

Catalogue 1
STAUFF Clamps

Germany

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www.stauff.com

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

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

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

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

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

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

With the publication of this product catalogue, previous editions are no longer valid.



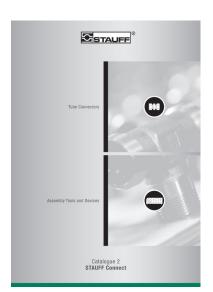
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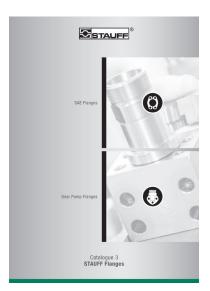
Catalogue 1 **STAUFF Clamps**

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



Catalogue 2 **STAUFF Connect**

- Tube Connectors
- Assembly Tools and Devices



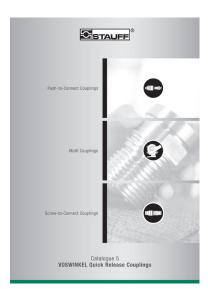
Catalogue 3 **STAUFF Flanges**

- SAE Flanges
- Gear Pump Flanges



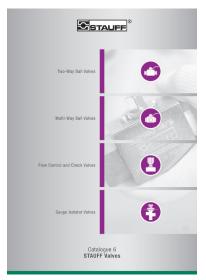
Catalogue 4 **VOSWINKEL Hose Connectors**

- Hose Connectors
- High-Pressure Hose Connectors



Catalogue 5 **VOSWINKEL 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





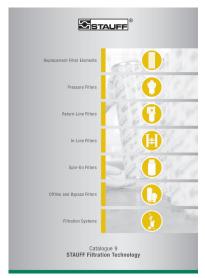
Catalogue 7 **STAUFF Test**

- Test Couplings
- Test Adaptors
- Test Hoses and Connectors



Catalogue 8 **STAUFF Diagtronics**

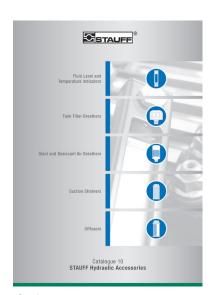
- Pressure Gauges
- Hydraulic Testers
- Oil Analysis Equipment



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

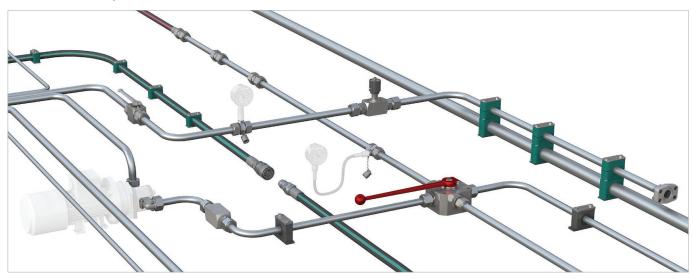
All STAUFF products undergo relevant testing in accordance with international regulations and are governed by the high standards of the in-house quality management system. Furthermore, many items have received certifications and approvals from various international institutes, organisations and authorities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

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



Quality Management – ISO 9001:2015 Environmental Management – ISO 14001:2015 Safety Management 0HSAS – 18001:2007

STAUFF LINE Components



With the seven dedicated STAUFF Line product groups

- STAUFF Clamps
- STAUFF Connect
- STAUFF Flanges
- VOSWINKEL Hose Connectors
- VOSWINKEL 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.

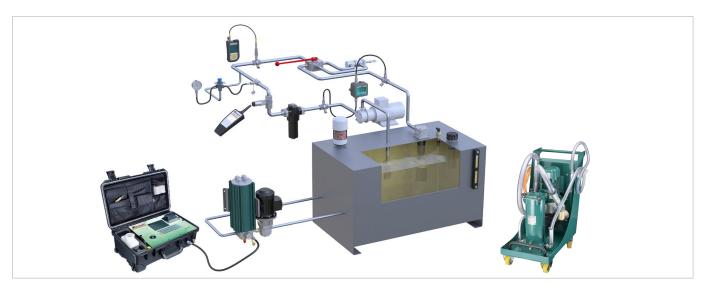
This coating offers the most reliable surface protection far beyond the previous market standards – even after transport, handling and assembly of the components – and meets all current legal requirements.

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







Aligned with the needs of the market, the product groups

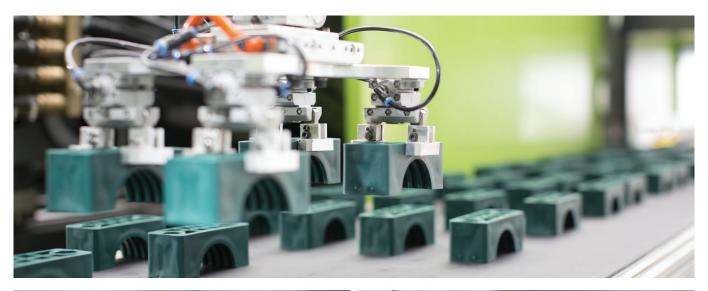
- STAUFF Test
- STAUFF Diagtronics
- STAUFF Filtration Technology
- STAUFF Hydraulic Accessories

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

The offer is completed by relevant value-added services:

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









STAUFF Clamps

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

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

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

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

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

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

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

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

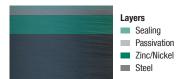








STAUFF Zinc/Nickel Coating



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





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* may require a suitable app



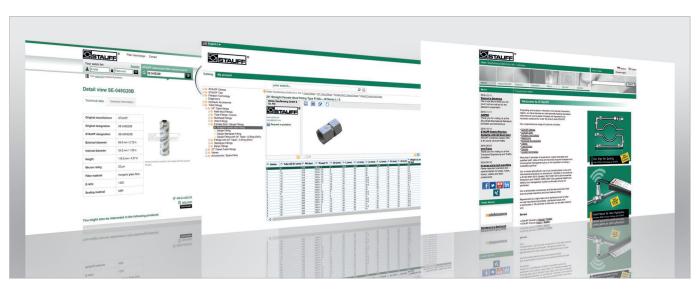
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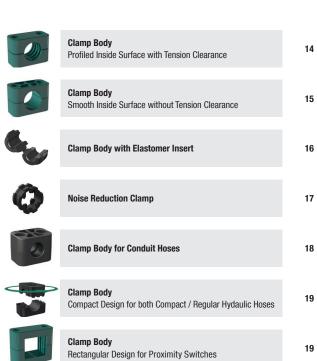
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Immediate access to and free download of 3D models and 2D drawings for a growing number of STAUFF products

www.filterinterchange.com

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





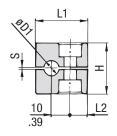


| 00 | Weld Plate SP | 20 | er va er | Cover Plate DP | 26 |
|-------|--|----|----------|---|----|
| - 3 3 | Elongated Weld Plate SPV | 20 | | Hexagon Head Bolt for use with Cover Plate DP AS | 26 |
| 0 00 | Twin Weld Plate DSP | 21 | | Safety Washer (DIN 93) | 27 |
| 0 33 | Group Weld Plate | 21 | | Safety Washer (DIN 463) | 27 |
| ñ fi | 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 |
| 00000 | Multi-Group Weld Plate RAP-MGR | 23 | ٩ | Insert ES / EP | 28 |
| | Hexagon Rail Nut | 24 | === | Safety Locking Plate SIG | 29 |
| | Mounting Rail TS | 24 | 1 | Stacking Bolt AF | 29 |
| | Channel Rail Adaptor | 25 | | Clamp Assemblies | 30 |

Clamp Body - Profiled Design

Profiled Inside Surface with Tension Clearance





L2 L1

STAUFF Group 1

STAUFF Group 1A to 8

Ordering Codes *1*06-*PP **Clamp Body** Clamp Body, STAUFF Group 1A *1*06A-*PP One clamp body is consisting of two clamp halves.

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

Standard Materials



Polypropylene Colour: Green Material code: PP



Polypropylene Colour: Black Material code: PP-BK



Polyamide Colour: Black Material code: PA



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



Aluminium Colour: Self-Colour

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

See pages 154 / 155 for material properties and technical

Special Materials

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

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

Product Features

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

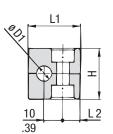
| | | | | | _ | | | | | | |
|--------|----|----------|-------------|------------|-------------|------------------------------------|-------------|-------------|-------------|--------|------------|
| Group | | | Diameter | Nominal | | Ordering Codes | | sions | | | |
| STAUFF | | Pipe / T | upe | D'a | Copper Tube | (2 Clamp Halves) | (mm/in) | | | | |
| Ĭ. | NO | Ø D1 | (2-2) | Pipe | ASTM B88 | (duty Malastan) | 1.4 | 1.0 | | 0 | Me ani |
| S | | (mm) | (in) | (in) | (in) | (** = Material) | Lī | L2 | Н | S min. | Width |
| | | 6 | 1/4 | | | 106-** | | | | | |
| | | 6,4 | 1/4 5/16 | | | 106.4- ** | 00 | 0.5 | 0.7 | 0.4 | 00 |
| 1 | 0 | 9,5 | 3/8 | | 1/4 | 108-** | 28 1.10 | 9,5 | 1.06 | .02 | 30 1.18 |
| | | 10 | 3/0 | 1/8 | 1/4 | 110-** | 1.10 | .37 | 1.00 | .02 | 1.10 |
| | | 12 | | 1/0 | | 112-** | | | | | |
| | | 6 | | | | 106A-** | | | | | |
| | | 6,4 | 1/4 | | | 106.4A-** | | | | | |
| | | 8 | 5/16 | | | 108A-** | 37 | 20 | 27 | 0,4 | 30 |
| 1A | 1 | 9,5 | 3/8 | | 1/4 | 109.5A-** | 1.46 | .79 | 1.06 | .02 | 1.18 |
| | | 10 | 0/0 | 1/8 | 17 1 | 110A-** | | | 1100 | .02 | |
| | | 12 | | 170 | | 112A-** | | | | | |
| | | 12,7 | 1/2 | | 3/8 | 212.7-** | | | | | |
| | | 13,5 | | 1/4 | | 213.5-** | | | | | |
| | | 14 | | | | 214-** | 40 | 00 | 00 | 0.6 | 00 |
| 2 | 2 | 15 | | | | 215-** | 42 | 26 | 33 | 0,6 | 30 |
| | | 16 | 5/8 | | 1/2 | 216-** | 1.65 | 1.02 | 1.30 | .02 | 1.18 |
| | | 17,2 | | 3/8 | | 217.2-** | | | | | |
| | | 18 | | | | 218-** | | | | | |
| | | 19 | 3/4 | | | 319-** | | | | | |
| | | 20 | | | | 320-** | | | | | |
| 3 | 3 | 21,3 | | 1/2 | | 321.3-** | 50 | 33 | 36 | 0,6 | 30 |
| 3 | 3 | 22 | 7/8 | | 3/4 | 322-** | 1.97 | 1.30 | 1.42 | .02 | 1.18 |
| | | 25 | | | | 325-** | | | | | |
| | | 25,4 | 1 | | | 325.4- ** | | | | | |
| | | 26,9 | | 3/4 | | 426.9- ** | | | | | |
| | | 28 | | | | 428- ** | 59 | 40 | 42 | 0.6 | 30 |
| 4 | 4 | 28,6 | | | 1 | 428.6- ** | 2.32 | 1.57 | 1.65 | .02 | 1.18 |
| | | 30 | | | | 430-** | | | | | |
| | | 32 | | | | 432-** | | | | | |
| | | 32 | 1-1/4 | | | 532-** | | | | | |
| | | 33,7 | | 1 | 4.4/4 | 533.7-** | | | | | |
| - | E | 35 | 1 1/0 | | 1-1/4 | 535- ** | 71 | 52 | 58 | 0,8 | 30 |
| 5 | 5 | 38 | 1-1/2 | | | 538-** | 2.80 | 2.05 | 2.28 | .03 | 1.18 |
| | | 40 41,3 | | | 1 1/0 | 540-** | | | | | |
| | | 41,3 | | 1-1/4 | 1-1/2 | 541.3- ** 542- ** | | | | | |
| | | 44,5 | 1-3/4 | 1-1/4 | | 542- ** 644.5- ** | | | | | |
| | | 44,5 | 1-3/4 | 1-1/2 | | 648.3- ** | 86 | 66 | 66 | 0,8 | 30 |
| 6 | 6 | 50,8 | 2 | 1-1/2 | | 650.8-** | 3.39 | 2.60 | 2.60 | .03 | 1.18 |
| | | 54 | | | 2 | 654-** | 0.00 | 2.00 | 2.00 | .00 | 1.10 |
| | | 57,2 | 2-1/4 | | | 757.2-** | | | | | |
| | | 60,3 | 2 1/4 | 2 | | 760.3- ** | | | | | |
| | | 63,5 | 2-1/2 | - | | 763.5- ** | 121 | 94 | 93 | 0,8 | 30 |
| 7 | 7 | 70 | 2-3/4 | | | 770-** | 4.76 | 3.70 | 3.66 | .03 | 1.18 |
| | | 73 | | 2-1/2 (ANS | SI B 36-10) | 773-** | | | | | |
| | | 76,1 | 3 | - | I EN 10220) | 776.1-** | | | | | |
| | | 88,9 | | 3 | , | 888.9-** | 1.47 | 100 | 110 | 0.0 | 20 |
| 8 | 8 | | 4 | | | | 147 5.79 | 120 4.72 | 118 4.65 | 0,8 | 30 1.18 |
| | | 102 | 4 | 3-1/2 | | 8102L- ** | 5 0 | 2 | | 1.00 | 0 |

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

One clamp body is consisting of two clamp halves.

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

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
- Available for all commonly used hose and cable outside diameters
- Excellent weathering resistance, even under extreme conditions

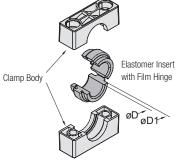
| Group | | Outside Dian | neter | Ordering Codes | Dimens | ions | | |
|--------|-----|--------------|----------|---------------------|---------|------|------|-------|
| ÷ | | Hose | | (2 Clamp Halves) | (mm/in) | | | |
| SIAUFF | _ | Ø D1 | | | | | | |
| SI | N I | (mm) | (in) | (**-H = Material) | L1 | L2 | Н | Width |
| | | 6 | | 106-**-H | | | | |
| | | 6,4 | 1/4 | 106.4-**-H | | | | |
| 4 | 0 | 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 | | | | |
| 1A | | 6,4 | 1/4 | 106.4A-**-H | | | | |
| | | 8 | 5/16 | 108A-**-H | 37 | 20 | 26 | 30 |
| | 1 | 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 | 10 | 0.5 | 0.5 | 0.5 |
| 2 | 2 | 15 | | 215- ** -H | 42 | 26 | 32 | 30 |
| | | 16 | 5/8 | 216- ** -H | 1.65 | 1.02 | 1.26 | 1.18 |
| | | 17,2 | | 217.2-**-H | | | | |
| | | 18 | | 218-**-H | | | | |
| 3 | | 19 | 3/4 | 319- ** -H | | | | |
| | | 20 | | 320-**-H | | | | |
| | | 21,3 | | 321.3-**-H | 50 | 33 | 35.5 | 30 |
| | 3 | 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 | | | | |
| | | 28 | | 428- ** -H | 59 | 40 | 41,5 | 30 |
| 4 | 4 | 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 | | | | |
| | | 35 | | 535- ** -H | 71 | 52 | 56,5 | 30 |
| 5 | 5 | 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 | | | | |
| | | 48,3 | . 3, 1 | 648.3-**-H | 86 | 66 | 64,5 | 30 |
| 6 | 6 | 50,8 | 2 | 650.8- ** -H | 3.39 | 2.60 | 2.54 | 1.18 |
| | | 54 | <u>-</u> | 654- ** -H | | | - | |
| | | 57,2 | 2-1/4 | 757.2- ** -H | | | | |
| | | 60,3 | , . | 760.3- ** -H | | | | |
| | | 63,5 | 2-1/2 | 763.5- ** -H | 121 | 94 | 92 | 30 |
| 7 | 7 | 70 | 2-3/4 | 770- ** -H | 4.76 | 3.70 | 3.62 | 1.18 |
| | | 73 | 2 0/ 7 | 773- ** -H | 0 | 0.70 | 0.02 | 0 |
| | | 76,1 | 3 | 776.1- ** -H | | | | |
| | | | 3 | | | | | |
| 8 | 8 | 88,9 | | 888.9- ** -H | 147 | 120 | 116 | 30 |
| - | | 102 | 4 | 8102L-**-H | 5.79 | 4.72 | 4.57 | 1.18 |

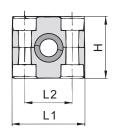
Additional outside diameters are available upon request. Please contact STAUFF for further information.



Clamp Body with Elastomer Insert Type RI







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

Standard Materials



Polypropylene Colour: Black Material code: PP-R



Polyamide Colour: Black Material code: PA-R



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

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

Special Materials

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

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

Product Features

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

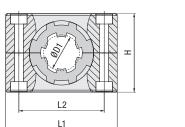
| Group Outside Diameter | | Outside | Diameter | Ordering Codes | (**R = Clamp I | Body Material) | Dimen | sions | | | |
|------------------------|-----|-----------|------------|--------------------------|------------------|----------------|---------|-------|------|---------|-------|
| ᄠ | | Pipe / To | ube / Hose | Clamp Assembly | Clamp Body | Insert * | (mm/in) | | | | |
| STAUFF | DIN | (mm) | (in) | (Clamp Body + 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 | | | 40 | | |
| | | 10 | | 410- ** -R | R | RI-10-4/4S | | | | , , | |
| | | 12 | | 412- ** -R | | RI-12-4/4S | | | | | |
| | | 12,7 | 1/2 | 412.7- ** -R | | RI-12.7-4/4S | | | | | 30 |
| 4 | 4 | 14 | | 414- ** -R | | RI-14-4/4S | .98 | 2.32 | | | |
| | | 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 | | | | 57 1.62 | |
| 6 | 6 | 25 | | 625- ** -R | C dede D | RI-25-6/5S | 38 | 86 | 66 | 64,5 | 30 |
| 0 | О | 26,9 | | 626.9- ** -R | 6- ** -R | 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 | | | | | |

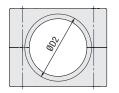
* Elastomer Inserts for Standard Series clamp bodies, STAUFF Group 4 also fit into Heavy Series clamp bodies, STAUFF Group 4S. Elastomer Inserts for Standard Series clamp bodies, STAUFF Group 6 also fit into Heavy Series clamp bodies, STAUFF Group 5S.

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



Noise Reduction Clamp Type NRC









| STAUFF Broom | | Outside Pipe / Tu Ø D1 | Diameter be | Ordering Codes Clamp Assembly (Clamp Body + | Clamp Body | 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 | | 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 | | | 1100 | | 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 R | RI-NRC-15-3 | 1.10 | 29 | 50 1.97 | 33 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 | 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 | 49 1.93 | 50 1.97 | 71 2.80 | 52 2.05 | 56,5 | 30 1.18 |
| | | 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 | | 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 2
* Exact outside diameter Ø D1 (mm) 12

* Material code (see below) PP-NRC

NRC Clamp Body *2-*PP-NRC

One NRC clamp body is consisting of two clamp halves.

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

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

One NRC elastomer insert is consisting of two insert halves.

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.

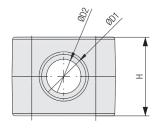
Special Materials

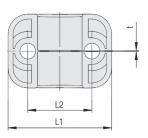
Please contact STAUFF for further details on fire-proof clamp body materials, tested and approved according to several international fire-protection standards (such as BS 6853, EN 45545-2, UL 94 and many more).

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

Clamp Body for Conduit Hoses Type CHC







Ordering Codes

Clamp Body *2*12-*PA-CHC

One clamp body is consisting of two clamp halves.

| * STAUFF Group | 2 |
|------------------------------------|--------|
| * Nominal Size of the Conduit Hose | 12 |
| * Material code (see below) | PA-CHC |

Standard Materials



Polyamide Colour: Black Material code: PA-CHC

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.

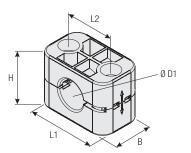
Product Features

- Design of the inside surface of the clamp body prevents corrugated conduit hoses from sliding
- Chamfered edges avoid damaging of the conduit hoses
- Available for all commonly used nominal sizes
- Excellent weathering resistance, even under extreme conditions

| STAUFF Gronb | | Nominal Size Conduit Hose | Ordering Codes (2 Clamp Halves) | Dimens (mm/in) | ions | | | | | | | | | | | | |
|-----------------|-----|------------------------------|------------------------------------|-------------------|------|------------|------|------|------|------------|----|------|-----|----|----|------|----|
| ST | N O | | | ØD1 | ØD2 | t | L1 | L2 | Н | Width | | | | | | | |
| | | 10 | 210-PA-CHC | 13 | 11 | 0,5 | 42 | 26 | 32 | 30 | | | | | | | |
| 2 2 | 2 | 10 | 210-FA-000 | .51 | .43 | .02 | 1.65 | 1.02 | 1.26 | 1.18 | | | | | | | |
| | 4 | 12 | 10 | 10 | 10 | 212-PA-CHC | 16 | 13,5 | 0,5 | 50 | 33 | 35,5 | 30 | | | | |
| | 12 | 212-FA-UHU | .63 | .53 | .02 | 1.97 | 1.30 | 1.40 | 1.18 | | | | | | | | |
| 3 | 3 | 17 | 317-PA-CHC | 21,5 | 18 | 0,7 | 59 | 40 | 41,5 | 30 | | | | | | | |
| 3 | 3 | 17 | 317-FA-GHG | .85 | .71 | .03 | 2.32 | 1.57 | 1.63 | 1.18 | | | | | | | |
| 4 | 4 | 23 | 423-PA-CHC | 29 | 24,5 | 0,7 | 71 | 52 | 56,5 | 30 | | | | | | | |
| 4 | 4 | 23 | 423-PA-UHU | 1.14 | .96 | .03 | 2.80 | 2.05 | 2.22 | 1.18 | | | | | | | |
| | | 00 | 29 | 20 | 00 | 00 | 00 | 00 | 00 5 | 529-PA-CHC | 35 | 30,5 | 1,0 | 86 | 66 | 64,5 | 30 |
| 5 | 5 | 29 | 329-PA-UNU | 1.38 | 1.20 | .04 | 3.39 | 2.60 | 2.54 | 1.18 | | | | | | | |
| Ü | 5 | 26 | ESC DA CHC | 43 | 38,5 | 1,0 | 121 | 94 | 92 | 30 | | | | | | | |
| | | 36 | 536-PA-CHC | 1.69 | 1.52 | .04 | 4.76 | 3.70 | 3.62 | 1.18 | | | | | | | |
| 6 | 6 | 40 | 648-PA-CHC | 55 | 49,5 | 1,0 | 147 | 120 | 116 | 30 | | | | | | | |
| 6 6 | U | 48 | 040-FA-UNU | 2.17 | 1.95 | .51 | 5.79 | 4.72 | 4.57 | 1.18 | | | | | | | |

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





For Use with Regular Hose

(in)

.75

.87

1.00

Outside Diameter

Regular Hose

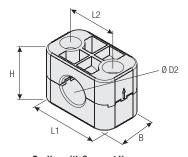
Ø D1

(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

30

1.18

Dimensions (mm/in)

L2

50 33

1.97



Clamp Body • Compact Design

Type CC

3

Ordering Codes

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

One clamp body is consisting of two clamp halves.

