	25
3	3	1.85	1.10	.44	.08	310-3-AC1-W33	23
4	4	56	28	11,2	2	SIG-4-ACT-W55	25
4	4	2.20	1.10	.44	.08	31G-4-AG1-W33	25
5	5	69	28	11,2	2	SIG-5-ACT-W55	25
3	J	2.72	1.10	.44	.08	310-3-AC1-W33	25

Group		Dime	nsions (mm/in)			Ordering Code	Packaging Unit
STAUFF	DIN	G	L1	L2	L3 min.	Hex		(in pieces / bag)
1A	1	M6	34	20	12	11	AF-1/1A/1D-M-W55	25
IA	1	IVIO	1.34	.79	.47	.43	AF-1/1A/1D-W-W33	20
2	2	M6	40	26	12	11	AF-2-M-W55	25
	2	IVIO	1.57	1.24	.47	.43	AF-2-IVI-W00	20
3	3	M6	44	30	12	11	AF-3-M-W55	25
3	3	IVIO	1.73	1.18	.47	.43	AF-3-IVI-VV33	20
4	4	M6	49	35	12	11	AF-4-M-W55	25
4	4	IVIO	1.93	1.38	.47	.43	AF-4-IVI-VVJJ	20
5	5	M6	64	50	12	11	AF-5-M-W55	25
J	υ	IVIO	2.52	1.97	.47	.43	AL-0-IAI-013	20





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 Gode

ACT Mounting HardwareMaterial Properties and Handling Instructions

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

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

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

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



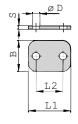


Dimensions applicable only when used with Cover Plate DP and Weld Plate SP

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

ACT Cover Plate Type DP ... W55



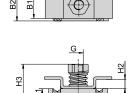




Group		Dimen	sions (ım/in)		Ordering Code	Packaging Unit	
STAUFF	DIN	L1	L2	В	S	ØD		(in pieces / bag)
1A	1	34	20	30	3	7	DP-1A-W55	25
IA.	'	1.34	.79	1.18	.12	.28	DF-IA-W33	20
2	2	40,5	26	30	3	7	DP-2-W55	25
2	2	1.59	1.02	1.18	.12	.28	DF-2-W55	20
3	3	48	33	30	3	7	DP-3-W55	25
3	3	1.89	1.30	1.18	.12	.28	DF-3-W33	20
4	4	57	40	30	3	7	DP-4-W55	25
4	4	2.24	1.57	1.18	.12	.28	DF-4-W33	20
5	5	70	52	30	3	7	DP-5-W55	25
)	Ü	2.76	2.05	1.18	.12	.28	DL-9-M99	20

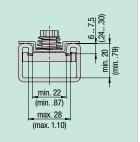
ACT Channel Rail Adaptor Type CRA ... W55





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.



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





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.

Waterial Code W55

ACT Mounting HardwareMaterial Properties and Handling Instructions

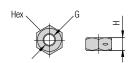
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

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)

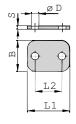






ACT Cover Plate

Type DP ... W55





For use with ACT Hammerhead Bolts HKS ... W55

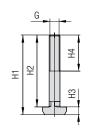
Group		Dimensions			Ordering Code	Packaging Unit
STAUFF	DIN	Thread G	Н	Hex		(in pieces / bag)
1A	1					
2	2					
3	3	M6	5	10	MUS-HKS-M6-W55	25
4	4		.20	.39		
5	5					

Rost frei

Group		Dimen	sions (^m	m/in)			Ordering Code	Packaging Unit	
STAUFF	DIN	L1	L2	В	S	ØD		(in pieces / bag)	
1A	1	34	20	30	3	7	DP-1A-W55	25	
IA	1	1.34	.79	1.18	.12	.28	DF-IA-W33	23	
2	2	40,5	26	30	3	7	DP-2-W55	25	
	2	1.59	1.02	1.18	.12	.28	DF-2-W33	20	
3	3	48	33	30	3	7	DP-3-W55	25	
3	3	1.89	1.30	1.18	.12	.28	DF-3-W33	20	
4	4	57	40	30	3	7	DP-4-W55	25	
4	4	2.24	1.57	1.18	.12	.28	DF-4-W33	20	
5	5	70	52	30	3	7	DP-5-W55	25	
J	J	2.76	2.05	1.18	.12	.28	DL-9-M99	20	

ACT Hammerhead Bolt Type HKS ... W55



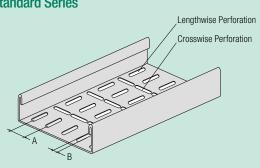




For use with Self-Locking ACT Nuts MUS-HKS \dots W55

Group		Dim	ensior	1 s (mm/i	n)				Ordering Code	Packaging Unit	
STAUFF	DIN	G	H1	H2	Н3	H4 min	В	L		(in pcs. / bag)	
1A	1	M6	44,3	40	4,3	20	6,1	13,3	HKS-M6x40-W55	25	
IA	1	IVIO	1.74	1.57	.17	.79	.24	.52	HK3-W0X40-W33	20	
2	2	M6	49,3	45	4,3	20	6,1	13,3	HKS-M6x45-W55	25	
2	2	IVIO	1.94	1.77	.17	.79	.24	.52	HK3-W6X45-W55	20	
3	3	M6	54,3	50	4,3	20	6,1	13,3	HKS-M6x50-W55	25	
3	J	IVIO	2.14	1.97	.17	.79	.24	.52	TIKS-WOX30-W33	23	
4	4	M6	59,3	55	4,3	20	6,1	13,3	HKS-M6x55-W55	25	
4	4	IVIO	2.33	2.17	.17	.79	.24	.52	HK3-WGX55-W55	20	
5	5	MG	74,3	70	4,3	20	6,1	13,3	HKS-M6x70-W55	25	
3	5 5	M6	2.93	2.76	.17	.79	.24	.52	HK3-WGX7U-W33	25	

Suitability Chart for ACT Hammerhead Bolts in the Standard Series



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

- Dimension A: Equal to the bolt center spacing of the clamp assembly
- Dimension B: 6,2 mm ... 7,0 mm / .24 in28 in (Min ... Max)





ACT Mounting HardwareMulti-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

ACT Mounting Hardware

Material Properties and Handling Instructions

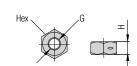
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

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. <u>Details: www.stauff.com/act/assembly</u>

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

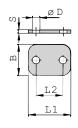






ACT Cover Plate

Type DP ... W55





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

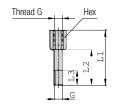
Group		Dimensions	s (mm/in)		Ordering Code	Packaging Unit
STAUFF	DIN	Thread G	Н	Hex		(in pieces / bag)
1A	1					
2	2	M6	5 .20	10 .39	MUS-HKS-M6-W55	25
3	3					

Rost frei

Group		Dimen	sions (^m	ım/in)		Ordering Code	Packaging Unit		
STAUFF	DIN	L1	L2	В	S	ØD		(in pieces / bag)	
1A	1	34	20	30	3	7	DP-1A-W55	25	
IA	'	1.34	.79	1.18	.12	.28	DF-IA-W55	20	
2	2	40,5	26	30	3	7	DP-2-W55	25	
	2	1.59	1.02	1.18	.12	.28	DF-2-W55	20	
2	2	48	33	30	3	7	DP-3-W55	25	
3	3 3		1.30	1.18	.12	.28	DF-3-W33	25	

ACT Stacking Bolt Type AF-HKSK ... W55





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

Group		Dime	nsions (mm/in)		Ordering Code	Packaging Unit	
STAUFF	DIN	G	L1	L2	L3 min.	Hex		(in pieces / bag)
1A	1	M6	44	30	12	11	AF-HKSK-1A-M-W55	25
IA	1	IVIO	1.73	1.18	.47	.43	AF-IIKSK-IA-WI-WSS	20
2	2	M6	54	40	12	11	AF-HKSK-2-M-W55	25
2	2	IVIO	2.13	1.57	.47	.43	AF-IINSK-Z-IVI-WSS	20
3	3	M6	54	40	12	11	AF-HKSK-3-M-W55	25
3	3	IVIO	2.13	1.57	.47	.43	AF-IINON-O-IVI-WOO	20

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



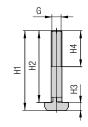




Group		Dimens	ions (mm)	/ _{in})		Ordering Code	Packaging Unit
STAUFF	DIN	L	B1	B2	S		(in pieces / bag)
1A	4	33	28	11,2	2	SIG-1A-ACT-W55	25
IA		1.30	1.10	.44	.08	SIG-IA-ACI-WSS	20
2	2	39	28	11,2	2	SIG-2-ACT-W55	25
	2	1.54	1.10	.44	.08	31G-2-AG1-W33	20
3	3	47	28	11,2	2	SIG-3-ACT-W55	25
3	3	1.85	1.10	.44	.08	310-3-AC1-W33	20

ACT Hammerhead Bolt Type HKSK ... W55





ωІ	L
_	
4	

Group		Dim	ensio	1s (^{mm} /	in)				Ordering Code	Packaging Unit	
STAUFF	DIN	G	H1	H2	Н3	H4 min	В	L		(in pcs. / bag)	
1A	1	M6	29,3	25	4,3	20	6,1	13,3	HKSK-M6x25-W55	25	
IA	'	IVIO	1.15	.98	.17	.79	.24	.52	HKSK-WOX25-W55	25	
2	2	M6	36,3	32	4,3	20	6,1	13,3	HKSK-M6x32-W55	25	
2		IVIO	1.43	1.26	.17	.79	.24	.52	HNSK-WOX32-W33	20	
3	3	M6	39,3	35	4,3	20	6,1	13,3	HKSK-M6x35-W55	O.E.	
3	3	IVIO	1.55	1.38	.17	.79	.24	.52	UV9V-INIDX33-M33	20	





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 HKSV ... W55

ACT Mounting Hardware

Material Properties and Handling Instructions

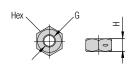
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

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)

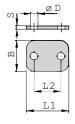






ACT Cover Plate

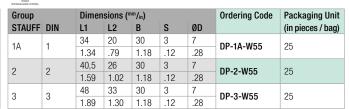
Type DP ... W55





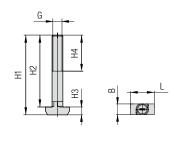
For use with ACT Hammerhead Bolts HKS ... W55

Group STAUFF	DIN	Dimensions Thread G	S (^{mm} / _{in})	Hex	Ordering Code	Packaging Unit (in pieces / bag)
1A	1	modd d		IIOX		(iii pioooo / bag)
171	'	M6 5 10 MU				
2	2			MUS-HKS-M6-W55	25	
3	3					



ACT Hammerhead Bolt Type HKSV ... W55

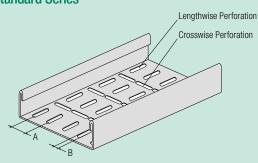




For use with Self-Locking ACT Nuts MUS-HKS ... W55

Group		Dim	ensions	s (^{mm} / _{in})		Ordering Code	Packaging Unit			
STAUFF	DIN	G	H1	H2	Н3	H4 min	В	L		(in pcs. / bag)	
1.0	4	M6	68,3	64	4,3	20	6,1	13,3	HKSV-M6x64-W55	0E	
1A	'	IVIO	2.69	2.52	.17	.79	.24	.52	UK9A-MOX04-M33	20	
0	0	MC	80,3	76	4,3	20	6,1	13,3	HKSV-M6x76-W55	0.5	
2	2	M6	3.16	2.99	.17	.79	.24	.52	HKSV-Mbx/6-W55	20	
3	3	M6	87,3	83	4,3	20	6,1	13,3	HKSV-M6x83-W55	0E	
3	3	IVIO	3.44	3.27	.17	.79	.24	.52	HKSV-Mbx83-W55	25	

Suitability Chart for ACT Hammerhead Bolts in the Standard Series



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

- Dimension A: Equal to the bolt center spacing of the clamp assembly
- Dimension B: 6,2 mm ... 7,0 mm / .24 in28 in (Min ... Max)





Installation on Weld Plate

Required components:

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

Before welding, always make sure that the designated position of the weld plate is suitable for the expected loads.



Multi-Level Installation (with Weld Plate)

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

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

The upper layer has to be secured by a cover plate and hexagon head bolts. The lower level has to be mounted to a weld plate.

Order Code

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

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

e to be used with STAUFF ACT Claimps.

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

110a-ACT-SIG-AF-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

CRA-110a-ACT-DP-AS-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.

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 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

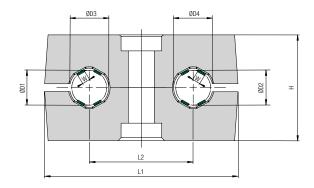
W55 is the recommended option for metal hardware to be used with STAUFF ACT Clamps.

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
- * Exact outside diameters Ø D1 / Ø D2 (mm)

12.7/12.7

* Material code

ACT

Group S	ize		Diameters	Ordering Code	Packaging Unit		nsions ((^{mm} /in)			
STAUFF	DIN	ØD1/ØD (mm)	(in)	(2 Clamp Halves)	(in pieces / bag)	ØD3/ ØD4	W	L1	L2	Н	Width
		6		106/06-ACT	25	9 .35	1,4				
		6,4	1/4	106.4/06.4-ACT	25	9,4	1,5				
1D	1	9,5	3/8	109.5/09.5-ACT	25	12,5 .49	2,2	36 1.42	20 .79	26,6	30 1.18
		10		110/10-ACT	25	13 .51	2,3				
		12		112/12-ACT	25	15 .59	2,8				
OD	0	12,7	1/2	212.7/12.7-ACT	25	15,7	3,5	53	29	26,6	30
2D	2	14		214/14-ACT	25	.67	3,5	2.09	1.14	1.05	1.18
		18		318/18-ACT	25	.83	3,5				
		19	3/4	319/19-ACT	25	.87	3,5				
3D	3	20		320/20-ACT	25	.91	3,5	67 2.64	36 1.42	36,6	30 1.18
	21,3 321.3/21.3-ACT		321.3/21.3-ACT	25	24,3	3,5 .14					
		25,4	1	325.4/25.4-ACT	25	28,4	3,5				

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 Gode

ACT Mounting HardwareMaterial 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. <u>Details: www.stauff.com/act/assembly</u>

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



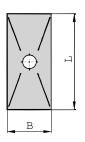


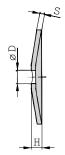
Dimensions applicable only when used with Cover Plate GD and Weld Plate SP

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

ACT Cover Plate Type GD ... W55





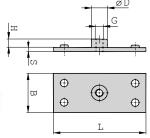


ξĮ	
Эĺ	
/	-
	_

Group		Dimen	sions (^m	m/in)			Ordering Code	Packaging Unit
STAUFF	DIN	L	В	Н	S	ØD		(in pieces / bag)
1D	4	34 30 7 3 7 CD 1D WEE		GD-1D-W55	25			
1D	ļ	1.34	1.18	.28	.12	.28	GD-1D-W55	20
2D	0	52	30	7	3	9	CD OD WEE	25
20	2	2.05	1.18	.28	.12	.35	GD-2D-W55	
3D	3	65	30	7	3	9	GD-3D-W55	25
3D		2.56	1.18	.28	.12	.35	GD-3D-W33	

ACT Single Weld Plate Type SP ... W55







Group		Dime	nsions	(mm/in)				Ordering Code	Packaging Unit	
STAUFF	DIN	G	L	В	S	Н	ØD		(in pieces / bag)	
10	4	M6	37	30	3	6,5	12	SP-1D-M-W55	25	
1D		IVIO	1.46	1.18	.12	.26	.47	96-10-M-M33	20	
OD.	0	M8	55	30	5	6	14	CD OD M WEE	0.5	
2D	2	IVIO	2.17	1.18	.20	.24	.55	SP-2D-M-W55	25	
20	2	M8	70	30	5	6	14	SP-3D-M-W55	05	
3D	3	IVIO	2.76	1.18	.20	.24	.55	26-3D-INI-M22	25	





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).

ACT Mounting Hardware Material Properties and Handling Instructions

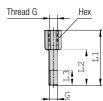
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

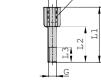
ACT Mounting Hardware is always delivered in hermetically-sealed quality storage bags with 25 pieces each to avoid contamination during transport.

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

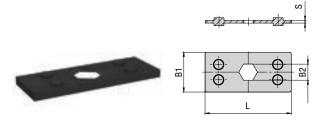






Group Dimensions (mm/in)							Order Code	Packaging Unit	
STAUFF	DIN	G	L1	L2	L3 min.	Hex		(in pieces / bag)	
1D	1	M6	34	20	12	11	AF-1/1A/1D-M-W55	25	
וט	1	IVIO	1.33	.78	.47	.43	AF-1/1A/1D-W-W33	20	
2D	2	M8	33	20	11	12	AF-2D-M-W55	25	
20	2	IVIO	1.30	.78	.43	.47	AF-ZD-IVI-W33	25	
3D	3	M8	44	29	15	12	AF-3D-M-W55	05	
3D	3	IVIO	1.73	1.14	.59	.47	Ar-3D-IVI-W33	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		Dimens	ions (^{mm} /	'in)		Order Code	Packaging Unit	
	STAUFF	DIN	L	B1	B2	S		(in pieces / bag)	
	1D	34 30 11,2 2 CW 4D DD 1		SIV-1D-PP-VO-ACT	25				
	וט	'	1.39	1.18	.44	.08	SIV-ID-FF-VU-ACI	20	
	2D	2	52	30	12,1	2	SIV-2D-PP-V0-ACT	25	
	20	2	2.05	1.18	.48	.08	SIV-ZD-FF-VU-AGI	20	
	3D 3	3	65	30	12,1	2	SIV-3D-PP-V0-ACT	25	
			2.56	1.18	.48	.08	314-3D-LL-A01		





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.).

W55

ACT Mounting HardwareMaterial 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)



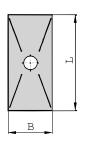


Dimensions applicable only when used with Cover Plate GD and Weld Plate SP

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

ACT Cover Plate Type GD ... W55





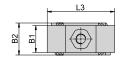


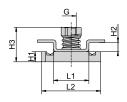
т	EDELSTAH
п	Rost
п	
ц	Trei
	~

Group		Dimen	sions (^m	m/in)		Ordering Code	Packaging Unit		
STAUFF	DIN	L	В	Н	S	ØD		(in pieces / bag)	
10	1	34	30	7	3	7	GD-1D-W55	0.5	
1D	1	1.34	1.18	.28	.12	.28	GD-1D-W55	25	
OD.	2	52	30	7	3	9	GD-2D-W55	25	
2D 2	2	2.05	1.18	.28	.12	.35	GD-2D-W55	25	
3D	2	65	30	7	3	9	GD-3D-W55	25	
3D	3	2.56	1.18	.28	.12	.35	นบ-งบ-พจจ		

Channel Rail Adaptor Type CRA ... W55

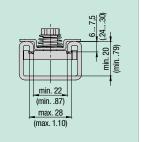






Suitability Chart for ACT Channel Rail Adaptors in the Twin Series

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.



Group		Dimensions	S (^{mm} / _{in})								Order Code	Packaging Unit
STAUFF	DIN	G	L1	L2	L3	B1	B2	H1	H2	Н3		(in pieces / bag)
1D	4	MG	21	35	40	16	19	6	5,5	20,5	CRA-1-8/1D-M-W55	25
1D	I	M6	.83	1.38	1.57	.63	.75	.24	.22	.81		20
2D	2	M8	21	35	38	53	19	9	5,5	23,5	an	25
3D	3	IVIO	.83	1.38	1.50	2.09	.75	.35	.22	.93	CRA-2-3D-M-W55	25



ACT Mounting Hardware





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

ACT Mounting Hardware Material Properties and Handling Instructions

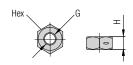
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

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)

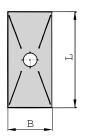


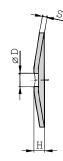




ACT Cover Plate

Type GD ... W55







For use with ACT Hammerhead Bolts HKS ... W55

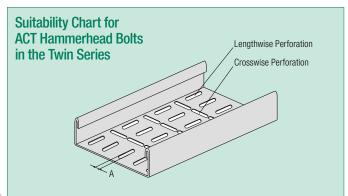
For use with Self-Locking ACT Nuts MUS-HKS ... W55

Group		Dimension	ıs (^{mm} / _{in})		Ordering Code	Packaging Unit	
STAUFF	DIN	Thread G	Н	Hex		(in pieces / bag)	
1D	1	M6	5	10	MUS-HKS-M6-W55	25	
טו	'	IVIO	.20	.39	INIOS-HKS-INIO-MSS	25	
2D	2	M8	6,5	13	MUS-HKS-M8-W55	25	
3D	3	IVIO	.26	.51	CCM-QIM-CVIL-COINI		

Group		Dimen	sions (^m	ım/ _{in})			Ordering Code	Packaging Unit
STAUFF	DIN	L	В	Н	S	ØD		(in pieces / bag)
10	1	34	30	7	3	7	GD-1D-W55	25
1D	'	1.34	1.18	.28	.12	.28	GD-1D-W33	20
2D	0	52	30	7	3	9	GD-2D-W55	25
20	2	2.05	1.18	.28	.12	.35	GD-2D-W55	
00	2	65	30	7	3	9	CD 2D WEE	25
3D	3	2.56	1.18	.28	.12	.35	GD-3D-W55	

ACT Hammerhead Bolt Type HKS ... W55 도

STAINLESS STEEL										
Group		Dim	ensior		Ordering Code	Packaging Unit				
STAUFF	DIN	G	H1	H2	Н3	H4 min	В	L		(in pcs. / bag)
40			49,3	45	4,3	20	6,1	13,3		05
1D	'	M6	1.94	1.77	.17	.79	.24	.52	HKS-M6x45-W55	25
2D	2	M8	49,3	45	4,3	20	6	13,3	HKS-M8x45-W55	25
ZU	2	IVIO	1.94	1.77	.17	.79	.24	.52	HKS-W6X45-W55	20
3D	3	M8	59,3	55	4,3	20	6	13,3	HKS-M8x55-W55	25
SD	٥	IVIO	2.33	2.17	.17	.79	.24	.52	HK3-W0X33-W33	20



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)





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

ACT Mounting Hardware Material Properties and Handling Instructions

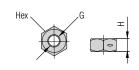
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

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)

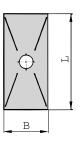


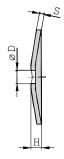




ACT Cover Plate

Type GD ... W55







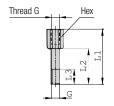
For use with ACT Stacking Bolts AF-HKS ... W55

Group		Dimension	18 (^{mm} /in)		Ordering Code	Packaging Unit
STAUFF	DIN	Thread G	Н	Hex		(in pieces / bag)
1D	1	M6	5	10	MUS-HKS-M6-W55	25
טו	'	IVIO	.20	.39	INIO9-UK9-INIO-M33	20
2D	2	M8	6,5	13	MUS-HKS-M8-W55	25
3D	3	WIO	.26	.51	INIOS-INO-WOO	20

Group Dimensions (mm/in)							Ordering Code	Packaging Unit
STAUFF	DIN	L	В	Н	S	ØD		(in pieces / bag)
1D	4	34	30	7	3	7	GD-1D-W55	25
טו	1	1.34	1.18	.28	.12	.28	นม-เม-พออ	20
2D	2	52	30	7	3	9	GD-2D-W55	25
20	2	2.05	1.18	.28	.12	.35	GD-2D-W55	20
3D	3	65	30	7	3	9	GD-3D-W55	25
טט	3	2.56	1.18	.28	.12	.35	นบ-งบ-พวว	20

ACT Stacking Bolt Type AF-HKSK ... W55



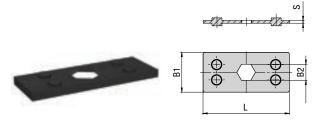


For use with Self-Locking ACT Nuts MUS-HKS ... W55

Group		Dimen	sions (™	^m /in)			Order Code	Packaging Unit
STAUFF	DIN	G	L1	L2	L3 min.	Hex		(in pieces / bag)
1D	1	M6	49	35	12	11	AF-HKSK-1D-M-W55	25
טו	'	IVIO	1.93	1.38	.47	.43	AF-IIKOK-ID-W-W33	23
2D	2	M8	50	37	11	12	AF-HKSK-2D-M-W55	25
20	2	IVIO	1.97	1.47	.43	.47	Ar-mkak-zu-ivi-waa	20
3D	3	M8	61	46	15	12	AF-HKSK-3D-M-W55	25
JU	J	IVIO	2.40	1.01	EO	17	AL-UV9V-9D-IM-M33	20

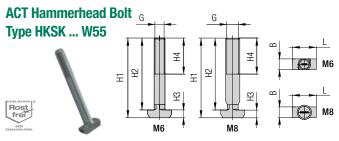
2.40 1.81 .59

ACT Safety Locking Plate Type SIV ... ACT



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

Group		Dimens	ions (mm/	'in)		Order Code	Packaging Unit
STAUFF	DIN	L	B1	B2	S		(in pieces / bag)
1D	1	34	30	11,2	2	SIV-1D-PP-V0-ACT	25
וט	1	1.39	1.18	.44	.08	SIV-ID-FF-VU-ACI	23
2D	2	52	30	12,1	2	SIV-2D-PP-V0-ACT	25
20	2	2.05	1.18	.48	.08	SIV-ZD-FF-VU-AGI	20
3D	3	65	30	12,1	2	SIV-3D-PP-V0-ACT	25
30	3	2.56	1.18	.48	.08	214-3D-FF-40-AC1	20



Group		Dim	imensions (^{mm} / _{in})						Ordering Code	Packaging Unit
STAUFF	DIN	G	H1	H2	Н3	H4 min	В	L		(in pcs. / bag)
1D	4	MC	29,3	25	4,3	20	6,1	13,3	HKSK-M6x25-W55	O.E.
1D	1	M6	1.15	.98	.17	.79	.24	.52	UK9K-MOX29-M39	25
2D	2	M8	32,3	28	4,3	20	6	13,3	HKSK-M8x28-W55	O.E.
20	2	IVIO	1.27	1.10	.17	.79	.24	.52	UV2V-M92	20
3D	3	M8	42,3	38	4,3	20	6	13,3	HKSK-M8x38-W55	O.E.
3D	3	IVIO	1.67	1.50	.17	.79	.24	.52	UKSK-MOX30-M33	20







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

Waterial Code W55

ACT Mounting HardwareMaterial 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.

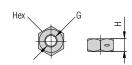
ACT Mounting Hardware is always delivered in hermetically-sealed quality storage bags with 25 pieces each to avoid contamination during transport.

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.