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

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

Group

3

NIC

3

- 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



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

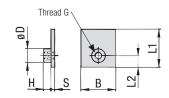
- Outer dimensions of clamp body according to Standard Series, STAUFF Group 5
- For proximity switches according to DIN EN 60947-5-2 or similar, rectangular construction, with a square of 40 mm x 40 mm / 1.57 in x 1.57 in or 40 mm x 36 mm / 1.57 in x 1.42 in
- For proximity switches according to DIN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

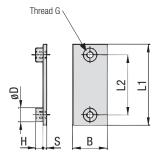
Clamp Body • Rectangular Design Type VK



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, 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 |
| | Aluminium EN AW-6060 (Dimension S: 5 mm / .20 in) | W85 |

| Group | | Dimensions (** | 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 |
| ı | 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 |
| IA | IA I | 1/4-20 UNC | 1.42 | 0.79 | 1.18 | .12 | .26 | .47 | SP-1A-U-W2 |
| 2 | 2 | M6 | 42 | 26 | 30 | 3 | 6,5 | 12 | SP-2-M-W2 |
| _ | | 1/4-20 UNC | 1.65 | 1.02 | 1.18 | .12 | .26 | .47 | SP-2-U-W2 |
| 3 | 3 | M6 | 50 | 33 | 30 | 3 | 6,5 | 12 | SP-3-M-W2 |
| 3 3 | 3 | 1/4-20 UNC | 1.97 | 1.30 | 1.18 | .12 | .26 | .47 | SP-3-U-W2 |
| 4 | 4 | M6 | 60 | 40 | 30 | 3 | 6,5 | 12 | SP-4-M-W2 |
| 4 | 4 | 1/4-20 UNC | 2.36 | 1.57 | 1.18 | .12 | .26 | .47 | SP-4-U-W2 |
| _ | _ | 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 |
| | 0 | M6 | 88 | 66 | 30 | 3 | 6,5 | 12 | SP-6-M-W2 |
| 6 | 6 | 1/4-20 UNC | 3.46 | 2.60 | 1.18 | .12 | .26 | .47 | SP-6-U-W2 |
| - | 7 | M6 | 122 | 94 | 30 | 5 | 6,5 | 12 | SP-7-M-W2 |
| 7 | 7 | 1/4-20 UNC | 4.80 | 3.70 | 1.18 | .20 | .26 | .47 | SP-7-U-W2 |
| 0 | 0 | M6 | 148 | 120 | 30 | 5 | 6,5 | 12 | SP-8-M-W2 |
| 8 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

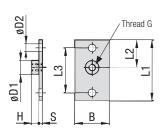
Ordering Codes

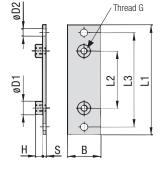
* Elongated Weld Plate * STAUFF Group * Thread code

Weld Plate

* Material code





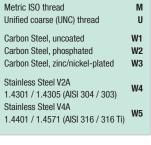


STAUFF Group 1

STAUFF Group 1A to 8

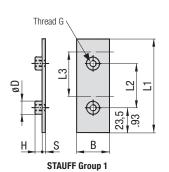
| Group | | Dimensions (n | ^{nm} /in) | | | | | | | | Ordering Codes |
|--------|-----|---------------|--------------------|------|------|------|-----|-----|-----|-----|--------------------|
| STAUFF | DIN | Thread G | L1 | L2 | L3 | В | S | Н | ØD1 | ØD2 | (Standard Options) |
| 1 | 0 | M6 | 58 | 24,5 | 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 | | 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 |
| 9 | 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 |
| O | O | 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 | 7 | 1/4-20 UNC | 5.91 | 3.70 | 5.35 | 1.18 | .20 | .26 | .47 | .26 | SPV-7-U-W2 |
| 0 | 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 |

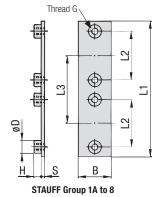
All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



*SPV-*1-*M-*W2







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

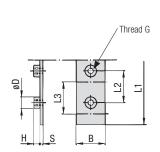


| Group | | Dimensions (mm) | Dimensions (mm/in) | | | | | | | | | | | |
|--------|-----|-----------------|--------------------|------|------|------|-----|-----|-----|--------------------|--|--|--|--|
| STAUFF | DIN | Thread G | L1 | L2 | L3 | В | S | Н | ØD | (Standard Options) | | | | |
| 1 | 0 | M6 | 87 | 40 | 40 | 30 | 3 | 6.5 | 12 | DSP-1-40-M-W2 | | | | |
| ' | U | 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 | 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 | | | | |
| 3 | 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 | M6 | 145 | 52 | 75 | 30 | 3 | 6.5 | 12 | DSP-5-75-M-W2 | | | | |
| 5 | 5 | 1/4-20 UNC | 5.71 | 2.05 | 2.95 | 1.18 | .12 | .26 | .47 | DSP-5-75-U-W2 | | | | |
| c | 6 | M6 | 178 | 66 | 90 | 30 | 3 | 6.5 | 12 | DSP-6-90-M-W2 | | | | |
| 6 6 | O | 1/4-20 UNC | 7.01 | 2.60 | 3.54 | 1.18 | .12 | .26 | .47 | DSP-6-90-U-W2 | | | | |

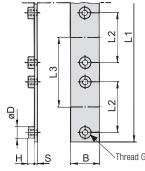
All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

| Ordering C | odes | | | | | | | | | |
|--------------------------------------|--|----------------|--|--|--|--|--|--|--|--|
| Weld Plate *DSP-*1-*40-*M-*W2 | | | | | | | | | | |
| * Twin Weld Plate for 2 Clamp Bodies | | | | | | | | | | |
| * STAUFF Group | | 1 | | | | | | | | |
| * Pipe center spa | acing L3 (mm) | 40 | | | | | | | | |
| * 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 | | | | | | | | |

1.4401 / 1.4571 (AISI 316 / 316 Ti)



STAUFF Group 1



STAUFF Group 1A to 8

| 朝 明 [] | \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | Group Weld Plate for 5 or 10 Clamp Bodies Type RAP |
|--------|---|--|
| H S | B | d G |

Ordering Codes

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

| Weld Plate | *RAP-*1-*31-*10-*M- | *W1 |
|---------------------|--|----------------|
| * Group Weld Plat | e for 5 or 10 Clamp Bodies | RAP |
| * STAUFF Group | | 1 |
| * Pipe center space | cing L3 (mm) | 31 |
| * Number of clam | ps | 10 |
| * 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)

1.4401 / 1.4571 (AISI 316 / 316 Ti)

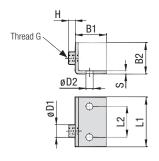
Stainless Steel V4A

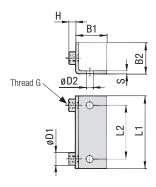
Dimensional drawings: All dimensions in mm (in).



Angled Weld Plate Type WSP







STAUFF Group 1

STAUFF Group 1A to 6

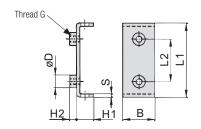
| Ordering C | odes | |
|-------------------|--|----------|
| Weld Plate | *WSP-*1-*M-* | W1 |
| * Angled Weld Pla | ate | WSP |
| * STAUFF Group | | 1 |
| * Thread code | Metric ISO thread Unified coarse (UNC) thread | M U |
| * Material code | Carbon Steel, uncoated Carbon Steel, zinc/nickel-plated | W1 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 | | Dimensions (** | Dimensions (mm/in) | | | | | | | | | | | |
|--------|-----|----------------|--------------------|------|------|------|-----|-----|-----|-----|--------------------|--|--|--|
| 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 | | | |
| 1 | U | 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 | 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 | 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 | | | |
| 5 | E | 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 | | | |
| ^ | 0 | 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



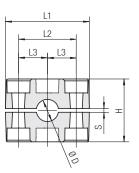


| Ordering C | odes | |
|--------------------|---|----------------|
| Weld Plate | *BSP-*1A-*M-* | W1 |
| * Bridge Weld Plat | te | BSP |
| * STAUFF Group | | 1A |
| * Thread code | Metric ISO thread Unified coarse (UNC) thread | M U |
| * Material code | Carbon Steel, uncoated Carbon Steel, phosphated 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 | | Dimensions (mm | / _{in}) | | | | | | | Ordering Codes |
|--------|-----|----------------|-------------------|------|------|-----|-----|-----|-----|--------------------|
| STAUFF | DIN | Thread G | L1 | L2 | В | S | H1 | H2 | ØD | (Standard Options) |
| 1.0 | 4 | M6 | 48 | 20 | 30 | 3 | 13 | 6,5 | 12 | BSP-1A-M-W1 |
| 1A | 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 |
| 6 | 6 | M6 | 98 | 66 | 30 | 3 | 13 | 6,5 | 12 | BSP-6-M-W1 |
| U | 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 | Dimensions | | | | | | |
|--------|-----|------------------|-------|--------|-------------|-----------------------|------------|------|------|------|--------|-------|--|
| | | Pipe / Tu | ıbe | | 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 | | | | | | | |
| | | 25 | | | | 525-**-MGR | | | | | | | |
| | | 26,9 | | 3/4 | | 526.9- ** -MGR | | | | | | | |
| 5 | 5 | 28 | | | | 528-**-MGR | 71 | 52 | 26 | 58 | 0,8 | 30 | |
| 3 | 3 | 30 | | | | 530- ** -MGR | 2.80 | 2.05 | 1.02 | 2.28 | .03 | 1.18 | |
| | | 32 | 1-1/4 | | | 532-**-MGR | | | | | | | |
| | | 33,7 | | 1 | | 533.7- ** -MGR | | | | | | | |
| | | 35 | | | 1-1/4 | 535- ** -MGR | | | | | | | |
| | | 38 | 1-1/2 | | | 538-**-MGR | | | | | | | |
| | | 40 | | | | 540-**-MGR | | | | | | | |
| | | 42 | | 1-1/4 | | 542-**-MGR | | | | | | | |

 $\label{thm:control_equation} \mbox{Additional outside diameters are available upon request. Please contact STAUFF for further information.}$

Clamp Body for Multi-Group Weld Plate Type MGR



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

Standard Materials



Polypropylene Colour: Green Material code: PP-MGR



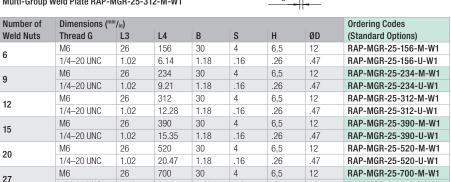
Colour: Black Material code: PA-MGR

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



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<u>Ф</u>,

Thread G

RAP-MGR-25-700-U-W1

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

27.55

1.02

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.

1.18

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



Ordering Code

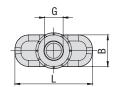
| Oraeriii | g codes | |
|---------------|---|-----------------------------|
| Weld Plat | e *RAP-MGR-*25 | -*156-*M-*W1 |
| * Multi Grou | p Weld Plate | RAP-MGR |
| * Suitable fo | or STAUFF Group 2 and 5 | 25 |
| * Length L4 | (mm) 156 (with 6 weld nuts 234 (with 9 weld nuts 312 (with 12 weld nut 390 (with 15 weld nut 520 (with 20 weld nut 700 (with 27 weld nut | 234 ts) 312 ts) 390 ts) 520 |
| * Thread co | de Metric ISO thread Unified coarse (UNC) | M thread U |
| * Material c | ode Carbon Steel, uncoate | ed W1 |
| | Stainless Steel V4A 1.4401 / 1.4571 (AIS | I 316 / 316 Ti) W5 |

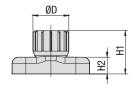
1/4-20 UNC



(for Use with Mounting Rail TS) Type SM / SMG







Ordering Codes Hexagon Rail Nut *SM-*1-8/1D-*M-*W3 * Hexagon Rail Nut Carbon Steel Stainless Steel SMG * STAUFF Group 1 to 8 (DIN Group 0 to 8) 1-8/1D Metric ISO thread * Thread code M Unified coarse (UNC) thread 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)

| 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 | 0 UNC 1.00 .4 | .41 | .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.

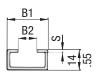
Mounting Rail

(for Use with Hexagon Rail Nut SM / SMG)

Type TS









Mounting Rail TS-11

Mounting Rail TS-14

Mounting Rail TS-30

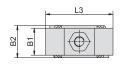
| Ordering C | odes | |
|------------------|---|----------------|
| Mounting Ra | il *TS-*11-*1M-*\ | W1 |
| * Mounting Rail | | TS |
| * Height of rail | 11 mm / .43 in 14 mm / .55 in 30 mm / 1.18 in | 11 14 30 |
| * Length of rail | 1 m / 3.28 ft 2 m / 6.56 ft | 1M 2M |
| | Alternative lengths available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

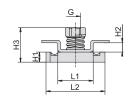
| Group STAUFF DIN | | Dimensions (mm/in) B1 B2 S | | | Ordering Codes (Standard Options) Length of Rail: 1 m / 3.28ft Length of Rail: 2 m / 6.56ft | | |
|---------------------|---|-------------------------------|-----|-----|--|------------------------------------|--|
| 1 | 0 | | | | | | |
| 1A | 1 |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

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



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







| Group | | | | | | | | | | | Ordering Codes |
|--------|-----|------------|-------|------|------|----------|---------|-----|-------------|------|--------------------|
| STAUFF | DIN | Thread G | L1 | L2 | L3 | B1 | B2 | H1 | H2 | Н3 | (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 | 1.38 | 1.57 | 1.57 .63 | .63 .75 | .24 | .24 .22 .81 | .81 | CRA-1-8/1D-U-W3 |
| 5 | 5 | | | | | | | | | | |
| 6 | 6 | | | | | | | | | | |
| 7 | 7 | | | | | | | | | | |
| 8 | 8 | | | | | | | | | | |

| Ordering Codes | | | | | | |
|-------------------|--|------------|--|--|--|--|
| Adaptor | *CRA-*1-8/1D-*M-*V | V 3 | | | | |
| * Channel Rail Ad | aptor C | RA | | | | |
| * 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.

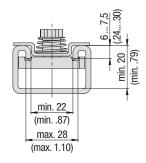


Compatibility with Channel Rails

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 | |

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



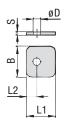
Basic dimensional requirements for channel rails to be used with STAUFF Channel Rail Adaptors, type CRA

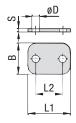
Dimensional drawings: All dimensions in mm (in).



Cover Plate Type 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 (| mm/in) | Ordering Codes | | | |
|--------|------|--------------|--------|----------------|-----|---------|--------------------|
| STAUFF | DIN | L1 | L2 | В | S | ØD | (Standard Options) |
| 1 | 0 | 28 | 9,5 | 30 | 3 | 7 | DP-1-W3 |
| 1 0 | 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-IA-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 | 3 | 1.89 | 1.30 | 1.18 | .12 | .28 | DP-3-W3 |
| 4 | 4 | 57 | 40 | 30 | 3 | 7 | DD 4 W2 |
| 4 | 4 | 2.24 | 1.57 | 1.18 | .12 | .28 | DP-4-W3 |
| 5 | 5 | 70 | 52 | 30 | 3 | 7 | DP-5-W3 |
| 5 | 5 | 2.76 | 2.05 | 1.18 | .12 | .28 | DP-5-W3 |
| | | 86 | 66 | 30 | 3 | 7 | DD C WO |
| 6 | 6 | 3.39 | 2.60 | 1.18 | .12 | .28 | DP-6-W3 |
| - | 7 | 118 | 94 | 30 | 5 | 7 | DD 7 W0 |
| 7 | 7 | 4.65 | 3.70 | 1.18 | .20 | .28 | DP-7-W3 |
| 0 | | 144 | 120 | 30 | 5 | 7 | DD 0 M0 |
| 8 | 8 | 5.67 | 4.72 | 1.18 | .20 | .28 | DP-8-W3 |

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

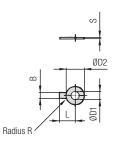
| Hexagon Head | I Bolt *AS-*M6x30-*V | V 3 |
|-------------------|--|------------|
| * Type of bolt | Hexagon Head Bolt (according to DIN 931 / 933 or ANSI / ASME B18.2.1.) | AS |
| * Thread type and | size acc. to dimension table M6 | x30 |
| * Material code | Carbon Steel, zinc/nickel-plated | W3 |
| | 1.4301 / 1.4305 (AISI 304 / 303) Stainless Steel V4A | W4 W5 |
| | | |

| Group STAUFF | DIN | Dimensions ("""/in) Thread G x L | Ordering Codes (Standard Options) |
|-----------------|-----|----------------------------------|--------------------------------------|
| 1 | 0 | M6 x 30 | AS-M6x30-W3 |
| ' | 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 |
| э | 5 | 1/4–20 UNC x 2-3/8 | AS-1/4-20UNCx2-3/8-W3 |
| • | 0 | M6 x 70 | AS-M6x70-W3 |
| 6 | 6 | 1/4–20 UNC x 2-3/4 | AS-1/4-20UNCx2-3/4-W3 |
| - | 7 | M6 x 100 | AS-M6x100-W3 |
| 7 | 7 | 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 | | 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 0 | 0 10 6 | .25 | .28 | .75 | .71 | .16 | .02 | SI-6.4-DIN93-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 93)



Ordering Codes

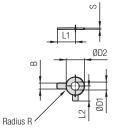
*SI-*6.4-*DIN93-*W3 **Safety Washer**

* 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 | 12 .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

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

Slotted Head Screw LI

(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

| 10 | rde | ri | ng | Cod | des |
|----|-----|----|----|-----|-----|
| | | | | | |

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

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

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

* Thread type and size acc. to dimension table

Carbon Steel, zinc/nickel-plated * Material code W3 Stainless Steel V2A W4 1.4301 / 1.4305 (AISI 304 / 303)

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

| 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 |
| 1 | 0 | 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 |
| 2 | 2 | 1/4-20 UNC x 1 | IS-1/4-20UNCx1-W3 | LI-1/4-20UNCx1-W3 |
| 3 | 3 | M6 x 30 | IS-M6x30-W3 | LI-M6x30-W3 |
| 3 | 3 | 1/4-20 UNC x 1-1/8 | IS-1/4-20UNCx1-1/8-W3 | LI-1/4-20UNCx1-1/8-W3 |
| 4 | 4 | M6 x 35 | IS-M6x35-W3 | LI-M6x35-W3 |
| 4 | 4 | 1/4-20 UNC x 1-3/8 | IS-1/4-20UNCx1-3/8-W3 | LI-1/4-20UNCx1-3/8-W3 |
| 5 | 5 | M6 x 50 | IS-M6x50-W3 | LI-M6x50-W3 |
| 5 | 5 | 1/4-20 UNC x 2 | IS-1/4-20UNCx2-W3 | LI-1/4-20UNCx2-W3 |
| | | 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 |
| 7 | 7 | M6 x 90 | IS-M6x90-W3 | ON DECLIFET ONLY |
| 7 | 7 | 1/4-20 UNC x 3-3/8 | IS-1/4-20UNCx3-3/8-W3 | ON REQUEST ONLY |
| 0 | 0 | M6 x 110 | IS-M6x110-W3 | ON DECLIFICE 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

Insert Type ES / EP







Hexagon Head Bolt AS

(according to DIN 931 / 933 or ANSI / ASME B18.2.1.) Dimensions applicable only when used with Inserts EP / ES

| _ | D | 2 | | _ |
|---|---|---|---|---|
| _ | L | L | | |
| | | | | ± |
| İ | D | 1 | Ī | |

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

| Group | Group | | nsion | s (^{mm} /ii | Ordering | g 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 | |
|-----------------------|----------------|
| Hexagon Head Bolt | *AS-*M6x27-*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 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 | | 1/4-20 UNC x 1-5/8 | AS-1/4-20UNCx1-5/8-W3 |
| 5 | 5 | M6 x 57 | AS-M6x57-W3 |
| 5 | 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 |
| О | О | 1/4-20 UNC x 2-3/4 | AS-1/4-20UNCx2-3/4-W3 |
| 7 | 7 | M6 x 95 | AS-M6x95-W3 |
| 1 | 1 | 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







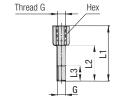
STAUFF Group 1

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 |
| | U | .63 | 1.26 | .44 | .04 | 310-1-W3 |
| 1A | 1 | 33 | 28 | 11,2 | 1 | SIG-1A-W3 |
| IA | ' | 1.30 | 1.10 | .44 | .04 | SIU-IA-WS |
| 2 | 2 | 39 | 28 | 11,2 | 1 | SIG-2-W3 |
| 2 | 2 | 1.54 | 1.10 | .44 | .04 | 31u-2-w3 |
| 3 | 3 | 47 | 28 | 11,2 | 1 | SIG-3-W3 |
| 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 | 31u-4-w3 |
| 5 | 5 | 69 | 28 | 11,2 | 1 | SIG-5-W3 |
| 3 | J | 2.72 | 1.10 | .44 | .04 | 31u-3-w3 |
| 6 | 6 | 85 | 28 | 11,2 | 1 | SIG-6-W3 |
| 0 | О | 3.35 | 1.10 | .44 | .04 | 314-0-W3 |
| 7 | 7 | 117 | 28 | 11,2 | 1 | SIG-7-W3 |
| 1 | 1 | 4.61 | 1.10 | .44 | .04 | 31u-7-W3 |
| 8 | 8 | 143 | 28 | 11,2 | 1 | CIC 0 W2 |
| 0 | 0 | 5.63 | 1.10 | .44 | .04 | SIG-8-W3 |

| Ordering Codes | | | | | | | | |
|---------------------------------|--|-----|--|--|--|--|--|--|
| Safety Locking Plate *SIG-*1-*V | | | | | | | | |
| * Safety Locking I | 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



Ordering Codes

| Group | | Dimensions (| ^{mm} /in) | | Ordering Codes | | |
|--------|-----|--------------|--------------------|------|----------------|-----|--------------------|
| STAUFF | DIN | Thread G | L1 | L2 | L3 min. | Hex | (Standard Options) |
| 1 | 0 | M6 | 34 | 20 | 12 | 11 | AF-1-M-W3 |
| 1 | 0 | 1/4-20 UNC | 1.34 | .79 | .47 | .43 | AF-1-U-W3 |
| 1A | 1 | M6 | 34 | 20 | 12 | 11 | AF-1A-M-W3 |
| IA | ' | 1/4-20 UNC | 1.34 | .79 | .47 | .43 | AF-1A-U-W3 |
| 2 | 2 | M6 | 40 | 25 | 12 | 11 | AF-2-M-W3 |
| 2 | 2 | 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 | | 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 |
| 5 | 5 | 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 |
| 0 | О | 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 |
| 7 | 1 | 1/4-20 UNC | 3.90 | 3.35 | .47 | .43 | AF-7-U-W3 |
| 0 | 0 | M6 | 124 | 110 | 12 | 11 | AF-8-M-W3 |
| 8 | 8 | 1/4-20 UNC | 4.88 | 4.33 | .47 | .43 | AF-8-U-W3 |

| Stacking Bolt | *AF-*1-*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) Stainless Steel V4A | W4 |
| | 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

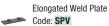
Please select the type of installation (e.g. Weld Plates, Rail Nuts etc.) and add the corresponding Code to position 1 of the order code for your clamp assembly.



Without Installation Equipment Code: none

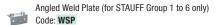
Installation on Weld Plate

Single Weld Plate Code: SP



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

Group Weld Plate (for STAUFF Group 1 to 6 only)



Bridge Weld Plate (for STAUFF Group 1A to 6 only)

Installation on Mounting / Channel Rail



Hexagon Rail Nut Code: SM (Carbon Steel) Code: SMG (Stainless Steel)

Channel Rail Adaptor Code: CRA

② Group Size & Diameter

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

| Group | Outside | Availahi | lity of Cla | mn | |
|--------------|----------|---|---|---------|--------|
| aroup | Diameter | Availability of Clamp Body Materials & Designs | | | |
| STAUFF | P/T/H | Profiled | | | |
| (DIN) | (mm) | Design | Туре Н | Type RI | Code |
| (2) | 6 | • | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 0 | 106 |
| | 6,4 | • | • | 0 | 106.4 |
| 1 | 8 | • | • | 0 | 108 |
| (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 | 109.5A |
| | 10 | • | • | 0 | 110A |
| | 12 | • | • | 0 | 112A |
| | 12,7 | • | • | 0 | 212.7 |
| | 13,5 | • | • | 0 | 213.5 |
| | 14 | • | • | 0 | 214 |
| 2 (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 |
| | 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 |
| | 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: **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 lenghts, please see details of Hexagon Head Bolt, type AS (for use with Cover Plates DP) on page26.

(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

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

W5

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

W10

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

(7) Assembling & Kitting

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

Components supplied separately

Code: **none** (standard option)

Components assembled Code: A (special option)

Components packed in kits
Code: K (special option)





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

 $\ensuremath{\mathbf{W10}}$ 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

1x 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



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



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-LI-M-W3

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

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.

W3 is the standard option for this type of installation.

SM-212.7-PP-IS-M-W3

Order Code (Mounting Rail TS not included.)







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.

All threaded parts are available with Metric ISO thread or

unified coarse (UNC) thread according to dimension table.

2x Stacking Bolt

Surface: W3 Thread: Metric

1x Safety Locking Plate

Surface: W3

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



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

Unified coarse (UNC) thread Material codes

Metric ISO thread

Thread 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)

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

W10

W3

W4

W5

M

u

Order Code

212.7-PP-SIG-AF-M-W3

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

Order Code*

SP-106-PP-IS-M-W10

 $\boldsymbol{W10}$ is the standard option for this type of installation.

2x Hexagon Head Bolt

Surface: W3 Thread: Metric

2x Insert

Material: Plastic

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

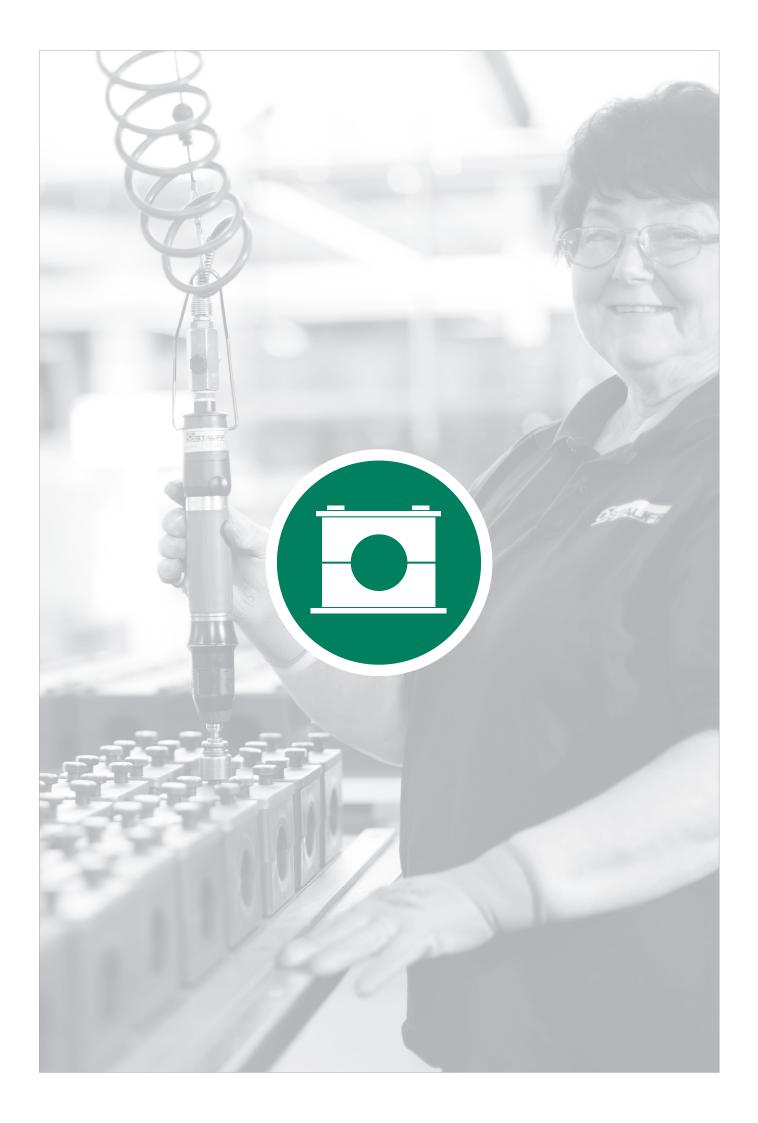
Order Code

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

W10 is the standard option for this type of installation.

Technical Notes

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







Clamp Body

Profiled Inside Surface with Tension Clearance



36

39

Weld Plate for Single Clamps

SPAL





Clamp Body

Smooth Inside Surface without Tension Clearance

Clamp Body with Elastomer Insert



Weld Plate for Double Clamps

41

41

42

42

43

44

44

45

45

46

46

47

47

48





Elongated Weld Plate for Single Clamps

SPAL-DUEB



SPAS-DUEB



GMV

Mounting Rail

STSV

Channel Rail Adaptor

CRA

Cover Plate for Single Clamps

DPAL

Cover Plate for Double Clamps

DPAL

Hexagon Head Bolt

AS

Socket Cap Screw

IS

Safety Washer (DIN 93)

Safety Washer (DIN 463)

Safety Locking Plate

Stacking Bolt

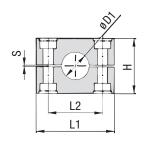
AF

Clamp Assemblies

Clamp Body - Profiled Design

Profiled Inside Surface with Tension Clearance





Ordering Codes

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

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





Aluminium Colour: Self-Colour Material code: AL

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

Special Materials

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

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

Product Features

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

| Grou | ıp | | | Diameter | Nomin | | Ordering Codes | Dimens | sions (^m | m/in) | | | |
|--------|----|-------------|------|-------------|-------|----------|-------------------------|------------|----------------------|------------|------------|--------|--------------|
| 世 | | Pipe / Tube | | Copper Tube | | , , | | | | | | | |
| STAUFF | 2 | 2 | Ø D1 | | Pipe | ASTM B88 | Halves) | L1 | L1 | | | | |
| S | 2 | 5 | (mm) | (in) | (in) | (in) | (** = Material) | PP/PA/SA | AL | L2 | Н | S min. | Width |
| | | | 6 | | | | 3006-** | | | | | | |
| | | | 6,4 | 1/4 | | | 3006.4-** | | | | | | |
| | | | 8 | 5/16 | | | 3008-** | | | | | | |
| | | | 9,5 | 3/8 | | 1/4 | 3009.5-** | | | | | | |
| | | | 10 | | 1/8 | | 3010-** | | | | | | |
| | | | 12 | | | | 3012-** | | | | | | |
| 3S | 1 | 1 | 12,7 | 1/2 | | 3/8 | 3012.7-** | 55 | 56 | 33 | 32 | 0,6 | 30,5 |
| 35 | ' | ı | 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- ** | | | | | | |
| | | | 20 | | | | 4020- ** | | | | | | |
| | | | 21,3 | | 1/2 | | 4021.3-** | | | | | | |
| | | | 22 | 7/8 | | 3/4 | 4022- ** | 70 | 70 | 45 | 40 | 0.6 | 20 E |
| 4S | 2 | 2 | 25 | | | | 4025- ** | 70 2.76 | 2.76 | 45 1.77 | 48 1.89 | 0,6 | 30,5 1.20 |
| | | | 25,4 | 1 | | | 4025.4- ** | 2.70 | 2.70 | 1.77 | 1.09 | .02 | 1.20 |
| | | | 26,9 | | 3/4 | | 4026.9-** | | | | | | |
| | | | 28 | | | | 4028-** | | | | | | |
| | | | 30 | | | | 4030-** | | | | | | |
| | | | 30 | | | | 5030-** | | | | | | |
| | | 3 | 32 | 1-1/4 | | | 5032-** | | | | | | |
| | | | 33,7 | | 1 | | 5033.7-** | | | | | | |
| 5S | , | | 35 | | | 1-1/4 | 5035-** | 85 | 85 | 60 | 60 | 0,6 | 30.5 |
| 55 | J | | 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- ** | | | | | | |
| 68 | | 4 | 38 | 1-1/2 | | | 6038-** | | | | | | |
| | | | 42 | | 1-1/4 | | 6042- ** | | | | | | |
| | | | 44,5 | 1-3/4 | | | 6044.5-** | | | | | | |
| | | | 48,3 | | 1-1/2 | | 6048.3-** | | | | | | |
| | | | 50,8 | 2 | | | 6050.8-** | | | | | | |
| | | | 54 | | | 2 | 6054- ** | 115 | 120 | 90 | 89 | 2 | 45 |
| | 4 | | 55 | | | | 6055-** | 4.53 | 4.72 | 3.54 | 3.50 | .08 | 1.77 |
| | | | 57 | | | | 6057-** | 4.00 | 4.72 | 0.04 | 0.00 | .00 | 1.77 |
| | | | 57,2 | 2-1/4 | | | 6057.2-** | | | | | | |
| | | | 60,3 | | 2 | | 6060.3-** | | | | | | |
| | | | 63,5 | 2-1/2 | | | 6063.5-** | | | | | | |
| | | | 65 | | | | 6065-** | | | | | | |
| | | | 70 | 2-3/4 | | | 6070-** | | | | | | |

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

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 | | | Diameter | | Ordering Codes | Dimens | sions (^{mr} | ¹/in) | | | |
| 生 | | Pipe / T | ube | Bore | (2 Clamp | | | | | | |
| STAUFF | N O | Ø D1 | | | Halves) | L1 | L1 | | | | |
| S | ٥ | (mm) | (in) | Pipe (in) | (** = Material) | PP/PA | AL | L2 | Н | S min. | Width |
| 60,3 | | | 7060.3-** | | | | | | | | |
| | | 65 | | | 7065-** | | | | | | |
| | | 70 | 2-3/4 | | 7070-** | | | | | | |
| | | 73 | | 2-1/2 (ANSI B 36-10) | 7073-** | 154 | 152 5.98 | 122 | 120 4.72 | 2 | 60 |
| 7S | 5 | 75 | | | 7075-** | 6.06 | | 4.80 | | | 2.36 |
| | | 76,1 | 3 | 2-1/2 (DIN EN 10220) | 7076.1-** | | | | | | |
| | | 80 | | | 7080-** | | | | | | |
| | | 82,5 | | | 7082.5-** | | | | | | |
| | | 88,9 | 3-1/2 | 3 | 7088.9-** | | | | | | |
| | | 88,9 | 3-1/2 | 3 | 8088.9-** | | | | | | |
| 88 | | 100 | | | 8100-** | | | | | | |
| | | 102 | 4 | 3-1/2 | 8102-** | 206 | 208 | 168 | 168 | 2 | 80 |
| | 6 | 108 | | | 8108-** | 8.11 | 8.19 | 6.61 | 6.61 | .08 | 3.15 |
| | | 114 | 4-1/2 | 4 | 8114-** | 0.11 | 0.10 | 0.01 | 0.01 | .00 | 0.10 |
| | | 127 | 5 | | 8127-** | | | | | | |
| | | 133 | | | 8133-** | | | | | | |
| | | 127 | 5 | | 9127-** | | | | | | |
| | | 133 | | | 9133-** | | | | | | |
| | | 140 | | 5 | 9140-** | 251 | 255 | 205 | 200 | 3 | 91 |
| 98 | 7 | 152 | 6 | | 9152-** | 9.88 | 10.04 | 8.07 | 7.87 | .12 | 3.58 |
| | | 159 | | | 9159-** | 3.00 | 10.04 | 0.07 | 7.07 | .12 | 3.30 |
| | | 165 | | | 9165-** | | | | | | |
| | | 168 | | 6 | 9168-** | | | | | | |
| | | 168 | | 6 | 10168-** | | | | | | |
| | | 177,8 | | | 10177.8-** | | | | | | |
| 108 | 8 | 193,7 | | | 10193.7-** | 336 | 326 | 265 | 270 | 3 | 120 |
| 103 | 0 | 203 | 8 | | 10203-** | 13.22 | 12.83 | 10.43 | 10.63 | .12 | 4.72 |
| | | 216 | | | 10216-** | | | | | | |
| | | 219 | | 8 | 10219-** | | | | | | |
| | | 219 | | 8 | 11219-** | 470 | 470 | 395 | 410 | 8 | 162 |
| 11S | 9 | 273 | | 10 | 11273-** | 18.50 | 18.50 | 15.55 | 16.14 | .31 | 6.38 |
| | | 324 | | 12 | 11324-** | 10.00 | 10.00 | 10.00 | 10.14 | .31 | 0.30 |
| 100 | 10 | 356 | | 14 | 12356-** | 630 | 630 | 534 | 530 | 20 | 182 |
| 12S 10 406 | | 406 | | 16 | 12406-** | 4.80 | 4.80 | 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.

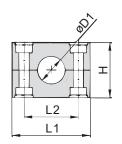
Product Features

- 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

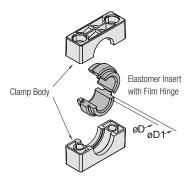
- Proven, tested and trusted product in various markets
- Recommended for the safe installation of hoses and cables
- Chamfered edges avoid damaging of the hose or cable
- Available for all commonly used hose and cable outside diameters
- Excellent weathering resistance, even under extreme conditions

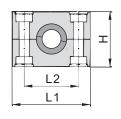
| STAUFF Group | | Outside Dian Hose Ø D1 | neter | Ordering Codes (2 Clamp Halves) | Dimensions (mm/in) | | | | |
|--------------|-----|------------------------------|-------|---------------------------------------|--------------------|------|------|-------|--|
| ST/ | DIN | (mm) | (in) | (**-H = Material) | 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 | 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 | | | | | |
| | | 17,2 | | 3017.2- ** -H | | | | | |
| | | 18 | | 3018- ** -H | | | | | |
| | | 19 | 3/4 | 4019- ** -H | | | | | |
| | | 20 | | 4020- ** -H | | | | | |
| | | 21,3 | | 4021.3- ** -H | | | | | |
| | | 22 | 7/8 | 4022- ** -H | 70 | 45 | 46,5 | 30,5 | |
| 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 | 4.4/0 | 5035- ** -H | 85 | 60 | 58 | 30,5 | |
| | | 38 | 1-1/2 | 5038-**-H | 3.35 | 2.36 | 2.28 | 1.20 | |
| | | 40 | | 5040-**-H | - | | | | |
| | | 41,3 42 | | 5041.3-**-H | | | | | |
| | | 38 | 1-1/2 | 5042-**-H 6038-**-H | | | | | |
| | | 42 | 1-1/2 | 6042-**-H | | | | | |
| | | 44,5 | 1-3/4 | 6044.5-**-H | | | | | |
| | | 44,5 | 1-3/4 | 6048.3-**-H | | | | | |
| | | 50,8 | 2 | 6050.8-**-H | 115 | 90 | 87 | 45 | |
| | | 55 | | 6055-**-H | 4.53 | 3.54 | 3.43 | 1.77 | |
| 6S | 4 | 57 | | 6057-**-H | 1.00 | 0.01 | 0.10 | 1.77 | |
| | | 57,2 | 2-1/4 | 6057.2-**-H | | | | | |
| | | 60,3 | 2 1/7 | 6060.3-**-H | | | | | |
| | | 63,5 | 2-1/2 | 6063.5-**-H | | | | | |
| | | 65 | 2 1/2 | 6065-**-H | | | | | |
| | | 70 | 2-3/4 | 6070-**-H | | | | | |
| | | 10 | 2-0/4 | 00/0-কক-11 | | | | | |

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 | Body Material | Dime | Dimensions | | | | | |
|----------|----|------------|------------|----------------------|------------------|----------------------|------------|-------------|-------------|-------|-------|--|--|
| <u>.</u> | | Pipe / T | ube / Hose | Clamp Assembly | Clamp Body | Insert * | (mm/in) | | | | | | |
| STAUFF | _ | Ø D | | (Clamp Body + | | | | | | | | | |
| ST/ | NO | (mm (in | | Insert | (2 Clamp Halves | | Ø D1 | L1 | L2 | Н | Width | | |
| | | 6 | | 4006-**-R | (| RI-06-4/4S | | | | | | | |
| | | 8 | 5/16 | 4008-**-R | | RI-08-4/4S | | | | | | | |
| | | 10 | | 4010-**-R | | RI-10-4/4S | | | | | | | |
| | | 12 | | 4012-**-R | | RI-12-4/4S | | | | | | | |
| | | 12,7 | 1/2 | 4012.7- ** -R | | RI-12.7-4/4S | | | | | | | |
| 4S | 2 | 14 | | 4014-**-R | 4S-**-R | RI-14-4/4S | 25 | 70 | 45 | 46,5 | 30,5 | | |
| | - | 15 | | 4015- ** -R | | 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 | 3/4 | 5020-**-R | | RI-20-6/5S | | | | | | | |
| | | 21,3 | | 5020- ** -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 | 1.20 | | |
| | | 28 | | 5028- ** -R | | RI-28-6/5S | 1.00 | 0.00 | 2.00 | 2.20 | 1.20 | | |
| | | 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 | | | | | | | |
| | | 35,7 | | 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 2.52 | 115 | 90 | 87 | 45 | | |
| 03 | 4 | | | 6045.5-**-R | 03- ** -n | RI-45.5-6S | | 4.53 | 3.54 | 3.43 | 1.77 | | |
| | | 45,5 48 | | 6048-**-R | | RI-45.5-65 | | | | | | | |
| | | 51 | 2 | 6051-**-R | | RI-40-05 | | | | | | | |
| | | _ | 2 | 6053.4-**-R | | RI-53.4-6S | - | | | | | | |
| | | 53,4 | | | | | | | | | | | |
| | | 56,4 | | 6056.4-**-R | | RI-56.4-6S | | | | | | | |
| | | 55 57 | 2-1/4 | 7055- ** -R | | RI-55-7S RI-57-7S | | | | | | | |
| | | 60 | 2-1/4 | 7057-**-R | | RI-60-7S | | | | | | | |
| | | | 0.1/0 | 7060- ** -R | | | 00 | 151 | 100 | 100 | 00 | | |
| 7S | 5 | 63,5 | 2-1/2 | 7063.5- ** -R | 7S-**-R | RI-63.5-7S | 3.56 | 154 6.06 | 122 4.80 | 120 | 2.36 | | |
| | | 65 70 | 0.0/4 | 7065- ** -R | | RI-65-7S | 3.30 | 0.00 | 4.00 | 4.72 | 2.30 | | |
| | | | 2-3/4 | 7070- ** -R | | RI-70-7S | | | | | | | |
| | | 72 76 | 3 | 7072-**-R | | RI-72-7S RI-76-7S | | | | | | | |
| | | - | 3 | 7076- ** -R | | | | | | | | | |
| 00 | | 80 | 0.1/0 | 8080- ** -R | 00 44 5 | RI-80-8S | 114 | 208 | 168 | 168 | 80 | | |
| 88 | 6 | 88,9 | 3-1/2 | 8088.9- ** -R | 8S-**-R | RI-88.9-8S | 4.49 | 8.11 | 6.61 | 6.61 | 3.15 | | |
| | | 102 | | 8102-**-R | | RI-102-8S | | | | | | | |
| 00 | 7 | 114 | E 4/4 | 9114-**-R | 00 444 0 | RI-114-9S | 150 | 251 | 205 | 200 | 91 | | |
| 98 | 7 | 133 | 5-1/4 | 9133- ** -R | 9S- ** -R | RI-133-9S | 5.91 | 9.88 | 8.07 | 7.87 | 3.58 | | |
| | | 140 | | 9140- ** -R | | RI-140-9S | | | | | | | |
| | | 150 | | 10150-**-R | | RI-150-10S | | | | | | | |
| 10S | 8 | 165 | | 10165- ** -R | 10S-**-R | RI-165-10S | 200 | 336 | 265 | 270 | 120 | | |
| | | 168 | | 10168-**-R | | RI-168-10S | 7.87 | 13.22 | 10.43 | 10.63 | 4.72 | | |
| | | 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 Codes | |
|--|-----------------------------------|
| Clamp Assembly | *4*006-*PP-R |
| One assembly is consisting | of one clamp body and one insert. |
| * 1st part of STAUFF Group | |
| * Exact outside diameter * Material code (see below | |
| Material code (see belo | , |
| Clamp Body | *4S-*PP-R |
| One clamp body is consist | ing of two clamp halves. |
| * STAUFF Group | 4S |
| * Material code (see below | w) PP-R |
| Elastomer Insert | *RI-*06-*4/4S |
| * Elastomer Insert | RI |
| * Exact outside diameter | ` ' |
| | eavy) and 4 (Standard) 4/4S |
| , | eavy) and 6 (Standard) 6/5S |
| 6S (He | ,, |
| 8S (He | ,, |
| 9S (He | |
| | |

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.

10S (Heavy)

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. $\label{eq:continuous}$

Product Features

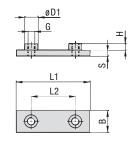
- Proven, tested and trusted product in various markets
- Either for the extra vibration/noise reducing installation of pipes and tubes or the extra gentle installation of hoses and cables
- Available for all commonly used outside diameters
- Excellent weathering resistance, even under extreme conditions

10S

ESTAUFF ®

Weld Plate for Single Clamps Type SPAL





Ordering Codes Weld Plate *SPAL-*3S-*M-*W2 * Weld Plate for Single Clamps SPAL * STAUFF Group 3S * Thread code Metric ISO thread Unified coarse (UNC) thread U * Material code Carbon Steel, uncoated Carbon Steel, phosphated 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) **W5**

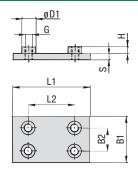
| Group | | Dimensi | ons (mm/in) | | | | | | Ordering Codes |
|--------|-----|---------|-------------|------|------|------|-------------|------|--------------------|
| STAUFF | DIN | L1 | L2 | В | S | Н | Thread G | ØD1 | (Standard Options) |
| 3S | 1 | 74 | 33 | 30 | 8 | 8 | M10 | 18 | SPAL-3S-M-W2 |
| 33 | 1 | 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 | 2 | 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 | 4 | 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 |
| 13 | 5 | 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 | / | 10.63 | 8.07 | 3.54 | .59 | .83 | 7/8-9 UNC | 1.38 | SPAL-9S-U-W1 |
| 108 | 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 | 9 | 520 | 395 | 160 | 30 | 38 | M30 | 50 | SPAL-11S-M-W1 |
| 113 | 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 |
| 123 | 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 Codes





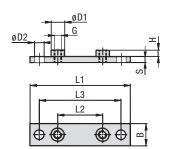
| Ordering G | oues | |
|--------------------|--|----------------|
| Weld Plate | *SPAS-*3S-*M-* | W2 |
| * Weld Plate for D | Oouble Clamps | SPAS |
| * STAUFF Group | | 3S |
| * Thread code | Metric ISO thread Unified coarse (UNC) thread | M U |
| * Material code | Carbon Steel, uncoated Carbon Steel,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

| Group | | Dimens | sions (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 |
| 45 | 2 | 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 |
| 55 | | 3.94 | 2.36 | 2.36 | 1.20 | .31 | .31 | 3/8-16 UNC | .71 | SPAS-5S-U-W2 |
| cc | 4 | 140 | 90 | 90 | 46 | 10 | 8 | M12 | 20 | SPAS-6S-M-W2 |
| 6S | 6 4 | 5.51 | 3.54 | 3.54 | 1.81 | .39 | .31 | 7/16-14 UNC | .78 | SPAS-6S-U-W2 |
| 70 | 5 | 180 | 122 | 120 | 61 | 10 | 12 | M16 | 24 | SPAS-7S-M-W2 |
| 7S | 5 | 7.09 | 4.80 | 4.72 | 2.40 | .39 | .47 | 5/8-11 UNC | .94 | SPAS-7S-U-W2 |
| 8S | 6 | 226 | 168 | 160 | 81 | 15 | 18 | M20 | 30 | SPAS-8S-M-W1 |
| 00 | O | 8.90 | 6.61 | 6.61 | 3.19 | .59 | .71 | 3/4-10 UNC | 1.18 | SPAS-8S-U-W1 |
| 00 | 7 | 270 | 205 | 180 | 91 | 15 | 21 | M24 | 35 | SPAS-9S-M-W1 |
| 9S | 1 | 10.63 | 8.07 | 7.09 | 3.58 | .59 | .83 | 7/8-9 UNC | 1.38 | SPAS-9S-U-W1 |
| 10S | 0 | 340 | 265 | 240 | 121 | 25 | 21 | M30 | 45 | SPAS-10S-M-W1 |
| 105 | 8 | 13.39 | 10.43 | 9.45 | 4.78 | .98 | .83 | 1-1/8-7 UNC | 1.77 | SPAS-10S-U-W1 |
| 110 | 0 | 520 | 395 | 324 | 166 | 30 | 38 | M30 | 50 | SPAS-11S-M-W1 |
| 11S | 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 | 10 | 680 | 534 | 364 | 186 | 30 | 38 | M30 | 50 | SPAS-12S-M-W1 |
| | 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.







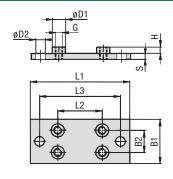
Elongated Weld Plate for Single Clamps Type SPAL-DUEB



| 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 | ' | 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 |
| 05 | 4 | 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 | 0 | 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 | <i>'</i> | 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 |
| 110 | 0 | 590 | 395 | 530 | 160 | 30 | 38 | M30 | 50 | 31 | SPAL-DUEB-11S-M-W1 |
| 115 | 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 |
| 125 | 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 3\$ * 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.



STA

øD1 L3 L2

Elongated Weld Plate for Double Clamps

Type SPAS-DUEB

Design for STAUFF Group 10S to 12S

| AUFF Group 3S to 9S | STAUFF Group 10S to 12S |
|---------------------|-------------------------|

| Group | | Dimer | sions (| (mm/in) | | | | | | | | Ordering Codes |
|--------|-----|-------|---------|---------|-------|------|------|------|-------------|------|------|--------------------|
| STAUFF | DIN | L1 | L2 | L3 | B1 | B2 | S | Н | Thread G | ØD1 | ØD2 | (Standard Options) |
| 3S | 1 | 113 | 33 | 85 | 60 | 30,5 | 8 | 8 | M10 | 18 | 13 | SPAS-DUEB-3S-M-W2 |
| 33 | 1 | 4.45 | 1.30 | 3.35 | 2.36 | 1.20 | .31 | .31 | 3/8-16 UNC | .71 | .51 | SPAS-DUEB-3S-U-W2 |
| 4S | 2 | 125 | 45 | 97 | 60 | 30,5 | 8 | 8 | M10 | 18 | 13 | SPAS-DUEB-4S-M-W2 |
| 43 | 2 | 4.92 | 1.77 | 3.82 | 2.36 | 1.20 | .31 | .31 | 3/8-16 UNC | .71 | .51 | SPAS-DUEB-4S-U-W2 |
| 5S | 3 | 140 | 60 | 112 | 60 | 30,5 | 8 | 8 | M10 | 18 | 13 | SPAS-DUEB-5S-M-W2 |
| 33 | J | 5.51 | 2.36 | 4.41 | 2.36 | 1.20 | .31 | .31 | 3/8-16 UNC | .71 | .51 | SPAS-DUEB-5S-U-W2 |
| 6S | 1 | 187 | 90 | 155 | 90 | 46 | 10 | 8 | M12 | 20 | 16 | SPAS-DUEB-6S-M-W2 |
| 03 | 4 | 7.36 | 3.54 | 6.10 | 3.54 | 1.81 | .39 | .31 | 7/16-14 UNC | .78 | .62 | SPAS-DUEB-6S-U-W2 |
| 7S | 5 | 238 | 122 | 198 | 120 | 61 | 10 | 12 | M16 | 24 | 21 | SPAS-DUEB-7S-M-W2 |
| 13 | 3 | 9.37 | 4.80 | 7.80 | 4.72 | 2.40 | .39 | .47 | 5/8-11 UNC | .94 | .83 | SPAS-DUEB-7S-U-W2 |
| 8S | 6 | 309 | 168 | 259 | 160 | 81 | 15 | 18 | M20 | 30 | 26 | SPAS-DUEB-8S-M-W1 |
| 03 | U | 12.17 | 6.61 | 10.20 | 6.61 | 3.19 | .59 | .71 | 3/4-10 UNC | 1.18 | 1.02 | SPAS-DUEB-8S-U-W1 |
| 98 | 7 | 370 | 205 | 310 | 180 | 91 | 15 | 21 | M24 | 35 | 31 | SPAS-DUEB-9S-M-W1 |
| 93 | 1 | 14.57 | 8.07 | 12.20 | 7.09 | 3.58 | .59 | .83 | 7/8-9 UNC | 1.38 | 1.22 | SPAS-DUEB-9S-U-W1 |
| 10S | 8 | 460 | 265 | 400 | 240 | 121 | 25 | 21 | M30 | 45 | 31 | SPAS-DUEB-10S-M-W1 |
| 103 | O | 18.11 | 10.43 | 15.75 | 9.45 | 4.78 | .98 | .83 | 1-1/8-7 UNC | 1.77 | 1.22 | SPAS-DUEB-10S-U-W1 |
| 11S | 9 | 590 | 395 | 530 | 324 | 166 | 30 | 38 | M30 | 50 | 31 | SPAS-DUEB-11S-M-W1 |
| 110 | 9 | 23.23 | 15.55 | 20.87 | 12.76 | 6.54 | 1.18 | 1.50 | 1-1/4-7 UNC | 1.97 | 1.22 | SPAS-DUEB-11S-U-W1 |
| 12S | 10 | 750 | 534 | 690 | 364 | 186 | 30 | 38 | M30 | 50 | 31 | SPAS-DUEB-12S-M-W1 |
| 123 | 10 | 29.53 | 21.02 | 27.17 | 14.33 | 7.32 | 1.18 | 1.50 | 1-1/4-7 UNC | 1.97 | 1.22 | SPAS-DUEB-12S-U-W1 |

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



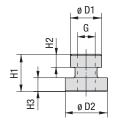
Weld Plate *SPAS-DUEB-*3S-*M-*W2

Ordering Codes

| * Elongated Weld | Plate for Double Clamps SPAS-D | UEB |
|------------------|---|----------------|
| * 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 |

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







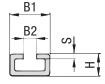
Ordering Codes Mounting Rail Nut *GMV-*3-5S*M-*W3 * Mounting Rail Nut GMV * STAUFF Group 3S to 5S (DIN Group 1 to 3) 3-5S 6S (DIN Group 4) 6S * Thread code Metric ISO thread M U Unified coarse (UNC) thread * Material code Carbon Steel, zinc/nickel-plated W3 Stainless Steel V2A 1.4301 / 1.4305 (AISI 304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

| Group Dimensions (mm/in) | | | | | | | | Ordering Codes | |
|--------------------------|-----|------|-----|-----|-----|-----|-------------|--------------------|--|
| STAUFF | DIN | ØD1 | ØD2 | H1 | H2 | Н3 | Thread G | (Standard Options) | |
| 3\$ | 1 | | | | | | | | |
| 4S | 2 | 17,8 | 24 | 21 | 7,6 | 7,4 | M10 | GMV-3-5S-M-W3 | |
| 45 | 2 | .70 | .94 | .83 | .30 | .29 | 3/8-16 UNC | GMV-3-5S-U-W3 | |
| 5S | 3 | | | | | | | | |
| cc | 4 | 19,8 | 24 | 23 | 8,8 | 8,8 | M12 | GMV-6S-M-W3 | |
| 6S | 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. $\label{thm:linear_equal} \textbf{Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.}$

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





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

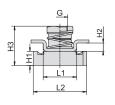
| Group | roup Dimensions (mm/in) | | | | Ordering Codes (Standard Options) | | |
|--------|-------------------------|------|-----|-----|-----------------------------------|------------------------------|-----------------------------|
| STAUFF | DIN | B1 | B2 | Н | S | Length of Rail: 1 m / 3.28ft | Length of Rail: 2m / 6.56ft |
| 3\$ | 1 | | | | | | |
| 48 | 2 | 40 | 13 | 22 | 5 | 0.707 414 114 | OTOV ON WA |
| 58 | 3 | 1.57 | .51 | .86 | .19 | STSV -1M-W1 | STSV -2M-W1 |
| 6S | 4 | | | | | | |

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



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







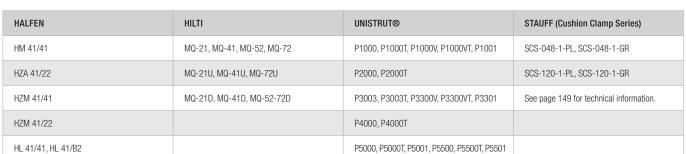
| Group | | Dimensions (mr | ¹/in) | | | | | | Dimensions (mm/in) | | | | | | | | |
|--------|-----|--------------------|-------|------|------|-----|------|-----|--------------------|------|--------------------|--|--|--|--|--|--|
| STAUFF | DIN | Thread G | L1 | L2 | L3 | B1 | B2 | H1 | H2 | Н3 | (Standard Options) | | | | | | |
| 3\$ | 1 | | | | | | | | | | | | | | | | |
| 4S | 2 | M10 | 22 | 35 | 38 | 22 | 20,5 | 9,2 | 5,5 | 27,5 | CRA-3-5S-M-W3 | | | | | | |
| 40 | | 3/8-16 UNC | .87 | 1.38 | 1.50 | .87 | .81 | .36 | .22 | 1.08 | CRA-3-5S-U-W3 | | | | | | |
| 5S | 3 | | | | | | | | | | | | | | | | |
| cc | 4 | M12 7/16–14 UNC | 21,5 | 35 | 45 | 25 | 19 | 9,2 | 5 | 27,5 | CRA-6S-M-W3 | | | | | | |
| 6S | 4 | | .85 | 1.38 | 1.77 | .98 | .75 | .36 | .20 | 1.08 | CRA-6S-U-W3 | | | | | | |

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

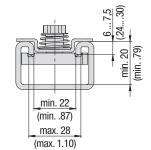
Ordering Codes *CRA-*3-5S-*M-*W3 **Adaptor** * Channel Rail Adaptor CRA * STAUFF Group 3S to 5S (DIN Group 1 to 3) 3-5S 6S (DIN Group 4) **6S** * Thread code Metric ISO thread M U Unified coarse (UNC) thread Carbon Steel, zinc/nickel-plated W3 * Material code Stainless Steel V4A 1.4401 / 1.4571 (AISI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

Compatibility with Channel Rails

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



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

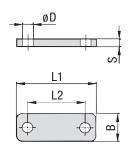
| Group | oup Hexagon Head Bolts AS (used with Cover Plates DPAL or DPAS) | | r Plates DPAL or DPAS) | Socket Cap Screws IS (used without Cover Plates DPAL or DPAS) | | | |
|------------|---|-------------------|-----------------------------|---|-----------------------------|--|--|
| STAUFF | DIN | Metric 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.