<u>Details: www.stauff.com/act/assembly</u>

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

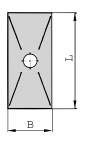


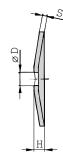




ACT Cover Plate

Type GD ... W55







For use with ACT Hammerhead Bolts HKS ... W55

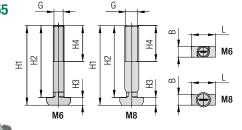
Group		Dimension	ıs (^{mm} / _{in})		Ordering Code	Packaging Unit
STAUFF	DIN	Thread G	Н	Hex		(in pieces / bag)
1D	1	M6	5	10	MUS-HKS-M6-W55	25
וט	1	IVIO	.20	.39	INIOS-HKS-INIO-MSS	20
2D	2	M8	6,5	13	MUS-HKS-M8-W55	25
3D	3	IVIO	.26	.51	CCM-QIM-CVIL-COINI	20

Rost

Group		Dimen	sions (m	ım/ _{in})		Ordering Code	Packaging Unit	
STAUFF	DIN	L	В	Н	S	ØD		(in pieces / bag)
1D	1	34	30	7	3	7	GD-1D-W55	25
טו	'	1.34	1.18	.28	.12	.28	GD-1D-W33	20
2D	2	52	30	7	3	9	GD-2D-W55	25
20	2	2.05	1.18	.28	.12	.35	GD-2D-W55	20
2D	2	65	30	7	3	9	GD-3D-W55	25
3D	3	2.56	1.18	.28	.12	.35	GD-3D-W33	25

ACT Hammerhead Bolt



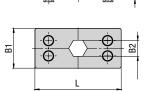


For use with Self-Locking ACT Nuts MUS-HKS ... W55

STAINLESS STEEL										
Group		Dim	ensior		Ordering Code	Packaging Unit				
STAUFF	DIN	G	H1	H2	Н3	H4 min	В	L		(in pcs. / bag)
1D	4	M6	76,3	72	4,3	20	6,1	13,3	HKSV-M6x72-W55	O.F.
טו	'	IVIO	3.00	2.83	.17	.79	.24	.52	UK9A-INIOX175-M33	20
2D	2	M8	77,3	73	4,3	20	6	13,3	HKSV-M8x73-W55	25
ZU	2	IVIO	3.04	2.87	.17	.79	.24	.52	HK3V-W0X73-W33	20
3D	3	M8	97,3	93	4,3	20	6	13,3	HKSV-M8x93-W55	25
SD	٥	IVIO	3.83	3.66	.17	.79	.24	.52	HK3V-IMOX93-W33	20

ACT Safety Locking Plate Type SIV ... ACT





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

Group		Dimen	sions (mm	/in)		Order Code	Packaging Unit
STAUFF	DIN	L	B1	B2	S		(in pieces / bag)
1D	4	34	30	11,2	2	SIV-1D-PP-V0-ACT	25
טו	1	1.39	1.18	.44	.08	SIV-ID-PP-VU-ACI	20
OD	0	52	30	12,1	2	CIV OD DD VO ACT	0.5
2D	2	2.05	1.18	.48	.08	SIV-2D-PP-V0-ACT	25
20	0	65	30	12,1	2	SIV-3D-PP-V0-ACT	0.5
3D	3	2.56	1.18	.48	.08	SIV-3D-PP-VU-ACI	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.



Multi-Level Installation (with Weld Plate)

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

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

The upper layer has to be secured by a cover plate and hexagon head bolts. The lower level has to be mounted to a weld plate.

Order Code

SP-110/10-ACT-GD-AS-M-W55

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



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

110/10-ACT-SIV-ACT-AF-M-W55

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

Required components:



- 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.

Installation in Field Trays / Cable Ladders



Order Code

CRA-110/10-ACT-GD-AS-M-W55

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

Order Code

HKS-110/10-ACT-GD-MUS-M-W55

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



Multi-Level Installation in Field Trays / Cable Ladders

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

- 1 Self-Locking Nut MUS-HKS ... W55
- 1 Cover Plate GD ... W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 Stacking Bolt AF-HKSK...W55
- 1 Safety Locking Plate SIV...ACT
- 1 ACT Clamp Body (2 Clamp Halves) 1 Hammerhead Bolt HKSK ... W55
- Suitable for commonly used field trays and cable ladders with diagonal, lengthwise and/or crosswise slots and perforations.



Multi-Level Installation in Field Trays / Cable Ladders

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

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

Suitable for commonly used field trays and cable ladders with diagonal, lengthwise and/or crosswise slots and perforations.

Order Codes

Upper Level: HKSK-212.7/12.7-ACT-GD-MUS-M-W55 Lower Level: 212.7/12.7-ACT-SIV-ACT-AF-HKSK-M-W55

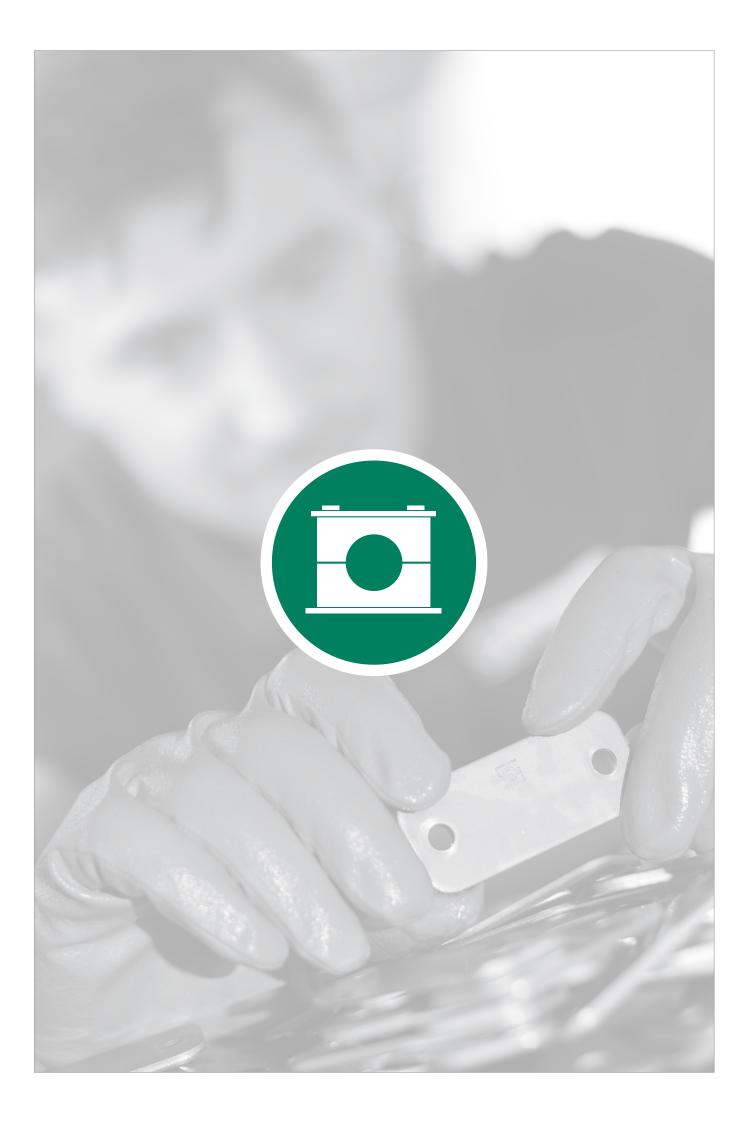
W55 is the recommended option for metal hardware to be used with STAUFF ACT Clamps.

Order Codes

Upper Level: HKSV-212.7/12.7-ACT-GD-MUS-M-W55

Lower Level: 212.7/12.7-ACT-SIV-ACT

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





	Introduction	92
	Weld Stud with Female Thread SWG-SF	92
•	Distance Plate for DIN 3015 Clamps SWG-DIP	93
•	Cable Tie Holder SWG-CTH-11-M6	93
	Cable Tie / Tension Belt Holder SWG-CTH-30-M6-1	93
	Cable Tie / Tension Belt Holder SWG-CTH-30-M6-2	93
	Starterkit SWG-WI06-Starterkit	94
	Weld Inverter SWG-WI06	94
4	Weld Gun - Arc Ignition SWG-WG	94
D	Distance Adaptor SWG-AGS	95
	Distance Tube DIT-SR6-SWG	95
	Stud Retainer SWG-SR6	95
	Ground Cable	95

STAUFF SWG Stud Welding System

In many areas, stud welding is considered to be the most economic fastening method for components and is sometimes even the only technically feasible solution. Because the stud is joined with the substructure over the entire surface of the stud, a high strength of the ioint 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)
- Significant time and cost savings by a quicker welding process and reduced rework on welding locations
- Material distortion reduced to a minimum through low thermal stress (particularly significant when handling thin metal sheets)
- High degree of safety and protection against corrosion due to a welded joint over the whole surface
- Lightweight and compact designed welding inverter
- By default no shielding gas or ceramic ferrule required
- Works without high-voltage current





- 1 Clamp body and standard mounting hardware according to DIN 3015-1/3 (Standard and Twin Series)
- Distance plate
- 3 Weld studs with female threads
- 4 Base material and surface suitable for stud welding



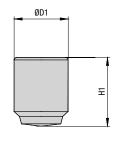
Reduction of the assembly time per clamp*

> 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

M6x11x14

SWG-SF

W124

* Thread code Metric ISO thread Unified coarse

(UNC) thread UNC1/4-20x11x14

* Material code Steel 4.8 with galvanised

copper coating C1E

(DIN EN ISO 4042)

Group		Dimensions (m	^m /in)		Order Codes	Packaging Units
STAUFF	DIN	Thread G	ØD1	H1	(Standard Options)	(in pcs. / per bag)
		M6	11	14	SWG-SF-M6x11x14-W124	100
1 8	0 8	IVIO	.43	.55	3WU-3F-WOX11X14-W124	
1 0	0 6	1/4-20 UNC	11	14	SWG-SF-UNC1/4-20x11x14-W124	100
		1/4-20 UNG	.43	.55	3WU-31-0N01/4-20X11X14-W124	100

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

Maximum torque rating: 6 N·m / 4.43 ft·lb. Specific series can further limit the torque rating. The maximum loads in pipe direction listed on page 161 reduce accordingly. In case of doubt, please contact STAUFF in advance.

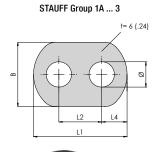


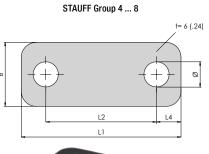


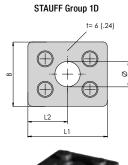
Distance Plate for DIN 3015 Clamps Type SWG-DIP

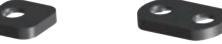
STAUFF Group 1

t= 6 (.24)









|--|

Group		Pipe/Tube-Ø (mm/in)	Dimensions (mm/in)					Order Codes	Packaging Units
STAUFF	DIN	Clamp Body	L1	L2* `	Ľ4	В	Ø	(Standard Options)	(in pcs. / per bag)
1	0	6 12	29	10,5	10,5	30	11,8	SWG-DIP-1-PP-BK	25
•	U	.2448	1.14	.41	.41	1.18	.46	SWU-DIF-I-FF-DK	25
1A	1	6 12	43,5	20	11,8	30	11,8	SWG-DIP-1A-PP-BK	25
IA	'	.2448	1.71	.79	.46	1.18	.46	SWU-DIF-IA-FF-DK	23
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	SWU-DIF-2-FF-DK	
3	3	19 25,4	56,5	33	11,8	30	11,8	SWG-DIP-3-PP-BK	25
3	3	.75 1.00	2.22	1.30	.46	1.18	.46	SWU-DIF-S-FF-DK	
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	SWU-DIF-4-FF-DK	23
5	5	32 42	75	52	11,5	30	11,8	SWG-DIP-5-PP-BK	25
J	J	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 2	25
U	0	1.75 2.12	3.46	2.60	.43	1.18	.46		23
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	SWU-DII -7-11 -DK	
8	8	88,9 102	147	120	13,5	30	11,8	SWG-DIP-8-PP-BK	10
U		3.50 4.00	5.78	4.72	.53	1.18	.46	SWU-DII -O-FF-DK	10
1D	1	6 12	37	18,5	-	30	11,8	SWG-DIP-1D-PP-BK	25
טו		.2448	1.45	.73	-	1.18	.46	GWG-DII -ID-FF-DK	

Ordering Codes

Distance Plate *SWG-DIP*2*PP-BK

* Distance Plate SWG-DIP

* STAUFF Group 2

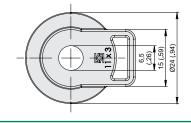
* Material code Polypropylene (Colour: Black) PP-BK

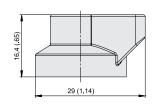
* $\pm 0,1(.003)$

Material: Polyamide (reinforced)

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

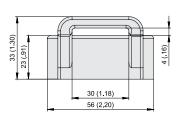
Standard packaging unit: 25 pcs.

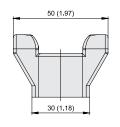


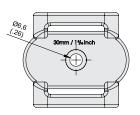


Cable Tie Holder Type SWG-CTH-11-M6









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



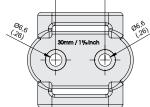


Suitable for socket cap screws M6x12 (ISO 4762) or hexagon socket button cap screws M6x12 (ISO 7380-1)

Standard packaging unit: 25 pcs.

Dimensional drawings: All dimensions in mm (in).





26 (1.02)





Starterkit Type SWG-WI06-Starterkit



Starterkit including:

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

Required Accessories:

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

Weld Inverter Type SWG-WI06



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

- Adjustment range 3 mm / .11 in, lockable Workplace noise level
- Up to 90 dB (A) may occur during welding $\textbf{Dimensions} \; (L\; x\; W\; x\; H)$
- 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



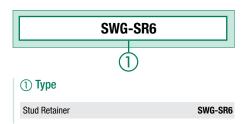
Distance Tube Type DIT-SR6-SWG

Туре	for use with	Ordering Codes		
A	Distance Adaptor SWG-AGS-1A	DIT-SR6-SWG-WG25		
В	Distance Adaptor SWG-AGS-28	DIT-SR6-SWG-WG30		



Stud Retainer Type SWG-SR6

Order Code

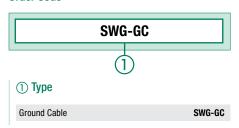


Standard packaging unit: 5 pcs.



Ground Cable Type SWG-GC

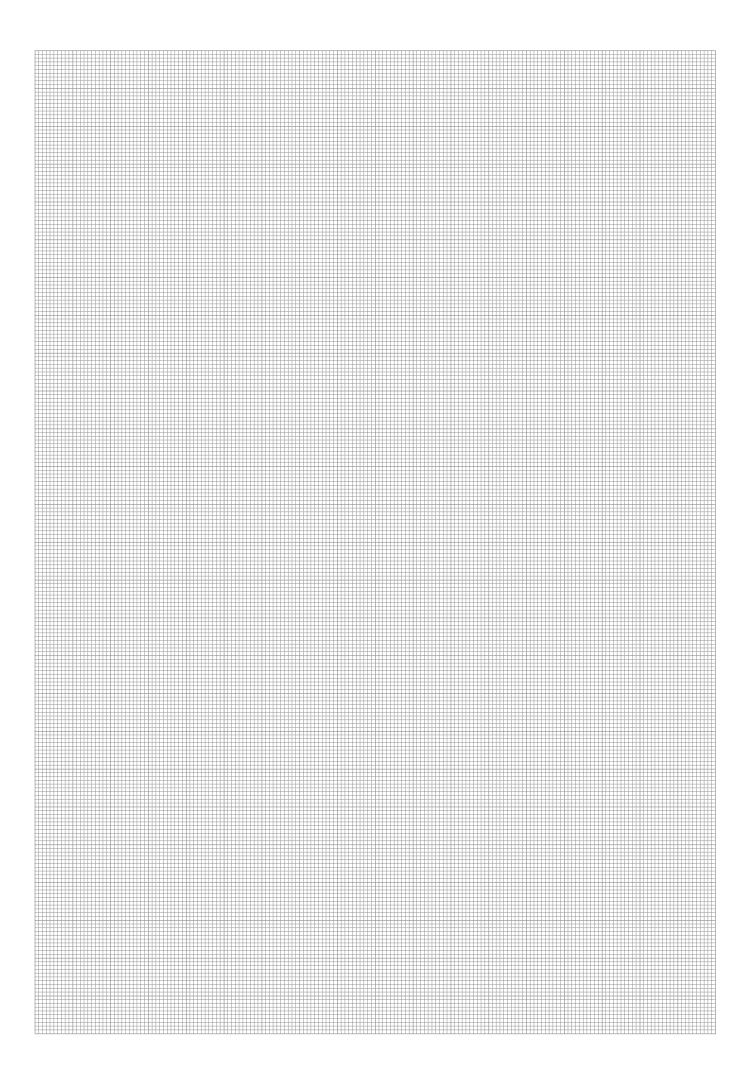
Order Code



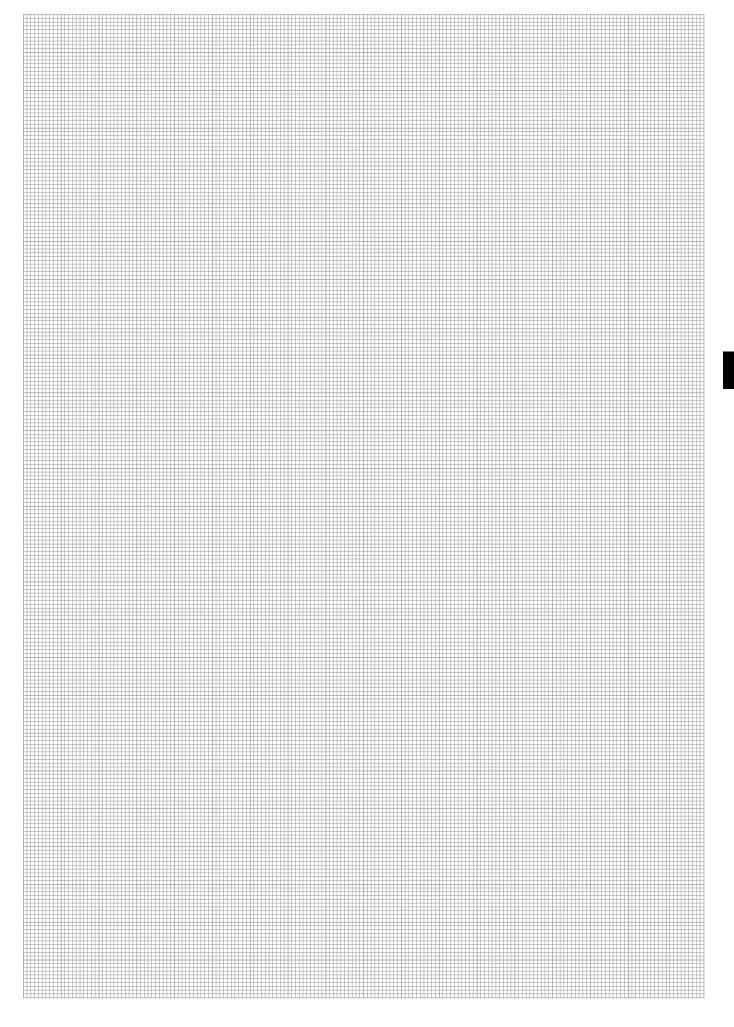
Characteristics

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



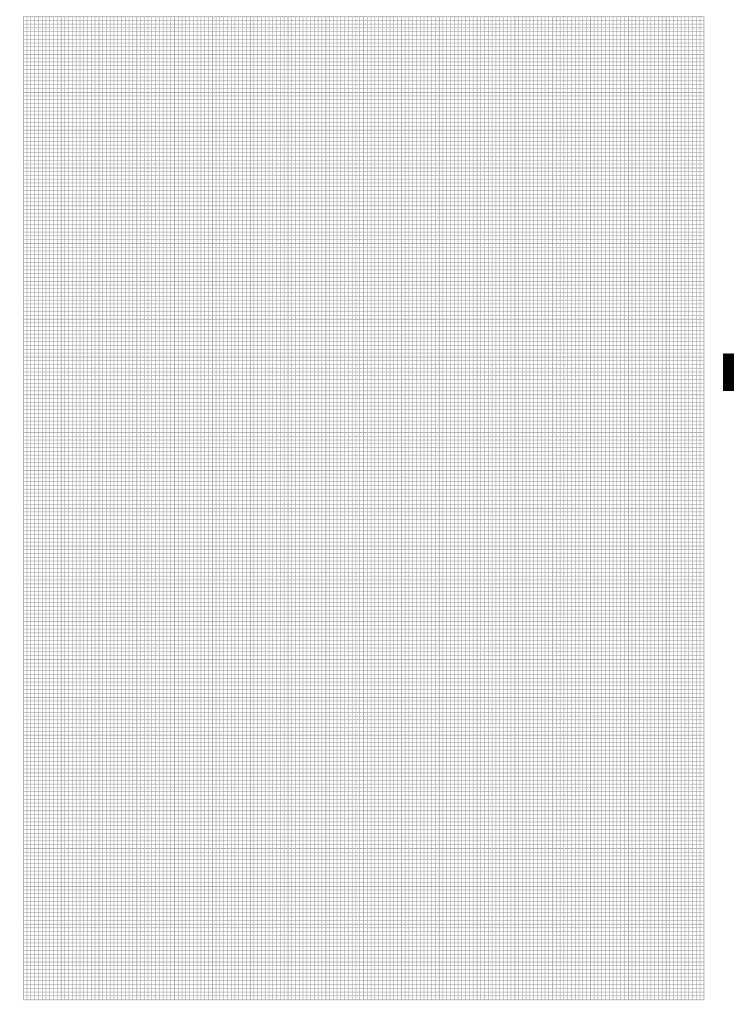






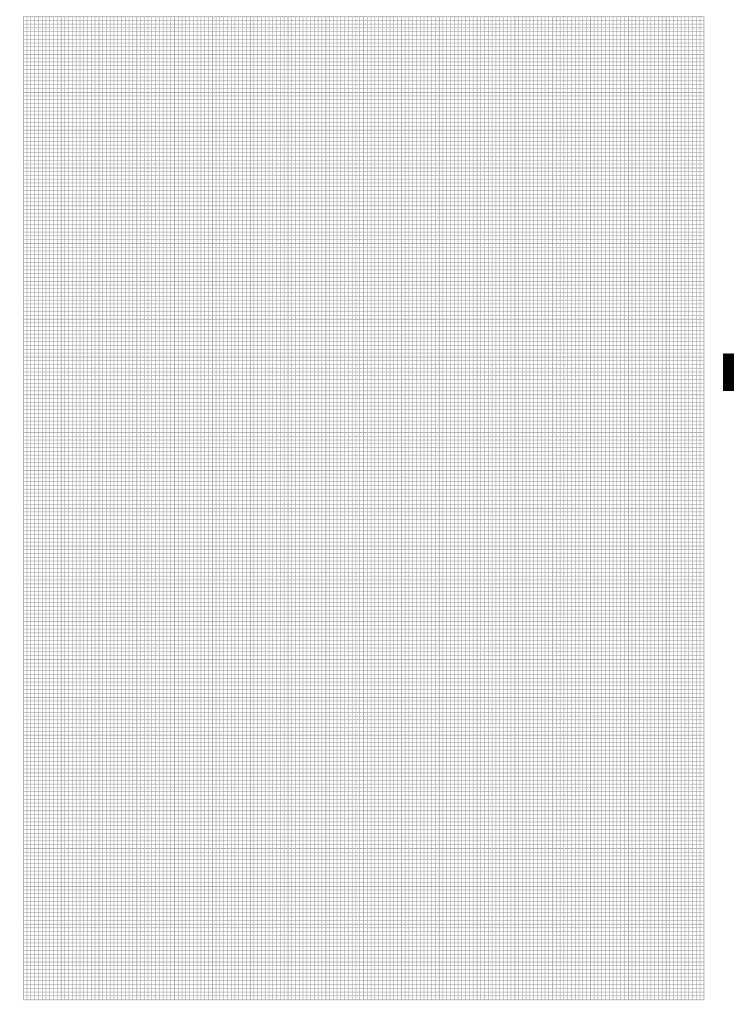
















1.3	Machined Versions	104
	Injection Moulded Version	106
SEED.	Metal Versions and Accessories	107
	Enquiry Form for Custom-Designed Special Clamps	108



Machined Versions

 ${\it Custom-designed\ clamping\ systems\ for\ pipes,\ tubes,\ hoses,}$ cables and other components according to customer's $% \left(1\right) =\left(1\right) \left(1\right) \left$ specifications or based on STAUFF developments, made of thermoplastics, metals and non-ferrous metals.





















































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.



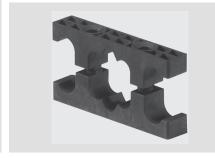














































Metal Versions and Accessories

Metal versions of custom-designed clamping systems

Metal versions of custom-designed clamping systems for pipes, tubes, hoses, cables and other components as well as accessories such as weld plates, cover plates, bolts as well as elastomer inserts.









Enquiry Form for Custom-Designed Special Clamps

Please use the following form as a guideline when preparing an enquiry for a custom-designed special clamp. Scan or copy the page from the catalogue, print and complete it with $% \left(\mathbf{r}\right) =\left(\mathbf{r}\right)$

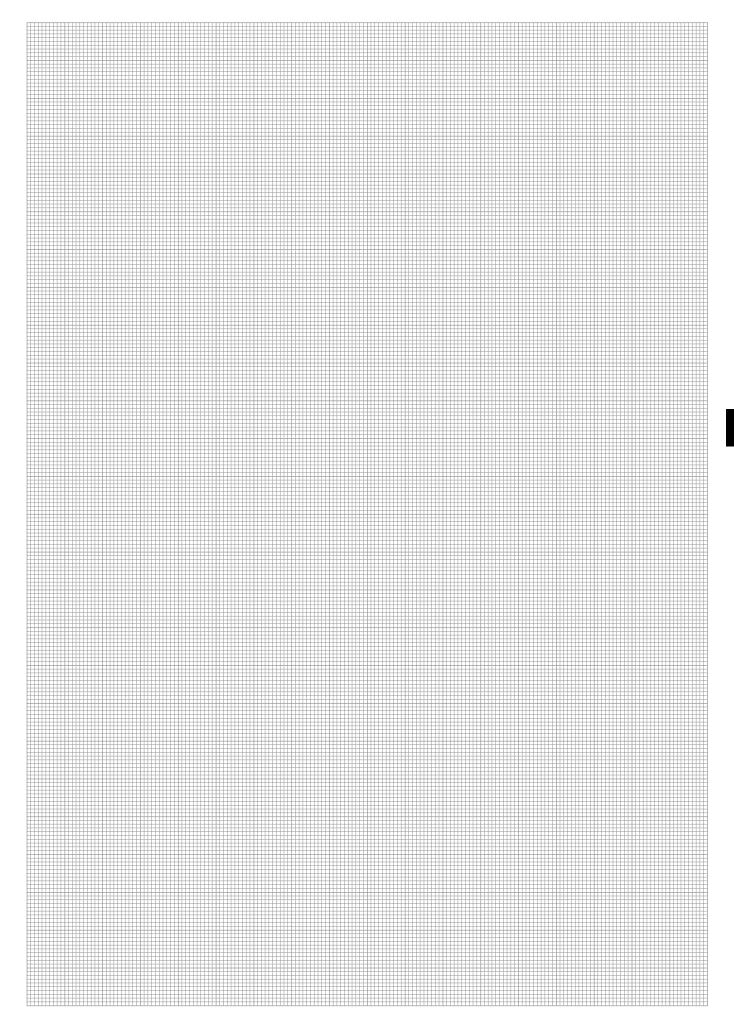
as much information as possible, before sending it by email of fax to the closest STAUFF branch office. If possible, please also provide a sketch / drawing and let us know the quanti-

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 l	□°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	y □ Polypropylene □ Aluminium □ Stainless Steel □	V2A □ V4A	☐ Polyar ☐ Steel ☐ Other	material		
Design Information						
Type of line	☐ Pipe / tube (<u>fixed</u> ☐ Hose☐ Cable☐ Other components	·	☐ Pipe / tube (<u>sliding</u> installation) ☐ Conduit Hose ☐ Mix of different types of lines			
Maximum dimensions of clamp body	Length x V	Vidthx H	eight			
Total number of lines						
Diameters per line	Line 1	mm / □ inch mm / □ inch	Further confurther con	omments omments omments omments omments omments omments omments omments		
Preferred centre distance of the lines			mm / 🔲 in	nch		
Preferred number of screw holes						
Information on Mounting Hardware						
Preferred type of bolts	☐ Hexagon head bolt☐ Socket cap crews☐ Socket cap crews	(with cover plate)	☐ with n	netric 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 r)		
Material preference for the hardware	☐ Steel		☐ Stainle	ess Steel 🗆 V2A 🗆 V4A		

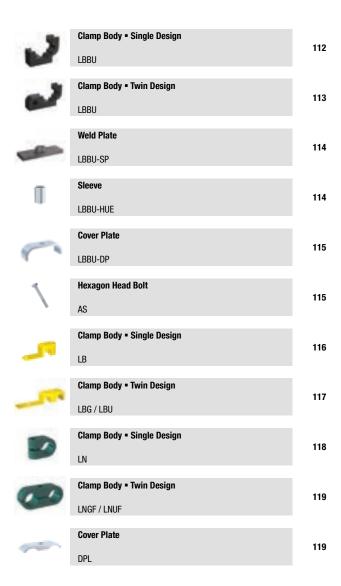








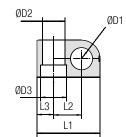


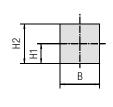


Clamp Body - Single Design **Type LBBU**









Size 2 in slotted design

Size 1 and 3 with film hinge

Ordering Codes

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

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

Standard Materials



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

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

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

Product Features

- Compact and light-weight design for applications in which space is limited
- · Available in 3 different sizes and covering all standard metric and imperial diameters between 4 mm and 32 mm
- · Vibration-damping and noise-reducing clamp body material with UV, ozone and weathering-resistant characteristics
- Embedded metal sleeve to ensure stability of the clamp assembly

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

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



Type of Mounting SP (with Weld Plate LBBU-SP)

Clamp assembly consisting of:

- 1 Hexagon Head Bolt AS
- 1 Cover Plate LBBU-DP
- 1 Sleeve LBBU-HUE
- 1 Clamp Body LBBU
- 1 Weld Plate LBBU-SP



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)



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-SP-322-SA-DP-AS-M8-W10

W10 (Weld Plate made of Carbon Steel, phosphated; Other metal parts made of Carbon Steel, zinc/nickel-plated) is the standard option for this type of installation. For UNC threads / bolts, please replace M8 by U5/16.

Order Code (Mounting Rail TS not included.) LBBU-SM-322-SA-DP-AS-M8-W3

W3 (Metal parts made of Carbon Steel, zinc/nickel-plated) is the standard option for this type of installation. For UNC threads / bolts, please replace M8 by U5/16.

Order Code

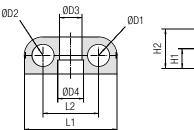
LBBU-PM-322-SA-DP-AS-M8-W3

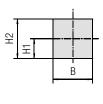
W3 (Metal parts made of Carbon Steel, zinc/nickel-plated) is the standard option for this type of installation. For UNC threads / bolts, please replace M8 by U5/16.

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



Clamp Body • Twin Design **Type LBBU**









Size 1 and 3 with film hinge

Size 2 in slotted design

Group	Outside Diameters Pipe / Tube / Hose Ø D1 / Ø D2				Dimensions (mm/ _{in})								
STAUFF	(mm)	(in)	(in)		Ø D3	Ø D4	L1	L2	H1	H2	В		
	4			LBBU-104/04-SA-M8/U5/16									
	6			LBBU-106/06-SA-M8/U5/16									
	6,4	1/4		LBBU-106.4/06.4-SA-M8/U5/16									
	8	5/16		LBBU-108/08-SA-M8/U5/16	12	14	50	30	10	20	20		
1D	9,5	3/8		LBBU-109.5/09.5-SA-M8/U5/16	.47	.55	1.97	1.18	.39	.79	.79		
	10		1/8	LBBU-110/10-SA-M8/U5/16	.47	.55	1.31	1.10	.39	.13	.19		
	11			LBBU-111/11-SA-M8/U5/16									
	12			LBBU-112/12-SA-M8/U5/16									
	12,7	1/2		LBBU-112.7/12.7-SA-M8/U5/16									
	10		1/8	LBBU-210/10-SA-M8/U5/16									
	11			LBBU-211/11-SA-M8/U5/16									
	12			LBBU-212/12-SA-M8/U5/16									
	12,7	1/2		LBBU-212.7/12.7-SA-M8/U5/16									
	13,5		1/4	LBBU-213.5/13.5-SA-M8/U5/16									
2D	14			LBBU-214/14-SA-M8/U5/16	12	14	59	35	12	24	20		
20	15			LBBU-215/15-SA-M8/U5/16	.47	.55	2.32	1.38	.47	.94	.79		
	16	5/8		LBBU-216/16-SA-M8/U5/16									
	17,2		3/8	LBBU-217.2/17.2-SA-M8/U5/16									
	18			LBBU-218/18-SA-M8/U5/16									
	19	3/4		LBBU-219/19-SA-M8/U5/16									
	20			LBBU-220/20-SA-M8/U5/16									
	21,3			LBBU-321.321.3-SA-M8/U5/16									
	22	7/8		LBBU-322/22-SA-M8/U5/16									
	23			LBBU-323/23-SA-M8/U5/16									
3D	25			LBBU-325/25-SA-M8/U5/16	12	14	86	47	20	40	30		
טט	25,4	1		LBBU-325.4/25.4-SA-M8/U5/16	.47	.55	3.39	1.85	.79	1.57	.79		
	28			LBBU-328/28-SA-M8/U5/16									
	30			LBBU-330/30-SA-M8/U5/16									
	32	1-1/4		LBBU-332/32-SA-M8/U5/16									

Ordering Codes

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

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

Standard Materials



Thermoplastic Elastomer (87 Shore-A)

Colour: Black Material code: SA

See pages 154 / 155 for material properties and technical information

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

Product Features

- Compact and light-weight design for applications in which space is limited
- · Available in 3 different sizes and covering all standard metric and imperial diameters between 4 mm and 32 mm
- Vibration-damping and noise-reducing clamp body material with UV, ozone and weathering-resistant characteristics
- Embedded metal sleeve to ensure stability of the clamp assembly

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



Type of Mounting SP

(with Weld Plate LBBU-SP)

Clamp assembly consisting of:

- 1 Hexagon Head Bolt AS ■ 1 Cover Plate LBBU-DP
- 1 Sleeve LBBU-HUE
- 1 Clamp Body LBBU
- 1 Weld Plate LBBU-SP



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)



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-SP-322/22-SA-DP-AS-M8-W10

W10 (Weld Plate made of Carbon Steel, phosphated; Other metal parts made of Carbon Steel, zinc/nickel-plated) is the standard option for this type of installation. For UNC threads / bolts, please replace M8 by U5/16.

Order Code (Mounting Rail TS not included.) LBBU-SM-322/22-SA-DP-AS-M8-W3

W3 (Metal parts made of Carbon Steel, zinc/nickel-plated) is the standard option for this type of installation. For UNC threads / bolts, please replace M8 by U5/16.

Order Code

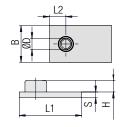
LBBU-PM-322/22-SA-DP-AS-M8-W3

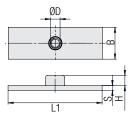
W3 (Metal parts made of Carbon Steel, zinc/nickel-plated) is the standard option for this type of installation. For UNC threads / bolts, please replace M8 by U5/16.

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

Weld Plate Type LBBU-SP







STAUFF Group 1 to 3

STAUFF Group 1D to 3D

Ordering Codes									
Weld Plate	*LBBU-SP-*1D-*	M8-*W2							
* Light Series LBI	BU	LBBU							
* Weld Plate		-SP							
* STAUFF Group		1D							
* Thread code	Metric ISO thread: M8 UNC thread: 5/16–18 UNC	M8 U5/16							
* Material code	Carbon Steel, phosphated	W2							

Group	Dimensio	ons (mm/in)	Ordering Codes					
STAUFF	Ø D	L1	L2	Н	В	S	Thread G	(Standard Options)
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
2	.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
J	.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
טו	.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
20	.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
טט	.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)

Group	Dimer	nsions ((^{mm} / _{in})	Ordering Codes
STAUFF	ØD1	ØD2	L	(Standard Options)
1	12	9	13,5	LBBU-HUE-1/1D-SP-
'	.47	.35	.53	M8/U5/16-W3
2	12	9	17,5	LBBU-HUE-2/2D-SP-
2	.47	.35	.69	M8/U5/16-W3
3	12	9	33,5	LBBU-HUE-3/3D-SP-
3	.47	.35	1.32	M8/U5/16-W3
1D	12	9	13,5	LBBU-HUE-1/1D-SP-
ID	.47	.35	.53	M8/U5/16-W3
2D	12	9	17,5	LBBU-HUE-2/2D-SP-
20	.47	.35	.69	M8/U5/16-W3
3D	12	9	33,5	LBBU-HUE-3/3D-SP-
טט	.47	.35	1.32	M8/U5/16-W3

Dimensions applicable only when used with Hexagon Rail Nut SM-2-5D (Type of Mounting SM)

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

Dimensions applicable only when used for panel mounting without Weld Plate or Hexagon Rail Nut (Type of Mounting PM)

Group	Dimer	nsions ((mm/in)	Ordering Codes
STAUFF	ØD1	ØD2	L	(Standard Options)
1	12	9	18,8	LBBU-HUE-1/1D-PM-
1	.47	.35	.74	M8/U5/16-W3
2	12	9	22,7	LBBU-HUE-2/2D-PM-
2	.47	.35	.89	M8/U5/16-W3
3	12	9	38,8	LBBU-HUE-3/3D-PM-
3	.47	.35	1.53	M8/U5/16-W3
1D	12	9	18,8	LBBU-HUE-1/1D-PM-
ID	.47	.35	.74	M8/U5/16-W3
2D	12	9	22,7	LBBU-HUE-2/2D-PM-
20	.47	.35	.89	M8/U5/16-W3
3D	12	9	38,8	LBBU-HUE-3/3D-PM-
SD	.47	.35	1.53	M8/U5/16-W3

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

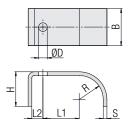


Group

STAUFF

2

Cover Plate Type LBBU-DP



STAUFF Group 1 to 3

.35

.35

15

Dimensions (mm/in)

15

.59

18

.71

23,5

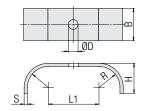
Ø D

.35

.35

9

9



STAUFF Group 1D to 3D

S

3

.12

3

.12

3

Ordering Codes

(Standard Options)

LBBU-DP-1-M8/U5/16-W3

LBBU-DP-2-M8/U5/16-W3



Ordering Codes								
Cover Plate	*LBBU-DP-*1D-*M8/U	5/16-*W3						
* Light Series LBI	BU	LBBU						
* Cover Plate		-DP						
* STAUFF Group		1D						
* Thread code (su	itable for bolts M8 and U5/16)	M8/U5/16						
* Material code	Carbon Steel, zinc/nickel-pla	ited W3						

;	3	9	23,5	15	19,5	28	30	3	LBBU-DP-3-M8/U5/16-W3
	ა	.35	.93	.59	.77	1.10	1.18	.12	LBBU-DF-3-W6/U3/10-W3
	1D	9	30	.39 .63 .79 5 12 20 20	3	LBBU-DP-1D-M8/U5/16-W3			
	IU	.35	1.18		.39	.63	.79	.12	LBBU-DF-1D-W6/05/10-W3
	2D	9	35		12	20	20	3	LBBU-DP-2D-M8/U5/16-W3
_ '	2υ	.35	1.38		.47	.79	.79	.12	LBBU-DP-2D-W8/U5/16-W3
	3D	9	47		19,5	28	20	3	LBBU-DP-3D-M8/U5/16-W3
	งบ	.35	1.85	/	.77	.63	.79	.12	LDDU-DP-3D-W8/U3/10-W3

16

.63

20

.79

28

20

.79

20

.79

30

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

10

.39

12

.47

19,5

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)

Group	Dimensions (mm/in)	Ordering Codes
STAUFF	Thread G x L	(Standard Options)
1	M8 x 25	AS-M8x25-W3
1	5/16-18 UNC x 1	AS-U5/16-18x1-W3
2	M8 x 28	AS-M8x28-W3
2	5/16–18 UNC x 1-1/8	AS-U5/16-18x1-1/8-W3
3	M8 x 45	AS-M8x45-W3
3	5/16-18 UNC x 1-3/4	AS-U5/16-18x1-3/4-W3
1D	M8 x 25	AS-M8x25-W3
טו	5/16-18 UNC x 1	AS-U5/16-18x1-W3
2D	M8 x 28	AS-M8x28-W3
20	5/16–18 UNC x 1-1/8	AS-U5/16-18x1-1/8-W3
3D	M8 x 45	AS-M8x45-W3
טט	5/16-18 UNC x 1-3/4	AS-U5/16-18x1-3/4-W3

Hexagon Head Bolt AS

(according to DIN 931 / 933 or ANSI / ASME B18.2.1.) Dimensions applicable only when used for panel mounting without Weld Plate or Hexagon Rail Nut (Type of Mounting PM)

Group STAUFF	Dimensions (mm/in) Thread G x L	Ordering Codes (Standard Options)
1	M8 x 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
2	5/16-18 UNC x 1-3/8	AS-U5/16-18x1-3/8-W3
2	M8 x 50	AS-M8x50-W3
3	5/16-18 UNC x 2	AS-U5/16-18x2-W3
1D	M8 x 30	AS-M8x30-W3
טו	5/16-18 UNC x 1-1/4	AS-U5/16-18x1-1/4-W3
2D	M8 x 35	AS-M8x35-W3
ZU	5/16-18 UNC x 1-3/8	AS-U5/16-18x1-3/8-W3
on.	M8 x 50	AS-M8x50-W3
3D	5/16-18 UNC x 2	AS-U5/16-18x2-W3

Hexagon Head Bolt *AS-*M8x25-*W3 * Type of bolt Hexagon Head Bolt (according to DIN 931 / 933 AS or ANSI / ASME B18.2.1.) * Thread code Thread dimension according M8x25 to dimension table * Material code Carbon Steel, zinc/nickel-plated W3

Ordering Codes

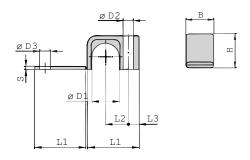
All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. $Alternative \ sizes \ (e.g.\ for\ bolts\ M6\ and\ 1/4-20\ UNC),\ materials\ and\ surface\ finishings\ are\ available\ upon\ request.$





Clamp Body • Single Design Type LB





Ordering Codes

Clamp Body	*LB-*1*03	.2-*PP
* Light Series: * STAUFF Group * Exact outside di * Material code (s	Clamp Body / Single Design ameter Ø D1 (mm) see below)	LB 1 03.2 PP

Standard Materials



Polypropylene Colour: Black Material code: PP



Polyamide Colour: Yellow Material code: PA

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

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

Applications

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

Group	Outside I Pipe / Tu Ø D1	Diameter be / Hose	Nominal Bore Pipe	Ordering Codes (1 Clamp Body)	Dimen (mm/in)	sions						
STAUFF	(mm)	(in)	(in)	(** = Material)	L1	L2	L3	В	Н	S	Ø D2	Ø D3
	3,2	1/8		LB-103.2-**								
1	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-**								
	9,5	3/8		LB-209.5-**								
2	10		1/8	LB-210-**	27	11	7	16	15	2	6,8	7
2	11,1			LB-211.1-**	1.06	.43	.28	.63	.59	.08	.27	.28
	12			LB-212-**								
	12,7	1/2	LB-312.7-*	LB-312.7-**								
	13,5		1/4	LB-313.5-**								
	14			LB-314-**	34	15	7	20	22,5	2	6,8	7
3	15			LB-315-**	1.34	.59	.28	.79	.89	.08	.27	.28
	16	5/8		LB-316-**	1.54	.59	.20	.79	.09	.00	.21	.∠ŏ
	17,2		3/8	LB-317.2-**								
	18			LB-318-**								
	19	3/4		LB-419-**								
	20			LB-420-**								
4	21,3		1/2	LB-421.3-**	42	19	7	20	30	2	6,8	7
4	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



Ø D3 Ø D4 Ø D2 L2 L1 L1	В
------------------------------	---

Group		Diameters be / Hose D2	Nominal Bore Pipe	Ordering Codes (1 Clamp Body)	Dimens (mm/in)	sions					
STAUFF	(mm)	(in)	(in)	(** = Material)	L1	L2	В	Н	S	Ø D3	Ø D4
	3,2	1/8		LBG-103.2/03.2-**							
1	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-**							
	9,5	3/8		LBG-209.5/09.5-**							
2	10		1/8	LBG-210/10-**	39	22	16	15	2	6,8	7
	11,1			LBG-211.1/11.1-**	1.54	.87	.63	.59	.08	.27	.28
	12			LBG-212/12-**							
	12,7	1/2		LBG-312.7/12.7-**							
	13,5		1/4	LBG-313.5/13.5-**							
	14			LBG-314/14-**	53	30	20	22,5	2	6,8	7
3	15			LBG-315/15-**	2.09	1.18	.79	.89	.08	.27	.28
	16	5/8		LBG-316/16-**	2.00	1.10	.,,	.00	.00	.21	.20
	17,2		3/8	LBG-317.2/17.2-**							
	18			LBG-318/18-**							
	19	3/4		LBG-419/19-**							
	20			LBG-420/20-**							
4	21,3		1/2	LBG-421.3/21.3-**	70	38	20	30	2	6,8	7
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	3.2-*PP			
* Light Series:	Clamp Body / Twin Design with identical diameters Clamp Body / Twin Design	LBG			
	with different diameters				
* Material code (s	see below)	PP			

Standard Materials



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

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

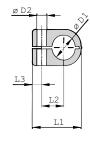
Applications

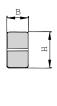
 Pneumatics, Instrumentation and Automotive Technology, Machine Tool Industry, Lubrication, Mechanical Engineering



Clamp Body • Single Design Type LN







Ordering Codes

Clamp Body	*LN-*1*0	6-*PP
* Light Series: * STAUFF Group * Exact outside di * Material code (s	` '	LN 1 06 PP

Standard Materials



Polypropylene Colour: Green Material code: PP



Polyamide Colour: Black Material code: PA

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

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

Applications

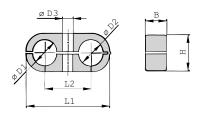
• Pneumatics, Instrumentation and Automotive Technology, Machine Tool Industry, Lubrication, Mechanical Engineering

Group	Pipe / Tu	Diameter ıbe / Hose	Nominal Bore	Ordering Codes (1 Clamp Body)	Dimensi (mm/in)	ons				
STAUFF	Ø D1 (mm)	(in)	Pipe (in)	(** = Material)	L1	L2	L3	В	Н	Ø D2
0171011	6	(111)	(111)	LN-106-**						
1	6,4	1/4		LN-106.4-**	22	9	7	14,5	13,5	6,8
	8	.,,		LN-108-**	.87	.35	.28	.57	.53	.27
	8			LN-208-**						
	9,5	3/8		LN-209.5-**						
2	10	0,0	1/8	LN-210-**	27	11	7	14,5	18,5	6,8
_	12		., .	LN-212-**	1.06	.43	.28	.57	.59	.27
	12,7	1/2		LN-212.7-**						
	10		1/8	LN-310-**						
	12			LN-312-**						
	12,7	1/2		LN-312.7-**	-	1.5	_		00.5	
3	13,5		1/4	LN-313.5-**	1.30	.59	.28	.57	.93	6,8
	14			LN-314-**	1.30	.59	.20	.57	.93	.21
	15			LN-315-**						
	16	5/8		LN-316-**						
	14			LN-414-**						
	15			LN-415-**						
	16	5/8		LN-416-**						
	17,2		3/8	LN-417.2-**	40	19	7	14.5	30.5	0.0
4	18			LN-418-**	1.57	.75	.28	.57	1.20	6,8
	19	3/4		LN-419-**	1.07	.,,	.20	.01	1.20	.21
	20			LN-420-**						
	21,3		1/2	LN-421.3-**						
	22			LN-422-**						





Clamp Body • Twin Design Type LNGF / LNUF





Group		Diameters ube / Hose D2	Nominal Bore Pipe	Ordering Codes (1 Clamp Body)	Dimensions (mm/sin)				
STAUFF	(mm)	(in)	(in)	(** = Material)	L1	L2	В	H	Ø D3
	6			LNGF-106/06-**	32	18	14,5	13,5	6,8
1	6,4	1/4		LNGF-106.4/06.4-**	1.26	.70	.57	.53	.27
	8			LNGF-108/08-**	1.20	.70	.57	.00	.21
	8			LNGF-208/08-**					
	9,5	3/8		LNGF-209.5/09.5-**	41	22	14,5	18.5	6.8
2	10		1/8	LNGF-210/10-**	1.61	.86	.57	.73	.27
	12			LNGF-212/12-**	1.01	1.01		.75 .2	.21
	12,7	1/2		LNGF-212.7/12.7-**					
	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
3	13,5		1/4	LNGF-313.5/13.5-**	2.13	1.18	.57	.93	.27
	14			LNGF-314/14-**	2.10	1.10	.07	.50	.21
	15			LNGF-315/15-**					
	16	5/8		LNGF-316/16-**					
	14			LNGF-414/14-**					
	15			LNGF-415/15-**					
	16	5/8		LNGF-416/16-**					
	17,2		3/8	LNGF-417.2/17.2-**	70	38	14,5	30,5	6.8
4	18			LNGF-418/18-**	2.76	1.50	.57	1.20	.27
	19	3/4		LNGF-419/19-**	2.10	1.00	.07	1.20	.21
	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.

Clamp Body *LNGF-*1*06/06-*PP * Light Series: Clamp Body / Twin Design with identical diameters Clamp Body / Twin Design with different diameters * STAUFF Group 1 * Exact outside diameters Ø D1 / Ø D2 (mm) 606/06 * Material code (see below) PP

Standard Materials



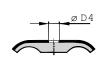


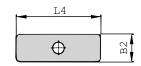
See pages 154/155 for material properties and technical information. Alternative materials are available upon request. Please contact STAUFF for further information.

Applications

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

Cover Plate Type DPL



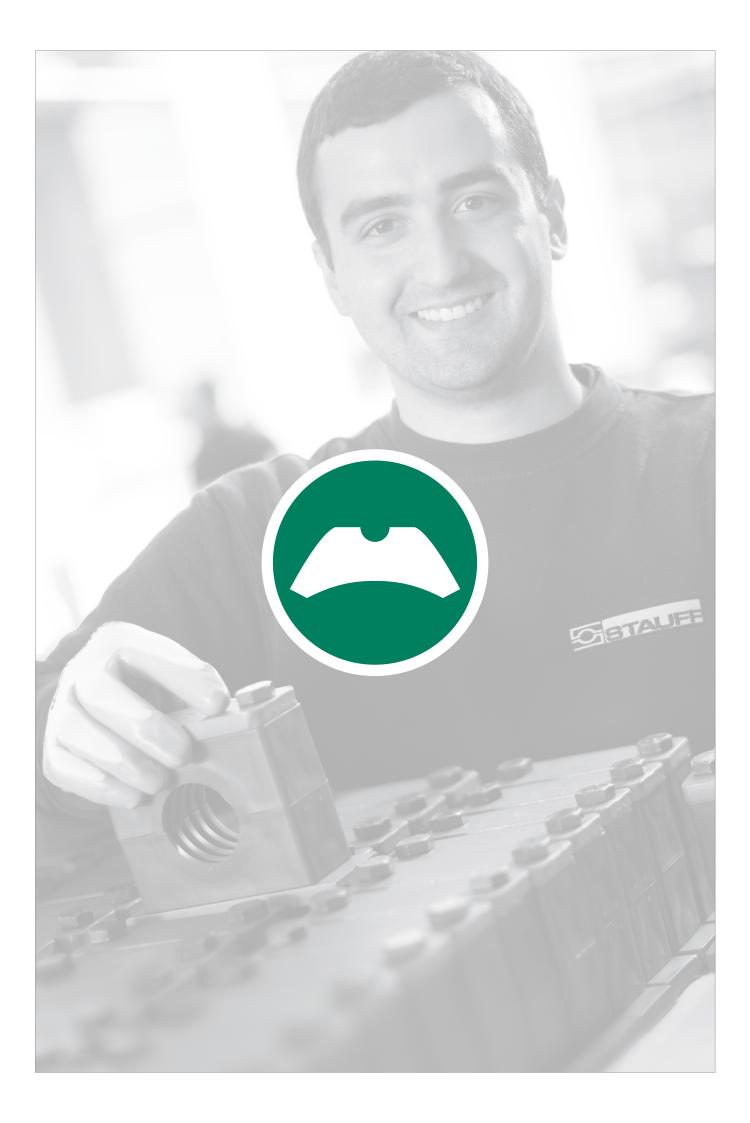




Group	Dimensions (mm/in)	ons (^{mm} / _{in})		Ordering Codes
STAUFF	L4	B2	Ø D4	(Standard Options)
1	29,5	15,5	6,8	DPL-1-W3
'	1.16	.61	.27	DFL-1-W3
2	40	15,5	6,8	DPL-2-W3
2	1.57	.61	.27	DPL-2-W3
2	51	16	6,8	DPL-3-W3
3	2.01	.63	.27	DPL-3-W3
	63,5	16	6,8	DDI 4 W2
4	2.50	.63	.27	DPL-4-W3

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 Clamps Type ZR



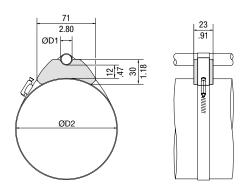
Order Code	
Saddle Clamp	ZR-518-SA73-BK

Standard Material



Thermoplastic Elastomer (73 Shore-A) Colour: Black

See pages 154 / 155 for properties and technical information.