Cover Plate for Single Clamps Type DPAL





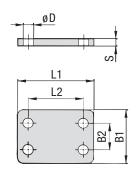
| Ordering C | odes *DPAL-*3S- | *W2 |
|-------------------|-----------------------------------|--------------|
| | | |
| * Cover Plate for | Single Clamps | DPAL |
| * STAUFF Group | | 3S |
| * Material code | Carbon Steel, uncoated | W1 |
| | Carbon Steel, phosphated | W2 |
| | Carbon Steel, zinc/nickel-plated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

| Group | | Dimensions (n | ^{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-WZ |
| 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-WZ |
| 6S | 4 | 115 | 90 | 45 | 10 | 14 | DPAL-6S-W2 |
| 03 | 4 | 4.53 | 3.54 | 1.77 | .39 | .55 | DFAL-03-WZ |
| 7S | 5 | 152 | 122 | 60 | 10 | 19 | DPAL-7S-W2 |
| 15 | 5 | 5.98 | 4.80 | 2.36 | .39 | .75 | DPAL-75-W2 |
| 8S | 6 | 206 | 168 | 80 | 15 | 22 | DDAL OC W4 |
| 00 | О | 8.11 | 6.61 | 3.15 | .59 | .87 | DPAL-8S-W1 |
| 98 | 7 | 251 | 205 | 90 | 15 | 26 | DPAL-9S-W1 |
| 95 | 1 | 9.88 | 8.07 | 3.54 | .59 | 1.02 | DPAL-95-W1 |
| 108 | 8 | 320 | 265 | 120 | 25 | 35 | DPAL-10S-W1 |
| 105 | ð | 12.60 | 10.43 | 4.72 | .98 | 1.38 | DPAL-105-W1 |
| 110 | 0 | 470 | 395 | 160 | 30 | 35 | DDAL 11C W1 |
| 118 | 9 | 18.50 | 15.55 | 6.30 | 1.18 | 1.38 | DPAL-11S-W1 |
| 100 | 10 | 630 | 534 | 180 | 30 | 35 | DDAL 400 W4 |
| 128 | 10 | 24.80 | 21.02 | 7.09 | 1.18 | 1.38 | DPAL-12S-W1 |

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

Cover Plate for Double Clamps Type DPAS





| Ordering C | odes | |
|-------------------|--|----------------|
| Cover Plate | *DPAS-*3S-* | W2 |
| * Cover Plate for | Double Clamps | DPAS |
| * STAUFF Group | | 3S |
| * 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 | | Dimension | ns (^{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 |
| 33 | 1 | 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 | 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 |
| 03 | 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 |
| 13 | 5 | 5.98 | 4.80 | 4.72 | 2.40 | .39 | .75 | DFA3-73-W2 |
| 8S | 6 | 206 | 168 | 160 | 81 | 15 | 22 | DPAS-8S-W1 |
| 03 | O | 8.11 | 6.61 | 6.61 | 3.19 | .59 | .87 | DFA3-03-W1 |
| 9S | 7 | 251 | 205 | 180 | 91 | 15 | 26 | DPAS-9S-W1 |
| 95 | 1 | 9.88 | 8.07 | 7.09 | 3.58 | .59 | 1.02 | DPA5-95-W1 |
| 10S | 8 | 320 | 265 | 240 | 121 | 25 | 35 | DPAS-10S-W1 |
| 103 | 0 | 12.60 | 10.43 | 9.45 | 4.78 | .98 | 1.38 | DLW9-109-M1 |
| 11S | 9 | 470 | 395 | 321 | 166 | 30 | 35 | DPAS-11S-W1 |
| 110 | 9 | 18.50 | 15.55 | 12.64 | 6.54 | 1.18 | 1.38 | DLW9-119-M1 |
| 12S | 10 | 630 | 534 | 361 | 186 | 30 | 35 | DPAS-12S-W1 |
| 123 | 10 | 24.80 | 21.02 | 14.21 | 7.32 | 1.18 | 1.38 | DFA3-123-W1 |

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



Hexagon Head Bolt Type AS



Hexagon Head Bolt AS

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

| Group STAUFF | DIN | Dimensions (mm/in) Thread G x L | Ordering Codes (Standard Options) |
|-----------------|-----|---------------------------------|--------------------------------------|
| 3S | 1 | M10 x 45 | AS-M10x45-W1 |
| 33 | ' | 3/8-16 UNC x 1-3/4 | AS-3/8-16UNCx1-3/4-W3* |
| 4S | 2 | M10 x 60 | AS-M10x60-W1 |
| 43 | 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 |
| 05 | 4 | 7/16–14 UNC x 4 | AS-7/16-14UNCx4-W3* |
| 70 | E | 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 |
| 03 | 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 | / | 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 |
| 11S | 9 | M30 x 450 | AS-M30x450-W1 |
| 119 | 9 | 1-1/4-7 UNC x 17-1/2 | AS-1-1/4-7UNCx17-1/2-W1 |
| 100 | 10 | M30 x 560 | AS-M30x250-W1 |
| 128 | 10 | 1-1/4–7 UNC x 22 | AS-1-1/4-7UNCx22-W1 |



Ordering Codes

Hexagon Head Bolt *AS-*M10x70-*W1

| · · | | |
|-------------------|--|----------|
| * Type of bolt | Hexagon Head Bolt (according to DIN 931 / 933 or ANSI / ASME B18.2.1.) | AS |
| * Thread type and | size acc. to dimension table 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 STAUFF | DIN | Dimensions (mm/ $_{ln}$) Thread G x L | Ordering Codes (Standard Options) |
|-----------------|-----|--|--------------------------------------|
| 3S | 4 | M10 x 30 | IS-M10x30-W1 |
| 33 | ' | 3/8-16 UNC x 1 | IS-3/8-16UNCx1-W3* |
| 40 | 0 | M10 x 40 | IS-M10x40-W1 |
| 4S | 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* |
| 00 | 4 | M12 x 80 | ISM12x80-W1 |
| 6S | 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

Socket Cap Screw *IS-*M10x50-*W1

| (6 | ocket Cap Screw according to ISO 4762 IS r ANSI / ASME B18.3) |
|----------------------|---|
| * Thread type and si | ze acc. to dimension table M10x50 |
| | arbon Steel, uncoated W1 arbon Steel, zinc/nickel-plated W3 |
| _ | tainless Steel V2A .4301 / 1.4305 (AISI 304 / 303) W4 |
| _ | tainless Steel V4A .4401 / 1.4571 (AISI 316 / 316 Ti) W5 |

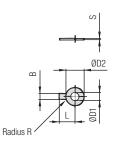


Safety Washer

(for Use with Hexagon Head Bolt AS)

Type SI (DIN 93)





Safety Washer SI

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

| Ordering 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 | | Dimension | 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 | ' | .41 | .39 | 1.02 | .87 | .16 | .03 | 31-10.3-DIN93-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 | 31-10.5-DIN95-W3 |
| 5S | 3 | 10,5 | 10 | 26 | 22 | 4 | 0,75 | SI-10.5-DIN93-W3 |
| 33 | 3 | .41 | .39 | 1.02 | .87 | .16 | .03 | 31-10.5-DIN95-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-DIN93-W3 |
| 7S | 5 | 17 | 15 | 36 | 32 | 6 | 1 | SI-17-DIN93-W3 |
| 13 | 3 | .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 | O | .83 | .71 | 1.65 | 1.42 | .24 | .04 | 31-21-DIN93-W3 |
| 98 | 7 | 25 | 20 | 50 | 42 | 6 | 1 | SI-25-DIN93-W3 |
| 93 | 1 | .98 | .79 | 1.97 | 1.65 | .24 | .04 | 31-23-DIN93-W3 |
| 10S | 8 | 31 | 26 | 63 | 52 | 10 | 1,6 | SI-31-DIN93-W3 |
| 105 | 0 | 1.22 | 1.02 | 2.48 | 2.05 | .39 | .06 | 21-31-DIN93-W3 |
| 11S | 9 | 31 | 26 | 63 | 52 | 10 | 1,6 | SI-31-DIN93-W3 |
| 115 | a | 1.22 | 1.02 | 2.48 | 2.05 | .39 | .06 | 91-31-01NB3-M3 |
| 100 | 10 | 31 | 26 | 63 | 52 | 10 | 1,6 | CL 24 DINO2 W2 |
| 128 | 10 | 1.22 | 1.02 | 2.48 | 2.05 | .39 | .06 | SI-31-DIN93-W3 |

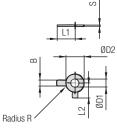
Safety Washers, type SI are used as locking devices to prevent Hexagon Head Bolts, type AS from loosening. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

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)

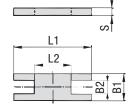
| Ordering Co | odes | |
|--------------------|--|-------|
| Safety Washer | *SI-*10.5-*DIN463-* | W3 |
| * Safety Washer | | SI |
| * Exact inner diam | eter ØD1 (mm) | 10.5 |
| * Type of washer | Safety washer with 2 tabs (according to DIN 463) | l 463 |
| * Material code | Carbon Steel, zinc/nickel-plated | 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 |
| 43 | 2 | .41 | .39 | .83 | .87 | .51 | .16 | .04 | 31-10.5-DIN403-W3 |
| 5S | 3 | 10,5 | 10 | 21 | 22 | 13 | 4 | 1 | SI-10.5-DIN463-W3 |
| 33 | 3 | .41 | .39 | .83 | .87 | .51 | .16 | .04 | 31-10.5-DIN403-W3 |
| 6S | 4 | 13 | 12 | 24 | 28 | 15 | 6 | 1 | SI-13-DIN463-W3 |
| 03 | 4 | .51 | .47 | .94 | 1.10 | .59 | .24 | .04 | 31-13-DIN403-W3 |
| 7S | 5 | 17 | 15 | 30 | 32 | 18 | 6 | 1 | SI-17-DIN463-W3 |
| 13 | 5 | .67 | .59 | 1.18 | 1.26 | .71 | .24 | .04 | 31-17-DIN403-W3 |
| 8S | 6 | 21 | 18 | 37 | 36 | 21 | 6 | 1 | SI-21-DIN463-W3 |
| 03 | O | .83 | .71 | 1.46 | 1.42 | .83 | .24 | .04 | 31-21-DIN403-W3 |
| 98 | 7 | 25 | 20 | 44 | 42 | 25 | 6 | 1 | SI-25-DIN463-W3 |
| 93 | ′ | .98 | .79 | 1.73 | 1.65 | .98 | .24 | .04 | 31-23-DIN403-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-DIN403-W3 |
| 11S | 9 | 31 | 26 | 56 | 52 | 32 | 10 | 1,6 | SI-31-DIN463-W3 |
| 113 | 9 | 1.22 | 1.02 | 2.20 | 2.05 | 1.26 | .39 | .06 | 31-31-DIN403-W3 |
| 12S | 10 | 31 | 26 | 56 | 52 | 32 | 10 | 1,6 | SI-31-DIN463-W3 |
| 123 | 10 | 1.22 | 1.02 | 2.20 | 2.05 | 1.26 | .39 | .06 | 01-01-DIN4-03-440 |

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 | | Dimension | ns (^{mm} /in) | | | | Ordering Codes |
|--------|-----|-----------|-------------------------|------|------|-----|--------------------|
| STAUFF | DIN | L1 | L2 | B1 | B2 | S | (Standard Options) |
| 3S | 1 | 57 | 13 | 30 | 15,2 | 8 | SIP-3S-W2 |
| 33 | ' | 2.24 | .51 | 1.18 | .60 | .31 | 31F-33-W2 |
| 4S | 2 | 70 | 26 | 30 | 15,2 | 8 | SIP-4S-W2 |
| 45 | 2 | 2.76 | 1.02 | 1.18 | .60 | .31 | 51P-45-W2 |
| 5S : | 3 | 85 | 40 | 30 | 15,2 | 8 | SIP-5S-W2 |
| 55 | 3 | 3.35 | 1.57 | 1.18 | .60 | .31 | SIP-55-W2 |
| 6S | 4 | 116 | 68 | 45 | 17,2 | 10 | SIP-6S-W2 |
| 05 | 4 | 4.57 | 2.68 | 1.77 | .68 | .39 | SIP-05-W2 |
| 70 | 5 | 153 | 96 | 60 | 22 | 10 | SIP-7S-W2 |
| 7S | 5 | 6.02 | 3.78 | 2.36 | .87 | .39 | SIP-75-W2 |
| 8S | 6 | 206 | 130 | 80 | 28 | 15 | SIP-8S-W1 |
| 00 | О | 8.11 | 5.12 | 3.15 | 1.10 | .59 | 215-02-M I |
| 00 | 7 | 251 | 166 | 90 | 31 | 15 | CID OC W4 |
| 9S | 7 | 9.88 | 6.54 | 3.54 | 1.22 | .59 | SIP-9S-W1 |
| 100 | 0 | 317 | 205 | 120 | 49 | 25 | CID 40 C W4 |
| 10S | 8 | 12.48 | 8.07 | 4.72 | 1.93 | .98 | SIP-10-S-W1 |

| Ordering C Safety Lockin | 1017 100 11 | N2 |
|-----------------------------|---|----------------------|
| * 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

Carbon Steel, phosphated

Ordering Codes

Stacking Bolt * Stacking Bolt

* STAUFF Group

* Thread code

* Material code

| Group | | Dimensions (| ^{nm} /in) | | | | Ordering Codes |
|--------|-----|--------------|--------------------|---------|------|-------------|--------------------|
| STAUFF | DIN | L1 | L2 | L3 min. | Hex | Thread G | (Standard Options) |
| 00 | 4 | 49 | 25 | 15 | 15 | M10 | AF-3S-M-W2 |
| 3S | | 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* |
| 5S | 3 | 77 | 51 | 15 | 15 | M10 | AF-5S-M-W2 |
| 33 | 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 |
| 03 | 4 | 4.33 | 3.23 | .71 | .67 | 7/16-14 UNC | AF-6S-U-W3* |
| 7S | 5 | 144 | 110 | 24 | 22 | M16 | AF-7S-M-W2 |
| 15 | 5 | 5.67 | 4.33 | .94 | .87 | 5/8-11 UNC | AF-7S-U-W3* |
| 8S | 6 | 200 | 150 | 30 | 27 | M20 | AF-8S-M-W2 |
| 00 | О | 7.87 | 5.91 | 1.18 | 1.06 | 3/4-10 UNC | AF-8S-U-W1* |
| 98 | 7 | 240 | 180 | 50 | 30 | M24 | AF-9S-M-W2 |
| 95 | 1 | 9.45 | 7.09 | 1.97 | 1.18 | 7/8-9 UNC | AF-9S-U-W1* |
| 108 | 8 | 331 | 256 | 62 | 46 | M30 | AF-10S-M-W2 |
| 103 | 0 | 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 Alternative materials and surface finishings are available upon request. Contact STAI

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



| /4-10 UNC | AF-8S-U-W1* | Carbon Steel, zinc/nickel-plated |
|----------------|--------------------|-------------------------------------|
| 124 | AF-9S-M-W2 | Garbon Steer, Zinc/nicker-plateu |
| /8-9 UNC | AF-9S-U-W1* | Stainless Steel V2A |
| 130 | AF-10S-M-W2 | 1.4301 / 1.4305 (AISI 304 / 303) |
| -1/8-7 UNC | AF-10S-U-W1* | Stainless Steel V4A |
| d according to | o dimension table. | 1.4401 / 1.4571 (AISI 316 / 316 Ti) |
| • | er 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



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 STAUFF | Outside Diameter P/T/H | | lity of Cla aterials & | | |
|-----------------|------------------------------|--------|---------------------------|---------|--------|
| (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 | Diameter | | lity of Gia | | |
|---------|----------|----------|-------------|-----------|--|
| CTALLET | Diameter | | aterials & | Designs | |
| STAUFF | P/T/H | Profiled | Town 1 12 | Town : Di | 0-4- |
| (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 |
| 4S | 17,2 | 0 | 0 | • | 4017.2 |
| (2) | 18 | 0 | 0 | • | 4018 |
| () | 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 |
| | 42 | • | • | • | |
| 6S | 44,5 | • | • | 0 | |
| (4) | 45,5 | 0 | 0 | • | 6045.5 |
| | 48 | 0 | 0 | • | |
| | 48,3 | • | • | 0 | |
| | 50,8 | • | • | 0 | |
| | 51 | 0 | 0 | • | |
| | 53,4 | 0 | 0 | • | |
| | 54 | • | 0 | 0 | |
| | J 1 | _ | | | 5041.3 5042 6032 6033.7 6035 6038 6038.7 6040 6042 6044.5 |

(2) Group Size & Diameter CONTINUATION

| Group STAUFF | Outside Diameter P/T/H | | lity of Cla aterials & | | |
|-----------------|------------------------------|--------|---------------------------|---------|------------|
| | | | Tuno U | Tuno DI | Cod |
| (DIN) | (mm) 55 | Design | Type H | Type RI | Cod 605 |
| 6S (4) | | 0 | _ | 0 | 605 |
| | 56,4 57 | • | • | 0 | |
| | | | | 0 | 605 |
| | 57,2 | • | • | | 605 |
| | 60,3 | • | • | 0 | 606 |
| | 63,5 | • | • | 0 | 606 |
| | 65 | • | • | 0 | 606 |
| | 70 | • | • | 0 | 607 |
| | 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 |
| 7S | 70 | • | 0 | • | 707 |
| (5) | 72 | 0 | 0 | • | 707 |
| | 73 | • | 0 | 0 | 707 |
| | 75 | • | 0 | 0 | 707 |
| | 76 | 0 | 0 | • | 707 |
| | 76,1 | • | 0 | 0 | 707 |
| | 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 | 810 |
| 8S | 102 | • | 0 | • | 810 |
| (6) | 108 | • | 0 | 0 | 810 |
| | 114 | • | 0 | 0 | 8114 |
| | 127 | • | 0 | 0 | 812 |
| | 133 | • | 0 | 0 | 813 |
| | 114 | 0 | 0 | • | 911 |
| | 127 | • | 0 | 0 | 912 |
| | 133 | • | 0 | • | 913 |
| 9S | 140 | • | 0 | • | 914 |
| (7) | 152 | • | 0 | 0 | 915 |
| | 159 | • | 0 | 0 | 915 |
| | 165 | • | 0 | 0 | 916 |
| | 168 | • | 0 | 0 | 916 |
| | 150 | 0 | 0 | • | 101 |
| | 165 | 0 | 0 | • | 1010 |
| | 168 | • | 0 | • | 1010 |
| 100 | 172 | 0 | 0 | • | 101 |
| 10\$ | 177,8 | • | 0 | 0 | 1017 |
| (8) | 193,7 | • | 0 | 0 | 1019 |
| | 203 | • | 0 | 0 | 102 |
| | 216 | • | 0 | 0 | 102 |
| | 219 | • | 0 | 0 | 102 |
| 440 | 219 | • | 0 | 0 | 112 |
| 118 | 273 | • | 0 | 0 | 112 |
| (9) | 324 | • | 0 | 0 | 113 |
| 12S | 356 | • | 0 | 0 | 123 |
| (10) | 406 | | 0 | 0 | 124 |

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)



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

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

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

(4) Mounting & Fitting Combination

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

Installation with Cover Plate and Bolts

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

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

Cover Plate for Single Clamps DPAL with Socket Cap Screws IS*

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

Installation with Locking Plate and Bolts

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

Installation with Bolts only

Socket Cap Screws IS Code: IS

Special lengths of Socket Cap Screws IS required. For exact lenghts, 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: II

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

(6) Material & Surface Finishing

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

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

| Weld Plate and Cover Plate made of Carbon Steel, | W40 |
|--|-----|
| 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: | W16 |

Bolts 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; W18 Stacking Bolts made of Carbon Steel, phosphated

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

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

7 Assembling & Kitting

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

Components supplied separately Code: none (standard option)

Components assembled Code: A (special option)

Components packed in kits Code: K (special option)





2x Hexagon Head Bolt

Surface: W1 Thread: Metric

1x Cover Plate for Single Clamps

Surface: W2

1x Clamp Body (two halves) STAUFF Group 3S (DIN 1)

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 Profiled inside surface with tension clearance

1x Elongated Weld Plate for Single Clamps

Surface: W2 Thread: Metric



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

are the standard options for this type of installation.

W12 (STAUFF Group 3S to 7S) and W1 (STAUFF Group 8S to 12S)

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



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.