Min/Max Outs Pipe / Tube	ide Diameters '			Tightening Strap Dimensions (Not Included in Scope of Delivery)					
Ø D1 (mm)	(in)	Ø D2 (mm)	(in)	Length (mm)	(in)	Width (mm)	(in)		
(IIIII)	(III)	50 70	1.96 2.76	196 254	7.71 10.00	(IIIII)	.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				
10 22	.3987	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!

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.

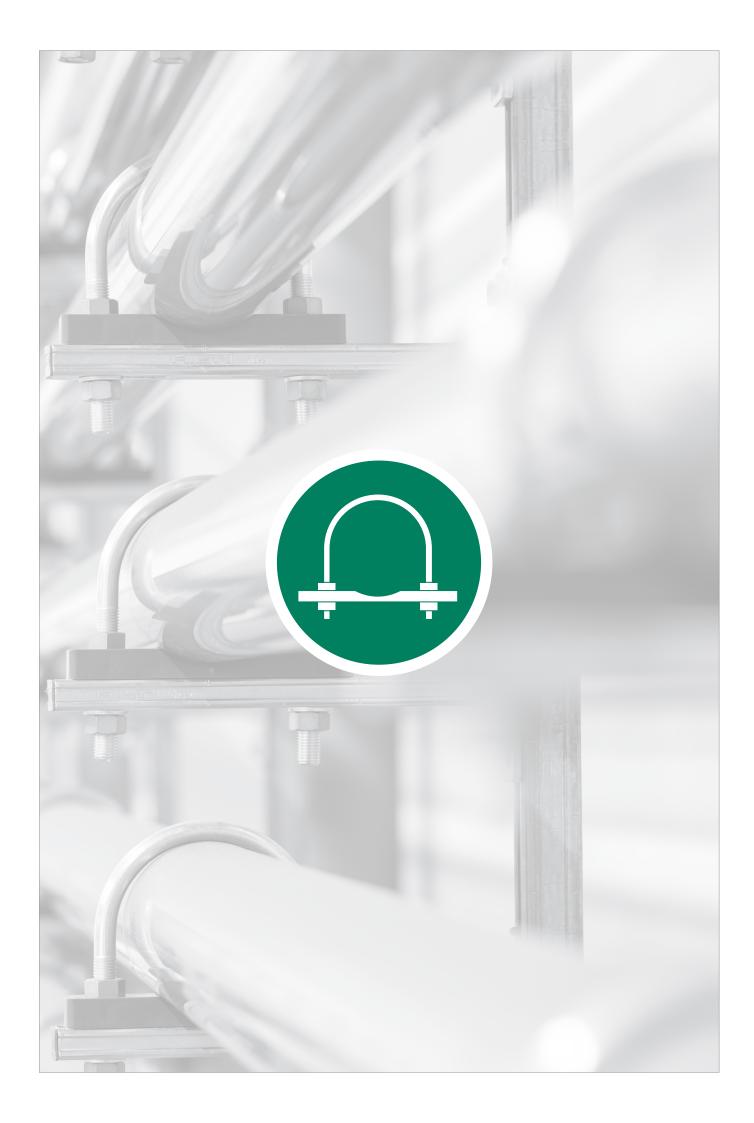
Please contact STAUFF for further information.



Dimensional drawings: All dimensions in mm (in).







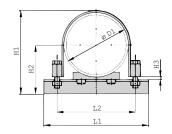


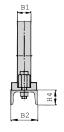


Flat Steel U-Bolt with Plastic Pipe Saddle (Short) and U-Profile

Type FB+RUK (To be used as Fixed Point Clamps only)







Flat Steel U-Bolt (type FB) with Plastic Pipe Saddle (type RUK), U-Profile and Hexagon Head Bolts

Ordering Codes

Clamp Assembly *FB+RUK-*48.3-*PP-*W1

One clamp assembly is consisting of one Flat Steel U-Bolt (type FB), one Plastic Pipe Saddle (type RUK), one U-Profile (to DIN 1026) with two Nuts (to DIN EN ISO 4032) and two Hexagon Head Bolts (to DIN EN ISO 4014 / 4017).

* Clamp Assembly (as listed above) FB+R						
* Exact outside d	iameter Ø D1 (mm)	48.3				
* Material of Pipe	PP					
* Material code	W1 W33					
	Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316	_{S Ti)} W5				
Please note:	The U-Profile (to DIN 1026) is a Carbon Steel, uncoated.	made of				
Please note:	All items are supplied assemb	led.				

Standard Materials for Plastic Pipe Saddles



Polypropylene Colour: Green

Material code: PP



Polyamide Colour: Black Material code: PA

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

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

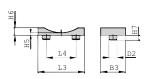
Applications

- Standing or hanging installation of pipes and tubes on beams, profiles and consoles
- Design with two threaded ends allows for ideal adaptation to suit the exact outer diameter of the pipe or tube

D'	0.1.21.1	D' I		D'	(mm /)					
Diameter Nominal			Nominal Bore	Dimensi	ons (^{mm} /in)					U-Profile
Nomina			Pipe	Flat Stee	Flat Steel U-Bolt (Type FB)					
DN	(mm)	(in)	(in)	L1	L2	H1	H2	Н3	B1	(DIN 1026) B2 x H4
	, ,	,	1	100	76	95	67	5	20 x 3	50 x 38
40	48,3	1.93	1-1/2	3.94	2.99	3.74	2.64	.20	.78 x .12	1.97 x 1.50
				115	85	103	71,5	5	20 x 3	50 x 38
	57	2.28		4.53	3.35	4.06	2.81	.20	.78 x .12	1.97 x 1.50
50		0.44		115	88	106	73,2	5	20 x 3	50 x 38
	60,3	2.41	2	4.53	3.46	4.17	2.88	.20	.78 x .12	1.97 x 1.50
05	70.4	3.04	0.4/0	132	104	122	81	5	20 x 3	50 x 38
65	76,1		2-1/2	5.20	4.09	4.80	3.19	.20	.78 x .12	1.97 x 1.50
00	00.0	0.50	3	160	121	146	97,5	8	40 x 4	80 x 45
80	88,9	3.56	3	6.30	4.76	5.75	3.84	.31	1.57 x .16	3.15 x 1.77
	108	4.32		170	140	165	107	8	40 x 4	80 x 45
100	108	4.32		6.69	5.51	6.50	4.21	.31	1.57 x .16	3.15 x 1.77
100	114,3	4.57	4	180	147	171	110	8	40 x 4	80 x 45
	114,3	4.57	4	7.09	5.79	6.73	4.33	.31	1.57 x .16	3.15 x 1.77
	133	5.32		210	165	190	119,5	8	40 x 4	80 x 45
125	133	5.32		8.27	6.50	7.48	4.70	.31	1.57 x .16	3.15 x 1.77
120	139,7	5.59	5	210	172	197	123	8	40 x 4	80 x 45
	139,7	5.59	3	8.27	6.77	7.76	4.84	.31	1.57 x .16	3.15 x 1.77
150	159	6.36		265	201	220	132,5	8	40 x 6	80 x 45
150	159	0.30		1.43	7.91	8.66	5.22	.31	1.57 x .24	3.15 x 1.77
150	100.0	6.70	6	275	211	230	137	8	40 x 6	80 x 45
	168,3	6.73	О	1.83	8.31	9.06	5.39	.31	1.57 x .24	3.15 x 1.77
175	102.7	7.75		305	236	255	150	8	40 x 6	80 x 45
175	193,7	1.13		12.01	9.29	1.04	5.91	.31	1.57 x .24	3.15 x 1.77
	016	8.64		320	258	277	161	8	40 x 6	80 x 45
200	216	0.04		12.60	10.16	1.91	6.34	.31	1.57 x .24	3.15 x 1.77
200	210.1	219,1 8.76 8	0	320	261	280	162,5	8	40 x 6	80 x 45
	219,1		0	12.60	1.28	11.02	6.40	.31	1.57 x .24	3.15 x 1.77
	267	10.68		380	324	328	186,5	8	40 x 8	80 x 45
250	207			14.96	12.76	12.91	7.34	.31	1.57 x .31	3.15 x 1.77
230	273	10.92	10	385	330	334	189,5	8	40 x 8	80 x 45
	213	10.92	10	15.16	12.99	13.15	7.46	.31	1.57 x .31	3.15 x 1.77
	318	12.72		440	375	382	212	8	40 x 8	80 x 45
300	310	12.72		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
	323,3	12.30	12	17.72	15.00	15.35	8.46	.31	1.57 x .31	3.15 x 1.77
	355,6	14.22	14	480	417,5	421	235	12	60 x 8	100 x 50
350	333,0	14.22	14	18.90	16.44	16.57	9.25	.47	2.36 x .31	3.94 x 1.97
300	368	14.72		490	430	434	242	12	60 x 8	100 x 50
	000	14.72		19.29	16.93	17.09	9.53	.47	2.36 x .31	3.94 x 1.97
	406,4	16.26	16	550	468,5	472	261	12	60 x 8	100 x 50
	700,4	10.20	10	21.65	18.44	18.58	10.28	.47	2.36 x .31	3.94 x 1.97
400	419	16.76		550	481	485	267,5	12	60 x 8	100 x 50
100	713	10.70		21.65	18.94	19.09	10.53	.47	2.36 x .31	3.94 x 1.97
	457	18.28	18	585	519	523	286,5	12	60 x 8	100 x 50
	,	10.20	1.0	23.03	20.43	20.59	11.28	.47	2.36 x .31	3.94 x 1.97
	508	20.32	20	630	570	574	312	12	60 x 8	100 x 50
500	300	20.02	20	24.80	22.44	22.60	12.28	.47	2.36 x .31	3.94 x 1.97
300	521	20.84		640	583	587	319	12	60 x 8	100 x 50
	J.	20.01		25.20	22.96	23.11	12.56	.47	2.36 x .31	3.94 x 1.97



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	Outside	Diameter	Nominal	Dimen	sions (^{mr}	ⁿ /in)						
Nominal	Pipe / Tu		Bore	2) 0	,,					Hexagon Head Bolt	
	Ø D1		Pipe	Plastic Pipe Saddle (type RUK)							(DIN EN ISO 4014 / 4017)	
DN	(mm)	(in)	(in)	L3	L4	В3	D2	H5	H6	H7	Thread G x L	
40	48,3	1.93	1-1/2	24	25	35	8	5	8	5	M10 x 40	
40	40,3	1.93	1-1/2	.94	.98	1.38	.31	.20	.31	.20	WITU X 40	
	57	2.28		38	25	50	10	5	10	6	M10 x 40	
50	31	2.20		1.50	.98	1.97	.39	.20	.39	.24	W110 X 40	
50	60,3	2.41	2	38	25	50	10	5	10	6	M10 x 40	
	00,0	2.71	-	1.50	.98	1.97	.39	.20	.39	.24	WITO X 40	
65	76,1	3.04	2-1/2	38	25	50	10	5	10	6	M10 x 40	
	. 0,.	0.01		1.50	.98	1.97	.39	.20	.39	.24		
80	88,9	3.56	3	75	40	70	15	8	17	10	M 12 x 55	
	, .			2.95	1.57	2.76	.59	.31	.67	.39		
	108	4.32		75	40	70	15	8	17	10	M 12 x 55	
100				2.95	1.57	2.76	.59	.31	.67	.39		
	114,3	4.57	4	75	40	70	15	8	17	10	M 12 x 55	
				2.95	1.57	2.76	.59	.31	.67 17	.39	M40 55	
	133	5.32		75 2.95	40	70	.59		.67	.39	M 12 x 55	
125				75	1.57	2.76 70	15	8	17	10		
	139,7	5.59	5	2.95	1.57	2.76	.59	.31	.67	.39	M 12 x 55	
				140	90	75	25	8	26	10	M 16 v 75	
	159	6.36		5.51	3.54	2.95	.98	.31	1.02	.39	M 16 x 75	
150				140	90	75	25	8	26	10		
	168,3	6.73	6	5.51	3.54	2.95	.98	.31	1.02	.39	M 16 x 75	
				140	90	75	25	8	26	10		
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		
000	216	8.64		5.51	3.54	2.95	.98	.31	1.02	.39	M 16 x 75	
200		0.70	0	140	90	75	25	8	26	10	11.10 75	
	219,1	8.76	8	5.51	3.54	2.95	.98	.31	1.02	.39	M 16 x 75	
	267	10.00	10.00		140	90	75	25	8	26	10	M 20 v 20
250	267	10.68		5.51	3.54	2.95	.98	.31	1.02	.39	M 20 x 80	
250	273	10.00	10.92	10	140	90	75	25	8	26	10	M 20 x 80
	213	10.92	10	5.51	3.54	2.95	.98	.31	1.02	.39	IVI ZU X OU	
	318	12.72		220	150	75	30	8	32	10	M 20 x 80	
300	310	12.12		8.66	5.91	2.95	1.18	.31	1.26	.39	W 20 X 00	
	323,9	12.96	12	220	150	75	30	8	32	10	M 20 x 80	
	320,0	12.00		8.66	5.91	2.95	1.18	.31	1.26	.39	20 x 00	
	355,6	14.22	14	220	150	75	30	8	32	10	M 24 x 100	
350	,-			8.66	5.91	2.95	1.18	.31	1.26	.39	1.0	
-	368	14.72		220	150	75	30	8	32	10	M 24 x 100	
				8.66	5.91	2.95	1.18	.31	1.26	.39		
	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		
400	419	16.76		220	150	75	30	8	32	10	M 24 x 100	
.50				8.66	5.91	2.95	1.18	.31	1.26	.39		
	457	18.28	18	220	_	75	_	_	1.26	.39	M 24 x 100	
				8.66	5.91	2.95	1.18	.31	32	_	21%130	
	508	20.32	20	220 8.66	150 5.91	75 2.95	1.18	.31	1.26	.39	M 24 x 100	
500				220	150	75	30	8	32	10		
											M 24 x 100	



Ordering Codes	
Flat Steel U-Bolt	*
* Flat Steel II_Rolt	

*FB-*A-48.3-*W1

* Flat Steel U-Bolt

FB

* Exact outside diameter Ø D1 (mm)

A-48.3 W1

* Material code Carbon Steel, uncoated Carbon Steel, zinc-plated, blue-chromated

W32

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

SI 316 / 316 Ti)

only Plastic Pipe Saddle *RUK-*48.3-*PP

* Plastic Pipe Saddle (Short)

RUK

* Exact outside diameter Ø D1 (mm)

48.3 PP

* Material of Pipe Saddle (see below)

All items are supplied assembled.

Standard Materials for Plastic Pipe Saddles



Polypropylene Colour: Green

Material code: **PP**



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

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

Applications

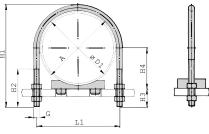
- Standing or hanging installation of pipes and tubes on beams, profiles and consoles
- Design with two threaded ends allows for ideal adaptation to suit the exact outer diameter of the pipe or tube

STAUFF®

>DN25

Round Steel U-Bolt with Plastic Pipe Saddle (Short) Type RB+RUK





Recommended Installation <DN25

(type RUK) Recommended Installation

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+RU							
* Exact outside diameter Ø D1 (mm)							
* Material of Pipe	Saddle (see below)	PP					
* Material code	Carbon Steel, uncoated Carbon Steel, zinc-plated, blue-chromated	W1 W32					
	Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 3	16 Ti) W5					

Please note: All items are supplied non-assembled.

Standard Materials for Plastic Pipe Saddles



Polypropylene Colour: Green Material code: PP



Polyamide Colour: Black Material code: PA

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

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

Applications

- Standing or hanging installation of pipes and tubes on beams, profiles and consoles
- Design with two threaded ends allows for ideal adaptation to suit the exact outer diameter of the pipe or tube

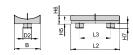
Diameter	Outside I	Diameter	Nominal	ominal Dimensions (mm/in)								
Nominal	Pipe / Tu Ø D1		Bore Pipe		, ,	+ (Tuno DD)						
DN	(mm)	(in)	(in)	A A	L1	t (Type RB) H1	H2	Н3	H4	Thread G		
	25	.98		00	40	73,5	41	30	17,5	M10		
20				30 1.18	1.57	2.89 73,5	1.61	1.18	.69 18,5			
	26,9	1.06	3/4		1.57	2.89	1.61	1.18	.73	M10		
	30	1.18		38	1.89	81 3.19	1.89	30	.79	M10		
25		1 00		1.50	48	81	48	30	22			
	33,7	1.33	1		1,89	3,19	1,89	1,18	.87	M10		
	38	1.50		46	56 2.20	3.50	1.89	30 1.18	.94	M10		
32	12.4	1 60	1-1/4	1.81	56	89	48	30	26,2	M10		
	42,4	1.69	1-1/4		2.20	3.50	1.89	1.18	1.03	MIU		
	44,5	1.76		52	62 2.44	100 3.94	55 2.17	35 1.38	27,2 1.07	M10		
40	48,3	1.90	1-1/2	2.05	62	100	55	35	29	M10		
	40,3	1.50	1-1/2		2.44	3.94	2.17	1.38	1.14	WITO		
	57	2.28		64	76 2.99	118 4.65	63 2.48	39 1.54	33,5 1.32	M12		
50	60,3	2.41	2	2.52	76	118	63	39	35,2	M12		
	00,0	2.11		82	2.99 94	4.65 135	2.48 77	1.54	1.39	WIZ		
65	76,1	3.04	2-1/2	3.23	3.70	5.31	3.03	1.54	1.69	M12		
80	88,9	3.56	3	94	106	152	82	41	52,5	M12		
				3.70	4.17	5.98 190	3.23 105	1.61	2.07			
400	108	4.32		120	5.35	7.48	4.13	1.93	2.44	M16		
100	114,3	4.57	4	4.72	136	190	105	49	65	M16		
	•				5.35	7.48	4.13	1.93	2.56 74,5			
125	133	5.32		148	6.46	8.54	4.13	1.93	2.93	M16		
120	139,7	5.59	5	5.83	164	217	105 4.13	49 1.93	78	M16		
	450	0.00			6.46	8.54 247	105	51	3.07 87,5	140		
150	159	6.36		176	7.56	9.72	4.13	2.01	3.44	M16		
	168,3	6.73	6	6.93	192 7.56	9.72	105 4.13	51 2.01	92 3.62	M16		
175	193,7	7.75		202	218	273	105	51	105	M16		
173	193,1	7.75		7.96	8.58	10.75	4.13	2.01	4.13	WITO		
	216	8.64		228	9.76	311 12.24	125 4.92	59 2.32	116 4.57	M20		
200	219,1	8.76	8	8.98	248	311	125	59	117,5	M20		
	210,1	0.70			9.76	12.24 364	4.92 125	2.32 59	4.63 141,5	INIEG		
250	267	10.68		282	11.93	14.33	4.92	2.32	5.57	M20		
200	273	10.92	10	11.10	302	364	125	59	144,5	M20		
					11.89 352	14.33 418	4.92 125	2.32	5.69 167			
300	318	12.72		332	13.86	16.46	4.92	2.44	6.57	M20		
300	323,9	12.96	12	13.07	352	418	125	62	170	M20		
		1100			13.86 402	16.46 475	4.92 145	70	6.69 186	1104		
350	355,6	14.22	14	378	15.83	18.70	5.71	2.76	7.32	M24		
	368	14.72		14.88	402 15.83	475 18.70	145 5.71	70 2.76	7.56	M24		
	406,4	16.26	16		452	526	145	70	211	M24		
400	400,4	10.20	10	428	17.80	20.71	5.71	2.76	8.31	IVIZ4		
	419	16.76		16.85	452 17.80	526 20.71	145 5.71	70 2.76	217,5 8.56	M24		
	508	20.32	20		554	627	145	70	262	M24		
500	300	20.02	20	20.87	21.81 554	24.69 627	5.71 145	2.76 70	10.31 269	14/6_7		
	521	20.84		20.87	21.81	24.69	5.71	2.76	10.59	M24		
										•		

48.3

PP



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)

	(F	or sizes DI	N 20 to DN 4	0) (From size DN 50 on)								
Diameter Nominal	Outside Pipe / Tu	Diameter ube	Nominal Bore	Dimens	ions (^{mm} / _{in})							
	Ø D1		Pipe	Plastic	Pipe Sadd	le (Type R	UK)					
DN	(mm)	(in)	(in)	Α	L2	L3	В	H5	H6	H7	D2	
	25	.98			35	25	24	5	8	5	8	
20		.50		30	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	
	30	1.18		38	35 1.38	.98	.94	.20	.31	.20	.31	
25				1.50	35	25	24	5	8	5	8	
	33,7	1.33	1	1.00	1.38	.98	.94	.20	.31	.20	.31	
	00	4.50			35	25	24	5	8	5	8	
32	38	1.50		46	1.38	.98	.94	.20	.31	.20	.31	
32	42,4	1.69	1-1/4	1.81	35	25	24	5	8	5	8	
	42,4	1.05	1-1/4		1.38	.98	.94	.20	.31	.20	.31	
	44,5	1.76			35	25	24	5	8	5	8	
40	,-	1		52	1.38	.98	.94	.20	.31	.20	.31	
	48,3	1.90	1-1/2	2.05	35 1.38	.98	.94	.20	.31	.20	.31	
					38	25	50	5	10	6	10	
	57	2.28		64	1.50	.98	1.97	.20	.39	.24	.39	
50		0.44	_	2.52	38	25	50	5	10	6	10	
	60,3	2.41	2		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	
00	70,1	3.04	2-1/2	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	
	108	4.32		100	75 2.95	40	70 2.76	8	.67	.39	.59	
100				120 4.72	75	1.57	70	.31	17	10	15	
	114,3	4.57	4	4.72	2.95	1.57	2.76	.31	.67	.39	.59	
					75	40	70	8	17	10	15	
105	133	5.32		148	2.95	1.57	2.76	.31	.67	.39	.59	
125	120.7	5.50	5	5.83	75	40	70	8	17	10	15	
	139,7	5.59	3		2.95	1.57	2.76	.31	.67	.39	.59	
	159	6.36			140	90	75	8	26	10	25	
150		1		176	5.51	3.54	2.95	.31	1.02	.39	.98	
	168,3	6.73	6	6.93	140 5.51	90	75 2.95	8	26 1.02	.39	.98	
				202	140	3.54 90	75	.31	26	10	25	
175	193,7	7.75		7.96	5.51	3.54	2.95	.31	1.02	.39	.98	
				7.00	140	90	75	8	26	10	25	
000	216	8.64		228	5.51	3.54	2.95	.31	1.02	.39	.98	
200	210.1	8.76	8	8.98	140	90	75	8	26	10	25	
	219,1	0.70	O		5.51	3.54	2.95	.31	1.02	.39	.98	
	267	10.68			140	90	75	8	26	10	25	
250		1.00		282	5.51	3.54	2.95	.31	1.02	.39	.98	
	273	10.92	10	11.10	140	90	75 2.95	8	26	10	25	
					5.51 220	3.54 150	75	.31	1.02	.39	.98 30	
	318	12.72		332	8.66	5.91	2.95	.31	1.26	.39	1.18	
300	000.0	40.00	40	13.07	220	150	75	8	32	10	30	
	323,9	12.96	12		8.66	5.91	2.95	.31	1.26	.39	1.18	
	355,6	14.22	14		220	150	75	8	32	10	30	
350	555,0	17.22	17	378	8.66	5.91	2.95	.31	1.26	.39	1.18	
	368	14.72		14.88	220	150	75	8	32	10	30	
		1			8.66	5.91	2.95	.31	1.26	.39	1.18	
	406,4	16.26	16	400	220	150	75	8	32	10	30	
400				428 16.85	8.66 220	5.91 150	2.95 75	.31	1.26 32	.39 10	1.18	
	419	16.76		10.00	8.66	5.91	2.95	.31	1.26	.39	1.18	
					220	150	75	8	32	10	30	
500	508	2.32	20	530	8.66	5.91	2.95	.31	1.26	.39	1.18	
500	E21	204		2.87	220	150	75	8	32	10	30	
	521	2.84			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)

* Material code Carbon Steel, uncoated

W1

Carbon Steel, uncoated W1
Carbon Steel, zinc-plated,
blue-chromated W32

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

only Plastic Pipe Saddle *RUK-*48.3-*PP

* Plastic Pipe Saddle (Short) RUK

* Exact outside diameter Ø D1 (mm)

* Material of Pipe Saddle (see below)

Standard Materials for Plastic Pipe Saddles



Polypropylene

Colour: Green Material code: **PP**



Polyamide

Colour: Black Material code: **PA**

See pages 154 / 155 for material properties and technical information

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

Applications

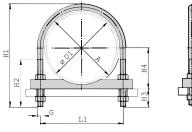
- Standing or hanging installation of pipes and tubes on beams, profiles and consoles
- Design with two threaded ends allows for ideal adaptation to suit the exact outer diameter of the pipe or tube



STAUFF®

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 >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+RU								
* Exact outside diameter Ø D1 (mm) 48								
* Material of Pipe Saddle (see below)								
	* Material code Carbon Steel, uncoated W1							
	Carbon Steel, zinc-plated, W32							
	blue-chromated							
	Stainless Steel V4A W5							
	1.4401 / 1.4571 (AISI 316 / 316 Ti)							
	Please note: All items are supplied non-assembled.							

Standard Materials for Plastic Pipe Saddles



Polypropylene Colour: Green Material code: PP



Polyamide Colour: Black Material code: PA

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

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

Applications

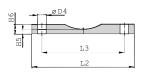
- Standing or hanging installation of pipes and tubes on beams, profiles and consoles
- Design with two threaded ends allows for ideal adaptation to suit the exact outer diameter of the pipe or tube

										>DN50
Diameter Nominal	Outside Pipe / Tu	Diameter be	Nominal Bore	Dimensi	ons (^{mm} /in)					
	Ø D1		Pipe	Round S	teel U-Bol	t (Type RB)				
DN	(mm)	(in)	(in)	Α	L1	H1	H2	Н3	H4	Thread G
00	25	.98		30	1.57	73,5 2.89	1.61	30 1.18	17,5 .69	M10
20	26,9	1.06	3/4	1.18	40 1.57	73,5 2.89	41 1.61	30 1.18	18.5 .73	M10
	30	1.18		38	48	81 3.19	48	30	20	M10
25	33,7	1.33	1	1.50	48	81	48	30	22	M10
	38	1.50			56	3.19 89	1.89	1.18	24	M10
32	42,4	1.69	1-1/4	46 1.81	2.20 56	3.50 89	1.89	1.18	.94 26,2	M10
	,		1 1/1		2.20 62	3.50 100	1.89 55	1.18	1.03	M10
40	44,5	1.76		52	2.44	3.94	2.17	1.38	1.07	IVITO
	48,3	1.90	1-1/2	2.05	62 2.44	100 3.94	55 2.17	35 1.38	29 1.14	M10
EO.	57	2.28		64	76 2.99	118 4.65	63 2.48	39 1.54	33,5 1.32	M12
50	60,3	2.41	2	2.52	76	118	63	39	35,2	M12
	00,0		_	00	2.99	4.65	2.48	1.54	1.39	2
65	76,1	3.04	2-1/2	82 3.23	94 3.70	135 5.31	77 3.03	39 1.54	43 1.69	M12
00	00.0	0.50	0	94	106	152	82	39	54,5	1440
80	88,9	3.56	3	3.70	4.17	5.98	3.23	1.54	2.15	M12
100	108	4.32		120	136 5.35	190 7.48	105 4.13	47 1.85	64 2.52	M16
100	114,3	4.57	4	4.72	136 5.35	190 7.48	105 4.13	47 1.85	67 2.64	M16
	133	5.32			164	217	105	47	76,5	M16
125		0.02		148	6.46	8.54	4.13	1.85	3.01	Wito
	139,7	5.59	5	5.83	6.46	217 8.54	105 4.13	1.85	3.15	M16
150	159	6.36		176	192 7.56	9.72	105 4.13	47 1.85	91,5 3.60	M16
150	168,3	6.73	6	6.93	192 7.56	247 9.72	105	47 1.85	96 3.78	M16
175	102.7	7 75		202	218	273	105	47	109	M16
175	193,7	7.75		7.96	8.58 248	10.75 311	4.13 125	1.85 55	4.29 120	
200	216	8.64		228	9.76	12.24	4.92	2.17	4.72	M20
200	219,1	8.76	8	8.98	248 9.76	311 12.24	125 4.92	55 2.17	121,5 4.78	M20
	267	10.68		282	303 11.93	364 14.33	125 4.92	55 2.17	145,5 5.73	M20
250	273	10.92	10	11.10	302 11.89	364	125	55	148,5	M20
	318	12.72		000	352	14.33	125	55	174	M20
300	323,9	12.96	12	332 13.07	13.86 352	16.46 418	4.92 125	2.17 55	6.85 177	M20
	355,6	14.22	14		13.86 402	16.46 475	4.92 145	2.17 63	6.97 193	M24
350			14	378 14.88	15.83 402	18.70 475	5.71 145	2.48	7.60 199	
	368	14.72			15.83 452	18.70 526	5.71	2.48	7.83 218	M24
400	406,4	16.26	16	428	17.80	20.71	5.71	2.48	8.58	M24
	419	16.76		16.85	452 17.80	526 20.71	145 5.71	63 2.48	224,5 8.84	M24
	508	20.32	20	530	554 21.81	627 24.69	145 5.71	63 2.48	269 10.59	M24
500	521	20.84		20.87	554 21.81	627	145	63	276 10.87	M24
			1		L1.01	24.09	J./ I	2.40	10.0/	

PP



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





Plastic Pipe Saddle (type RUL)

Diometer	Outside	Diamete:	Nominal	Dimon-	one (mm/)							
Diameter Nominal	Pipe / Tu	Diameter ube	Nominal Bore	Dimensions (mm/ _{fin})								
	Ø D1		Pipe	Plastic F	Plastic Pipe Saddle (Type RUL)							
DN	(mm)	(in)	(in)	Α	L2	L3	В	H5	H6	Ø D4		
	25	.98			75	40	30	5	12	11		
20		1.00		30	2.95	1.57	1.18	.20	.47	.43		
	26,9	1.06	3/4	1.18	75	40	30	5	12	11		
					2.95 80	1.57 48	1.18	.20 5	.47 12	.43		
	30	1.18		38	3.15	1.89	1.18	.20	.47	.43		
25				1.50	80	48	30	5	12	11		
	33,7	1.33	1	1.00	3.15	1.89	1.18	.20	.47	.43		
		4.50			90	56	30	5	12	11		
32	38	1.50		46	3.54	2.20	1.18	.20	.47	.43		
32	42,4	1.69	1-1/4	1.81	90	56	30	5	12	11		
	42,4	1.09	1-1/4		3.54	2.20	1.18	.20	.47	.43		
	44,5	1.76			95	62	35	5	15	11		
40	,5	15		52	3.74	2.44	1.38	.20	.59	.43		
	48,3	1.90	1-1/2	2.05	95	62	35	5	15	11		
					3.74 110	2.44 76	1.38 35	.20	.59 15	.43		
	57	2.28		64	4.33	2.99	1.38	.20	.59	.55		
50				2.52	110	76	35	5	15	14		
	60,3	2.41	2	2.02	4.33	2.99	1.38	.20	.59	.55		
^=		0.01	0.4.5	82	135	94	35	5	15	14		
65	76,1	3.04	2-1/2	3.23	5.31	3.70	1.38	.20	.59	.55		
00	00.0	2.50	2	94	145	106	40	10	20	14		
80	88,9	3.56	3	3.70	5.71	4.17	1.57	.39	.79	.55		
	108	4.32			190	136	40	10	20	18		
100	100	4.32		120	7.48	5.35	1.57	.39	.79	.71		
100	114,3	4.57	4	4.72	190	136	40	10	20	18		
	114,0	4.01	7		7.48	5.35	1.57	.39	.79	.71		
	133	5.32			220	164	40	10	20	18		
125				148	8.66	6.46	1.57	.39	.79	.71		
	139,7	5.59	5	5.83	220 8.66	164 6.46	1.57	.39	.79	.71		
					250	192	50	12	25	18		
	159	6.36		176	9.84	7.56	1.97	.47	.98	.71		
150				6.93	250	192	50	12	25	18		
	168,3	6.73	6		9.84	7.56	1.97	.47	.98	.71		
175	100.7	7.75		202	270	218	50	12	25	18		
175	193,7	7.75		7.96	10.63	8.58	1.97	.47	.98	.71		
	216	8.64			315	248	50	12	25	22		
200	216	0.04		228	12.40	9.76	1.97	.47	.98	.87		
200	219,1	8.76	8	8.98	315	248	50	12	25	22		
	,.	55			12.40	9.76	1.97	.47	.98	.87		
	267	10.68		000	370	302	50	12	25	22		
250		-		282	14.57	11.89	1.97	.47	.98	.87		
	273	10.92	10	11.10	370 14 57	302	1 97		25			
					14.5 <i>/</i> 420	11.89 352	1.97	15	.98	.87		
	318	12.72		332	16.54	13.86	2.36	.59	1.18	.87		
300		10.00	10	13.07	420	352	60	15	30	22		
	323,9	12.96	12		16.54	13.86	2.36	.59	1.18	.87		
	255.0	14.00	1.4		480	402	60	15	30	26		
250	355,6	14.22	14	378	18.90	15.83	2.36	.59	1.18	1.02		
350	368	14.72		14.88	480	402	60	15	30	26		
	300	17.72			18.90	15.83	2.36	.59	1.18	1.02		
	406,4	16.26	16		540	452	60	15	30	26		
400	100,4	10.20	10	428	21.26	17.80	2.36	.59	1.18	1.02		
. 30	419	16.76		16.85	540	452	60	15	30	26		
					21.26	17.80	2.36	.59	1.18	1.02		
	508	20.32	20	E20	640	554	60	15	30	26		
500				530 20.87	25.20 640	21.81 554	2.36	.59 15	1.18	1.02		
	521	20.84		20.07	25.20	21.81	2.36	.59	1.18	1.02		



Ordering Codes
Round Steel U-Bolt*RB-*A-52-*W1-*COMPL
One Round Steel U-Bolt (type RB) inlcludes four Nuts (to DIN EN ISO 4032).
* Round Steel U-Bolt RB
* Dimension A (mm) A-52
* Material code Carbon Steel, uncoated W1 Carbon Steel, zinc-plated, blue-chromated W32
Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti) W5
only Plastic Pipe Saddle *RUL-*48.3-*PP
* Plastic Pipe Saddle (Long) RUL
* Exact outside diameter Ø D1 (mm) 48.3

Standard Materials for Plastic Pipe Saddles

Polypropylene Colour: Green

* Material of Pipe Saddle (see below)





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

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

Applications

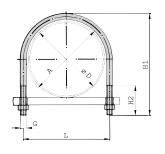
- Standing or hanging installation of pipes and tubes on beams, profiles and consoles
- Design with two threaded ends allows for ideal adaptation to suit the exact outer diameter of the pipe or tube



STAUFF ®

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 Assembl	y (as listed above)	RBD
* Dimension A (m	A-30	
* Material code	Carbon Steel, uncoated Carbon Steel, zinc-plated, blue-chromated	W1 W32
	Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 T	W5
Please note: All ite	ems are supplied non-assembled.	

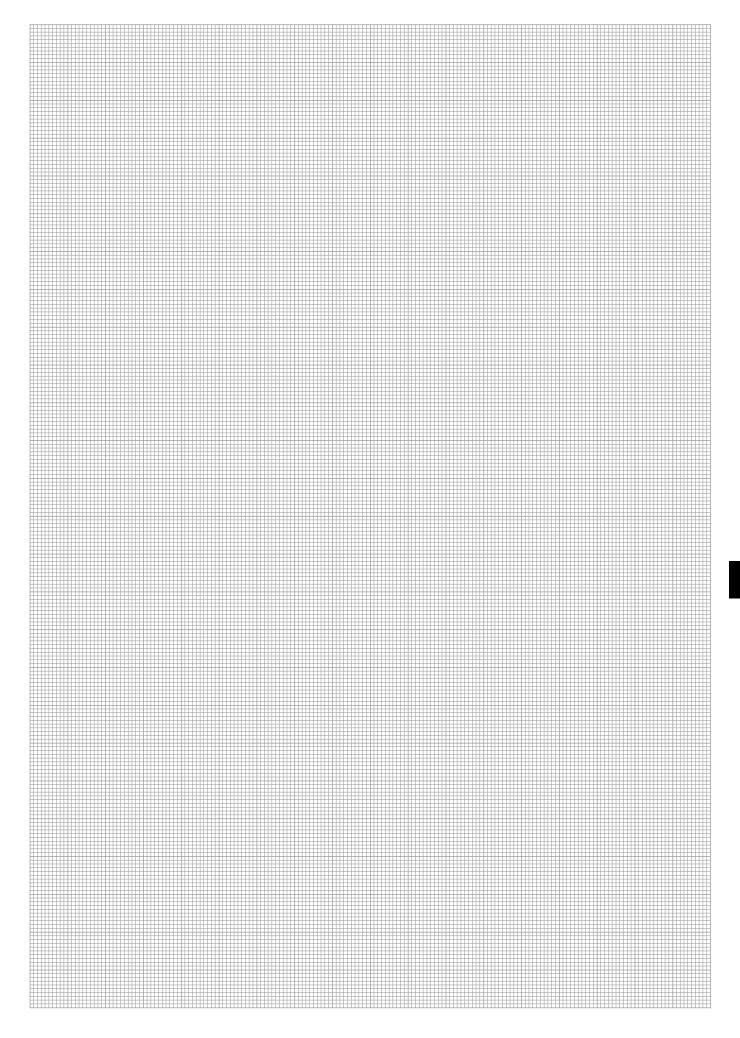
Applications

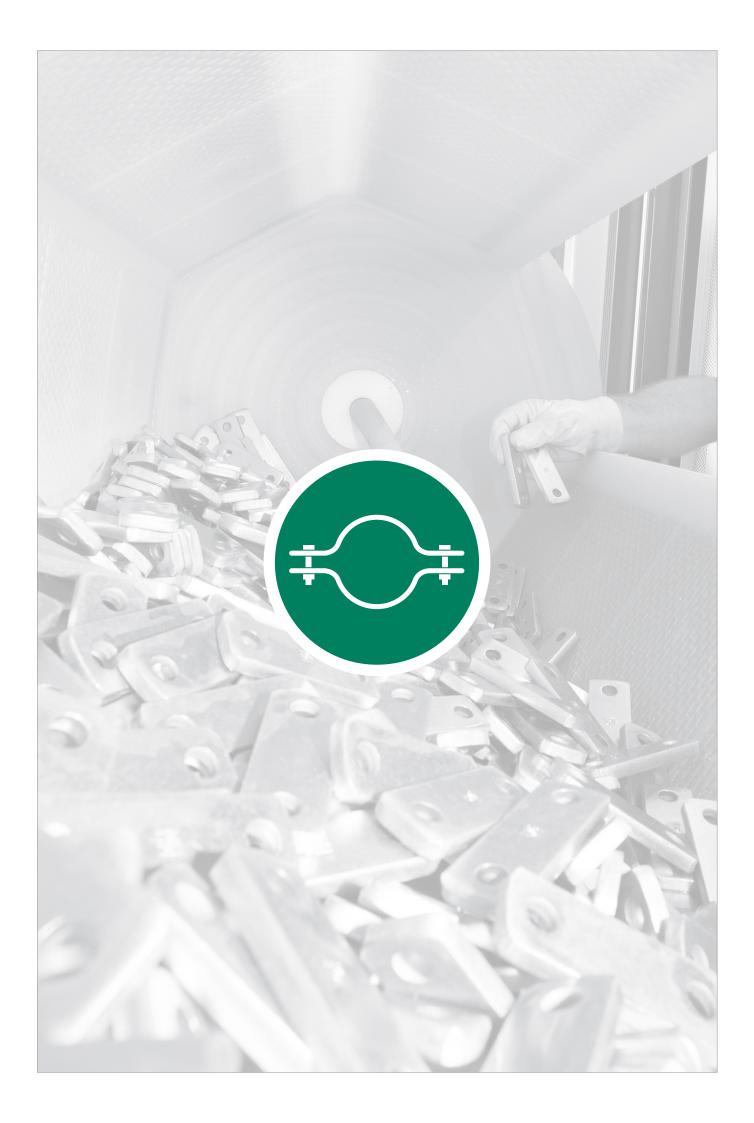
- Standing or hanging installation of pipes and tubes on beams, profiles and consoles
- Design with two threaded ends allows for ideal adaptation to suit the exact outer diameter of the pipe or tube

Round Steel U-Bolt (type RBD)										
Diameter Nominal	Outside Pipe / Tu		Nominal Bore	Dimensions (mm/in)						
	Ø D1		Pipe	Round Steel U	I-Bolt (Type RBI	0)				
DN	(mm)	(in)	(in)	Α	L	H1	H2	Thread G		
	25	.98			40	70	40	M10		
20				30 1.18	1.57	2.76 70	1.57			
	26,9	1.06	3/4	1.10	1.57	2.76	1.57	M10		
	00	1.10			48	76	40	M40		
25	30	1.18		38	1.89	2.99	1.57	M10		
	33,7	1.33	1	1.50	48	76	40	M10		
	ĺ				1,89 56	2.99 86	1.57			
	38	1.50		46	2.20	3.39	1.97	M10		
32	42,4	1.69	1-1/4	1.81	56	86	50	M10		
	42,4	1.03	1-1/4		2.20	3.39	1.97	IWITO		
	44,5	1.76		52	62 2.44	92 3.62	1.97	M10		
40				2.05	62	92	50			
	48,3	1.90	1-1/2	2.00	2.44	3.62	1.97	M10		
	57	2.28			76	109	50	M12		
50		2.20		64	2.99	4.29	1.97	IVITE		
	60,3	2.41	2	2.52	76 2.99	109 4.29	1.97	M12		
			2 1 /2	82	94	125	50			
65	76,1	3.04	2-1/2	3.23	3.70	4.92	1.97	M12		
80	88,9	3.56	3	94	106	138	50	M12		
100	00,0	0.00		3.70	4.17	5.43	1.97	2		
	108	4.32		120	136 5.35	171 6.73	2.36	M16		
	4440	4.57		4.72	136	171	60	140		
	114,3	4.57	4		5.35	6.73	2.36	M16		
	133	5.32			164	191	60	M16		
125				148 5.83	6.46 164	7.52 191	2.36			
	139,7	5.59	5	0.00	6.46	7.52	2.36	M16		
	159	6.36			192	217	60	M16		
150	133	0.50		176	7.56	8.54	2.36	IVITO		
	168,3	6.73	6	6.93	192	217	60	M16		
				202	7.56 218	8.54 249	2.36			
175	193,7	7.75		7.96	8.58	9.80	2.36	M16		
	216	8.64			248	283	70	M20		
200		0.01		228	9.76	11.14	2.76	MEO		
	219,1	8.76	8	8.98	9.76	283 11.14	70 2.76	M20		
	267	10.60			303	334	70	Maa		
250	267	10.68		282	11.93	13.15	2.76	M20		
200	273	10.92	10	11.10	302	334	70	M20		
					352 352	13.15 385	70			
000	318	12.72		332	13.86	15.16	2.76	M20		
300	323,9	12.96	12	13.07	352	385	70	M20		
	323,3	12.30	14		13.86	15.16	2.76	IVIZU		
	355,6	14.22	14	378	402 15.83	435 17.13	70 2.76	M24		
350		44-5		14.88	402	435	70	1101		
	368	14.72			15.83	17.13	2.76	M24		
	406.4	16.26	16		452	487	70	M24		
400	, •	.5.25		428	17.80	19.17	2.76			
	419	16.76		16.85	452 17.80	487 19.17	70 2.76	M24		
	500	00.00	00		554	589	70	1404		
500	508	20.32	20	530	21.81	23.19	2.76	M24		
300	521	20.84		20.87	554	589	70	M24		
					21.81	23.19	2.76			









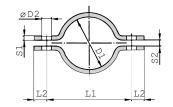


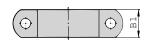
£ 3ª	Two-Bolt Design DIN 3567-A	136
2	Metal Pipe Clamp with Tension Clearance Three-Bolt Design (Extended to One Side) DIN 3567-B	137
5	Heavy Saddle with Tension Clearance Single-Bolt Design DIN 1592	138
Sh	Heavy Saddle with Tension Clearance Two-Bolt Design DIN 1593	139
1	Light Saddle with Tension Clearance Single-Bolt Design DIN 1596	140
n	Light Saddle with Tension Clearance Two-Bolt Design DIN 1597	141

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 Clam	ip to DIN 3567, type A	DIN3567-A
* STAUFF Group (Ø D1)	-20
* Material code	Carbon Steel, uncoated	W1
	Carbon Steel, hot-dip galvan	ised W40
	Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 /	316 Ti) W5

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.

DIN3567-A	np to DIN 3567, type A	* Metal Pipe Clam		
-20	* STAUFF Group (Ø D1)			
W1	Carbon Steel, uncoated	* Material code		
sed W40	Carbon Steel, hot-dip galvan			
316 Ti) W5	Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 3			

* 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

0.74	N	0.	D'	(mm						
STAUFF Group	Nominal	Size	Dimensi	Accessories						
шопр		Pipe							Hexagon Head Bolts	
Ø D1	(mm)	(in)	L1	L2	S1	S2	D2	B1	(Hexagon Head Nuts)	
20			2.24	15	.20	.28	.45	30		
	15		59	.59 15	5	7	11.5	1.18		
22			2.32	.59	.20	.28	.45	1.18		
25			62	15	5	7	11.5	30		
	20		2.44	.59 15	.20	.28	.45 11.5	1.18		
27		3/4	2.60	.59	.20	.28	.45	1.18		
20			68	15	5	7	11.5	30	M10 x 30	
30	25		2.68	.59	.20	.28	.45	1.18	(M10)	
34	20	1	72	15	5	7	11.5	30	3/8–16 UNC x 1-1/4	
			2.83 76	.59 15	.20	.28	.45 11.5	1.18	(3/8–16 UNC)	
38	00		2.99	.59	.20	.28	.45	1.18		
43	32	1-1/4	82	15	5	7	11.5	30		
+0		1 1/4	3.23	.59	.20	.28	.45	1.18		
45			3.31	.59	.20	.28	.45	30 1.18		
	40		88	15	5	7	11.5	30		
49		1-1/2	3.46	.59	.20	.28	.45	1.18		
57			104	18	6	9	14	40		
01	50		4.09	.71	.24	.35	.55	1.57		
61			2	108 4.25	.71	.24	.35	.55	1.57	M12 x 35 (M12)
	05	0.4/0	122	18	6	9	14	40	7/16–14 UNC x 1-3/8	
77	65	2-1/2	4.80	.71	.24	.35	.55	1.57	(7/16-14 UNC)	
89	80 3	3	136	18	6	9	14	40		
			5.35	.71 24	.24	.35	.55	1.57		
108			6.77	.94	.31	.43	.71	50 1.97		
115	100	4	178	24	8	11	18	50		
115		4	7.01	.94	.31	.43	.71	1.97		
133			196	24	8	11	18	50		
	125		7.72 204	.94 24	.31 8	.43	.71 18	1.97 50		
140			8.03	.94	.31	.43	.71	1.97	M16 x 45	
159			222	24	8	11	18	50	(M16)	
100	150		8.74	.94	.31	.43	.71	1.97	5/8-11 UNC x 1-3/4	
169			9.13	.94	.31	.43	.71	50 1.97	(5/8–11 UNC)	
10.4	175		258	24	8	11	18	50		
194	175		10.16	.94	.31	.43	.71	1.97		
216			280	24	8	11	18	50		
	200		11.02 284	.94	.31 8	.43	.71 18	1.97		
220			11.18	.94	.31	.43	.71	1.97		
267			342	30	8	14	23	60		
201	250		13.46	1.18	.31	.55	.91	2.36		
273			348	30	8	14	23	60	M00 50	
			13.70 392	1.18	.31	.55 14	.91 23	2.36	M20 x 50 (M20)	
318	200		15.43	1.18	.31	.55	.91	2.36	3/4–10 UNC x 2	
324	300		398	30	8	14	23	60	(3/4-10 UNC)	
324			15.67	1.18	.31	.55	.91	2.36		
368	350		17.48	30 1.18	.31	.55	.91	60 2.36		
			498	36	10	18	27	70		
407	400		19.61	1.42	.39	.71	1.06	2.76	M24 x 60	
419	400		510	36	10	18	27	70	(M24)	
			10.08	1.42	.39	.71	1.06	2.76	7/8–9 UNC 2-3/8 (7/8–9 UNC)	
521	500		614 24.17	36 1.42	.39	.71	1.06	70 2.76	(170-3 UNO)	
				11.14	1.00	1	1.00	2.70		

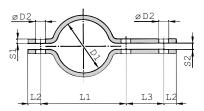


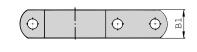
COMPL



Metal Pipe Clamp with Tension Clearance (DIN 3567-B)

Three-Bolt Design (Extended to One Side)







STAUFF Group	Nomina	I Size	Dimens	Accessories						
		Pipe		1	1	1	Las	l.	1	Hexagon Head Bolts
Ø D1	(mm)	(in)	L1	L2	L3	S1	S2	D2	B1	(Hexagon Head Nuts
20			2.24	15	46	5	.28	11.5	30 1.18	
	15		59	.59 15	1.81 46	.20	7	.45 11.5	30	
22			2.32	.59	1.81	.20	.28	.45	1.18	
			62	15	46	5	7	11.5	30	
25			2.44	.59	1.81	.20	.28	.45	1.18	
07	20	0/4	66	15	46	5	7	11.5	30	
27		3/4	2.60	.59	1.81	.20	.28	.45	1.18	
30			68	15	46	5	7	11.5	30	M10 x 30
30	25		2.68	.59	1.81	.20	.28	.45	1.18	(M10)
34	20	1	72	15	46	5	7	11.5	30	3/8–16 UNC x 1-1/4
•		'	2.83	.59	1.81	.20	.28	.45	1.18	(3/8-16 UNC)
38			76	15	46	5	7	11.5	30	
	32		2.99	.59	1.81	.20	.28	.45	1.18	_
43		1-1/4	82 3.23	.59	46 1.81	.20	.28	11.5 .45	30 1.18	
			84	15	46	5	7	11.5	30	
45			3.31	.59	1.81	.20	.28	.45	1.18	-
	40		88	15	46	5	7	11.5	30	
49		1-1/2	3.46	.59	1.81	.20	.28	.45	1.18	
			104	18	54	6	9	14	40	
57	50		4.09	.71	2.13	.24	.35	.55	1.57	
04	50	0	108	18	54	6	9	14	40	M12 x 35
61		2	4.25	.71	2.13	.24	.35	.55	1.57	(M12)
77	65	2-1/2	122	18	54	6	9	14	40	7/16-14 UNC x 1-3/8
"	00	2-1/2	4.80	.71	2.13	.24	.35	.55	1.57	(7/16-14 UNC)
89	80	3	136	18	54	6	9	14	40	
บฮ	00	3	5.35	.71	2.13	.24	.35	.55	1.57	
108			172	24	70	8	11	18	50	
	100		6.77	.94	2.76	.31	.43	.71	1.97	
115		4	178	24	70	8	11	18	50	
			7.01	.94	2.76	.31	.43	.71	1.97	
133			196	24	70	8	11	18	50	
	125		7.72	.94	2.76 70	.31 8	.43	.71 18	1.97	
140			8.03	.94	2.76	.31	.43	.71	1.97	M16 x 45
			222	24	70	8	11	18	50	(M16)
159			8.74	.94	2.76	.31	.43	.71	1.97	5/8–11 UNC x 1-3/4
	150		232	24	70	8	11	18	50	(5/8–11 UNC)
169			9.13	.94	2.76	.31	.43	.71	1.97	
	475		258	24	70	8	11	18	50	
194	175		10.16	.94	2.76	.31	.43	.71	1.97	
016			280	24	70	8	11	18	50	
216	200		11.02	.94	2.76	.31	.43	.71	1.97	
220	200		284	24	70	8	11	18	50	
220			11.18	.94	2.76	.31	.43	.71	1.97	
267			342	30	86	8	14	23	60	
	250		13.46	1.18	3.39	.31	.55	.91	2.36	
273			348	30	86	8	14	23	60	
			13.70	1.18	3.39	.31	.55	.91	2.36	M20 x 50
318			392	30	86	8	14	23	60	(M20)
	300		15.43	1.18	3.39	.31	.55	.91	2.36	3/4–10 UNC x 2 (3/4–10 UNC)
324			398 15.67	30 1.18	86 3.39	.31	14	.91	2.36	(5/ 10 0110)
			444	30	86	8	.55 14	23	60	
368	350		17.48	1.18	3.39	.31	.55	.91	2.36	
			498	36	104	10	18	27	70	
407			19.61	1.42	4.09	.39	.71	1.06	2.76	M24 x 60
	400		510	36	104	10	18	27	70	(M24)
419			10.08	1.42	4.09	.39	.71	1.06	2.76	7/8–9 UNC 2-3/8
			614	36	104	10	18	27	70	(7/8–9 UNC)
521	500		24.17	1.42	4.09	.39	.71	1.06	2.76	

Ordering Codes Metal Pipe Clamp *DIN3567-B*-20*W1 One metal pipe clamp is consisting of two clamp halves. Hexagon head bolts and nuts are not included. * Metal Pipe Clamp to DIN 3567, type B DIN3567-B * STAUFF Group (Ø D1) -20 * Material code Carbon Steel, uncoated W1 Carbon Steel, hot-dip galvanised W40 Stainless Steel V4A 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 W1 Carbon Steel, uncoated Carbon Steel, hot-dip galvanised W40 Stainless Steel V4A W5 1.4401 / 1.4571 (AISI 316 / 316 Ti)

Applications

 Installation of pipes, tubes and other construction elements on beams, profiles and consoles

Please note: All items are supplied non-assembled.