M





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

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

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

Material codes

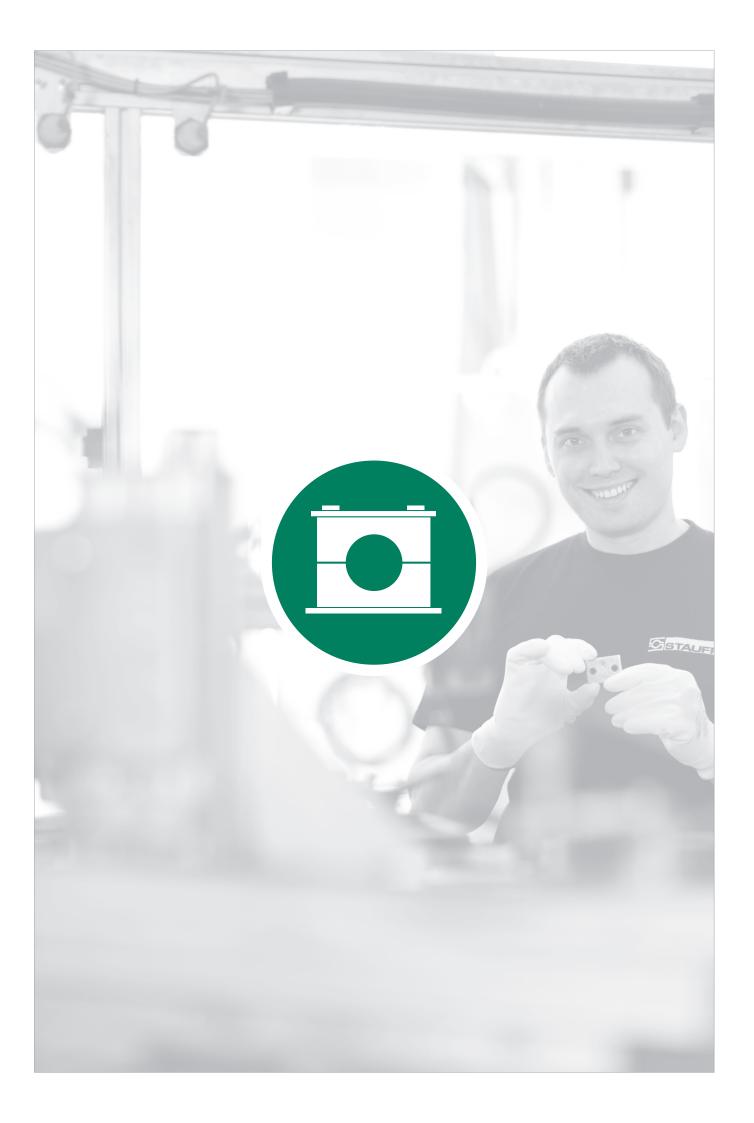
The below listed material codes describe the materials and surface finishings of metal parts that are most relevant for Heavy Series clamp assemblies. Individual combinations of alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

| 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 / 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 | W10 |
| Weld Plate and Cover Plate made of Carbon Steel, phosphated; Bolts made of Carbon Steel, uncoated | W12 |
| Mounting Rails Nut made of Carbon Steel, zinc/nickel-plated; Cover Plate made of Carbon Steel, phosphated; Bolts made of Carbon Steel, uncoated | W13 |
| Weld Plate and Cover Plate made of Carbon Steel, phosphated; Bolts made of Carbon Steel, zinc/nickel-plated | W15 |
| Mounting Rail Nuts made of Carbon Steel, zinc/nickel-plated; Cover Plate made of Carbon Steel, phosphated; Bolts made of Carbon Steel, zinc/nickel-plated | W16 |
| Safety Locking Plate made of Carbon Steel, phosphated; Bolts made of Carbon Steel, zinc/nickel-plated | W17 |
| Safety Locking Plate made of Carbon Steel, uncoated; Bolts made of Carbon Steel, phosphated | W18 |
| Cover Plate made of Carbon Steel, phosphated; Bolts made of Carbon Steel, uncoated | W19 |

Order Code

3006-PP-SIP-AF-M-W2

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



55

58

62





Clamp Body

Profiled Inside Surface with Tension Clearance



54

Single Weld Plate

SP

RAP

CRA

GD

AS

Group Weld Plate

55

Hexagon Rail Nut 56 SM / SMG

Mounting Rail 56 TS

Channel Rail Adaptor

Cover Plate

Hexagon Head Bolt 58

Socket Cap Screw 59 IS

Safety Locking Plate 60

Safety Locking Plate 60 SIV

Stacking Bolt AF

Clamp Assemblies

Clamp Body

Smooth Inside Surface without Tension Clearance



ESTAUFF ®

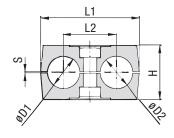
Clamp Body • Profiled Design

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 bases 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 | | | Diameter be / Hose | Nomin | al Bore Copper Tube | Ordering Codes (2 Clamp Halves) | Dimensions (mm/in) | | | | | |
|--------|-----|----------|-----------------------|-------|------------------------|------------------------------------|--------------------|------------|------------|----------|------------|-------|
| STAUFF | NIO | Ø D1 / Ø | | Pipe | ASTM B88 | | | | | d Design | | |
| S | Ω | (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 |
| | | 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-**-* | 2.30 | | | | | |
| | | 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 |
| 30 | 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-**-* | 80 3.15 | 45 1.77 | 40 1.57 | .03 | 38 1.46 | 30 |
| | | 30 | | | | 430/30-**-* | | | | | | |
| | | 32 | 1-1/4 | | | 532/32-**-* | | | | | | |
| | | 33,7 | | 1 | | 533.7/33.7-**-* | | | | | | |
| 5D | 5 | 35 | | | 1-1/4 | 535/35-**-* | 106 | 56 | 53 | 0,7 | 52 | 30 |
| JD | J | 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-**-* | | | | | | |

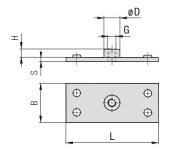
Additional outside diameters and combinations of different outside diameters are available upon request. Please contact STAUFF for further information.

www.stauff.com/1/en/#54

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Single Weld Plate Type SP

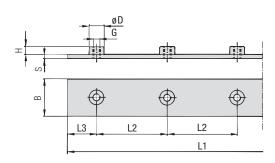




| Group | oup Dimensions (mm/in) | | | | | | | Ordering Codes |
|--------|------------------------|------|------|-----|-----|-----|-------------|--------------------|
| STAUFF | DIN | L | В | S | Н | ØD | Thread G | (Standard Options) |
| 1D | 1 | 37 | 30 | 3 | 6,5 | 12 | M6 | SP-1D-M-W2 |
| טו | | 1.46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

| Ordering C | odes | |
|-------------------|---|-----------|
| Weld Plate | *SP-*1D-*M-*V | V2 |
| * Single Weld Pla | te | SP |
| * STAUFF Group | | 1D |
| * Thread code | Metric ISO thread Unified coarse (UNC) thread | M U |
| * Material code | carbon croon, pricopriated | W2 W3 |
| | Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303) | W4 |
| | Stainless Steel V4A | 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 | | 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 | 2 | 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 |
| ЗU | 3 | 14.09 | 2.83 | 1.37 | 1.18 | .20 | .24 | .55 | 5/16-18 UNC | RAP-3D-72-5-U-W1 |
| 4D | 4 | 444 | 90 | 42 | 30 | 5 | 6 | 14 | M8 | RAP-4D-90-5-M-W1 |
| 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 |
| อบ | S | 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.

| odes *RAP-*1D-*40-*5-*M-* | W1 |
|-------------------------------------|---|
| | |
| te | RAP |
| | 1D |
| | |
| acing L2 (mm) | 40 |
| nps | 5 |
| Metric ISO thread | М |
| Unified coarse (UNC) thread | U |
| 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 | 14/5 |
| 1.4401 / 1.4571 (AISI 316 / 316 Ti) | W5 |
| | *RAP-*1D-*40-*5-*M-* te acing L2 (mm) nps Metric ISO thread Unified coarse (UNC) thread Carbon Steel, uncoated Carbon Steel, phosphated Carbon Steel, zinc/nickel-plated Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303) Stainless Steel V4A |

Hexagon Rail Nut

(for Use with Mounting Rail TS)

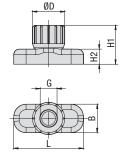
Type SM / SMG



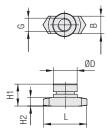


STAUFF Group 1D

STAUFF Group 2D to 5D



STAUFF Group 1D



STAUFF Group 2D to 5D

Ordering Codes

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

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

| Group | | Dimensions (mr | | 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.

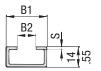
Mounting Rail

(for Use with Hexagon Rail Nut SM / SMG)

Type TS









Mounting Rail TS-11

Mounting Rail TS-14

Mounting Rail TS-30

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

| Group | | Dimensions (mm/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 | |
| 2D | 2 | | | | | | |
| | | | | | | | |
| 3D | 3 | 28 | 11 | 2 | Height 14 mm / .55 in | Height 14 mm / .55 in | |
| OD | | 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

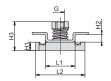
STAUFF DIN

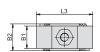
2

3

4

5





Thread G

1/4-20 UNC

5/16-18 UNC

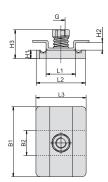
5/16-18 UNC

M8

M8

STAUFF Group 1D

Dimensions (mm/in)



STAUFF Group 2-3D / 4-5D

Н3

20,5

.81

23,5

.93

23,5

H2

5,5

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

.24 .22

.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.

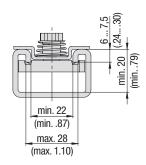


Compatibility with Channel Rails

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.

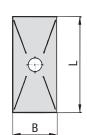


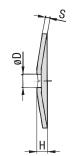
Basic dimensional requirements for channel rails to be used with STAUFF Channel Rail Adaptors, type CRA

Dimensional drawings: All dimensions in mm (in).



Cover Plate Type GD







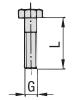
| Ordering C | odes | |
|-----------------|---|----------|
| Cover Plate | *GD-*1D-*\ | N3 |
| * Cover Plate | | GD |
| * STAUFF Group | | 1D |
| * Material code | Carbon Steel, zinc/nickel-plated | W3 |
| | Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303) Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti) | W4 W5 |
| | 1.4401 / 1.407 1 (Aloi 310 / 310 II) | |

| Group | DIN | Dimension | | | C | an. | Ordering Codes |
|--------|-----|-----------|------|-----|-----|-----|--------------------|
| STAUFF | DIN | L | В | Н | S | ØD | (Standard Options) |
| 1D | 1 | 34 | 30 | 7 | 3 | 7 | GD-1D-W3 |
| IU | ı | 1.34 | 1.18 | .28 | .12 | .28 | dD-ID-W3 |
| an. | 2 | 52 | 30 | 7 | 3 | 9 | CD OD WO |
| 2D | 2 | 2.05 | 1.18 | .28 | .12 | .35 | GD-2D-W3 |
| an. | 3 | 65 | 30 | 7 | 3 | 9 | GD-3D-W3 |
| 3D | 3 | 2.56 | 1.18 | .28 | .12 | .35 | GD-3D-W3 |
| 4D | 4 | 79 | 30 | 7 | 3 | 9 | GD-4D-W3 |
| 40 | 4 | 3.11 | 1.18 | .28 | .12 | .35 | UD-4D-₩3 |
| ED. | 5 | 102 | 30 | 7 | 3 | 9 | GD-5D-W3 |
| 5D | 5 | 4.02 | 1.18 | .28 | .12 | .35 | นบ-อบ-พ3 |

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

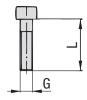
Ordering Codes Hexagon Head Bolt *AS-*M8x35-*W3 * Type of bolt Hexagon Head Bolt (according to DIN 931 / 933 AS or ANSI / ASME B18.2.1.) * Thread type and size acc. to dimension table * Material code Carbon Steel, zinc/nickel-plated Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303) Stainless Steel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

| Group STAUFF | DIN | Dimensions (mm/n) Thread G x L | Ordering Codes (Standard Options) |
|-----------------|-----|--------------------------------|--------------------------------------|
| 1D | 1 | M6 x 35 | AS-M6x35-W3 |
| טו | | 1/4–20 UNC x 1-3/8 | AS-1/4-20UNCx1-3/8-W3 |
| 2D | 2 | M8 x 35 | AS-M8x35-W3 |
| 20 | 2 | 5/16–18 UNC x 1-3/8 | AS-5/16-18UNCx1-3/8-W3 |
| 3D | 3 | M8 x 45 | AS-M8x45-W3 |
| ЗП | | 5/16–18 UNC x 1-3/4 | AS-5/16-18UNCx1-3/4-W3 |
| 4D | 4 | M8 x 50 | AS-M8x50-W3 |
| 40 | 4 | 5/16–18 UNC x 2 | AS-5/16-18UNCx2-W3 |
| ED | _ | 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.



Socket Cap Screw Type IS



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



| Group STAUFF | DIN | Dimensions (mm/in) Thread G x L | Ordering Codes (Standard Options) |
|-----------------|-----|---------------------------------|--------------------------------------|
| 1D | 1 | M6 x 35 | IS-M6x35-W3 |
| טו | ı | 1/4–20 UNC x 1-3/8 | IS-1/4-20UNCx1-3/8-W3 |
| 2D | 2 | M8 x 35 | IS-M8x35-W3 |
| 20 | 2 | 5/16–18 UNC x 1-3/8 | IS-5/16-18UNCx1-3/8-W3 |
| 3D | 3 | M8 x 45 | IS-M8x45-W3 |
| ЗU | | 5/16–18 UNC x 1-3/4 | IS-5/16-18UNCx1-3/4-W3 |
| 40 | 4 | M8 x 50 | IS-M8x50-W3 |
| 4D | 4 | 5/16–18 UNC x 2 | IS-5/16-18UNCx2-W3 |
| - D | - | M8 x 60 | IS-M8x60-W3 |
| 5D | 5 | 5/16–18 UNC x 2-1/2 | IS-5/16-18UNCx2-1/2-W3 |

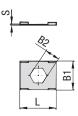
| Ordering C | odes | |
|-------------------|---|----------|
| Hexagon Hea | d Bolt *IS-*M8x35-*\ | N3 |
| * Type of bolt | Socket Cap Screw (according to ISO 4762 or ANSI / ASME B18.3) | IS |
| * Thread type and | I size acc. to dimension table M8 | 3x35 |
| * Material code | Carbon Steel, zinc/nickel-plated | 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 Co | odes | |
|--------------------|--|------------|
| Safety Lockin | g Plate *SI-*1D-* | W3 |
| * Safety Locking P | late | SI |
| * STAUFF Group | 1D (DIN Group 1) 2D to 5D (DIN Group 2 to 5) | 1D 2-5D |
| * Material code | Carbon Steel, zinc/nickel-plated | W3 |
| | Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303) Stainless Steel V4A | W4 |
| | 1.4401 / 1.4571 (AISI 316 / 316 Ti) | W5 |

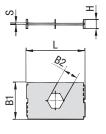
| Group | DIN | Dimensions (mm/in) | | DO. | | Ordering Codes |
|--------|-----|--------------------|-----|------|-----|--------------------|
| STAUFF | DIN | L | B1 | B2 | S | (Standard Options) |
| 1D | 1 | 27 | 22 | 11,2 | 0,5 | SI-1D-W3 |
| טו | ' | 1.06 | .86 | .44 | .02 | 31-1D-W3 |
| 2D | 2 | | | | | |
| 3D | 3 | 27 | 22 | 12,2 | 0,5 | 01.0 0 1110 |
| 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)

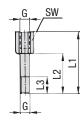
| Ordering Co | odes | |
|--------------------|--|------------|
| Safety Lockin | g Plate *SIV-*1D-* | W3 |
| * Safety Locking F | Plate | SIV |
| * STAUFF Group | 1D (DIN Group 1) 2D to 3D (DIN Group 2 to 3) | 1D 2-3D |
| * Material code | Carbon Steel, zinc/nickel-plated | W3 |
| | Stainless Steel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

| Group | | Dimensions (" | nm/in) | | | | Ordering Codes |
|--------|-----|---------------|--------|------|-----|-----|--------------------|
| STAUFF | DIN | L | B1 | B2 | S | Н | (Standard Options) |
| 1D | 1 | 27 | 28 | 11,1 | 1 | 7 | SIV-1D-W3 |
| וט | 1 | 1.06 | 1.10 | .44 | .04 | .27 | SIV-ID-WS |
| 2D | 2 | 45 | 28 | 12,1 | 1 | 7 | SIV-2-3D-W3 |
| 3D | 3 | 1.77 | 1.10 | .48 | .04 | .27 | 51V-2-3U-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 (mi | Ordering Codes | | | | |
|--------|-----|----------------|----------------|------|---------|-----|--------------------|
| STAUFF | DIN | Thread G | L1 | L2 | L3 min. | Hex | (Standard Options) |
| 1D | 1 | M6 | 34 | 20 | 12 | 11 | AF-1D-M-W3 |
| טו | I | 1/4-20 UNC | 1.33 | .78 | .47 | .43 | AF-1D-U-W3 |
| an. | 2 | M8 | 33 | 20 | 12 | 12 | AF-2D-M-W3 |
| 2D | 2 | 5/16-18 UNC | 1.30 | .78 | .47 | .47 | AF-2D-U-W3 |
| 3D | 3 | M8 | 44 | 29 | 12 | 12 | AF-3D-M-W3 |
| ЗU | 3 | 5/16-18 UNC | 1.73 | 1.14 | .47 | .47 | AF-3D-U-W3 |
| 4D | 4 | M8 | 49 | 34 | 12 | 12 | AF-4D-M-W3 |
| 40 | 4 | 5/16-18 UNC | 1.92 | 1.33 | .47 | .47 | AF-4D-U-W3 |
| ED. | 5 | M8 | 61 | 46 | 12 | 12 | AF-5D-M-W3 |
| 5D | 5 | 5/16-18 UNC | 2.40 | 1.81 | .47 | .47 | AF-5D-U-W3 |

| Ordering Co Stacking Bolt | 44E 44B 444 4440 |
|------------------------------|--|
| * Stacking Bolt | AF |
| * STAUFF Group | 1D |
| * Thread code | Metric ISO thread M Unified coarse (UNC) thread U |
| * Material code | Carbon Steel, zinc/nickel-plated W3 |
| | Stainless Steel V2A |

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



Group Weld Plate

Code: RAP

Installation on Mounting / Channel Rail



Mounting Rail Nut

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



Channel Rail Adaptor

Code: CRA

2 Group Size & Diameters

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

| Group | Outside | Availability of | Clamp | |
|---------------|----------|-----------------------|-----------|------------|
| | Diameter | Body Materials | & Designs | |
| STAUFF | P/T/H | Profiled | Type | |
| (DIN) | (mm) | Design | Н | Code |
| 1D | 6 | • | • | 106/06 |
| | 6,4 | • | • | 106.4/06.4 |
| | 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 |
| an. | 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 |
| 40 | 26,9 | • | • | 426.9/26.9 |
| 4D | 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

Polyamide

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 **(S)** 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

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.

7 Assembling & Kitting

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

Components supplied separately

Code: **none** (standard option)

Components assembled Code: A (special option)

Components packed in kits Code: K (special option)

Standard Option







1x Hexagon Head Bolt

Surface: W3 Thread: Metric

1x Cover Plate

Surface: W3

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

1x Weld Plate

Surface: W2 Thread: Metric



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

Order Code

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

W10 is the standard option for this type of installation.



1x Stacking Bolt

Surface: W3 Thread: Metric

1x Safety Locking Plate (Type SI)

Surface: W3 Thread: Metric

1x Clamp Body (two halves)

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



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

W3 is the standard option for this type of installation.

1x Stacking Bolt

Surface: W3 Thread: Metric

1x Safety Locking Plate (Type 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

 $\boldsymbol{W3}$ 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

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

W4 W5

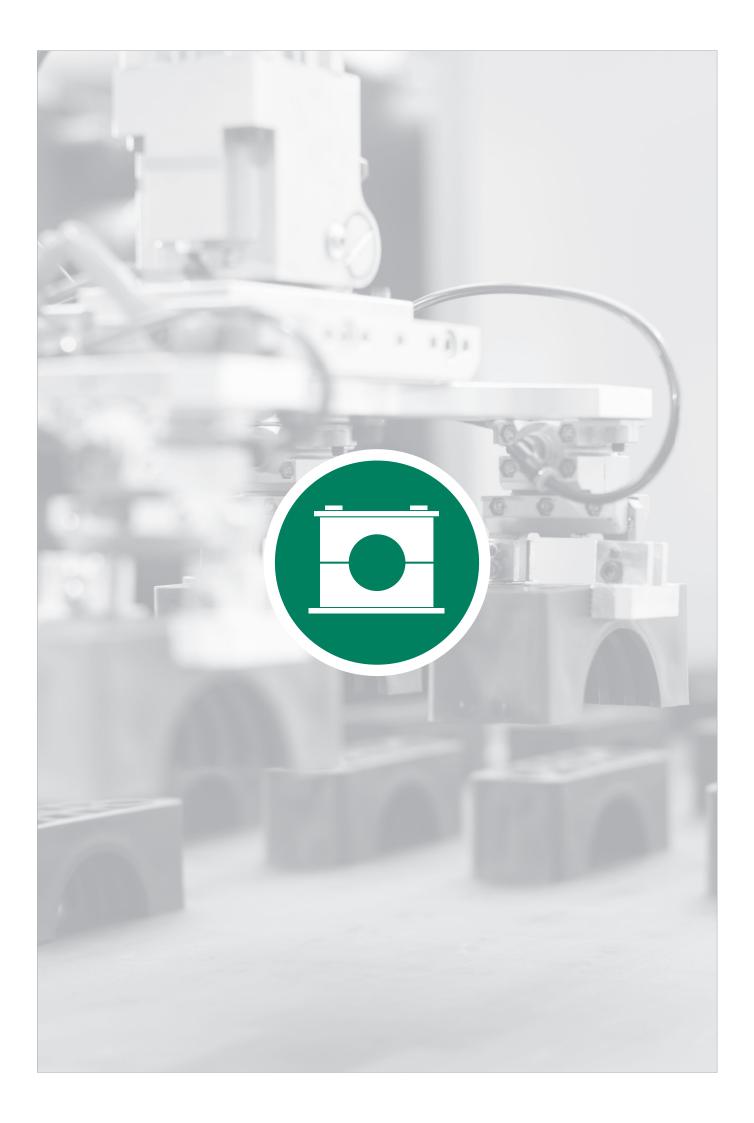
Metal parts made of Stainless Steel V4A: 1.4401 / 1.4571 (AISI 316 / 316 Ti)

WO

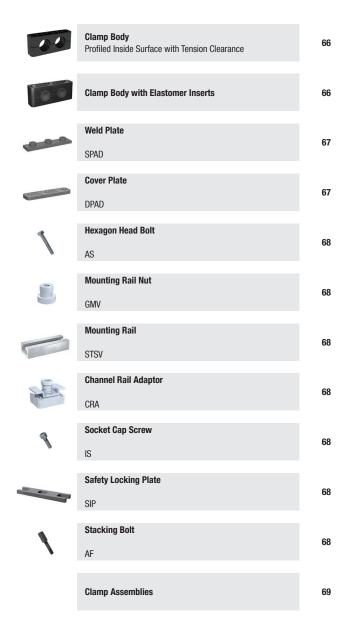
Weld Plate made of Carbon Steel, phosphated Other metal parts made of Carbon Steel, zinc/nickel-plated

W10





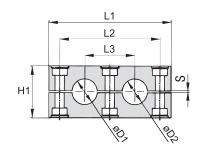




Clamp Body • Profiled Design

Profiled Inside Surface with Tension Clearance





Ordering Codes

*4*012.7/12.7-*PP **Clamp Body**

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)

Standard Materials



Polypropylene Colour: Green Material code: PP



Polyamide Colour: Black Material code: PA

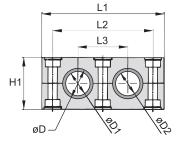
See pages 154 / 155 for material properties and technical information.

| Group | Outside Diameter Pipe / Tube Ø D1 / Ø D2 | | Nomina | I Bore | Ordering Codes | Dimensions (mm/in) | | | | | |
|--------|--|-------|--------|-------------------------|--------------------|--------------------|------------|------|------|-----|-------|
| | | | Pipe | Copper Tube ASTM B88 | e (2 Clamp Halves) | | | | | | |
| STAUFF | (mm) | (in) | (in) | (in) | (** = Material) | L1 | L2 | L3 | H1 | S | Widtl |
| | 12,7 | 1/2 | | 3/8 | 4012.7/12.7-** | | | | | | |
| | 19 | 3/4 | | | 4019/19-** | | | | | | |
| | 20 | | | | 4020/20-** | 115 | 00 | 45 | 40 | 1.0 | 20 |
| 4S-D | 21,3 | | 1/2 | | 4021.3/21.3-** | 115 4.53 | 90 3.54 | 1.77 | 1.89 | 1,2 | 1.18 |
| | 22 | | | 3/4 | 4022/22-** | 4.00 | 3.04 | 1.77 | 1.09 | .05 | 1.10 |
| | 25,4 | 1 | | | 4025.4/25.4-** | | | | | | |
| | 26,9 | | 3/4 | | 4026.9/26.9-** | | | | | | |
| | 32 | 1-1/4 | | | 5032/32-** | | | | | | |
| 5S-D | 33,7 | | 1 | | 5033.7/33.7-** | 145 | 120 | 60 | 60 | 2,0 | 30 |
| 55-ท | 38 | 1-1/2 | | | 5038/38-** | 5.71 | 4.72 | 2.36 | 2.36 | .08 | 1.18 |
| | 42 | | 1-1/4 | | 5042/42-** | | | | | | |

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

Clamp Body with Elastomer Inserts Type RI





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

(mm/in)

Ø D

25

.98

38

1.50

L1

115

4.53

145

5.71

12

90

3.54

120

4.72

13

45

60

2.36

1.77

Н1

48

60

2.36

1.89

Width

30

1.18

30

1.18

Ordering Codes

(Clamp Assembly)

(**R = Material)

4006/06-**-R

4008/08-**-R

4010/10-**-R

4012/12-**-R

4014/14-******-R

4015/15-**-R

4016/16-**-R

4018/18-**-R

4019/19-**-R

5020/20-**-R

5022/22-**-R

5025/25-**-R

5028/28-**-R

5030/30-**-R

5021.3/21.3-**-R

5026.9/26.9-**-R

4012.7/12.7-******-R

4017.2/17.2-**-R

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

STAUFF

4S-D

5S-D

Outside Diameter

Pipe / Tube / Hose

(in)

5/16

1/2

5/8

3/4

7/8

1-1/4

Ø D1 / Ø D2

(mm)

8

10

12

14

15

16 17,2

18

19

20

22

25

28

30

32

26.9

21,3

12,7

Standard Materials



Polypropylene Colour: Black Material code: PP-R

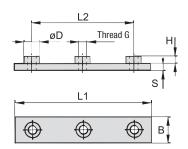




Flastomer Inserts Thermoplastic Elastomer (73 Shore-A) Colour: Black

5032/32-**-R See pages 154 / 155 for properties and technical information. Additional outside diameters are available upon request. Please contact STAUFF for further information.