* Clamp assembly with bolts and nuts

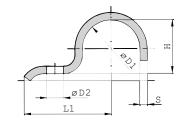


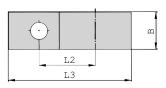


Heavy Saddle with Tension Clearance (DIN 1592)

Single-Bolt Design







Ordering C	odes	
Heavy Saddle	*DIN15	92-*7-*W66
* Heavy Saddle to	DIN1592	
* STAUFF Group (Ø D1)	7
* Material code	Carbon Steel, uncoated	W1
	Carbon Steel, zinc-plated and thick-film passivated	WAA
	Stainless Steel V4A 1.4401 / 1.4571 (AISI 31)	6 / 316 Ti) W5

Applications

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

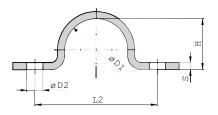
STAUFF Group	Diameter R	ange	Dimension	Dimensions (^{mm} /in)						
Ø D1	(mm)	(in)	L1	L2	L3	Н	D2	В	S	
7	5,5 7	.2228	22	14	27,5	5	6,6	16	2	
'	5,5 /	.2220	.87	.55	1.08	.20	.26	.63	.08	
9	79	.2835	27	18	33,5	6	6,6	20	2	
9	7 9	.2033	1.06	.71	1.32	.24	.26	.79	.08	
13	9,5 13	.3951	40	25	49,5	9	11	25	3	
13	9,5 15	.5551	1.57	.98	1.95	.35	.43	.98	.12	
15,5	13 15,5	.5161	41	26	52	12	11	25	3	
10,0	10 10,0	.0101	1.61	1.02	2.05	.47	.43	.98	.12	
19	15,5 19	.6175	43	28	55,5	15	11	25	3	
13	10,0 10	.0170	1.69	1.10	2.19	.59	.43	.98	.12	
23	20 23	.7991	51	35	67	19	14	30	5	
20	20 20	.7001	2.01	1.38	2.64	.75	.55	1.18	.20	
26	23 26	.91 1.02	52	36	70	22	14	30	5	
	20 20	.01 1.02	2.05	1.42	2.76	.87	.55	1.18	.20	
28,5	26 28,5 1	1.02 1.12	53	37	73	24	14	30	5	
20,0	20 20,0		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	
· ·	20,0 0 .	1112 III 1122	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 2.87	53	105,5	44	18	40	.31	
			76	2.09	4.15	1.73 47	.71 18	1.57	8	
52 *	49 52	1.93 2.05	2.99	2.20	110 4.33	1.85	.71	1.57	.31	
			78	58	115	52	18	40	8	
58	53 58	2.09 2.28	3.07	2.28	4.53	2.05	.71	1.57	.31	
			80	60	118,5	57	18	40	8	
61	58 61	2.28 2.40	3.15	2.36	4.67	2.24	.71	1.57	.31	
			ა.10	2.30	4.07	2.24	1.71	1.07	اد. ا	

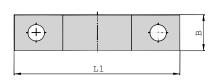
^{*} Similar to DIN 1592.





Heavy Saddle with Tension Clearance (DIN 1593) Two-Bolt Design







STAUFF	Diameter R	ange	Dimensio	ns (^{mm} /in)				
Group								
Ø D1	(mm)	(in)	L1	L2	Н	D2	В	S
7	5,5 7	.2228	44	28	5	6,6	16	2
<u> </u>	0,0 1	.2220	1.73	1.10	.20	.26	.63	.08
9	79	.2835	48	32	6	6,6	20	2
	7 0	.2000	1.89	1.26	.24	.26	.79	.08
13	9,5 13	.3951	52	36	9	6,6	20	2
	0,0 10	.0001	2.05	1.42	.35	.26	.79	.08
15,5	13 15,5	.5161	56	40	12	6,6	20	2
.0,0	10 111 10,0	101 111 101	2.20	1.57	.47	.26	.79	.08
19	15.5 19	.6175	60	44	15	6,6	20	2
	.0,00		2.36	1.73	.59	.26	.79	.08
23	20 23	.7991	82	56	19	11	25	3
	20 20	., 001	3.23	2.20	.75	.43	.98	.12
26	23 26	.91 1.02	84	58	22	11	25	3
	20 20	.01 1.02	3.31	2.28	.87	.43	.98	.12
28,5	26 28,5	1.02 1.12	90	64	24	11	25	3
20,5	20 20,0	1.02 1.12	3.54	2.52	.94	.43	.98	.12
31	28.5 31	1.12 1.22	90	64	27	11	25	3
J1	20,0 01	1.12 1.22	3.54	2.52	1.06	.43	.98	.12
36	33 36	36 1.30 1.42	106	80	32	11	30	5
	00 00		4.17	3.15	1.26	.43	1.18	.20
39	36 39	39 1.42 1.54	110	84	34	11	30	5
	00 00		4.33	3.31	1.34	.43	1.18	.20
43	39 43	1.54 1.69	120	88	38	14	30	5
70	00 40	1.04 1.03	4.72	3.46	1.50	.55	1.18	.20
46	43 46	1.69 1.81	122	90	41	14	30	5
	45 40	1.03 1.01	4.80	3.54	1.61	.55	1.18	.20
49	46 49	1.81 1.93	122	90	44	14	30	5
TJ	40 43	1.01 1.30	4.80	3.54	1.73	.55	1.18	.20
58	53 58	2.09 2.28	142	110	52	14	40	5
J0	33 30	2.03 2.20	5.59	4.33	2.05	.55	1.57	.20
61	58 61	2.28 2.40	142	110	57	14	40	5
UI	30 01	2.20 2.40	5.59	4.33	2.24	.55	1.57	.20
71	67 71	2.64 2.80	152	120	66	14	40	5
′ '	07 71	2.04 2.00	5.98	4.72	2.60	.55	1.57	.20
77	73 77	2.87 3.03	176	136	72	18	40	5
	70 11	2.07 3.03	6.93	5.35	2.83	.71	1.57	.20
B1	77 81	3.03 3.19	184	144	76	18	40	5
U I	// 01	3.03 3.19	7.24	5.67	2.99	.71	1.57	.20
91	88 91	3.39 3.58	198	158	85	18	40	8
91	00 91	3.39 3.38	7.80	6.22	3.35	.71	1.57	.31
102	00 100	2.00 4.00	214	174	98	18	40	8
103	99 103	3.90 4.06	8.43	6.85	3.86	.71	1.57	.31
100	105 100	410 400	220	180	104	18	40	8
109	105 109	4.13 4.29	8.66	7.09	4.09	.71	1.57	.31
445	110 115	4.00 4.50	226	186	109	18	40	8
115	110 115	4.33 4.53	8.90	7.32	4.29	.71	1.57	.31

Ordering C	odes	
Heavy Saddle	*DIN1593-*	7-*W66
* Heavy Saddle to	DIN 1593	DIN1593
* STAUFF Group	Ø D1)	7
* Material code	Carbon Steel, uncoated	W1
	Carbon Steel, zinc-plated and thick-film passivated	W66
	Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 3	16 Ti) W5

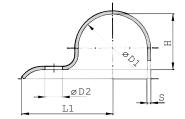
Applications

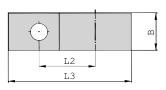
 Installation of pipes, tubes, poles and other round components directly on the substrate (floor, wall or ceiling)

Light Saddle with Tension Clearance (DIN 1596)

Single-Bolt Design







Ordering Codes								
Light Saddle	*DIN1596-*7-*V	/66						
* Light Saddle to	DIN 1596 DIN1	596						
* STAUFF Group (Ø D1)	7						
* Material code	Carbon Steel, uncoated Carbon Steel, zinc-plated	W1 W66						
	and thick-film passivated	WOO						
	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)

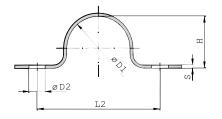
STAUFF Group	Diameter Range		Dimensions (mm/f _{in})							
Ø D1	(mm)	(in)	L1	L2	L3	Н	D2	В	S	
7	5,5 7	.2228	26	14	31,5	5	6,6	16	2	
1	5,5 7	.2220	1.02	.55	1.24	.20	.26	.63	.08	
9	79	.2835	28	16	34,5	6	6,6	16	2	
9	7 9	.2055	1.10	.63	1.36	.24	.26	.63	.08	
13	9,5 13	.3951	30	18	38,5	9	6,6	20	2	
13	3,3 13	.0901	1.18	.71	1.52	.35	.26	.79	.08	
15,5	13 15,5	.5161	32	20	41,75	12	6,6	20	2	
13,3	10 10,0	.0101	1.26	.79	1.64	.47	.26	.79	.08	
19	15.5 19	.6175	34	22	45,5	15	6,6	20	2	
19	20 23 .79	.0173	1.34	.87	1.79	.59	.26	.79	.08	
23	20 22	70 01	43	28	57,5	19	9	25	3	
20	20 20	.1331	1.69	1.10	2.26	.75	.35	.98	.12	
26	23 26	.91 1.02	44	29	60	22	9	25	3	
20	20 20	.01 1.02	1.73	1.14	2.36	.87	.35	.98	.12	
28,5	26 28,5	1.02	47	32	64,25	24	9	25	3	
20,5	20 20,0	1.12	1.85	1.26	2.53	.94	.35	.98	.12	
31	28,5 31	1.12	47	32	65,5	27	9	25	3	
31	20,0 01	1.22	1.85	1.26	2.58	1.06	.35	.98	.12	
33 *	31 33	1.221.30	56	36	75,5	29	9	25	3	
00	01 00	1.221.00	2.20	1.42	2.97	1.14	.35	.98	.12	
36	33 36	1.30	57	40	78	32	11	30	3	
00	00 00	1.42	2.24	1.57	3.07	1.26	.43	1.18	.12	
39	36 39	1.42	59	42	81,5	34	11	30	3	
0.5	00 00	1.54	2.32	1.65	3.21	1.34	.43	1.18	.12	
43	39 43	1.54	61	44	85,5	38	11	30	3	
10	00 10	1.69	2.40	1.73	3.37	1.50	.43	1.18	.12	
46	43 46	1.69	62	45	88	41	11	30	3	
10	10 10	1.81	2.44	1.77	3.46	1.61	.43	1.18	.12	
49	46 49	1.81	67	48	95,5	44	14	40	4	
10	10 10	1.93	2.64	1.89	3.76	1.73	.55	1.57	.16	
52 *	49 52	1.93	72	53	102	47	14	40	4	
32	10 02	2.05	2.83	2.09	4.02	1.85	.55	1.57	.16	
58	53 58	2.09	76	55	107	52	14	40	4	
30	55 50	2.28	2.99	2.17	4.21	2.05	.55	1.57	.16	
61	58 61	2.28	77	58	111,5	56	14	40	4	
UI	50 01	2.40	3.03	2.28	4.39	2.20	.55	1.57	.16	

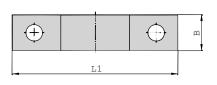
^{*} Similar to DIN 1596.





Light Saddle with Tension Clearance (DIN 1597)Two-Bolt Design







STAUFF Group	Diameter R	ange	Dimensions (mm/sin)						
Ø D1	(mm)	(in)	L1	L2	Н	D2	В	S	
7	5,5 7	.2228	44	28	5	5,5	16	1,5	
′	5,5 1	.2220	1.73	1.10	.20	.22	.63	.06	
9	7 9	.2835	48	32	6	5,5	16	1,5	
9			1.89	1.26	.24	.22	.63	.06	
13	9,5 13	00 54	52	36	9	5,5	16	1,5	
13		.3951	2.05	1.42	.35	.22	.63	.06	
45 5	10 155	F4 C4	56	40	12	5,5	16	1.5	
15,5	13 15,5	.5161	2.20	1.57	.47	.22	.63	.06	
10	15.5 10	04 75	60	44	15	5,5	16	1.5	
19	15,5 19	.6175	2.36	1.73	.59	.22	.63	.06	
00	20 23	70 04	76	56	19	6,6	20	2	
23		.7991	2.99	2.20	.75	.26	.79	.08	
		.91 1.02	78	58	22	6,6	20	2	
26	23 26		3.07	2.28	.87	.26	.79	.08	
	26 28,5	1.02 1.12	84	64	24	6,6	20	2	
28,5			3.31	2.52	.94	.26	.79	.08	
	28,5 31	1.12 1.22	84	64	27	6,6	20	2	
31			3.31	2.52	1.06	.26	.79	.08	
+	31 33	1.221.30	92	72	29	6,6	20	2	
33 *			3.62	2.83	1.14	.26	.79	.08	
	33 36	1.30	104	80	32	9	25	3	
36		1.42	4.09	3.15	1.26	.35	.98	.12	
	36 39	0 1.42	108	84	34	9	25	3	
39		1.54	4.25	3.31	1.34	.35	.98	.12	
	39 43	1.54	112	88	38	9	25	3	
43		1.69	4.41	3.46	1.50	.35	.98	.12	
	43 46	1.69	114	90	41	9	25	3	
46		1.81	4.49	3.54	1.61	.35	.98	.12	
	46 49	1.81 1.93	118	90	44	11	30	3	
49			4.65	3.54	1.73	.43	1.18	.12	
	49 52	1.93 2.05	134	106	47	11	30	3	
52 *			5.28	4.17	1.85	.43	1.18	.12	
		2.09	138	110	52	11	30	3	
58	53 58	2.28	5.43	4.33	2.05	.43	1.18	.12	
		2.28	138	110	56	11	30	3	
61	58 61	2.28	5.43	4.33	2.20	.43	1.18	.12	

Ordering Codes	
Light Saddle *DIN15	97-*7-*W66
* Light Saddle to DIN 1597	DIN 1597
* STAUFF Group (Ø D1)	7
* Material code Carbon Steel, uncoated Carbon Steel, zinc-plated and thick-film passivated	Whh
Stainless Steel V4A 1.4401 / 1.4571 (AISI 31	6 / 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.



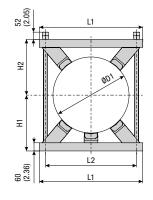


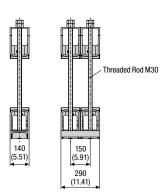


ESTAUFF ®

Construction Series Types KS (Single Version) / DKS (Double Version)







Ordering Codes					
Construction Series *KS-*220-*PA-*W	8				
* Version Single version Double version Deliversion De	(S (S				
* Exact outside diameter ØD1 (mm) 22	20				
* Material of Plastic Pads (see below) PA					
* Material Code Steel, prime coated (grey, RAL 7035) V	18				
Please note: All items are supplied non-assembled.					

Standard Materials for Plastic Pads



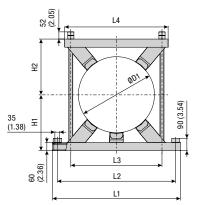
See pages 154 / 155 for material properties and technical information.

-									
Group	Outside Diamet Diameter Range	er ØD1 Pipe / Tub e	e Standard Dia	ameters	Dimensions (mm/in)				No. of Plastic
STAUFF	(mm)	(in)	(mm)	(in)	L1	L2	H1	H2	Pads
	()		220	8.66					
1 220			247	9.72	420	330	220	220	
	220 275	8.66 10.85	267	10.51	16.54		8.66	8.66	4
			273	10.75					
			280	11.02					
	070 005	10.07	300	11.81	460	370	240	240	
2	276 325	10.87 12.80	318	12.52	18.11	14.57	9.45	9.45	4
			323,9	12.75					
	000 070	10.00 11.57	355,6	14.00	510	420	260	260	
3	326 370	12.83 14.57			20.08	16.53	10.23	10.23	4
			368	14.49					
				l					
			390	15.35	570	480	290	290	
4	371 425	14.61 16.73			22.44	18.89	11.42	11.42	4
			406,4	16.00		10.00			
		6 485 16.77 19.09	457,2	18.00	620	530	305	305	4
5	426 485				24.41	20.87	12.01	12.01	
			470	18.50		20.0.	12.0.	12.0.	
			490	19.29					
	3 486 550 19.13		508	20.00	680	590	370	370	4
6		19.13 21.65	521	20.51	26.77	23.23	14.57	14.57	
			546	21.50	- 20	20.20	1 1101		
			040						
			558,8	22.00	760	670	410	410	
7	551 630	21.69 24.80		20.02		26.38	16.14	16.14	5
			609,6	24.00	20.02	20.00	10.14	10.14	
		24.84 28.15		28.00	845	755	452	452	5
8	631 715		711		33.27	29.72	17.80	17.80	
					00.21	20.12	17.00	17.00	
					940	850	495	495	
9	716 800	28.19 31.50	762	30.00	37.00	33.46	19.49	19.49	5
					37.00	33.40	13.43	13.43	
		/							
					990	900	500	500	
10			813	32.00	38.97	35.43	19.69	19.69	5
					30.37	00.40	13.03	13.03	
					1200	1100	E01 E	502	
11			1000	39.37	1200 47.24	1100 43.30	591,5 23.29	593 23.34	5
					71.24	70.00	20.20	20.04	
			1016 40.00	40.00	1200	1100	602	602	
12					1200 47.24	43.30	23.70	602 23.70	5
				41.24	45.50	23.70	23.70		
	/	/							

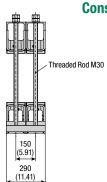
 $Alternative \ outside \ diameters, materials \ and \ surface \ finishings \ are \ available \ upon \ request. \ Contact \ STAUFF \ for \ further \ information.$















Group	Outside Diamet	ameter ØD1 Pipe / Tube Dimensions (mm/in) N					No. of				
	Diameter Range	•	Standard Diameters				Plastic				
STAUFF	(mm)	(in)	(mm)	(in)	L1	L2	L3	L4	H1	H2	Pads
			220	8.66							
	000 075	0.00 40.05	247	9.72	580	490	330	420	220	220	
1	220 275	8.66 10.85	267	10.51	22.83	19.29	12.99	16.54	8.66	8.66	4
			273	10.75							
			280	11.02							
_			300	11.81	620	530	370	460	240	240	
2	276 325	10.87 12.80	318	12.52	24.41		14.57			9.45	4
			323,9	12.75							
			355,6	14.00	670	580	420	510	260	260	
3	326 370	12.83 14.57	368	14.49		_	_		10.23	_	4
	074 405	11.01 10.70	390	15.35	750	640	480	570	290	290	— A
4	371 425	14.61 16.73	406,4	16.00					11.42		
			457,2	18.00	800	730	530	620	305	305	
5	426 485	16.77 19.09	470	18.50					12.01		
			490	19.29							
			508	20.00	860	790	590	680	370	370)
6	486 550	19.13 21.65	521	20.51	33.86	31.10	23.23			14.57	4
			546	21.50							
7	551 630	21.69 24.80	558,8	22.00	940	870	670	760	410	410	_
7	331 030	21.09 24.00	609,6	24.00	37.00	34.25	26.38	29.92	16.14	16.14	5
0	601 715	24.04 20.15	711	20.00	1025	955	755	845	452	452	5
8	631 715	24.84 28.15	/11	28.00	40.31	37.60	29.72	33.27	17.80	17.80	5
0	740 000	00.40 04.50	700	00.00	1120	1050	850	940	495	495	_
9	716 800	28.19 31.50	762	30.00	44.09	41.33	33.46	37.00	19.49	19.49	5
					1170	1100	900	990	500	500	5
10			813	32.00					19.69		
			1000	00.07	1400	1300	1100	1200	591,5	593	_
11			1000	39.37					23.29		5

Ordering Codes Construction Series *KSV-*220-*PA-*W8 * Version Single version 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



ee pages 154 / 155 for material properties nd technical information.

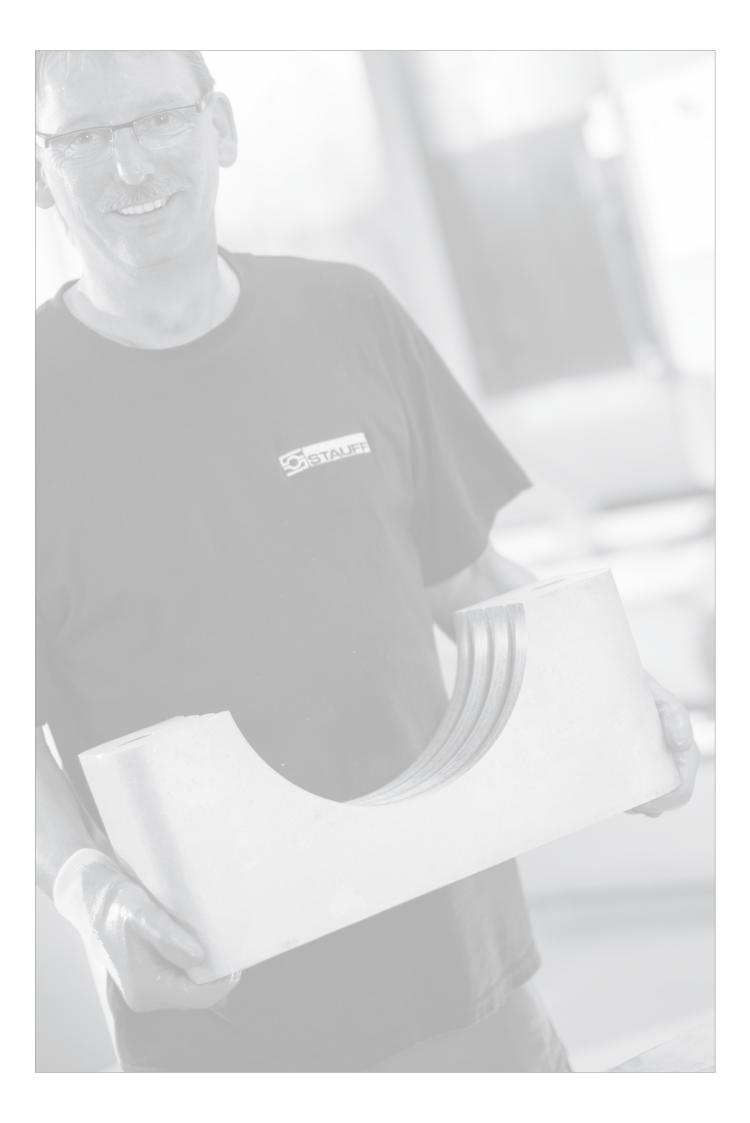
 $Alternative\ outside\ diameters, materials\ and\ surface\ finishings\ are\ available\ upon\ request.\ Contact\ STAUFF\ for\ further\ information.$

40.00

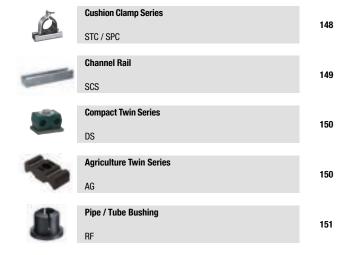
1016

12

1400 1300 1100 1200 602 602 55.12 51.18 43.30 47.24 23.70 23.70 5





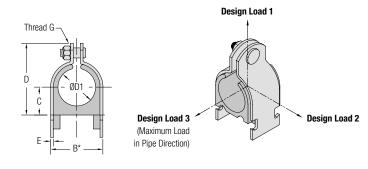




Clamp Assembly • Types STC / SPC

(for Use with Channel Rail SCS)





	Diameter ube / Hose	Nominal Bore Pipe	Ordering Codes (1 Clamp Assembly)	Standard Packaging Units	Dimensio (mm/in)	ns				Design (^{kN} / _{lbf})	Loads	
(mm)	(in)	(in)	(** = Material Code)	pcs.	B*	С	D	E	Thread G	1	2	3
6,4	1/4		STC-025-**-K	24 / box	15,7	5,6	28,2	2	1/4–20 UNC	1,78	0,22	0,22
0,4	1/4		316-020- ** -K	24 / DUX	.62	.22	1.11	.08	1/4-20 UNG	400	50	50
8	3/8		STC-037-**-K	24 / box	19,1	7,1	31,5	2	1/4-20 UNC	1,78	0,22	0,22
					.75	.28	1.24	.08		400	50	50
12,7	1/2		STC-050-**-K	24 / box	.87	8,6 .34	34,5 1.36	.08	1/4-20 UNC	1,78	0,22 50	0,22 50
					23,1	9,1	35,8	2		1,78	0,22	0,22
13,5		1/4	SPC-025-**-K	24 / box	.91	.36	1.41	.08	1/4–20 UNC	400	50	50
10	F /0		CTO OCO strate V	04 / 5	25,4	10,4	38,1	2	1/4 00 UNO	1,78	0,22	0,22
16	5/8		STC-062-**-K	24 / box	1.00	.41	1.50	.08	1/4–20 UNC	400	50	50
17,2		3/8	SPC-037-**-K	24 / box	27,2	11,4	40,4	2	1/4-20 UNC	2,67	0,33	0,33
17,2		0/0	010 007 ## K	ET / BOX	1.07	.45	1.59	.08	174 20 0110	600	75	75
19	3/4		STC-075-**-K	24 / box	33,8	13,5	45,2	2	1/4-20 UNC	2,67	0,33	0,33
					1.33 36,8	.53 15,0	1.78 48,5	.08		600 2,67	75 0,33	75 0,33
21,3		1/2	SPC-050-**-K	24 / box	1.45	.59	1.91	.08	1/4-20 UNC	600	75	75
					36,8	14,7	48,5	2		2,67	0,33	0,33
22,2	7/8		STC-087-**-K	24 / box	1.45	.58	1.91	.08	1/4–20 UNC	600	75	75
05.4			070 /00 //	40.41	42,2	16,8	51,6	2,8	4/4 00 11110	2,67	0,33	0,33
25,4	1		STC-100-**-K	12 / box	1.66	.66	2.03	.11	1/4–20 UNC	600	75	75
26,9		3/4	SPC-075-**-K	12 / box	45,5	18,3	54,9	2,8	1/4-20 UNC	2,67	0,33	0,33
20,0		0/4	31 0-073- 44 -10	TE / BOX	1.79	.72	2.16	.11	174 20 0110	600	75	75
32	1-1/4		STC-125-**-K	12 / box	48,8	19,8	58,4	2,8	1/4-20 UNC	2,67	0,33	0,33
					1.92	.78	2.30	.11		600	75	75
33,7		1	SPC-100-**-K	12 / box	56,4 2.22	.91	69,9 2.75	.12	5/16–18 UNC	2,67	0,33 75	0,33 75
					56,4	23,1	69,9	3		2,67	0,33	0.33
38	1-1/2		STC-150-**-K	12 / box	2.22	.91	2.75	.12	5/16–18 UNC	600	75	75
40		4.4/4	000 405 444 1/	40.75	62,7	26,2	77,0	3	540 40 UNO	3,56	0,56	0,56
42		1-1/4	SPC-125-**-K	12 / box	2.47	1.03	3.03	.12	5/16–18 UNC	800	125	125
48,3		1-1/2	SPC-150-**-K	12 / box	62,7	29,5	83,3	3	5/16–18 UNC	3,56	0,56	0,56
70,0		1 1/2	010 100 44 K	12 / 50%	2.47	1.16	3.28	.12	0/10 10 0140	800	125	125
50,8	2		STC-200-**-K	12 / box	69,1	29,5	83,3	3	5/16–18 UNC	3,56	0,56	0,56
•					2.72 69,1	1.16 35,8	3.28 96,0	.12		800 3,56	125 0,56	125 0,56
60,3		2	SPC-200-**-K	1 / bag	3.22	1.41	3.78	.12	5/16–18 UNC	800	125	125
					88,1	38,9	102,4	3		3,56	0,56	0,56
63,5	2-1/2		STC-250-**-K	1 / bag	3.47	1.53	4.03	.12	5/16–18 UNC	800	125	125
66.7	0.5/0		CTC OCO MM V	1 / hag	88,1	38,9	102,4	3	E/IC 10 UNC	3,56	0,56	0,56
66,7	2-5/8		STC-262-**-K	1 / bag	3.47	1.53	4.03	.12	5/16–18 UNC	800	125	125
73		2-1/2	SPC-250-**-K	1 / bag	94,5	42,2	108,5	3	5/16–18 UNC	3,56	0,56	0,56
			0.0 200 17 1.	. , 549	3.72	1.66	4.27	.12	0,10 10 0110	800	125	125
76,2	3		STC-300-**-K	1 / bag	100,8	45,2	114,8	3	5/16–18 UNC	4,45	0,89	0,67
					3.97	1.78 50,0	4.52 124,7	3	2. 13 10 3110	1 000 4,45	0,89	150 0,67
88,9		3	SPC-300-**-K	1 / bag	4.36	1.97	4.91	.12	3/8–16 UNC	1 000	200	150
400		0.410		1.0	126,2	57,9	140,5	3		4,45	0,89	0,67
102		3-1/2	SPC-350-**-K	1 / bag	4.97	2.28	5.53	.12		1 000	200	150
11/		1	CDC 400 Mint I/	1 / bog	138,9	64,3	153,2	3	3/8–16 UNC	4,45	0,89	0,67
114		4	SPC-400-**-K	1 / bag	5.47	2.53	6.03	.12	3/0-10 UNG	1 000	200	150
140		5	SPC-500-**-K	1 / bag	164,3	77,0	178,6	3,6	3/8-16 UNC	4,45	0,89	0,67
			2. 0 000 PM N	, , 5ug	6.47	3.03	7.03	.14	3,5 10 0110	1 000	200	150
168		6	SPC-600-**-K	1 / bag	189,7	89,7	204,0	3,6	3/8-16 UNC	4,45	0,89	0,67
					7.47	3.53	8.03	.14		1 000	200	150

 $^{^{\}star}\,$ 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.