Cover Plate

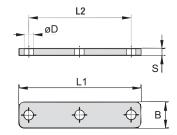
Type DPAD



| 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 |
| 45-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 |
| | 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 U Unified coarse (UNC) thread * 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 1.4401 / 1.4571 (AISI 316 / 316 Ti)



0 0

| Group | Dimensions | S (mm/in) | Ordering Codes | | | |
|--------|------------|--------------|----------------|-----|-----|--------------------|
| STAUFF | L1 | L2 | В | S | ØD | (Standard Options) |
| 40 | 115 | 5 90 30 8 11 | DDAD 4C W1* | | | |
| 48 | 4.53 | 3.54 | 1.18 | .31 | .43 | DPAD-4S-W1* |
| 5S | 145 | 120 | 30 | 8 | 11 | DDAD EC W4* |
| 55 | 5.71 | 4.72 | 1.18 | .31 | .43 | DPAD-5S-W1* |

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

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

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

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



Hexagon Head Bolt Type AS





Hexagon Head Bolt AS

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

| Ordering Codes | | | | | | | |
|-------------------|--|----------|--|--|--|--|--|
| Hexagon Hea | d Bolt *AS-*M10x70-* | W1 | | | | | |
| * Type of bolt | Hexagon Head Bolt (according to DIN 931 / 933 or ANSI / ASME B18.2.1.) | AS | | | | | |
| * Thread type and | I 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)

| Group STAUFF | DIN | Dimensions (mm/in) Thread G x L | Ordering Codes (Standard Options) |
|-----------------|-----|---------------------------------|--------------------------------------|
| 4S | 2 | M10 x 60 | AS-M10x60-W1 |
| 43 | 2 | 3/8–16 UNC x 2-1/4 | AS-3/8-16UNCx2-1/4-W3* |
| 5S | 0 | M10 x 70 | AS-M10x70-W1 |
| 33 | 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)



Mounting Rail Type STSV

Heavy Series (See page 42 for details)



Channel Rail Adaptor Type CRA

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



Socket Cap Screw Type IS

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



Safety Locking Plate Type SIPD

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



Stacking Bolt Type AF

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







1 Type of Installation

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



Without Installation Equipment

Code: none

Installation on Weld Plate



Single Weld Plate Code: SPAD

Installation on Mounting / Channel Rail



Mounting Rail Nut



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 P/T/H | Availability Body Materia Profiled | of Clamp als & Designs | |
|--------|------------------------------|--|---------------------------|-------------|
| STAUFF | (mm) | Design | Type RI | Code |
| | 6 | 0 | • | 4006/06 |
| | 8 | 0 | • | 4008/08 |
| | 10 | 0 | • | 4010/10 |
| | 12 | 0 | • | 4012/12 |
| | 12,7 | • | • | 4012.7/12.7 |
| | 14 | 0 | • | 4014/14 |
| | 15 | 0 | • | 4015/15 |
| 40 D | 16 | 0 | • | 4016/16 |
| 4S-D | 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 ③ 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 W10

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

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

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;

W16

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

W18

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

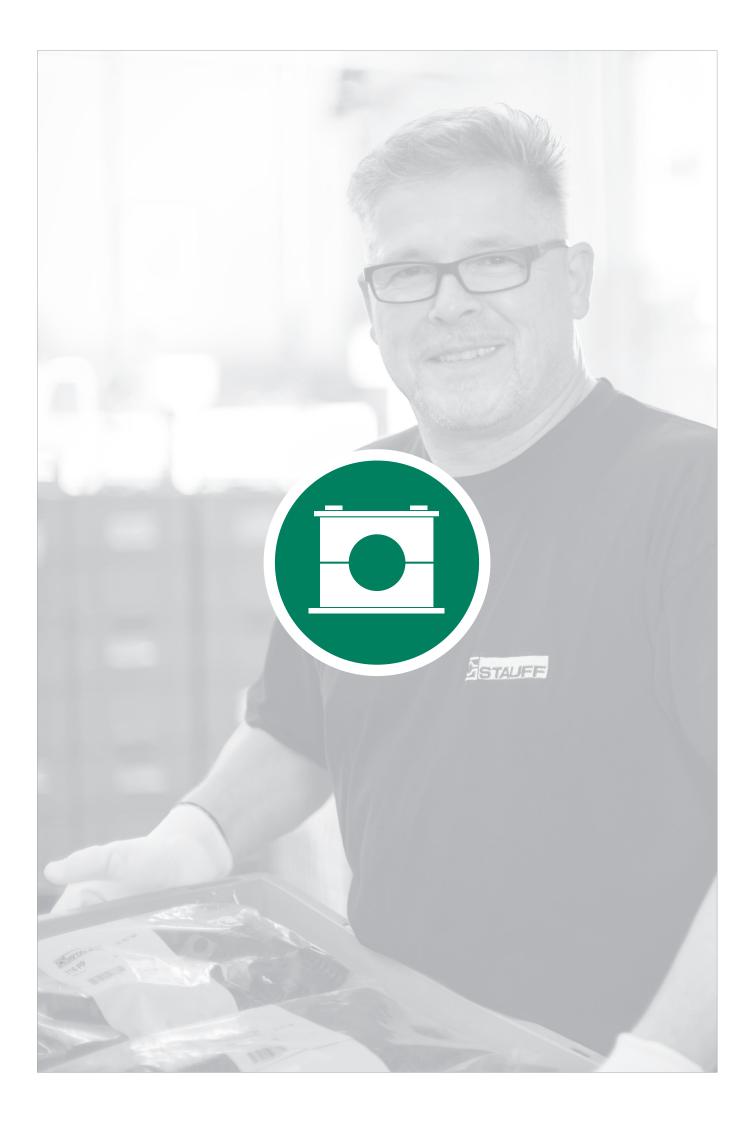
Code: **none** (Standard Option)

Components Assembled Code: A (Special Option)

Components Packed in Kits Code: K (Special Option)



W19





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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 ation 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)
- O 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

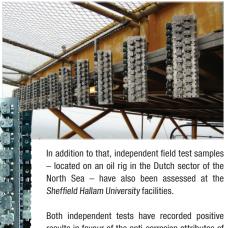
Throughout their development, STAUFF ACT Clamps have been subject to stringent testing at the STAUFF in-house laboratories located in Werdohl, Germany.

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.

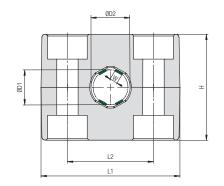
Standard Series according to DIN 3015, Part 1

ACT Clamp Body





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



Ordering Codes

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

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

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

| Group S | ize | Outside I 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 |
| | | 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 | | | | |
| | | 8 | | 108A-ACT | 25 | .43 | .07 | 37 | 20 | 26 | 30 |
| 1A | 1 | | - 1- | | | 12,5 | 2,2 | 1.46 | .79 | 1.06 | 1.18 |
| | | 9,5 | 3/8 | 109.5A-ACT | 25 | .49 | .09 | | | | |
| | | 10 | | 110A-ACT | 25 | 13 | 2,3 | | | | |
| | | 10 | | IIOA-AOI | 23 | .51 | .09 | | | | |
| | | 12 | | 112A-ACT | 25 | 15 | 2,8 | | | | |
| | | | | | | .59 | .11 | | | | |
| | | 12,7 | 1/2 | 212.7-ACT | 25 | 15,7 | 3,5 | - | | | |
| | | | | | | 17 | 3,5 | | | | |
| | | 14 | | 214-ACT | 25 | .67 | .14 | | | | |
| | | | | | | 17,3 | 3,5 | | | | |
| | | 14,3 | 9/16 | 214.3-ACT | 25 | .68 | .14 | 42 | 26 | 32 | 30 |
| 2 | 2 | 15 | | O1E ACT | O.F. | 18 | 3,5 | 1.65 | 1.02 | 1.30 | 1.18 |
| | | 15 | | 215-ACT | 25 | .71 | .14 | | | | |
| | | 16 | 5/8 | 216-ACT | 25 | 19 | 3,5 | | | | |
| | | 10 | 5/0 | 210 A01 | 20 | .74 | .14 | | | | |
| | | 18 | | 218-ACT | 25 | 21 | 3,5 | | | | |
| | | | | | | .83 | .14 | | | | |
| | | 19 | 3/4 | 319-ACT | 25 | .87 | 3,5 | | | | |
| | | | | | | 23 | 3,5 | | | | |
| | | 20 | | 320-ACT | 25 | .91 | .14 | | | | |
| | _ | | | | | 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 | | | | |
| | | 23 | | 323-AG1 | 23 | 1.10 | .14 | | | | |
| | | 25,4 | 1 | 325.4-ACT | 25 | 28,4 | 3,5 | | | | |
| | | - , | | | - | 1.12 | .14 | | | | |
| | | 26,9 | | 426.9-ACT | 25 | 31,1 | 6,0 | - | | | |
| | | | | | | 32,2 | 6,0 | 59 | 40 | 42 | 30 |
| 4 | 4 | 28 | | 428-ACT | 25 | 1.27 | .24 | 2.32 | 1.57 | 1,65 | 1.18 |
| | | 00 | | 400 407 | 0.5 | 34,2 | 6,0 | | | ., | |
| | | 30 | | 430-ACT | 25 | 1.35 | .24 | | | | |
| | | 32 | 1 1/4 | ESS ACT | 25 | 36,2 | 7 | | | | |
| | | JZ | 1 1/4 | 532-ACT | 20 | 1.43 | .28 | | | | |
| | | 35 | | 535-ACT | 25 | 39,2 | 7 | | | | |
| 5 | 5 | | | | | 1.54 | .28 | 71 | 52 | 58 | 30 |
| | | 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 | 1.82 | .31 | | | | |
| | | | | | | 1.02 | .01 | | | | |

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.

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.

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



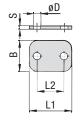


| → |
|---|
| plicable only when use e DP and Weld Plate S |

| INOX STAINLESS STEEL | | | | |
|-------------------------|-----|---------------------------------|---------------|----------------------------------|
| 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 | AS-M6x60-W55 | 25 |

ACT Cover Plate Type DP ... W55



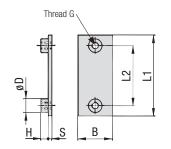




| Group | | Dimen | sions (^m | m/in) | | Ordering Code | Packaging Unit | |
|--------|-----|-------|----------------------|-----------|-----|---------------|----------------|-------------------|
| STAUFF | DIN | L1 | L2 | В | S | ØD | | (in pieces / bag) |
| 1A | 1 | 34 | 20 | 30 | 3 | 7 | DP-1A-W55 | 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 | J | 1.89 | 1.30 | 1.18 | .12 | .28 | DF-3-W33 | 23 |
| 4 | 4 | 57 | 40 | 30 | 3 | 7 | DP-4-W55 | 25 |
| 4 | 4 | 2.24 | 1.57 | 1.18 | .12 | .28 | DP-4-W55 | 23 |
| 5 | 5 | 70 | 52 | 30 | 3 | 7 | DP-5-W55 | 25 |
| J | J | 2.76 | 2.05 | 1.18 | .12 | .28 | DL-2-M22 | 20 |

ACT Single Weld Plate Type SP ... W55





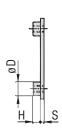


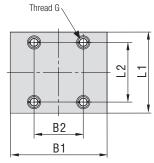
| Group | Dim | ensio | ıs (mm | /in) | | | | Ordering Code | Packaging Unit | | |
|--------|-----|-------|--------|------|------|-----|-----|---------------|----------------|-------------------|--|
| STAUFF | DIN | G | L1 | L2 | В | S | Н | ØD | | (in pieces / bag) | |
| 1A | 1 | M6 | 36 | 20 | 30 | 3 | 6,5 | 12 | SP-1A-M-W55 | 25 | |
| IA | 1 | IVIO | 1.42 | 0.79 | 1.18 | .12 | .26 | .47 | 3F-1A-1VI-W33 | 23 | |
| 2 | 2 | M6 | 42 | 26 | 30 | 3 | 6,5 | 12 | SP-2-M-W55 | 25 | |
| 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-WI-W33 | 20 | |
| 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 | M6 | 71 | 52 | 30 | 3 | 6,5 | 12 | SP-5-M-W55 | O.E. | |
|) J |) | IVIO | 2.80 | 2.05 | 1.18 | .12 | .26 | .47 | 5r-5-W-W55 | 25 | |



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

ACT Double Weld Plate Type SPD ... W55





| EDELSTAHL |
|-------------------------|
| HOST |
| trei |
| ~ |
| INOX STAINLESS STEEL |

| | Group | Dimensions (mm/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 | 1 | IVIO | 1.42 | 0.79 | 2.36 | 1.20 | .12 | .26 | .47 | SFD-IA-WI-WSS | 20 | |
| | 2 | 2 | M6 | 42 | 26 | 60 | 30,5 | 3 | 6,5 | 12 | SPD-2-M-W55 | 25 | |
| | ۷ | ۷ | IVIO | 1.65 | 1.02 | 2.36 | 1.20 | .12 | .26 | .47 | SPD-2-IVI-W55 | 25 | |
| Γ | 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 | 25D-2-INI-M22 | | |





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

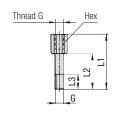
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

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.

ACT Stacking Bolt Type AF ... W55





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







| 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 | AI -2-IVI-VV33 | 23 |
| 3 | 3 | M6 | 44 | 30 | 12 | 11 | AF-3-M-W55 | 25 |
| 3 | J | IVIO | 1.73 | 1.18 | .47 | .43 | AI -3-IVI-VV33 | 23 |
| 4 | 4 | M6 | 49 | 35 | 12 | 11 | AF-4-M-W55 | 25 |
| 4 | 4 | IVIO | 1.93 | 1.38 | .47 | .43 | AF-4-IVI-WOO | 20 |
| 5 | 5 | M6 | 64 | 50 | 12 | 11 | AF-5-M-W55 | 25 |
| 5 | 5 | IVIO | 2.52 | 1.97 | .47 | .43 | AF-0-IVI-VV00 | 20 |

| 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 | 1.30 | 1.10 | .44 | .08 | SIG-TA-AGT-WSS | 25 |
| 2 | 2 | 39 | 28 | 11,2 | 2 | SIG-2-ACT-W55 | 25 |
| 2 | | 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 | 25 |
| 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 | CIC E ACT WEE | 25 |
| Ü | 5 | 2.72 | 1.10 | .44 | .08 | SIG-5-ACT-W55 | 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 Godd

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.

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



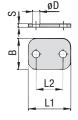


Dimensions applicable only when used with Cover Plate DP and Weld Plate SP

| 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



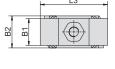


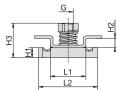
| frei | 5 |
|------|---|
| frei | |
| | |
| | |
| INOX | |

| 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 | DP-TA-W55 | 23 |
| 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 | 1 | 57 | 40 | 30 | 3 | 7 | DP-4-W55 | 25 |
| 4 4 | 4 | 2.24 | 1.57 | 1.18 | .12 | .28 | DF-4-W55 | 20 |
| 5 | 5 | 70 | 52 | 30 | 3 | 7 | DP-5-W55 | 25 |
| Ü | Ü | 2.76 | 2.05 | 1.18 | .12 | .28 | DL-9-M99 | 20 |

ACT Channel Rail Adaptor Type CRA ... W55

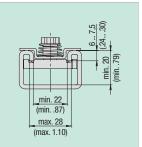






Suitability Chart for ACT Channel Rail Adaptors in the Standard Series

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.



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

| Group | roup Dimensions (mm/in) | | | | | | | | | | | Packaging Unit | | |
|--------|-------------------------|----|-----|------|------|-----|-----|-----|-----|------|------------------|-------------------|--|--|
| STAUFF | DIN | G | L1 | L2 | L3 | B1 | B2 | H1 | H2 | Н3 | | (in pieces / bag) | | |
| 1A | 1 | | | | | | | | | | | | | |
| 2 | 2 | | | | | | | | | | | | | |
| 3 | 3 | M6 | 21 | 35 | 40 | 16 | 19 | 6 | 5,5 | 20,5 | CRA-1-8/1D-M-W55 | 25 | | |
| | | | .83 | 1.38 | 1.57 | .63 | .75 | .24 | .22 | .81 | 0.0.1 0, 12 1100 | 20 | | |
| 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

ACT Mounting HardwareMaterial Properties and Handling Instructions

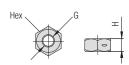
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

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.

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

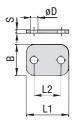






ACT Cover Plate

Type DP ... W55





For use with ACT Hammerhead Bolts HKS ... W55

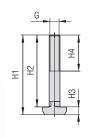
| Group | | Dimensions | s (mm/in) | | Ordering Code | Packaging Unit |
|--------|-----|------------|-----------|-----|----------------|-------------------|
| STAUFF | DIN | Thread G | Н | Hex | | (in pieces / bag) |
| 1A | 1 | | | | | |
| 2 | 2 | | | | | |
| 3 | 3 | M6 | 5 | 10 | MUS-HKS-M6-W55 | 25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

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| 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 | 1.34 | .79 | 1.18 | .12 | .28 | DF-IA-W33 | 23 |
| 2 | 2 | 40,5 | 26 | 30 | 3 | 7 | DP-2-W55 | 25 |
| 2 | 2 | 1.59 | 1.02 | 1.18 | .12 | .28 | DF-2-WJJ | 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 |
| 5 | 5 | 70 | 52 | 30 | 3 | 7 | DD E WEE | 25 |
| 3 | 5 | 2.76 | 2.05 | 1.18 | .12 | .28 | DP-5-W55 | 20 |

ACT Hammerhead Bolt Type HKS ... W55



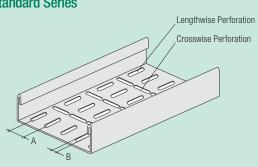




For use with Self-Locking ACT Nuts MUS-HKS \dots W55

| Group Dimensions (mm/in) | | | | | | | | | 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 | | 25 |
| 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 | HKS-M6X45-W5 | 20 |
| 3 | 3 | M6 | 54,3 | 50 | 4,3 | 20 | 6,1 | 13,3 | HKS-M6x50-W55 | 25 |
| 3 | 3 | IVIO | 2.14 | 1.97 | .17 | .79 | .24 | .52 | HK3-W0X30-W33 | 25 |
| 4 | 4 | M6 | 59,3 | 55 | 4,3 | 20 | 6,1 | 13,3 | HIVO MOVEE WEE | 25 |
| 4 | 4 | IVIO | 2.33 | 2.17 | .17 | .79 | .24 | .52 | HKS-M6x55-W55 | 20 |
| 5 | 5 | M6 | 74,3 | 70 | 4,3 | 20 | 6,1 | 13,3 | HKS-M6x70-W55 | 25 |
| 5 | Ü | IVIO | 2.93 | 2.76 | .17 | .79 | .24 | .52 | HV9-IMIOX/0-M33 | 20 |

Suitability Chart for ACT Hammerhead Bolts in the Standard Series



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

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

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





ACT Mounting 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

Waterial Code W55

ACT Mounting Hardware

Material Properties and Handling Instructions

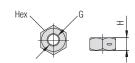
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

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

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

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

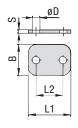






ACT Cover Plate

Type DP ... W55





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

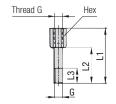
| Group | | Dimensions | (mm/in) | | Ordering Code | Packaging Unit | |
|--------|-----|------------|----------|-----------|----------------|-------------------|--|
| STAUFF | DIN | Thread G | Н | Hex | | (in pieces / bag) | |
| 1A | 1 | | | | | | |
| 2 | 2 | M6 | 5 .20 | 10 .39 | MUS-HKS-M6-W55 | 25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

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| 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-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 | 2 | 48 | 33 | 30 | 3 | 7 | DP-3-W55 | 25 |
| 3 | 3 | 1.89 | 1.30 | 1.18 | .12 | .28 | | 20 |

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 | 4 | M6 | 44 | 30 | 12 | 11 | AF-HKSK-1A-M-W55 | 0E |
| IA | 1 | IVIO | 1.73 | 1.18 | .47 | .43 | AL-UVSV-IN-IN-MOO | 20 |
| 2 | 2 | M6 | 54 | 40 | 12 | 11 | AF-HKSK-2-M-W55 | 25 |
| 2 | 2 | IVIO | 2.13 | 1.57 | .47 | .43 | AF-HK3K-Z-IVI-W33 | 20 |
| 3 | 3 | M6 | 64 | 40 | 12 | 11 | AF-HKSK-3-M-W55 | 25 |
| J | J | IVIO | 2.52 | 1.57 | .47 | .43 | AL-UVOV-9-INI-M33 | 20 |

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



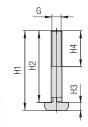




| Group | | Dimens | ions (mm) | / _{in}) | | Ordering Code | Packaging Unit |
|--------|-----|--------|-----------|-------------------|-----|----------------|-------------------|
| STAUFF | DIN | L | B1 | B2 | S | | (in pieces / bag) |
| 1A | 4 | 33 | 28 | 11,2 | 2 | SIG-1A-ACT-W55 | 25 |
| IA | | 1.30 | 1.10 | .44 | .08 | SIG-IA-ACI-WOO | 20 |
| 2 | 2 | 39 | 28 | 11,2 | 2 | SIG-2-ACT-W55 | 25 |
| 2 | 2 | 1.54 | 1.10 | .44 | .08 | 31U-2-AU1-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







| Group | | Dim | ensior | | 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 | 1 | IVIO | 1.15 | .98 | .17 | .79 | .24 | .52 | HV2V-INIOX52-M2 | 20 |
| 2 | 2 | M6 | 36,3 | 32 | 4,3 | 20 | 6,1 | 13,3 | HKSK-M6x32-W55 | 25 |
| 2 | 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 | UV2V-INIOX33-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

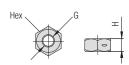
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

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.

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

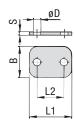






ACT Cover Plate

Type DP ... W55





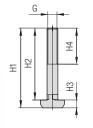
For use with ACT Hammerhead Bolts HKS ... W55

| Group | | Dimensions | (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 | | | | | | |

| Group | | Dimen | sions (^m | m/in) | | Ordering Code | Packaging Unit | |
|------------|------|-------|----------------------|-------|-----|---------------|----------------|-------------------|
| STAUFF DIN | | L1 | L2 | В | S | ØD | | (in pieces / bag) |
| 1 / | 1 | 34 | 20 | 30 | 3 | 7 | DP-1A-W55 | 25 |
| IA | 1A 1 | | .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 | 2 | 48 | 33 | 30 | 3 | 7 | DD 2 WEE | 25 |
| 3 | 3 | 1.89 | 1.30 | 1.18 | .12 | .28 | DP-3-W55 | 20 |

ACT Hammerhead Bolt Type HKSV ... W55



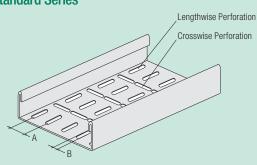




For use with Self-Locking ACT Nuts MUS-HKS ... W55

| Group | | Dim | ension | | Ordering Code | Packaging Unit | | | | |
|--------|-----|------|--------|------|---------------|----------------|-----|------|------------------|-----------------|
| STAUFF | DIN | G | H1 | H2 | Н3 | H4 min | В | L | | (in pcs. / bag) |
| 1A | 4 | M6 | 68,3 | 64 | 4,3 | 20 | 6,1 | 13,3 | HKSV-M6x64-W55 | 0.E |
| IA | ' | IVIO | 2.69 | 2.52 | .17 | .79 | .24 | .52 | HKSV-IVIOX04-WSS | 25 |
| 2 | 2 | MC | 80,3 | 76 | 4,3 | 20 | 6,1 | 13,3 | HKSV-M6x76-W55 | O.E. |
| 2 | 2 | M6 | 3.16 | 2.99 | .17 | .79 | .24 | .52 | UV2A-INIOX10-M23 | 20 |
| 3 | 3 | M6 | 87,3 | 83 | 4,3 | 20 | 6,1 | 13,3 | LIVEY MEVOS WEE | 0E |
| 3 | 3 | IVIO | 3.44 | 3.27 | .17 | .79 | .24 | .52 | HKSV-M6x83-W55 | 25 |

Suitability Chart for ACT Hammerhead Bolts in the Standard Series



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

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

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





Installation on Weld Plate

Required components:

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

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



Multi-Level Installation (with Weld Plate)

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

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

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

Order Code

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

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

110a-ACT-SIG-AF-M-W55

Order Code

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

Installation with Channel Rail Adaptors

Required components:

- 2 Hexagon Head Bolts AS...W55
- 1 Cover Plate DP...W55
- 1 Clamp Body (2 Clamp Halves)
- 2 Channel Rail Adaptors CRA...W55

Suitable for various brands and types of channel rails (including Halfen, Hilti, Unistrut® etc.).

Installation in Field Trays / Cable Ladders

Required components:

- 2 Self-Locking Nuts MUS-HKS ... W55
- 1 Cover Plate DP ... W55
- 1 Clamp Body (2 Clamp Halves)
- 2 Hammerhead Bolts HKS ... W55

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

Order Code

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

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

Order Code

HKS-110a-ACT-DP-MUS-M-W55

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



Multi-Level Installation in Field Trays / Cable Ladders

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

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



Multi-Level Installation in Field Trays / Cable Ladders

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

- 2 Self-Locking Nuts MUS-HKS ... W55
- 1 Cover Plate DP ... W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 ACT Clamp Body (2 Clamp Halves)
- 2 Hammerhead Bolts HKSV ... W55

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

Order Codes

Upper Level: HKSK-212.7-ACT-DP-MUS-M-W55 Lower Level: 212.7-ACT-SIG-AF-HKSK-M-W55

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

Order Codes

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

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

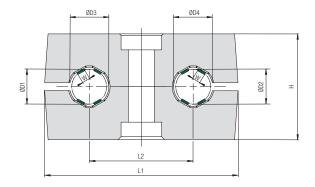


Twin Series according to DIN 3015, Part 3 **ACT Clamp Body**





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

| | | | () | |
|-----------|--------|------|----|-----|
| * Materia | l code | | | ACT |

| Group S | ize | | | Ordering Code | Packaging Unit | Dimer | 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 | | | | |
| 0.0 | 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 | 17 .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 | 23 | 3,5 | 67 2.64 | 36 1.42 | 36,6 1.44 | 30 1.18 |
| | | 21,3 | | 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.

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.

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



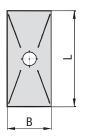


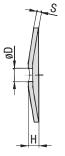
Dimensions applicable only when used with Cover Plate GD and Weld Plate SP

| 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





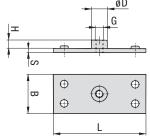


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| | ` | | / |

| Group | | Dimen | sions (" | ^{im} /in) | | Ordering Code | Packaging Unit | | |
|--------|-----|-------|----------|--------------------|-----|---------------|----------------|-------------------|--|
| STAUFF | DIN | L | В | B H S ØD | | ØD | | (in pieces / bag) | |
| 1D | 4 | 34 | 30 | 7 | 3 | 7 | GD-1D-W55 | 25 | |
| טו | 1 | 1.34 | 1.18 | .28 | .12 | .28 | GD-1D-W55 | 20 | |
| 2D | 2 | 52 | 30 | 7 | 3 | 9 | CD OD WEE | O.E. | |
| 20 | 2 | 2.05 | 1.18 | .28 | .12 | .35 | GD-2D-W55 | 25 | |
| 3D | 2 | 65 | 30 | 7 | 3 | 9 | CD OD WEE | 0.5 | |
| ่งบ | 3 | 2.56 | 1.18 | .28 | .12 | .35 | GD-3D-W55 | 25 | |

ACT Single Weld Plate Type SP ... W55







| ieces / bag) | |
|--------------|--|
| 25 | |
| | |
| 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

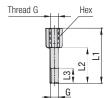
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

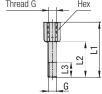
ACT Mounting Hardware is always delivered in hermetically-sealed quality storage bags with 25 pieces each to avoid contamination during transport.

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.

ACT Stacking Bolt Type AF ... W55



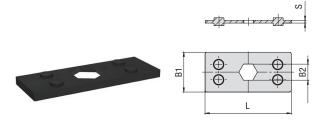






Dimensions (mm/in) Packaging Unit Group Order Code STAUFF DIN L1 L2 L3 min. Hex (in pieces / bag) 20 12 11 M6 AF-1/1A/1D-M-W55 25 1D .47 .43 1.33 .78 12 33 20 11 2D 2 AF-2D-M-W55 25 1.30 .78 .43 .47 44 29 15 12 3D 3 M8 AF-3D-M-W55 25 .47 .59 1.73 1.14

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 | 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 | |
| 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 | 2 | 65 | 30 | 12,1 | 2 | CIV OD DD VO ACT | O.F. | |
| 3D | 3 | 2.56 | 1 18 | 48 | 08 | SIV-3D-PP-V0-ACT | 25 | |





ACT Mounting Hardware Installation with Channel Rail Adaptors

Required components:

- 1 ACT Hexagon Head Bolt AS...W55
- 1 ACT Cover Plate GD...W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 ACT Channel Rail Adaptor CRA...W55

Suitable for various brands and types of channel rails (including Halfen, Hilti, Unistrut® etc.).