(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

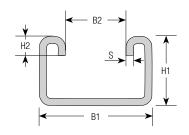
- Clamp assemblies designed to mount directly to 41,3 mm / 1-5/8 in wide strut channels, such as the STAUFF Channel Rail, type SCS
- Suitable for most Fluid Power applications ranging from mobile equipment to industrial machinery
- Reduced horizontal mounting space
- · Easy installation and retro fit capability
- Reduces shock and vibration while preventing galvanic corrosion



Clamp Assembly - Types STC / SPC

Ordering C	odes	
Clamp Assem	bly *STC-*125-*	W4-*K
* Type of clamp	STC (Tube diameters) SPC (Pipe diameters)	STC SPC
* Pipe / Tube O.D	. (according to dimension table)	125
* Material code	Carbon Steel, zinc-plated, blue-chromated	W32
	Stainless Steel V2A 1.4301 (AISI 304)	W4
	Stainless Steel V4A 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 Co	odes	
Strut Channel	*SCS-*048-*1	-*PL
* Strut Channel		SCS
* Length of Rail	1,22 m / 4.00 ft / 48 in 3,05 m / 10.00 ft / 120 in	048 120
* Height of Rail	25,4 mm / 1.00 in	1
* Material code	Carbon Steel, uncoated Carbon Steel, green painted	PL GR



Compact Twin Series: Clamp Body Type DS





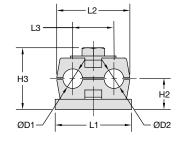
Pipe / Tube

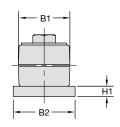
Group

06/06

PP

DS





Ordering Codes

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

One clamp body is consisting of two clamp halves.

- * STAUFF Group DS 1
- * Exact outside diameters Ø D1 / Ø D2 (mm)
- * Clamp Body Material (Polypropylene)
- * Compact Twin Series

Ø D1 / Ø D2 ASTM B88 STAUFF L1 L2 L3 H1 H2 H3 B1 B2 (mm) (in) (in) (in) 106/06-PP-DS 1/4 106.4/06.4-PP-DS 6,4 37 35,5 20 15 30 25 30 DS 1 5/16 108/08-PP-DS 8 1.46 1.40 .79 .20 .59 1.18 .98 1.18 9,5 3/8 1/4 109.5/09.5-PP-DS 10 1/8 110/110-PP-DS

Ordering Codes

(2 Clamp Halves)

Dimensions (mm/in)

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

Copper Tube

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

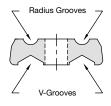
AS-1/4-20UNCx1-W3 Thread size: 1/4-20 UNC Carbon Steel, zinc/nickel-plated

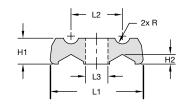
All threaded parts are only available with unified coarse (UNC) thread. Rail mount and stacking assemblies as well as alternative materials and surface finishings are available upon request.

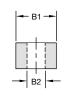
Outside Diameter Nominal Bore

Agriculture Twin Series: Clamp Body Type AG









Group	oup Min/Max Outside Diameters Pipe / Tube			Ordering Codes (1 Clamp Body)	Dimens	ions (^{mm} / _{in})							
	Radius Grooves V-Grooves												
STAUFF	(mm)	(in)	(mm)	(in)		L1	L2	L3	H1	H2	B1	B2	R
2	3 10	.1239	4 15	.2659	215.8/09.6-PP-AG-BK-HV	57,5 2.26	31,7 1.25	14,0 .55	16,0 .63	7,1	25,0 .98	11,0 .43	4,8
3	4 25	.1698	7 20	.2879	324.8/19.5-PP-AG-BK-HV	62,0 2.48	34,5 1.36	14,0	19,0 .75	7,1 .28	32,0 1.26	11,0	12,4

Standard Material



Polypropylene Colour: Black

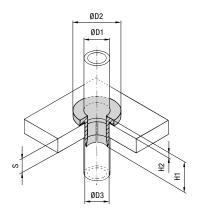
See pages 154 / 155 for properties and technical information.

Product Features

- Flip the clamp body to choose between the radius grooved or the v-grooved design (suitable for a range of diameters)
- Use M10 or 3/8-16 UNC bolts or screws (preferably with washers) to fasten clamp bodies directly to the machine
- · Clamp bodies can be stacked for multi-level assembly

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





Outside Diameter ØD1 Nominal Bore Wall Thickness **Mounting Bore Dimensions** ØD2 ØD3 (mm) (in) (in) H2 4 ... 12 18 10 22 4 6 1/4 .1647 71 87 .16 39 20 4 ... 12 12 22 5/16 .1647 .79 .16 .47 .87 1/8 Pipe 22 22 14 10 3/8 1/4 Copper Tube (ASTM B88) .87 .16 .1647 .55 16 24 22 4 4 ... 12 12 1/2 3/8 Copper Tube (ASTM B88) .94 .87 .16 .1647 .63 26 22 4 ... 12 18 1/4 Pipe 14 1.02 .16 .1647 87 71 28 22 4 ... 12 20 15 .87 .1647 .79 1.10 .16 28 22 4 4 ... 12 20 16 1/2 Copper Tube (ASTM B88) .1647 1.10 .87 .16 .79 22 30 22 4 ... 12 18 .1647 1.18 .87 .16 .87 32 22 24 20 3/4 1.26 .87 .1647 .16 26 22 34 4 4 ... 12 22 7/8 3/4 Copper Tube (ASTM B88) 1.34 .87 .16 .1647 1.02 38 22 4 ... 12 30 25 1 1.50 .16 .1647 .87 1.18 41 22 4 ... 12 33 28 1 Copper Tube (ASTM B88) .87 .1647 1.30 1.61 .16 43 22 4 4 ... 12 34 30 .1647 1.69 .87 .16 1.39 4 ... 12 40 35 1-1/4 Copper Tube (ASTM B88) 1.89 .87 .16 .1647 1.57 22 4 4 ... 12 43 1-1/2 38 2.01 .87 .16 .1647 1.70 47 1-1/4 Pipe 55 1-1/2 Copper Tube (ASTM B88) 2.17 22 4 ... 12 42 .87 .16 .1647 1.85

Pipe / Tube Bushing • Type SRF



Ordering	Codes
----------	-------

Pipe / Tube Bushing

*SRF-*20-*PP

20

PP

- * Pipe / Tube Bushing
- * Exact outside diameter Ø D1 (mm)
- * Material code (see below)

Standard Materials



Polypropylene

Colour: Natural colour Material code: **PP**



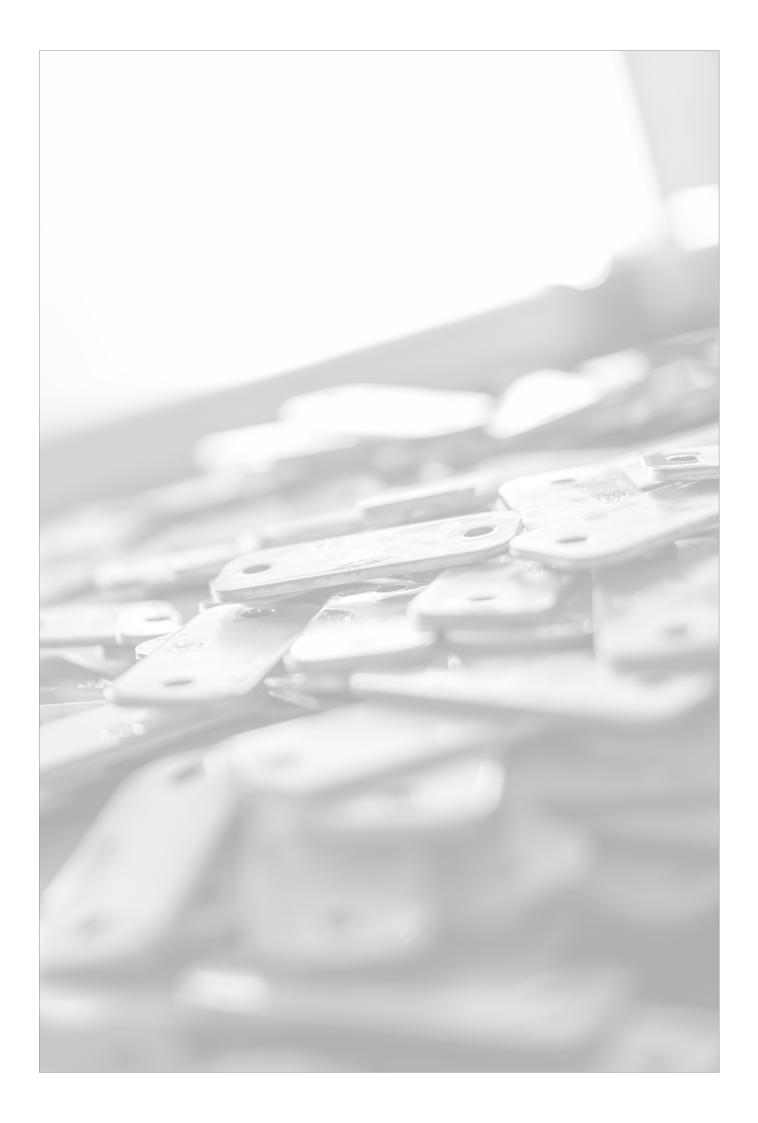
Thermoplastic Elastomer (87 Shore-A)

Colour: Black Material code: **SA**

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

Product Features

- Designed to centre the pipe or tube in a through-hole (e.g. for return lines entering the hydraulic reservoir)
- Vibration and noise absorbing element
- Available for all commonly used Metric and imperial pipe and tube diameters from 6 ... 42 mm and 1/4 ... 1-1/2 in
- Easy plug-in installation





Standard Clamp Body Materials	154
Standard Elastomer Insert Materials	155
Special Clamp Body Materials	156
Standard Clamp Body Designs	158
Materials and Surface Finishings of Metal Parts	159
Property Classes / Grades of Bolts and Screws	159
Thread Conversion Chart	159
General Installation Instructions	160
Tightening Torques / Maximum Loads in Pipe Direction	161
Dimensions and Weights of Clamp Assemblies	162
Packaging Units (Selection)	163



Standard Clamp Body Materials









Material Code	PP	PA	AL	SA	
Basic Material	Copolymeric Polypropylene	Polyamide	Aluminium AlSi12	Thermoplastic Elastomer	
Standard Colour	Green	Black	Natural	Black	

Mechanical Properties				
Tensile E-Module	1073 N/mm ² (ISO 527)	> 1400 N/mm² (ISO 527)	> 65000 N/mm²	113 N/mm² at +23 °C / +73.4 °F (ASTM D412)
Notch Impact Strength	8 kJ/m² at +23 °C / +73.4 °F (acc. to Charpy / ISO 179 / 1eU)	> 15 kJ/m² at 23 °C / +73.4 °F (acc. to Charpy / ISO 179 / 1eU)		
Low Temperature Notch Impact Strength	3 kJ/m² at -20 °C / -4.0 °F (acc. to Charpy / ISO 179 / 1eU)	> 3 kJ/m² 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	Chemical Properties								
Weak Acids	conditionally consistent	conditionally consistent	conditionally consistent	consistent					
Solvents	conditionally consistent	conditionally consistent	conditionally consistent	conditionally consistent					
Benzine	conditionally consistent	consistent	consistent	conditionally consistent					
Mineral Oils	conditionally consistent	consistent	consistent	conditionally consistent					
Other Oils	consistent	consistent	consistent	consistent					
Alcohols	consistent	consistent	consistent	consistent					
Seawater	consistent	consistent	consistent	consistent					



Special Clamp Body Materials

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

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

The information for the Polyamide material PA have been determined in a conditioned state according to ISO 1110.

For Aluminium, the tensile strength (under reversed bending stress) and impact bending strength both rise constantly at decreasing temperatures whilst the value for breaking elongation decreases.





Standard Clamp Insert Materials



STAUFF Group 4 and 6 (Standard Series) STAUFF Group 4S to 6S (Heavy Series)



STAUFF Group 7S to 10S (Heavy Series)

SA	EPDM	Material Code
Thermoplastic Elastomer	Ethylene Propylene Diene Monomer	Basic Material
Black	Black	Standard Colour

		Mechanical Properties
16 N/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)	70 A (DIN 53505)	Shore Hardness

		Thermal Properties	
-40 °C +125 °C/ -40 °F +257 °F	-50 °C +120 °C / -58 °F +248 °F	Temperature Resistance (Min Max)	

		Chemical Properties
consistent	consistent	Weak Acids
conditionally consistent	consistent	Solvents
conditionally consistent	conditionally consistent	Benzine
conditionally consistent	conditionally consistent	Mineral Oils
consistent	conditionally consistent	Other Oils
consistent	consistent	Alcohols
consistent	consistent	Seawater



Special Clamp Insert Materials

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

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





Special Clamp Body Materials (Selection)

Preventive Fire Protection







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

Mechanical Properties			
Tensile E-Module	1500 MPa (ISO 527-2)	1614 N/mm² (ISO 527) bei +23 °C / +73.4 °F: 50 mm/min	8274 MPa (ASTM D638)
Notch Impact Strength	35 kJ/m² at +23 °C / +73.4 °F (acc. to Charpy / ISO 179 / 1eU)	13 kJ/m² at +23 °C / +73.4 °F (acc. to IZOD / ISO 179 / 1eA)	15 kJ/m² (ASTM D256)
Low Temperature Notch Impact Strength		1,5 kJ/m² 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/mm² (ISO 2039-1)		
Shore Hardness			

Thermal Properties			
Temperature Resistance (Min Max) -30 °C +120 °C / -22 °F +248 °F -25 °C +90 °C		-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)	Tested and approved acc. to UL94 ¹ (material thickness: 3 mm)	Tested and approved acc. to ASTM D638 (material thickness: 1,5 mm)
	■ Classification: V-0 (Vertical Burning Test)	■ Classification: V-0 (Vertical Burning Test)	■ Classification: V-0 (Vertical Burning Test)
	Tested and approved acc. to EN 45545-2 (material thickness: 3,5 mm)	Tested and approved acc. to Def Stan 07-247 - Assessment: category B	Tested and approved acc. to NFPA 130 (material thickness: 3 mm)
	Requirements set R22 / R23 / R24 / R26 Hazard level HL1 - HL3	Approved by the UK Ministry of Defence (MoD)	■ no burning dripping
	Tested and approved acc. to DIN 5510, Part 2 (material thickness: 3 mm)	Low Smoke Zero Halogen (LSZH)	Halogen Free Flame Retardant (HFFR)
	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)		

¹Successful 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.





Special Clamp Body Materials (Selection)

Preventive Fire Protection







PP6853	PP-V0	SA-V0	Material Code
Polypropylene	Polypropylene	Thermoplastic Elastomer	Basic Material
White	Black	Natural	Standard Colour

			Mechanical Properties
1264 MPa (ICE 60811-1-1)		113 N/mm ² at +23 °C / +73.4 °F (ASTM D412)	Tensile E-Module
17 kJ/m² at +23 °C / +73.4 °F (acc. to IZOD / ISO 179 / 1eA)	5 kJ/m² at +23 °C / +73.4 °F (acc. to ISO 180/A)		Notch Impact Strength
			Low Temperature Notch Impact Strength
25 MPa (ICE 60811-1-1)	24 MPa (ISO 527)	15,9 MPa (ASTM D412)	Tensile Strength at Yield (Tensile Strength)
			Ball Indentation Hardness (Brinell Hardness)
		86 A (ISO 868)	Shore Hardness

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

			Features
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 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
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 incombustible			
Low Smoke Zero Halogen (LSZH)			

¹Successful testing and approval according to UL94 (classification V-0) is equivalent to EN 45545-2 (requirements set R26; hazard level HL3).



00=00

S=0

 Π

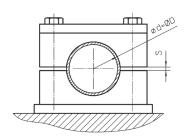
Standard Clamp Body Designs



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)

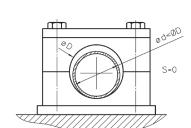




Type H (Smooth)

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 ØD of the clamp body slightly larger (in accordance to your specific requirements) than the outside diameter $\emptyset d$ 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 $40\,\text{mm}\,x\,40\,\text{mm}\,(1.57\,\text{in}\,x\,1.57\,\text{in})$ 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:

Rost

frei

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 <u>1200 hours</u> 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 <u>192 hours</u>

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		Thread				
STAUFF	DIN	Metric ISO	Unified Coarse			
1 to 8	0 to 8	M6	1/4-20 UNC			

Heavy Series (DIN 3015, Part 2)

Group		Thread	
STAUFF	DIN	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		Thread				
STAUFF	DIN	Metric ISO	Unified Coarse			
1D	1	M6	1/4-20 UNC			
2D to 5D	2 to 5	M8	5/16-18 LINC			

Property Classes / Grades of Bolts and Screws







Socket Cap Screw



Slotted Head Screw

Bolt / Screw Type	Material Code	Property Class / Grade Metric ISO Threaded Bolts / Screws	Unified Coarse Threaded Bolts / Screws				
	W1, W2, W3	8.8 (according to DIN EN ISO 898)	5 (according to SAE J429)				
Hexagon Head Bolt Type AS	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)				
	W1, W2, W3	8.8 (according to DIN EN ISO 898)	5 (according to SAE J429)				
Socket Cap Screw Type IS	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)				
	W1, W2, W3	4.8 (according to DIN EN ISO 898)	2 (according to SAE J429)				
Slotted Head Screw Type LI	W4	A2-70 (according to DIN EN ISO 3506)	AISI 304 / B8 (according to ASTM A193)				
	W5	A4-70 (according to DIN EN ISO 3506)	AISI 316 / B8M (according to ASTM A193)				

Unless otherwise stated, the above mentioned property classes / grades apply as standards for bolts and screws supplied by STAUFF. The information indicate the minimum requirements; higher property classes are available upon request. Contact STAUFF for details.

Basic Installation Instructions



Installation on Weld Plate

Different types of weld plates are available for all STAUFF Clamps according to DIN 3015 as well as for most of the other series and many custom-designed special clamps.

- Place weld plates in their designated positions. Please make sure these positions are suitable for the expected loads
- Mark the positions of the weld plates to ensure best alignment
- Weld the weld plates into position. Elongated weld plates can also be mounted to their positions by using screws or balts
- 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 plages and mouting rails as well as multi-level (stacking) installation. For direct installation, different lengths may be required.



Installation on Mounting Rail

STAUFF Mounting Rails are available in different heights.
STAUFF Rail Nuts are available for all STAUFF Clamps
according to DIN 3015 (Heavy Series up to STAUFF Group 6S
only) as well as for many custom-designed special clamps.

- Place mounting rails in their designated positions. Please make sure these bases are suitable for the expected loads.
- Mark the positions of the mounting rails to ensure best alignment.
- Weld the mounting rails into position. Mounting rails can also be mounted to their positions by using side-mounting brackets with screws or bolts.
- Insert rail nuts into mounting rail and turn until stop to lock (Standard and Twin Series) or slide in rail nut (Heavy Series).
- · Push bottom clamp half onto rail nuts.
- Insert pipe, tube, hose, cable or any other type of line.
- Place second clamp half and cover plate (optional) on top and mount clamp assembly by using screws or bolts.

The exact positions of the clamp assemblies can still be adjusted before being firmly bolted.



Multi-Level (Stacking) Installation

Stacking bolts permit the multi-level assembly of clamps of identical group sizes. Safety locking plates inserted between the levels prevent the stacking bolts from turning. The Twin Series also allows stacking of different group sizes (STAUFF Groups 2D to 5D).

- Push bottom clamp half onto weld plate or rail nuts.
- Insert pipe, tube, hose, cable or any other type of line.
- · Place second clamp half.
- Insert stacking bolts into the clamp assembly and tighten using the following tightening torques (or in a way that the clamp halves are in contact with the line over the entire internal contact surface):

 $\textbf{Standard Series} \quad 1 \; ... \; 2 \; N \cdot m \; / \; .75 \; ... \; 1.5 \; ft \cdot lb \; (hand-tightened)$

Heavy Series $5 \text{ N} \cdot \text{m} / 3.75 \text{ ft} \cdot \text{lb}$

Twin Series $1 \dots 2 \text{ N·m} / .75 \dots 1.5 \text{ ft·lb}$ (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 indivated 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 Diamete	r	Distance A	
(mm)	(in)	(m)	(ft)
6,0 12,7	.2350	1,00	3,28
12,7 22,0	.5086	1,20	3,94
22,0 32,0	.86 1.25	1,50	4,92
32,0 38,0	1.25 1.50	2,00	6,56
38,0 57,0	1.5 2.25	2,70	8,86
57,0 75,0	2.25 2.95	3,00	9,84
75,0 76,1	2.95 3.00	3,50	11,48
76,1 88,9	3.00 3.50	3,70	12,14
88,9 102,0	3.50 4.00	4,00	13,12
102,0 114,0	4.00 4.50	4,50	14,76

160

Outside Diamete (mm)	r (in)	Distance A (m)	(ft)
114,0 168,0	4.50 6.60	5,00	16,40
168,0 219,0	6.60 8.60	6,00	19,68
219,0 324,0	8.60 12.70	6,70	21,98
324,0 356,0	12.70 14.00	7,00	22,96
356,0 406,0	14.00 16.00	7,50	24,60
406,0 419,0	16.00 16.50	8,20	26,90
419,0 508,0	16.50 20.00	8,50	27,88
508,0 521,0	20.00 20.50	9,00	29,52
521,0 558,0	20.50 22.00	10,00	32,80
558,0 800,0	22.00 31.50	12,50	41,00

Installation next to Pipe Bends, Connectors / Couplings and Valves



Please note the following information on the installation of STAUFF Clamps next to pipe bends, connectors / couplings and valves:

Pipe Bends

Pipe bends should be supported by STAUFF Clamps as close to the bends as possible. Furthermore, it is recommended to design these clamps as fixed point clamps.

Connections / Couplings

The first clamp should be placed directly next to the connector / coupling. This protects the connector / coupling from vibrations.

Valves

If valves are incorporated in the pipelines, it is recommended that support is provided in front of and behind these valves.

Contact STAUFF for further information.



Tightening Torques and Maximum Loads In Pipe Direction



All tightening torques and maximum loads in pipe direction refer to STAUFF Clamp Bodies (profiled inside surface with tension clearance) with Cover Plates, Weld Plates and Hexagon Head Bolts according to DIN EN ISO 4014/4017 (DIN 931/933).

The max. load in pipe direction (according to DIN 3015-10:1999) is an average value, determined by three tests at +23 °C / +73.4 °F with a steel pipe according to DIN EN 10220, St37 – rolled surface – taking static friction into consideration.

Sliding starts when the shown values (F) are reached.