Material Godd

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.

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



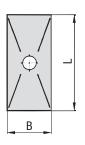


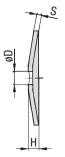
Dimensions applicable only when used with Cover Plate GD and Weld Plate SP

| 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





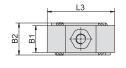


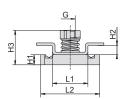
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| Group | | Dimen | sions (" | ım/ _{in}) | | Ordering Code | Packaging Unit | |
|--------|-----|-------|----------|---------------------|-----|---------------|----------------|-------------------|
| STAUFF | DIN | L | В | Н | S | ØD | | (in pieces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

Channel Rail Adaptor Type CRA ... W55

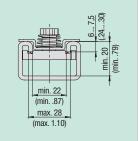






Suitability Chart for ACT Channel Rail Adaptors in the Twin Series

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



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

| Group | Group Dimensions (mm/in) | | | | | | | | | Order Code | Packaging Unit | |
|--------|--------------------------|------|-----|------|------|------|-----|-----|-----|------------|------------------|-------------------|
| STAUFF | DIN | G | L1 | L2 | L3 | B1 | B2 | H1 | H2 | Н3 | | (in pieces / bag) |
| 1D | 1 | M6 | 21 | 35 | 40 | 16 | 19 | 6 | 5,5 | 20,5 | CRA-1-8/1D-M-W55 | 25 |
| טו | | IVIO | .83 | 1.38 | 1.57 | .63 | .75 | .24 | .22 | .81 | | |
| 2D | 2 | M8 | 21 | 35 | 38 | 53 | 19 | 9 | 5,5 | 23,5 | 0DA 0 0D M W55 | 25 |
| 3D | 3 | IVIO | .83 | 1.38 | 1.50 | 2.09 | .75 | .35 | .22 | .93 | CRA-2-3D-M-W55 | 25 |



ACT Mounting Hardware

Installation in Field Trays / Cable Ladders



Required components:

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

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

Material Code

ACT Mounting Hardware Material Properties and Handling Instructions

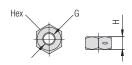
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

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.

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

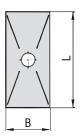


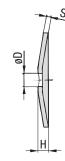




ACT Cover Plate

Type GD ... W55







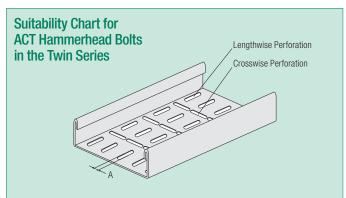
For use with ACT Hammerhead Bolts HKS ... W55

| Group | | Dimension | IS (^{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 | 1 | IVIO | .20 | .39 | INIO9-UK9-INIO-M33 | 20 | |
| 2D | 2 | M8 | 6,5 | 13 | MUS-HKS-M8-W55 | 25 | |
| 3D | 3 | IVIO | .26 | .51 | CCM-QIM-CVII-CVIII | 20 | |

| Group Dimensions (mm/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 | 1.34 | 1.18 | .28 | .12 | .28 | GD-1D-W55 | 25 | |
| 2D | 2 | 52 | 30 | 7 | 3 | 9 | GD-2D-W55 | 25 | |
| 2υ | 2 | 2.05 | 1.18 | .28 | .12 | .35 | GD-2D-W55 | 20 | |
| 3D 3 | 2 | 65 | 30 | 7 | 3 | 9 | OD OD WEE | 25 | |
| 30 | 3 | 2.56 | 1.18 | .28 | .12 | .35 | GD-3D-W55 | 20 | |

ACT Hammerhead Bolt Type HKS ... W55 Ż 둪 For use with Self-Locking ACT Nuts MUS-HKS ... W55

| STAINLESS STEEL | | | | | | | | | | |
|-----------------|-----|------|--------|-----------------------------------|-----|--------|---------------|----------------|--------------------|-----------------|
| Group | | Dim | ensior | is (^{mm} / _i | n) | | Ordering Code | Packaging Unit | | |
| STAUFF | DIN | G | H1 | H2 | Н3 | H4 min | В | L | | (in pcs. / bag) |
| 40 | | 1.40 | 49,3 | 45 | 4,3 | 20 | 6,1 | 13,3 | 111/0 140 45 11155 | 0.5 |
| 1D | ı | 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 |
| 20 | 2 | IVIO | 1.94 | 1.77 | .17 | .79 | .24 | .52 | HKS-WOX45-W55 | 20 |
| 3D | 3 | M8 | 59,3 | 55 | 4,3 | 20 | 6 | 13,3 | HKS-M8x55-W55 | 25 |
| SD | 3 | IVIO | 2.33 | 2.17 | .17 | .79 | .24 | .52 | UK9-MOX33-M33 | 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)

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





ACT Mounting Hardware Multi-Level Installation (with Stacking & Hammerhead Bolts)

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

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

ACT Mounting Hardware

Material Properties and Handling Instructions

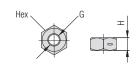
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

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.

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

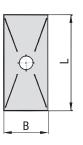


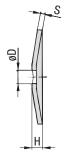




ACT Cover Plate

Type GD ... W55







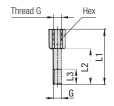
For use with ACT Stacking Bolts AF-HKS ... W55

| Group | | Dimension | 1S (^{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 |
| ID | ' | IVIO | .20 | .39 | INIOS-HKS-INIO-MSS | 20 |
| 2D | 2 | M8 | 6,5 | 13 | MUS-HKS-M8-W55 | 25 |
| 3D | 3 | IVIO | .26 | .51 | INIOS-INIS-INIO-WOO | 20 |

| Group | | Dimen | sions (^m | m/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 | |
| עו | 1 | 1.34 | 1.18 | .28 | .12 | .28 | GD-1D-W55 | 25 | |
| 2D 2 | 2 | 52 | 30 | 7 | 3 | 9 | GD-2D-W55 | O.E. | |
| 20 | 2 | 2.05 | 1.18 | .28 | .12 | .35 | GD-2D-W55 | 25 | |
| 20 2 | | 65 | 30 | 7 | 3 | 9 | GD-3D-W55 | O.E. | |
| 3D 3 | 3 | 2.56 | 1.18 | .28 | .12 | .35 | นบ-งบ-พจจ | 25 | |

ACT Stacking Bolt Type AF-HKSK ... W55

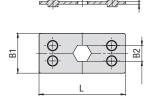




ACT Safety Locking Plate

Type SIV ... ACT

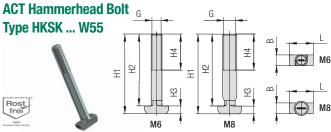




For use with Self-Locking ACT Nuts MUS-HKS ... W55 Made of flame-retardant PP-V0 plastic material; tested and V0 classified according to UL 94

| Group | | Dimen | sions (^m | 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 | 1 | IVIO | 1.93 | 1.38 | .47 | .43 | AL-UKSK-ID-MI-MSS | 20 |
| 2D | 2 | M8 | 50 | 37 | 11 | 12 | AF-HKSK-2D-M-W55 | 05 |
| 20 | 2 | IVIO | 1.97 | 1.47 | .43 | .47 | Ar-mk5k-2D-W-W55 | 20 |
| 3D | 3 | M8 | 61 | 46 | 15 | 12 | AF-HKSK-3D-M-W55 | 25 |
| טט | J | IVIO | 2.40 | 1.81 | .59 | .47 | AL-UK-VD-IM-MOD | 20 |

| 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 |
| ID | 1 | 1.39 | 1.18 | .44 | .08 | SIV-ID-FF-VU-AGI | 25 |
| 2D | 2 | 52 | 30 | 12,1 | 2 | SIV-2D-PP-V0-ACT | 25 |
| ZU | 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 |
| SU | 3 | 2.56 | 1.18 | .48 | .08 | SIV-SU-FF-VU-ACI | 20 |



| Group | ,, | | | | | | | | 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. |
| טו | ı | M6 | 1.15 | .98 | .17 | .79 | .24 | .52 | HKSK-WOX25-W55 | 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 | UK9V-INIOX70-M33 | 20 |
| 3D | 3 | M8 | 42,3 | 38 | 4,3 | 20 | 6 | 13,3 | HKSK-M8x38-W55 | 25 |
| טט | 3 | | 1.67 | 1.50 | .17 | .79 | .24 | .52 | UV2V-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

ACT Mounting Hardware Material Properties and Handling Instructions

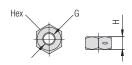
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

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.

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

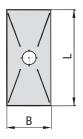


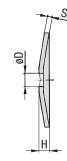




ACT Cover Plate

Type GD ... W55





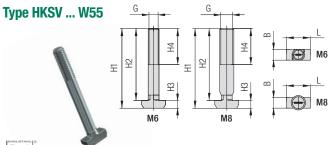


For use with ACT Hammerhead Bolts HKS ... W55

| Group | | Dimension | IS (^{mm} / _{in}) | | Ordering Code | Packaging Unit | |
|--------|-----|-----------|--------------------------------------|-----|--------------------|-------------------|--|
| STAUFF | DIN | Thread G | Н | Hex | | (in pieces / bag) | |
| 1D | 4 | M6 | 5 | 10 | MUS-HKS-M6-W55 | 25 | |
| טו | 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 | 0.001-01119-M22 | 20 | |

| Group | | Dimen | sions (" | ım/ _{in}) | | Ordering Code | Packaging Unit | |
|--------|-----|-------|----------|---------------------|-----|---------------|----------------|-------------------|
| STAUFF | DIN | L | В | Н | S | ØD | | (in pieces / bag) |
| 10 | 4 | 34 | 30 | 7 | 3 | 7 | GD-1D-W55 | 25 |
| 1D 1 | 1 | 1.34 | 1.18 | .28 | .12 | .28 | นม-เม-พออ | 20 |
| 2D | 0 | 52 | 30 | 7 | 3 | 9 | GD-2D-W55 | 25 |
| 20 | 2 | 2.05 | 1.18 | .28 | .12 | .35 | GD-2D-W55 | 20 |
| 3D 3 | 0 | 65 | 30 | 7 | 3 | 9 | OD OD WEE | 0.5 |
| | 3 | 2.56 | 1.18 | .28 | .12 | .35 | GD-3D-W55 | 25 |

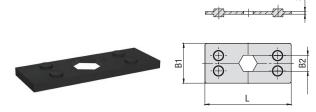
ACT Hammerhead Bolt





| STAINLESS STEEL | | | | | | | | | | |
|-----------------|--------------------------|------|------|------|-----|--------|-----|------|------------------|-----------------------|
| Group | Group Dimensions (mm/in) | | | | | | | | 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.E. |
| טו | ' | IVIO | 3.00 | 2.83 | .17 | .79 | .24 | .52 | HKSV-IVIOX/2-WSS | 25 |
| 2D | 2 | M8 | 77,3 | 73 | 4,3 | 20 | 6 | 13,3 | HKSV-M8x73-W55 | 25 |
| 20 | 2 | IVIO | 3.04 | 2.87 | .17 | .79 | .24 | .52 | HKSV-WOX73-WSS | 20 |
| 3D | 3 | M8 | 97,3 | 93 | 4,3 | 20 | 6 | 13,3 | HKSV-M8x93-W55 | 25 |
| JU | J | IVIO | 3.83 | 3.66 | .17 | .79 | .24 | .52 | TIKSV-WOX93-WSS | 23 |

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 | sions (^{mm} | /in) | | Order Code | Packaging Unit |
|--------|-----|--------|-----------------------|--------------------------|-----|------------------|-------------------|
| STAUFF | DIN | L | B1 | B2 | S | | (in pieces / bag) |
| 1D | 4 | 34 | 30 | 11,2 | 2 | CIV 1D DD VO ACT | 25 |
| טו | 1 | 1.39 | 1.18 | .44 .08 SIV-1D-PP-V0-ACT | | 20 | |
| 2D | 2 | 52 | 30 | 12,1 | 2 | SIV-2D-PP-V0-ACT | 25 |
| 20 | 2 | 2.05 | 1.18 | .48 | .08 | SIV-ZD-PP-VU-ACI | 20 |
| 20 | 2 | 65 | 30 | 12,1 | 2 | CIV 2D DD VO ACT | O.F. |
| 3D | 3 | 2.56 | 1.18 | .48 | .08 | SIV-3D-PP-V0-ACT | 25 |





Installation on Weld Plate

Required components:

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

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



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.

Installation with Channel Rail Adaptors



- 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.

$In stall at ion\ in\ Field\ Trays\ /\ Cable\ Ladders$

Required components:

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

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



Order Code

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

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

Order Code

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

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



Multi-Level Installation in Field Trays / Cable Ladders

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

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

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

Order Codes

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

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



Multi-Level Installation in Field Trays / Cable Ladders

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

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

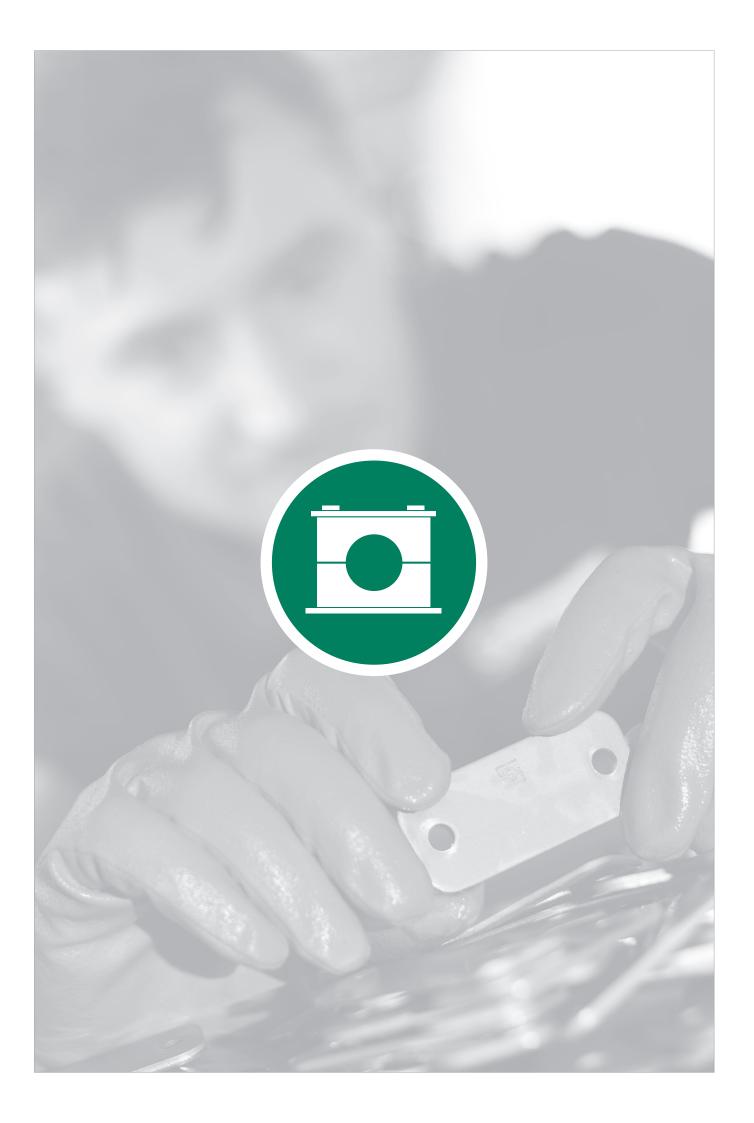
Suitable for commonly used field trays and cable ladders with diagonal, lengthwise and/or crosswise slots and perforations.

Order Codes

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

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

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 |
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| Weld Gun - Arc Ignition SWG-WG | 94 |
| Distance Adaptor SWG-AGS | 95 |
| DIT-SR6-SWG | 95 |
| Stud Retainer SWG-SR6 | 95 |
| Ground Cable SWG-GC | 95 |

STAUFF SWG Stud Welding System

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



Assembly using weld plates

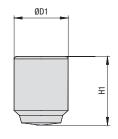
Reduction of the assembly time per clamp*

> 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

Metric ISO thread M6x11x14

Unified coarse

UNC1/4-20x11x14 (UNC) thread

SWG-SF

* Material code Steel 4.8 with galvanised

> copper coating C1E (DIN EN ISO 4042)

W124

| Group | | Dimensions (m | m/in) | | Order Codes | Packaging Units | |
|--------|----------------------------|---------------|----------------------|-----|-----------------------------|---------------------|--|
| STAUFF | DIN | Thread G | ØD1 | H1 | (Standard Options) | (in pcs. / per bag) | |
| | 11 14 SWG-SF-M6x11x14-W124 | | SWG-SF-M6x11x14-W124 | 100 | | | |
| 1 8 | 08 | IVIO | .43 | .55 | 3WG-31 -WIOX11X14-W124 | 100 | |
| 1 0 | 0 0 | 1/4-20 UNC | 11 | 14 | SWG-SF-UNC1/4-20x11x14-W124 | 100 | |
| | | 1/4-20 UNG | .43 | .55 | 5WG-5F-UNG1/4-2UX11X14-W124 | | |

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. In case of doubt, please contact STAUFF in advance.



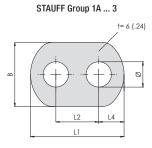
* Thread code

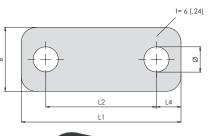
PP-BK



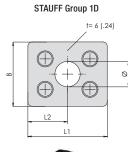
Distance Plate for DIN 3015 Clamps Type SWG-DIP

STAUFF Group 1 t= 6 (.24)





STAUFF Group 4 ... 8









| C | | | D. | | | | | | 5 1 1 11 11 |
|-----------------|-----|--------------------------------|--------|------------------|-------------|------|------|-----------------------------------|--|
| Group STAUFF | DIN | Pipe/Tube-Ø (mm/in) Clamp Body | Dimen: | sions (mm L2* | '/in) L4 | В | Ø | Order Codes (Standard Options) | Packaging Units (in pcs. / per bag) |
| STAUFF | DIN | | | | | - | | (Staliuaru Optiolis) | (III pcs. / pei bay) |
| 1 | 0 | 6 12 | 29 | 10,5 | 10,5 | 30 | 11,8 | SWG-DIP-1-PP-BK | 25 |
| ' | 0 | .2448 | 1.14 | .41 | .41 | 1.18 | .46 | OWG DII TTT DK | 20 |
| 4.6 | 4 | 6 12 | 43,5 | 20 | 11,8 | 30 | 11,8 | CWC DID 44 DD DIV | 0.5 |
| 1A | 1 | .2448 | 1.71 | .79 | .46 | 1.18 | .46 | SWG-DIP-1A-PP-BK | 25 |
| | | 12,7 18 | 48,5 | 26 | 11,3 | 30 | 11,8 | OWO DID O DD DV | 0.5 |
| 2 | 2 | .5071 | 1.90 | 1.02 | .44 | 1.18 | .46 | SWG-DIP-2-PP-BK | 25 |
| • | 0 | 19 25,4 | 56,5 | 33 | 11,8 | 30 | 11,8 | OWO DID O DD DV | 0.5 |
| 3 | 3 | .75 1.00 | 2.22 | 1.30 | .46 | 1.18 | .46 | SWG-DIP-3-PP-BK | 25 |
| 4 | 4 | 26,9 32 | 62 | 40 | 11 | 30 | 11,8 | SWG-DIP-4-PP-BK | 25 |
| 4 | 4 | 1.06 1.26 | 2.44 | 1.57 | .43 | 1.18 | .46 | SWG-DIP-4-PP-BK | 23 |
| 5 | 5 | 32 42 | 75 | 52 | 11,5 | 30 | 11,8 | SWG-DIP-5-PP-BK | 25 |
| 5 | 5 | 1.26 1.65 | 2.95 | 2.05 | .45 | 1.18 | .46 | SWG-DIP-D-PP-BK | 25 |
| 6 | 6 | 44,5 54 | 88 | 66 | 11 | 30 | 11,8 | SWG-DIP-6-PP-BK | 25 |
| О | О | 1.75 2.12 | 3.46 | 2.60 | .43 | 1.18 | .46 | SWG-DIP-O-PP-DK | 25 |
| 7 | 7 | 57,2 76,1 | 121 | 94 | 13,5 | 30 | 11,8 | SWG-DIP-7-PP-BK | 10 |
| ′ | 1 | 2.25 3.00 | 4.76 | 3.70 | .53 | 1.18 | .46 | SWU-DIF-7-FF-DK | 10 |
| 8 | 8 | 88,9 102 | 147 | 120 | 13,5 | 30 | 11,8 | SWG-DIP-8-PP-BK | 10 |
| U | O | 3.50 4.00 | 5.78 | 4.72 | .53 | 1.18 | .46 | SWU-DIF-0-FF-DK | 10 |
| 1D | 1 | 6 12 | 37 | 18,5 | - | 30 | 11,8 | SWG-DIP-1D-PP-BK | 25 |
| IU | 1 | .2448 | 1.45 | .73 | - | 1.18 | .46 | SWU-DIF-ID-FF-DK | 23 |

Ordering Codes Distance Plate *SWG-DIP*2*PP-BK * Distance Plate SWG-DIP * STAUFF Group 2

Polypropylene (Colour: Black)

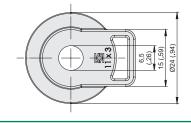
* Material code

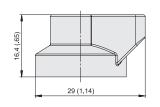
* ±0,1(.003)

Material: Polyamide (reinforced)

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

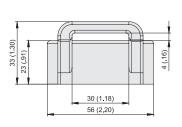
Standard packaging unit: 25 pcs.

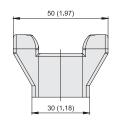


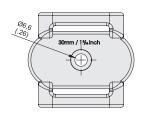


Cable Tie Holder Type SWG-CTH-11-M6









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

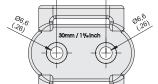


Material: Polyamide (reinforced)

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

Standard packaging unit: 25 pcs.





26 (1.02)

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



Starterkit Type SWG-WI06-Starterkit



Starterkit including:

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

Required Accessories:

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

Weld Inverter Type SWG-WI06



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 |



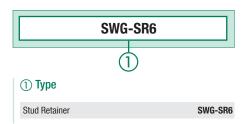
Distance Tube Type DIT-SR6-SWG

| 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

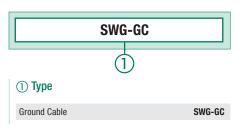


Standard packaging unit: 5 pcs.



Ground Cable Type SWG-GC

Order Code



Characteristics

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







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

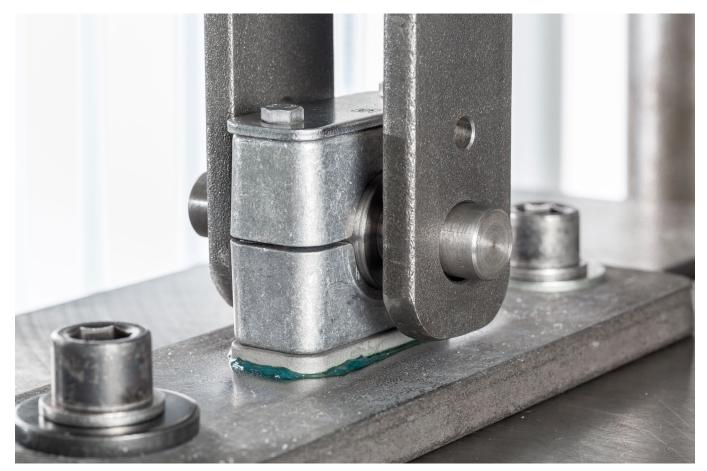
STAUFF Bond Adhesive Bonded Fastening

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

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

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





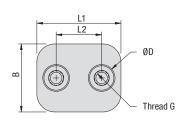
Tensile testing of the STAUFF Bond Plate (type SBP) with STAUFF Bond Adhesive (type CB420-50E) in the STAUFF Technology Centre. Please contact STAUFF for detailed test reports.

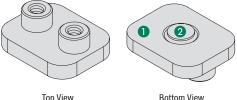




STAUFF Bond Plate for DIN 3015 Clamps Type SBP











| Group Diameter (mm/in) | | | Dimensions (| mm/in) | | | Order Codes | Packaging Unit | | | | |
|------------------------|-----|------------|--------------|--------|------|------|-------------|----------------|------|--------------------|-------------|--|
| STAUFF | DIN | Clamp Body | Thread G | L1 | L2 | В | S | Н | ØD | (Standard Options) | (in Pieces) | |
| 1A | 1 | 6 12 | M6 | 36 | 20 | 30 | 5 | 11,3 | 11,8 | SBP-1A-M-W5 | 25 | |
| IA | ' | .2448 | 1/4-20 UNC | 1.42 | .79 | 1.18 | .20 | .44 | .46 | SBP-1A-U-W5 | 20 | |
| 2 | 2 | 12,7 18 | M6 | 42 | 26 | 30 | 5 | 11,3 | 11.8 | SBP-2-M-W5 | 25 | |
| 2 | | .5071 | 1/4-20 UNC | 1.65 | 1.02 | 1.18 | .20 | .44 | .46 | SBP-2-U-W5 | 20 | |
| 3 | 3 | 19 25,4 | M6 | 50 | 33 | 30 | 5 | 11,3 | 11,8 | SBP-3-M-W5 | 25 | |
| 3 | J | .75 1.00 | 1/4-20 UNC | 1.97 | 1.30 | 1.18 | .20 | .44 | .46 | SBP-3-U-W5 | 23 | |
| 4 | 4 | 26,9 32 | M6 | 60 | 40 | 30 | 5 | 11,3 | 11.8 | SBP-4-M-W5 | 25 | |
| 4 | 4 | 1.06 1.26 | 1/4-20 UNC | 2.36 | 1.57 | 1.18 | .20 | .44 | .46 | SBP-4-U-W5 | 25 | |
| 5 | 5 | 32 42 | M6 | 71 | 52 | 30 | 5 | 11,3 | 11,8 | SBP-5-M-W5 | 25 | |
| J | J | 1.26 1.65 | 1/4-20 UNC | 2.80 | 2.05 | 1.18 | .20 | .44 | .46 | SBP-5-U-W5 | 23 | |
| 6 ¹ | 6 | 44,5 54 | M6 | 88 | 66 | 30 | 5 | 11,3 | 11.8 | SBP-6-M-W5 | 25 | |
| U | U | 1.75 2.12 | 1/4-20 UNC | 3.46 | 2.60 | 1.18 | .20 | .44 | .46 | SBP-6-U-W5 | 20 | |

the advesive cures 1

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

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

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

STAUFF

Adhesive Cartridge Type CB420-50(E)



Characteristics

The STAUFF Bond acrylic structural adhesive is a two-component thixotropic paste adhesive (mixing ratio of 10:1) packed in a suitable 50 ml / 1.69 oz dual cartridge.