Standard Series (DIN 3015-1:1999)

Group		Hexagon Head Bol	Polyprop	ylene (PP)			Polyamid	le (PA)			Aluminium (AL)				
		DIN EN ISO 4014/4	Maximum Load			Maximum Load					Maximum Load				
		Metric	Unified Coarse	Tightening Torque		in Pipe Direction F		Tightening Torque		in Pipe Direction F		Tightening Torque		in Pipe Direction F	
STAUFF	DIN	ISO Thread	(UNC) Thread	(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)

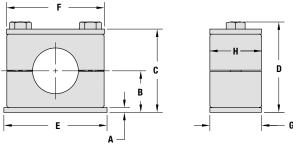
Group		Hexagon Head I	Polyprop	oylene (PP)			Polyami	de (PA)			Aluminium (AL)				
		DIN EN ISO 401	4/4017 (DIN 931/933)	Maximum Load		Maximum Load						Maximum Load			
		Metric	Unified Coarse		ng Torque		Direction F	_	ng Torque		irection F	_	ng Torque		Direction F
STAUFF	DIN	ISO Thread	(UNC) Thread	(N·m)	(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
4 S	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
88	6	M20	3/4-10 UNC	80	59	14,0	3147	150	111	21,0	4720	220	162	50,0	11240
98	7	M24	7/8–9 UNC	110	81	28,0	6300	200	148	32,0	7193	250	184	70,6	15871
108	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
128	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 Bol	t	Polypropylene	(PP)			Polyamide (PA)				
			017 (DIN 931/933)				Maximum Load			Maximum Load	-	
		Metric	Unified Coarse	Tightening Tor	que	in Pipe Direction F		Tightening Tor	que	in Pipe Direction	on F	
STAUFF	DIN	ISO Thread	(UNC) Thread	(N·m)	N·m) (ft·lb)		(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	

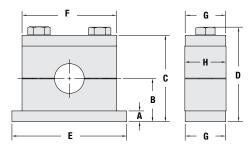
Only for the standard clamp body materials which are listed on page 154. In case of doubt, please contact STAUFF in advance.

Dimensions and Weights of Clamp Assemblies



Standard Series (DIN 3015, Part 1)

Group		Dimensio	ns (^{mm} / _{in})										Weight per 100 Pcs.
			В		С		D						SP-**-PP-DP-AS
STAUFF	DIN	Α	Profiled Design	Type H (Smooth)	Profiled Design	Type H (Smooth)	Profiled Design	Type H (Smooth)	E	F	G	H	(kg/lbs)
	0	3	16,5	16	33	32	37	36	31,5	28	30	30	6,20
	0	.12	.65	.63	1.30	1.26	1.46	1.42	1.24	1.10	1.18	1.18	13,64
Α	1	3	16,5	16	33	32	37	36	36	34	30	30	8,10
A		.12	.65	.63	1.30	1.26	1.46	1.42	1.41	1.33	1.18	1.18	17.82
	2	3	19,5	19	39	38	43	42	42	40,5	30	30	9,40
2		.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
		3	24	23,75	48	47,5	52	51,5	60	57	30	30	13,70
	4	.12	.94	.94	1.89	1.87	2.05	2.03	2.36	2.24	1.18	1.18	30.14
j	5	3	32	31,25	64	62,5	68	66,5	71	70	30	30	17,10
)	5	.12	1.26	1.23	2.52	2.46	2.68	2.62	2.79	2.75	1.18	1.18	37.62
;	6	3	36	35,25	72	70,5	76	74,5	88	86	30	30	21,30
	O	.12	1.42	1.39	2.83	2.78	2.99	2.94	3.46	3.38	1.18	1.18	46.86
•	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	0	5	64	63	128	126	132	130	148	144	30	30	44,00
	8	.20	2.52	2.48	5.04	4.96	5.20	5.12	5.83	5.67	1.18	1.18	96.80

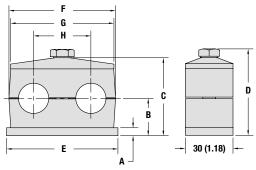


Heavy Series (DIN 3015, Part 2)

Group		Dimension	ons (^{mm} / _{in})											Weight per 1 Pc.
			В		С		D			F				SPAL-**-PP-DPAL-AS
STAUFF	DIN	Α	Profiled Design	Type H (Smooth)	Profiled Design	Type H (Smooth)	Profiled Design	Type H (Smooth)	E	PP/PA/SA	AL	G	Н	(kg/lbs)
3S	1	8	24	23,25	48	46,5	54,4	52,9	74	55	56	30	30,5	0,32
33	ı	.31	.94	.92	1.89	1.83	2.14	2.09	2.91	2.16	2.20	1.18	1.20	.70
4S	2	8	32	31,25	64	62,5	70,4	68,9	86	70	70	30	30,5	0,40
43	2	.31	1.26	1.23	2.52	2.46	2.77	2.72	3.39	2.76	2.76	1.18	1.20	.88
5S	3	8	38	37	76	74	82,4	80,4	100	85	85	30	30,5	0,49
55	3	.31	1.50	1.46	2.99	2.91	3.24	3.17	3.94	3.35	3.35	1.18	1.20	1.08
cc	4	10	54,5	53,5	109	107	116,5	114,5	140	115	120	45	45	1,21
6S	4	.39	2.15	2.11	4.29	4.21	4.59	4.51	5.51	4.53	4.72	1.77	1,77	2.66
7S	_	10	70		140		150		180	154	152	60	60	2,30
15	5	.39	2.76		5.51		5.91		7.09	6.06	5.98	2.36	2,36	5.06
8S	6	15	99		198		210,5		226	206	208	80	80	5,56
65	O	.59	3.90		7.80		8.29		8.90	8.11	8.19	3.15	3.15	12.26
98	7	15	115		230		245		270	251	255	90	91	7,97
95	1	.59	4.53		9.06		9.65		10.63	9.88	10.04	3.54	3.58	17.58
100	0	25	160		320		338,7		340	336	326	120	120	22,16
10S	8	.98	6.30		12.60		13.33		13.39	13.22	12.83	4.72	4.72	48.75
11S	0	30	235		470		488,7		520	470	470	160	162	54,11
119	9	1.18	9.25		18.50		19.24		20.47	18.50	18.50	6.30	6.38	119.04
100	10	30	295		590		608,7		680	630	630	180	182	77,40
12S	10	1.18	11.61		23.23		23.96		26.77	24.80	24.80	7.09	7.16	170.28



Dimensions & Weights of Clamp Assemblies



Twin Series (DIN 3015, Part 3)

Group		Dimensions	(mm/in)										Weight per 100 Pcs.
			В		С		D						SP-**/**-PP-GD-AS
STAUFF	DIN	Α	Profiled Design	Type H (Smooth)	Profiled Design	Type H (Smooth)	Profiled Design	Type H (Smooth)	E	F	G	Н	(kg/lbs)
1D	4	3	16,5	16,25	37	36,5	41	40,5	37	36	34	20	7,60
ID	'	.12	.65	.64	1.46	1.44	1.61	1.59	1.46	1.42	1.34	.79	16.72
op.	0	5	18,5	18,25	39	38,5	44	43,5	55	53	52	29	13,50
2D	2	.20	.73	.72	1.54	1.52	1.73	1.71	2.17	2.09	2.05	1.14	29.70
3D		5	23,5	23,25	49	48,5	54	53,5	70	67	65	36	17,70
30	3	.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
40	4	.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
	5	.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	

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	

Twin Series (DIN 3015, Part 3)

Clamp Bodies (Polypropylene / Polyamide)

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

Clamp Bodies (Aluminium)

Group		Quantity per Bag	
STAUFF	DIN	(in Pcs.)	
1 - 5	0 - 5	25	
6	6	10	

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 SP) Cover Plates (Type GD)

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

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

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.

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

Group		Quantity per Bag	
STAUFF DIN		(in Pcs.)	
1 - 8	0 - 8	50	

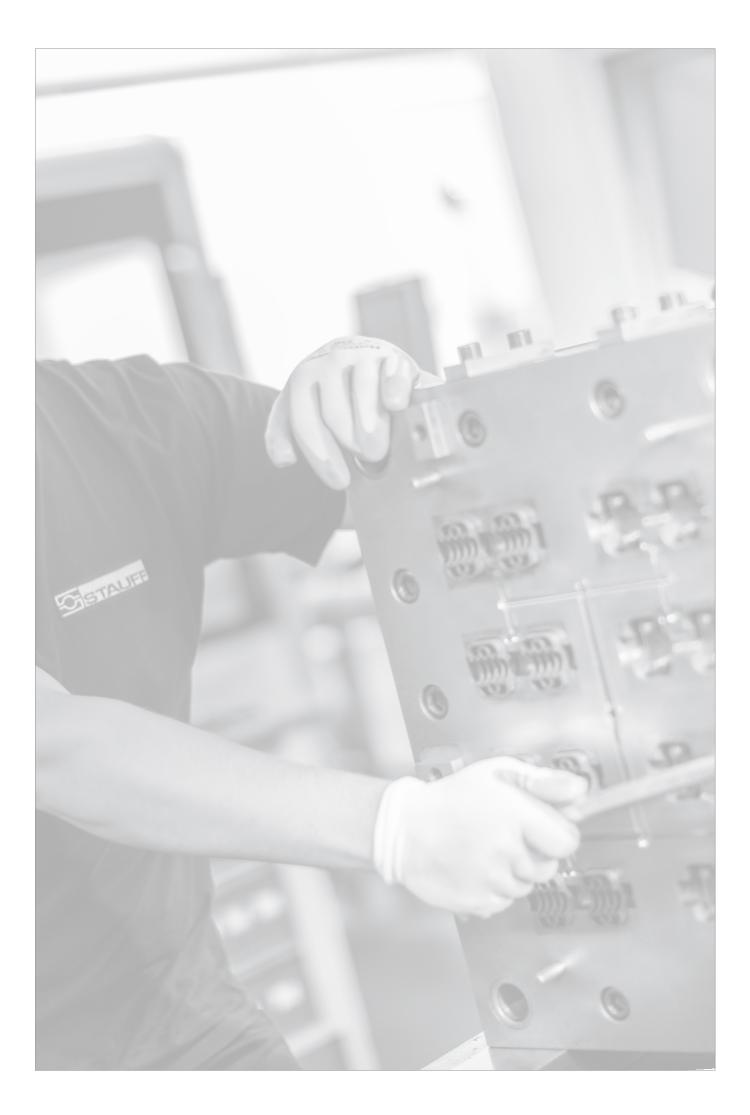
Mounting Rail Nut (Type GMV)
Channel Rail Adaptor (Type CRA)

Group		Quantity per Bag	
STAUFF DIN		(in Pcs.)	
3S - 6S	1 - 4	40	

0









Product-Specific Abbreviations 168

Global Contact Directory

170



Product-Specific Abbreviations

Abbreviation	Product Category	Product Description	Page
ACT	STAUFF ACT Clamps: Anti-Corrosion Technology	Clamp Body - Standard Series	74
ACT	STAUFF ACT Clamps: Anti-Corrosion Technology	Clamp Body - Twin Series	82
AF	Standard Series according to DIN 3015, Part 1	Stacking Bolt	29
AF	Heavy Series according to DIN 3015, Part 2	Stacking Bolt	47
AF	Twin Series according to DIN 3015, Part 3	Stacking Bolt	61
AF	Heavy Twin Series	Stacking Bolt	68
AG	Other Types of Clamps	Agriculture Twin Series	150
AL	Technical Appendix	Standard Clamp Body Material	154
AS	Standard Series according to DIN 3015, Part 1	Hexagon Head Bolt	26
AS	Heavy Series according to DIN 3015, Part 2	Hexagon Head Bolt	45
AS	Twin Series according to DIN 3015, Part 3	Hexagon Head Bolt	59
AS	Heavy Twin Series	Hexagon Head Bolt	68
AS	Light Series	Hexagon Head Bolt	115
BSP	Standard Series according to DIN 3015, Part 1	Bridge Weld Plate	22
CC	Standard Series according to DIN 3015, Part 1	Clamp Body - Compact Design	19
CHC	Standard Series according to DIN 3015, Part 1	Clamp Body for Conduit Hoses	18
CRA	Standard Series according to DIN 3015, Part 1	Channel Rail Adaptor	25
CRA	Heavy Series according to DIN 3015, Part 2	Channel Rail Adaptor	43
CRA	Twin Series according to DIN 3015, Part 3	Channel Rail Adaptor	58
CRA	Heavy Twin Series	Channel Rail Adaptor	68
DIN1592	Metal DIN Clamps	Heavy Saddle with Tension Clearance - Single-Bolt Design	138
DIN1593	Metal DIN Clamps	Heavy Saddle with Tension Clearance - Two-Bolt Design	139
DIN1596	Metal DIN Clamps	Light Saddle with Tension Clearance - Single-Bolt Design	140
DIN1597	Metal DIN Clamps	Light Saddle with Tension Clearance - Two-Bolt Design	141
DIN3567-A	Metal DIN Clamps	Metal Pipe Clamp with Tension Clearance	136
DIN3567-B	Metal DIN Clamps	Metal Pipe Clamp with Tension Clearance (Extended to One Side)	137
DIT-SR6-SWG	STAUFF SWG: Stud Welding System	Distance Tube	95
DKS	Construction Series	Construction Series Clamp	144
DKSV	Construction Series	Construction Series Clamp (for Anchor Bolt Fastening)	145
DP	Standard Series according to DIN 3015, Part 1	Cover Plate	26
DPAL	Heavy Series according to DIN 3015, Part 2	Cover Plate for Single Clamps	44
DPAS	Heavy Series according to DIN 3015, Part 2	Cover Plate for Double Clamps	44
DPAS	Heavy Twin Series	Cover Plate	67
DPL	Light Series	Cover Plate	119
DS	Other Types of Clamps	Compact Twin Series	150
DSP	Standard Series according to DIN 3015, Part 1	Twin Weld Plate	21
EP	Standard Series according to DIN 3015, Part 1	Insert	28
EPDM	Technical Appendix	Standard Clamp Insert Materials	155
ES	Standard Series according to DIN 3015, Part 1	Insert	28
FB	Flat Steel and Round Steel U-Bolt Clamps	Flat Steel U-Bolt	126
GD	Twin Series according to DIN 3015, Part 3	Cover Plate	58
GMV	Heavy Series according to DIN 3015, Part 2	Mounting Rail Nut	42
GMV	Heavy Twin Series	Mounting Rail Nut	68
IS	Standard Series according to DIN 3015, Part 1	Socket Cap Screw	28
IS	Heavy Series according to DIN 3015, Part 2	Socket Cap Screw	45
IS	Twin Series according to DIN 3015, Part 3	Socket Cap Screw	59
KS	Construction Series	Construction Series Clamp	144
KSV	Construction Series Construction Series	Construction Series Clamp (for Anchor Bolt Fastening)	145
LBBU	Light Series	Clamp Body - Single Design	112
LBBU	Light Series	Clamp Body - Twin Design	113
LBBU-DP	Light Series	Cover Plate	
LBBU-DP	-		115
LBBU-HUE LBBU-SP	Light Series	Sleeve Weld Plate	114
	Light Series		114
LBC	Light Series	Clamp Body - Single Design	116
LBG	Light Series	Clamp Body - Twin Design	117
LBU	Light Series	Clamp Body - Twin Design	117
LI	Standard Series according to DIN 3015, Part 1	Slotted Head Screw	28
LN	Light Series	Clamp Body - Single Design	118
LNGF	Light Series	Clamp Body - Twin Design Clamp Body - Twin Design	119 119
LNUF	Light Series		





Product-Specific Abbreviations

Abbreviation	Product Category	Product Description	Page
PA	Technical Appendix	Standard Clamp Body Material	154
PA-V0	Technical Appendix	Special Clamp Body Material	156
PP	Technical Appendix	Standard Clamp Body Material	154
PP6853	Technical Appendix	Special Clamp Body Material	156
PP-DA	Technical Appendix	Special Clamp Body Material	156
PP-V0	Technical Appendix	Special Clamp Body Material	156
RAP	Standard Series according to DIN 3015, Part 1	Group Weld Plate	21
RAP	Twin Series according to DIN 3015, Part 3	Group Weld Plate	55
RAP-MGR	Standard Series according to DIN 3015, Part 1	Multi-Group Weld Plate	23
RB	Flat Steel and Round Steel U-Bolt Clamps	Round Steel U-Bolt	128
RBD	Flat Steel and Round Steel U-Bolt Clamps	Round Steel U-Bolt (DIN 3570, Type A)	132
RF	Other Types of Clamps	Pipe / Tube Bushing	151
RI	Standard Series according to DIN 3015, Part 1	Elastomer Insert	16
RI	Heavy Series according to DIN 3015, Part 2	Elastomer Insert	39
RI	Heavy Twin Series	Clamp Body with Elastomer Inserts	66
RUK	Flat Steel and Round Steel U-Bolt Clamps	Plastic Pipe Saddle (Short) for Flat Steel U-Bolts	126
RUK	Flat Steel and Round Steel U-Bolt Clamps	Plastic Pipe Saddle (Short) for Round Steel U-Bolts	128
RUL	Flat Steel and Round Steel U-Bolt Clamps	Plastic Pipe Saddle (Long) for Round Steel U-Bolts	130
SA	Technical Appendix	Standard Clamp Body Material	154
SA	Technical Appendix	Standard Clamp Insert Materials	155
SA-V0	Technical Appendix	Special Clamp Body Material	156
SCS	Other Types of Clamps	Channel Rail	149
SI	Standard Series according to DIN 3015, Part 1	Safety Washer	27
SI	Heavy Series according to DIN 3015, Part 2	Safety Washer	46
SI	Twin Series according to DIN 3015, Part 3	Safety Locking Plate	60
SI	Heavy Twin Series	Socket Cap Screw	68
SIG	Standard Series according to DIN 3015, Part 1	Safety Locking Plate	29
SIP	Heavy Series according to DIN 3015, Part 2	Safety Locking Plate	47
SIP	Heavy Twin Series	Safety Locking Plate	68
SIV	Twin Series according to DIN 3015, Part 3	Safety Locking Plate	60
SM	Standard Series according to DIN 3015, Part 1	Hexagon Rail Nut	24
SM	Twin Series according to DIN 3015, Part 3	Hexagon Rail Nut	56
SM	Standard Series according to DIN 3015, Part 1	Hexagon Rail Nut	24
		•	
SM	Twin Series according to DIN 3015, Part 3	Hexagon Rail Nut	56
SP	Standard Series according to DIN 3015, Part 1	Weld Plate	20
SP	Twin Series according to DIN 3015, Part 3	Single Weld Plate	55
SPAD	Heavy Twin Series	Weld Plate	67
SPAL	Heavy Series according to DIN 3015, Part 2	Weld Plate for Single Clamps	40
SPAL-DUEB	Heavy Series according to DIN 3015, Part 2	Elongated Weld Plate for Single Clamps	41
SPAS-DUEB	Heavy Series according to DIN 3015, Part 2	Weld Plate for Double Clamps	40
SPAS-DUEB	Heavy Series according to DIN 3015, Part 2	Elongated Weld Plate for Double Clamps	41
SPC	Other Types of Clamps	Cushion Clamp	148
SPV	Standard Series according to DIN 3015, Part 1	Elongated Weld Plate	20
STC	Other Types of Clamps	Cushion Clamp	148
STSV	Heavy Series according to DIN 3015, Part 2	Mounting Rail	42
STSV	Heavy Twin Series	Mounting Rail	68
SWG-AGS	STAUFF SWG: Stud Welding System	Distance Adaptor	95
SWG-CTH-11-M6	STAUFF SWG: Stud Welding System	Cable Tie Holder	93
SWG-CTH-30-M6-1	0 ,	Cable Tie / Tension Belt Holder	93
SWG-CTH-30-M6-2	0 3	Cable Tie / Tension Belt Holder	93
SWG-DIP	STAUFF SWG: Stud Welding System	Distance Plate for DIN 3015 Clamps	93
SWG-GC	STAUFF SWG: Stud Welding System	Ground Cable	95
SWG-SF	STAUFF SWG: Stud Welding System	Weld Stud with Female Thread	92
SWG-SR6	STAUFF SWG: Stud Welding System	Stud Retainer	95
SWG-WG	STAUFF SWG: Stud Welding System	Weld Gun - Arc Ignition	94
SWG-WI06	STAUFF SWG: Stud Welding System	Weld Inverter	94
SWG-WI06-Starterkit	0 7	Starterkit	94
TS	Standard Series according to DIN 3015, Part 1	Mounting Rail	24
TS	Twin Series according to DIN 3015, Part 3	Mounting Rail	57
VK	Standard Series according to DIN 3015, Part 1	Clamp Body - Rectangular Design for Proximity Switches	19
WSP	Standard Series according to DIN 3015, Part 1	Angled Weld Plate	22
ZR	Saddle / Piggyback Clamps	Custom-Designed Saddle / Piggyback Clamps	122
ZR-518	Saddle / Piggyback Clamps	Saddle / Piggyback Clamp	122



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.

Germany



Walter Stauffenberg GmbH & Co. KG Im Ehrenfeld 4 58791 Werdohl www.stauff.com/contact



Neuenrade-Küntrop Logistics Centre Wasserburgstraße 35 58809 Neuenrade



Plettenberg-Ohle Production Site Lennestraße 2 58840 Plettenberg





Meinerzhagen Production Site Neugrünenthal 58540 Meinerzhagen



Meinerzhagen Production Site Am Rottland 7 58540 Meinerzhagen



STAUFF Digital Phoenixplatz 3 44263 Dortmund

Europe

France

STAUFF S.A.S.

230, Avenue du Grain d'Or Z.I. de Vineuil - Blois Sud 41354 Vineuil-cedex Tel.: +33 2 54 50 55 50 Fax: +33 2 54 42 29 19 E-Mail: direction@stauffsa.com www.stauff.fr

Russian Federation

STAUFF LLC

Building 1 19, Leninskaya Sloboda Moscow, 115280 Tel.: +7 495 276 16 50 Fax: +7 495 276 16 51 E-Mail: sales@stauff.ru www.stauff.ru

Further branch offices in Engels, Volzhskiy, Magnitogorsk, Nizhny Novgorod and St. Petersburg.

Ireland

STAUFF UK Ltd.

Block B, 9 Ferguson Drive Knockmore Hill Industrial Estate Lisburn, County Antrim, BT28 2EX Tel.: +44 2892 60 69 00 Fax: +44 2892 60 26 88 E-Mail: sales@stauffireland.com www.stauff.co.uk

United Kingdon

STAUFF UK Ltd.

500, Carlisle Street East Off Downgate Drive Sheffield, S4 8BS Tel.: +44 114 251 85 18 Fax: +44 114 251 85 19 E-Mail: sales@stauff.co.uk www.stauff.co.uk

Italy

STAUFF Italia s.r.l

Via Borima 21 (Frazione Borima) 23867 Suello (LC)

Tel.: +39 031 65 84 94 Fax: +39 031 65 50 05 E-Mail: sales@stauff.it www.stauff.it

STAUFF UK Ltd.

Badentoy Avenue Badentoy Industrial Estate Portlethen, Aberdeen, AB12 4YB Tel.: +44 1224 78 61 66 Fax: +44 1224 78 61 77 E-Mail: sales@stauffscotland.co.uk www.stauff.co.uk

Poland

STAUFF Polska Sp. z o.o.

Miszewko 43 A 80-297 Banino

Tel.: +48 58 660 11 60 Fax: +48 58 629 79 52 E-Mail: sales@stauff.pl www.stauff.pl

STAUFF UK Ltd.

Unit 9, Southampton Trade Park Third Avenue, Millbrook Southampton, S015 0AD Tel: +44 2380 69 87 00 Fax: +44 2380 69 87 01 E-Mail: sales@stauffsouthampton.co.uk www.stauff.co.uk



Global Contact Directory



North America

Canada

STAUFF Canada Ltd.

866 Milner Avenue Scarborough Ontario M1B 5N7 Tel.: +1 416 282 46 08 Fax: +1 416 282 30 39 E-Mail: sales@stauffcanada.com

www.stauffcanada.com

United States

STAUFF Corporation

7 Wm. Demarest Place Waldwick, 07463-1542 New Jersey

Tel.: +1 201 444 78 00 Fax: +1 201 444 78 52 E-Mail: sales@stauffusa.com www.stauffusa.com

Further branch office in Canton, Michigan.

South America

Brazil

STAUFF Brasil Ltda.

Avenida Gupê 10767 Galpão 2 - Bloco A Barueri, São Paulo, CEP 06422-120

Tel.: +55 11 47 72 72 00 Fax: +55 11 47 72 72 10 E-Mail: stauff@stauffbrasil.com www.stauffbrasil.com

Asia

China

STAUFF CHINA

Building 8, No. 1698, Minyi Road Songjiang District, Shanghai, 201612 Tel.: +86 21 68 18 70 00 Fax: +86 21 68 18 71 36 E-Mail: info@stauff.com.cn www.stauff.com.cn

Further branch offices in Beijing, Changsha, Chengdu, Changchun, Chongqing, Jinan, Harbin, Guangzhou, Shenyang, Wuhan, Xian and Xuzhou.

India

STAUFF India Pvt. Ltd.

Gat no. 26/1 & 27, Sanghar Warehousing Pune - Nagar Road Lonikand - 412216 Tel.: +91 20 6731 4900 Fax: +91 20 6731 4905 E-Mail: sales@stauffindia.com www.stauffindia.com

Korea

STAUFF Korea Ltd.

105, Hwajeonsandan 5-ro Gangseo-gu Busan, 46739 Tel.: +82 51 266 6666 Fax: +82 51 266 8866 E-Mail: info@stauff.co.kr www.stauff.co.kr

Singapore

STAUFF (SEA) Pte. Ltd.

128 Joo Seng Road #02-01 Singapore 368356 Tel.: +65 62 44 61 68 E-Mail: sales_sg@stauff.com www.stauff.com.sg

Thailand

STAUFF (Thailand) Co., Ltd.

10 Soi On-Nut 74/4 **Pravet District** Bangkok 10250

Tel.: +66 2 721 73 23 / 24 Fax: +66 2 721 73 35 E-Mail: sales@stauff.co.th www.stauff.co.th

Vietnam

STAUFF Vietnam Ltd. 2nd Floor, CT-IN Building

#435 Hoang Van Thu Street Tan Binh District, Ho Chi Minh City Tel.: +84 8 3948 10 41 / 42 Fax: +84 8 3948 10 44

E-Mail: sales@stauff.com.vn www.stauff.com.vn

Oceania

Australia

STAUFF Corporation Pty Ltd

24-26 Doyle Avenue Unanderra NSW 2526

Tel.: +61 2 4271 9000 Fax: +61 2 4271 8432 E-Mail: sales@stauff.com.au www.stauff.com.au

Further branch offices in Adelaide, Brisbane, Melbourne and Sydney.

New Zealand

STAUFF Corporation (NZ) Ltd.

Unit D, 103 Harris Road East Tamaki, Auckland 2013

Tel.: +64 9 912 1530 Fax: +64 9 912 1531 E-Mail: sales @stauff.co.nz www.stauff.co.nz

Standard Series according to DIN 3015, Part 1 Heavy Series according to DIN 3015, Part 2 Twin Series according to DIN 3015, Part 3 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**



Catalogue 1 STAUFF Clamps



Germany

Walter Stauffenberg GmbH & Co. KG Im Ehrenfeld 4 58791 Werdohl STAUFF products and services are globally available through wholly-owned subsidiaries and a tight network of authorised distributors and representatives in all major industrial regions of the world.

Contact STAUFF:

www.stauff.com/contact