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

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

Ordering Code



Required Accessories

Adhesive Dispenser, Dispenser Slide, Mixing Tip

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

Processing instructions

Cure Time

15 to 18 minutes to 75% of ultimate strength and 24 hours to 100% of ultimate strength at room temperature of $+24\ ^{\circ}\text{C}\,/\ +75\ ^{\circ}\text{F}.$

Shelf Life

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

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

Do not freeze adhesive!

Temperature

Operating temperature range from $-55~^{\circ}\text{C}$ to $+121~^{\circ}\text{C}$ / $-67~^{\circ}\text{F}$ to $+240~^{\circ}\text{F}$.

Pay attention to the expiry dates printed on the cartridges.

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

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

Installation Guideline

Surface Preparation

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

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

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

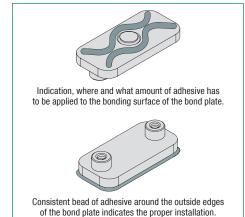
You may also want to clean the bottom of the bond plate prior to adhesive preparation. Use a clean cloth saturated with solvent to wipe the part with a single circular motion. Use caution not to disturb the internal fixture.

Safety note: Always wear gloves and protective glasses!

Dispensing Directions

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

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



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

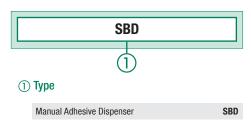


100



Manual Adhesive Dispenser Type SBD

Ordering Code



Characteristics

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



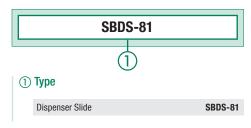
Required Accessories

■ Dispenser Slide, Mixing Tip

Dispenser Slide Type SBDS-81

Mixing Tip Type SBMT

Ordering Code



Characteristics

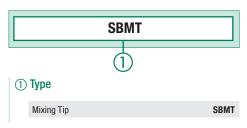
The STAUFF Dispenser Slide is used in combination with the Manual Adhesive Dispenser and provides the required mixing ratio for the dispensing adhesives.



Required Accessories

■ Adhesive Dispenser, Mixing Tip

Ordering Code Characteristics



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

separating the individual adhesive components until they rea the integral mixer. If open time of adhesive in the mixing tip exceeds the adhesive pot life, the adhesive will become cure in the tip, preventing further dispensing. Removal of the use $\!\omega$ tip and replacement with a fresh tip is as simple as twisting to remove the cured tip, wiping off the end of the cartridge, and twisting a new tip in place.

To prevent pre-mix of the adhesive, the tip integrates a barri-

Standard packaging unit: 50 pcs.

Required Accessories

■ Adhesive Dispenser, Dispenser Slide





| 300 | Machined Versions | 104 |
|------------|---|-----|
| A STATE OF | | |
| 1000 | Injection Moulded Version | 106 |
| | | |
| 9:10 | Metal Versions and Accessories | 107 |
| | | |
| | Enquiry Form for Custom-Designed Special Clamps | 108 |

Machined Versions

Custom-designed clamping systems for pipes, tubes, hoses, cables and other components according to customer's $% \left(1\right) =\left(1\right) \left(1\right) \left$ 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.



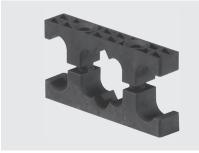
















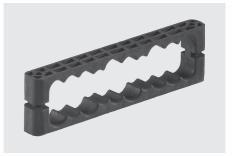




























Metal versions of custom-designed clamping systems

Metal Versions and Accessories

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 $% \left(\mathbf{r}\right) =\mathbf{r}^{\prime }$

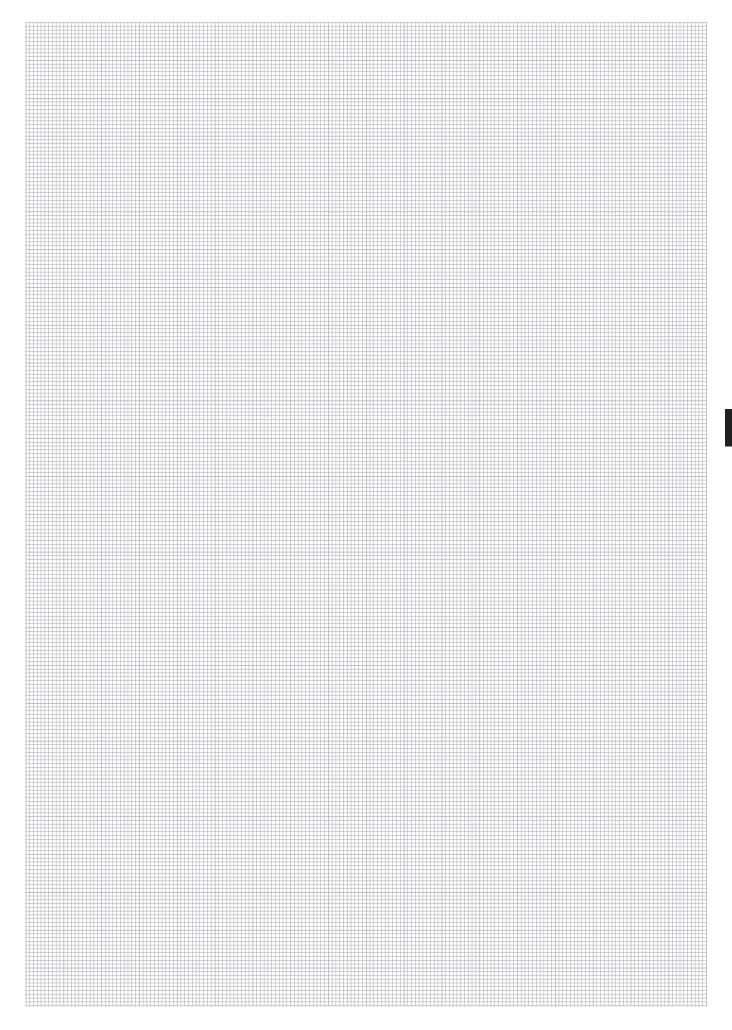
with as much information as possible, before sending it by email of fax to the closest STAUFF branch office. If possible, please also provide a sketch / drawing and let us know the

quantities required, and if the enquiry is for a one-time or recurring demand. We look forward to hearing from you, and are always available for consultation, when required.

| Application Information | | | | | | | |
|--|--|--|--|---|--|--|--|
| Area of use | □ Indoor | | □ Outdo | or | | | |
| Ambient temperature | Lowest □ °C / □ | l°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 | r □ Polypropylene □ Aluminium □ Stainless Steel □ V2A □ V | /4A | ☐ Polyamide ☐ Steel ☐ Other material | | | | |
| Design Information | | | | | | | |
| Type of line | ☐ Pipe / tube (<u>fixed</u> installation☐ 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 Width | x H | Height 🗆 mm / 🗆 inch | | | | |
| Total number of lines | | | | | | | |
| Diameters per line | Line 1 | inch inch inch inch inch inch | Further confurther con | omments comments comments comments comments comments comments comments comments | | | |
| Preferred centre distance of the lines | | D r | nm / 🔲 in | nch | | | |
| Preferred number of screw holes | | | | | | | |
| Information on Mounting Hardw | are | | | | | | |
| Preferred type of bolts | ☐ Hexagon head bolts (with co ☐ Socket cap crews (with cover ☐ Socket cap crews (w/o cover | r plate) | uith n | netric threads | | | |
| Preferred type of installation | ☐ Welding (using a weld plate) ☐ Direct screw-fastening ☐ Mounting rail (using a rail nu | t / adapto | ☐ Adhes | ng (using weld studs) sive bonded fastening | | | |
| Material preference for the hardware | ☐ Steel | | ☐ Stainle | ess Steel 🗆 V2A 🗆 V4A | | | |









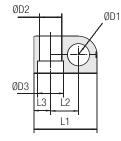


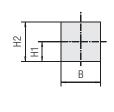
| 1 | Clamp Body • Single Design | 112 |
|----------|----------------------------|-----|
| | LBBU | 112 |
| - 3 | Clamp Body • Twin Design | 113 |
| 000 | LBBU | 110 |
| | Weld Plate | 114 |
| | LBBU-SP | 114 |
| Ĩ | Sleeve | 114 |
| | LBBU-HUE | 114 |
| 10 | Cover Plate | 115 |
| | LBBU-DP | 110 |
| 1 | Hexagon Head Bolt | 115 |
| | AS | 116 |
| | Clamp Body • Single Design | 116 |
| 11 | LB | 110 |
| 10.4 | Clamp Body • Twin Design | 117 |
| | LBG / LBU | 117 |
| | Clamp Body • Single Design | 118 |
| | LN | 110 |
| | Clamp Body • Twin Design | 119 |
| | LNGF / LNUF | 118 |
| | Cover Plate | 119 |
| | DPL | 118 |



Clamp Body - Single Design **Type LBBU**







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
- · Advanced design with a film hinge allows the top part of the Plastic clamp body to open up and insert or replace the pipe, tube or hose without the use of force
- · Embedded metal sleeve to ensure stability of the clamp assembly

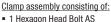
| Group | | Diameter be / Hose | Nominal Bore Pipe | Ordering Codes (1 Clamp Body) | Dimensions (mm/in) | | | | | | | |
|--------|------|-----------------------|-------------------------|----------------------------------|--------------------|------|------|------|-----|-----|------|------|
| STAUFF | (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 | | | | | | | | |
| | 4 | | | LBBU-204-SA-M8/U5/16 | | | | | | | | |
| | 6 | | | LBBU-206-SA-M8/U5/16 | | | | | | | | |
| | 6,4 | 1/4 | | LBBU-206.4-SA-M8/U5/16 | | | | | | | | |
| | 8 | 5/16 | | LBBU-208-SA-M8/U5/16 | | | | | | | | |
| | 9,5 | 3/8 | | LBBU-209.5-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 | 14 | 39 | 18 | 9 | 12 | 24 | 20 |
| 2 | 12,7 | 1/2 | | LBBU-212.7-SA-M8/U5/16 | .47 | .55 | 1.54 | 71 | .35 | .47 | .94 | .79 |
| | 13,5 | | 1/4 | LBBU-213.5-SA-M8/U5/16 | | .00 | 1.01 | ., , | .00 | , | .01 | ., 0 |
| | 14 | | | LBBU-214-SA-M8/U5/16 | | | | | | | | |
| | 15 | | | LBBU-215-SA-M8/U5/16 | | | | | | | | |
| | 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 | | | | | | | | |
| 3 | 25 | | | LBBU-325-SA-M8/U5/16 | 12 | 14 | 57,5 | 23,5 | 15 | 20 | 40 | 30 |
| ٥ | 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)



- 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-216-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-216-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-216-SA-DP-AS-M8-W3

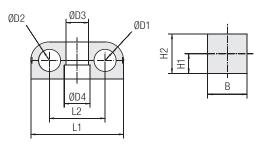
W3 (Metal parts made of Carbon Steel, zinc/nickel-plated) is the standard option for this type of installation. For UNC threads / bolts, please replace M8 by U5/16.

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**





| Group | | Diameters ube / Hose D2 | Nominal Bore Pipe | Ordering Codes (1 Clamp Body) | Dime (mm/in) | nsions | | | | | |
|--------|------|-------------------------------|-------------------------|----------------------------------|-----------------|--------|------|------|-----|------|-----|
| 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 | .00 | 1.01 | 1.10 | .00 | .13 | .13 |
| | 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 | | | | | | | |
| | 4 | | | LBBU-204/04-SA-M8/U5/16 | | | | | | | |
| | 6 | | | LBBU-206/06-SA-M8/U5/16 | | | | | | | |
| | 8 | 5/16 | | LBBU-208/08-SA-M8/U5/16 | | | | | | | |
| | 9,5 | 3/8 | | LBBU-209.5/9.5-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 | | | | | | | |
| 2D | 12,7 | 1/2 | | LBBU-212.7/12.7-SA-M8/U5/16 | 12 | 14 | 59 | 35 | 12 | 24 | 20 |
| 20 | 13,5 | | 1/4 | LBBU-213.5/13.5-SA-M8/U5/16 | .47 | .55 | 2.32 | 1.38 | .47 | .94 | .79 |
| | 14 | | | LBBU-214/14-SA-M8/U5/16 | | | | | | | |
| | 15 | | | LBBU-215/15-SA-M8/U5/16 | | | | | | | |
| | 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 |
| จบ | 25,4 | 1 | | LBBU-325.4/25.4-SA-M8/U5/16 | .47 | .55 | 3.39 | 1.85 | .79 | 1.57 | .79 |
| | 28 | | | LBBU-328/28-SA-M8/U5/16 | | | | | | | |
| | 30 | | | LBBU-330/30-SA-M8/U5/16 | | | | | | | |
| | 32 | 1-1/4 | | LBBU-332/32-SA-M8/U5/16 | | | | | | | |

Ordering Codes

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

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

Standard Materials



Thermoplastic Elastomer (87 Shore-A)

Colour: Black Material code: SA

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

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

Product Features

- Compact and light-weight design for applications in which space is limited
- Available in 3 different sizes and covering all standard metric and imperial diameters between 4 mm and 32 mm
- Vibration-damping and noise-reducing clamp body material with UV, ozone and weathering-resistant characteristics
- · Advanced design with a film hinge allows the top part of the Plastic clamp body to open up and insert or replace the pipe, tube or hose without the use of force
- 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-216/16-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-216/16-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-216/16-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.

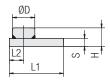
Alternative sizes (e.g. for bolts M6 and 1/4-20 UNC), materials and surface finishings are available upon request.

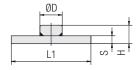




Weld Plate Type LBBU-SP







STAUFF Group 1 to 3

STAUFF Group 1D to 3D

| Ordering C | odes | |
|--------------------|--|-------------|
| 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 | Dimension | S (mm/in) | | Ordering Codes | | | |
|--------|-----------|-----------|-----------|----------------|-----|-------------|---------------------|
| STAUFF | Ø D | L1 | L2 | Н | S | Thread G | (Standard Options) |
| 1 | 14 | 34 | 9 | 10,3 | 5 | M8 | LBBU-SP-1-M8-W2 |
| ' | .55 | 1.34 | .35 | .41 | .20 | 5/16-18 UNC | LBBU-SP-1-U5/16-W2 |
| 2 | 14 | 39 | 9 | 10,3 | 5 | M8 | LBBU-SP-2-M8-W2 |
| 2 | .55 | 1.54 | .35 | .41 | .20 | 5/16-18 UNC | LBBU-SP-2-U5/16-W2 |
| 3 | 14 | 57,5 | 15 | 10,3 | 5 | M8 | LBBU-SP-3-M8-W2 |
| 3 | .55 | 2.26 | .59 | .41 | .20 | 5/16-18 UNC | LBBU-SP-3-U5/16-W2 |
| 1D | 14 | 50 | | 10,3 | 5 | M8 | LBBU-SP-1D-M8-W2 |
| ID | .55 | 1.97 | | .41 | .20 | 5/16-18 UNC | LBBU-SP-1D-U5/16-W2 |
| 2D | 14 | 59 | | 10,3 | 5 | M8 | LBBU-SP-2D-M8-W2 |
| 20 | .55 | 2.32 | | .41 | .20 | 5/16-18 UNC | LBBU-SP-2D-U5/16-W2 |
| 3D | 14 | 86 | | 10,3 | 5 | M8 | LBBU-SP-3D-M8-W2 |
| งบ | .55 | 3.39 | \bigvee | .41 | .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 |
| 2D | 12 | 9 | 33,5 | LBBU-HUE-3/3D-SP- |
| 3D | .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- |
| 20 | .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 |

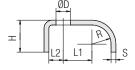
Dimensions applicable only when used for panel mounting without Weld Plate or Hexagon Rail Nut (Type of Mounting PM)

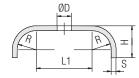
| Group | Dime | nsions | (mm/in) | Ordering Codes |
|--------|------|--------|---------|--------------------|
| STAUFF | ØD1 | ØD2 | L | (Standard Options) |
| 1 | 12 | 9 | 18,8 | LBBU-HUE-1/1D-PM- |
| ' | .47 | .35 | .74 | M8/U5/16-W3 |
| 2 | 12 | 9 | 22,7 | LBBU-HUE-2/2D-PM- |
| 2 | .47 | .35 | .89 | 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 |

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



Cover Plate Type LBBU-DP







STAUFF Group 1 to 3

STAUFF Group 1D to 3D

| Group | Dimensions | (mm/in) | | Ordering Codes | | | |
|--------|------------|---------|-----------|----------------|------|-----|-------------------------|
| STAUFF | Ø D | L1 | L2 | R | Н | S | (Standard Options) |
| 1 | 9 | 15 | 9 | 10 | 16 | 3 | LBBU-DP-1-M8/U5/16-W3 |
| ' | .35 | .59 | .35 | .39 | .63 | .12 | LBBU-DF-1-Wio/US/10-W3 |
| 2 | 9 | 18 | 9 | 12 | 20 | 3 | LBBU-DP-2-M8/U5/16-W3 |
| 2 | .35 | .71 | .35 | .47 | .79 | .12 | LBBU-DF-2-W0/U3/10-W3 |
| 3 | 9 | 23,5 | 15 | 19,5 | 28 | 3 | LBBU-DP-3-M8/U5/16-W3 |
| 3 | .35 | .93 | .59 | .77 | 1.10 | .12 | LBBU-DF-3-W6/U3/10-W3 |
| 1D | 9 | 30 | | 10 | 16 | 3 | LBBU-DP-1D-M8/U5/16-W3 |
| ID | .35 | 1.18 | | .39 | .63 | .12 | LBBU-DF-1D-W6/03/10-W3 |
| 2D | 9 | 35 | | 12 | 20 | 3 | LBBU-DP-2D-M8/U5/16-W3 |
| 20 | .35 | 1.38 | | .47 | .79 | .12 | LBBU-DF-2D-Wio/US/10-W3 |
| 3D | 9 | 47 | | 19,5 | 28 | 3 | LBBU-DP-3D-M8/U5/16-W3 |
| 30 | .35 | 1.85 | \bigvee | .77 | .63 | .12 | LDDU-UF-3U-WI6/U3/10-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 Stool zing/nigkal pla | tod W2 | | | | | |

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

Hexagon Head Bolt Type AS



Hexagon Head Bolt AS

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

Dimensions applicable only when used with

Weld Plate LBBU-SP (**Type of Mounting SP**)
or Hexagon Rail Nut SM-2-5D (**Type of Mounting SM**)

| Group | Dimensions (mm/in) | Ordering Codes |
|--------|---------------------|----------------------|
| STAUFF | Thread G x L | (Standard Options) |
| 1 | M8 x 25 | AS-M8x25-W3 |
| ' | 5/16-18 UNC x 1 | AS-U5/16-18x1-W3 |
| 2 | M8 x 28 | AS-M8x28-W3 |
| 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 |
| ID | 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 |
| 30 | 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 | Dimensions (mm/in) | Ordering Codes |
|--------|---------------------|----------------------|
| STAUFF | Thread G x L | (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 |
| 3 | 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 |
| 2D | M8 x 50 | AS-M8x50-W3 |
| 3D | 5/16-18 UNC x 2 | AS-U5/16-18x2-W3 |



Ordering Codes

Hexagon Head Bolt *AS-*M8x25-*W3

| * Type of bolt | Hexagon Head Bolt (according to DIN 931 / 933 or ANSI / ASME B18.2.1.) | AS |
|----------------|--|-------|
| * Thread code | Thread dimension according | M8x25 |

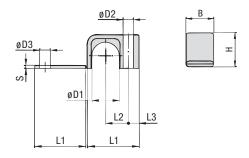
* Material code Carbon Steel, zinc/nickel-plated W3

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



Clamp Body • Single Design Type LB





Ordering Codes

| Clamp Body | *LB-*1*03 | .2-*PP |
|---|-----------|-----------------------|
| * Light Series: * STAUFF Group * Exact outside di * Material code (s | ` ' | 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

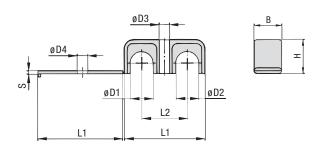
Pneumatics, Instrumentation and Automotive Technology,
 Machine Tool Industry, Lubrication, Mechanical Engineering

| Group | Outside I Pipe / Tul 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-** | | | | | | | | |
| | 13,5 | | 1/4 | LB-313.5-** | 34 | | | | | 2 | 6,8 | 7 |
| | 14 | | | LB-314-** | | 15 | 7 | 20 | 22,5 | | | |
| 3 | 15 | | | LB-315-** | 1.34 | .59 | .28 | .79 | .89 | .08 | .27 | .28 |
| | 16 | 5/8 | | LB-316-** | 1.04 | .00 | .20 | .75 | .09 | .00 | .21 | .20 |
| | 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 |
| 7 | 22 | | | LB-422-** | 1.65 | .75 | .28 | .79 | 1.18 | .08 | .27 | .28 |
| | 25 | | | LB-425-** | | | | | | | | |
| | 25,4 | 1 | | LB-425.4-** | | | | | | | | |

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







Clamp Body • Twin Design Types LBG / LBU



| Group | | 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 |
| 2 | 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-** | 2.09 | 1.10 | .19 | .09 | .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 |
| 4 | 22 | | | LBG-422/22-** | 2.76 | 1.50 | .79 | 1.18 | .08 | .27 | .28 |
| | 25 | | | LBG-425/25-** | | | | | | | |
| | 25,4 | 1 | | LBG-425.4/25.4-** | | | | | | | |

Additional outside diameters and combinations of different outside diameters (Clamp Body, Type LBU) are available upon request.

Please contact STAUFF for further information.

Ordering Codes Clamp Body *LBG-*1*03.2/03.2-*PP *Light Series: Clamp Body / Twin Design with identical diameters Clamp Body / Twin Design with different diameters *STAUFF Group LBU *Exact outside diameters Ø D1 / Ø D2 (mm) 03.2/03.2 *Material code (see below) PP

Standard Materials



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.

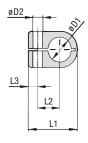
Applications

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



Clamp Body • Single Design **Type LN**







Ordering Codes

| Clamp Body | *LN-*1*06 | 6-*PP |
|---|--|---------------------|
| * Light Series: * STAUFF Group * Exact outside di * Material code (s | Clamp Body / Single Design ameter Ø D1 (mm) see below) | 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

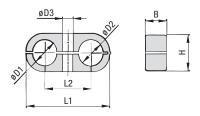
• Pneumatics, Instrumentation and Automotive Technology, Machine Tool Industry, Lubrication, Mechanical Engineering

| Group | | Diameter be / Hose | Nominal Bore Pipe | Ordering Codes (1 Clamp Body) | Dimens (mm/in) | sions | | | | |
|--------|------|-----------------------|-------------------------|----------------------------------|-------------------|-------|-----|------|------|------|
| STAUFF | (mm) | (in) | (in) | (** = Material) | L1 | L2 | L3 | В | Н | Ø D2 |
| | 6 | | | LN-106-** | 22 | 9 | 7 | 14,5 | 13,5 | 6,8 |
| 1 | 6,4 | 1/4 | | LN-106.4-** | .87 | .35 | .28 | .57 | .53 | .27 |
| | 8 | | | LN-108-** | .07 | .00 | .20 | .57 | .00 | .21 |
| | 8 | | | LN-208-** | | | | | | |
| | 9,5 | 3/8 | | LN-209.5-** | 27 | 11 | 7 | 14,5 | 18,5 | 6,8 |
| 2 | 10 | | 1/8 | LN-210-** | 1.06 | .43 | .28 | .57 | .59 | .27 |
| | 12 | | | LN-212-** | 1.00 | .40 | .20 | .51 | .00 | .21 |
| | 12,7 | 1/2 | | LN-212.7-** | | | | | | |
| | 10 | | 1/8 | LN-310-** | | | | 14,5 | 23,5 | |
| | 12 | | | LN-312-** | | | | | | |
| | 12,7 | 1/2 | | LN-312.7-** | 33 | 15 | 7 | | | 6.0 |
| 3 | 13,5 | | 1/4 | LN-313.5-** | 1.30 | .59 | .28 | .57 | .93 | 6,8 |
| | 14 | | | LN-314-** | 1.00 | .00 | .20 | .57 | .50 | .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 | 6,8 |
| 4 | 18 | | | LN-418-** | 1.57 | .75 | .28 | .57 | 1.20 | .27 |
| | 19 | 3/4 | | LN-419-** | 1.37 | .13 | .20 | .07 | 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) | Dimensio (mm/in) | ns | | | |
|--------|------|-------------------------------|-------------------------|----------------------------------|---------------------|------|------|------|------|
| STAUFF | (mm) | (in) | (in) | (** = Material) | L1 | L2 | В | Н | 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 | .55 | .21 |
| | 8 | | | LNGF-208/08-** | | | | | |
| | 9,5 | 3/8 | | LNGF-209.5/09.5-** | 41 | 22 | 115 | 10 5 | 6.0 |
| 2 | 10 | | 1/8 | LNGF-210/10-** | 1.61 | .86 | .57 | .73 | 6,8 |
| | 12 | | | LNGF-212/12-** | 1.01 | .00 | | | .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 | 115 | 00 E | 6.0 |
| 3 | 13,5 | | 1/4 | LNGF-313.5/13.5-** | 2.13 | 1.18 | .57 | .93 | 6,8 |
| | 14 | | | LNGF-314/14-** | 2.13 | 1.10 | .57 | .30 | .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 | 115 | 20.5 | 6.0 |
| 4 | 18 | | | LNGF-418/18-** | 70 2.76 | 1.50 | .57 | 30,5 | 6,8 |
| | 19 | 3/4 | | LNGF-419/19-** | 2.70 | 1.00 | .57 | 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.

Ordering Codes 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 with different diameters * STAUFF Group 1 * Exact outside diameters Ø D1 / Ø D2 (mm) 06/06 * Material code (see below) PP

Standard Materials



Material code: **PP**

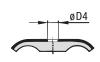


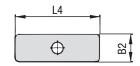
See pages 154/155 for material properties and technical information. Alternative materials are available upon request. Please contact STAUFF for further information.

Applications

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

Cover Plate Type DPL



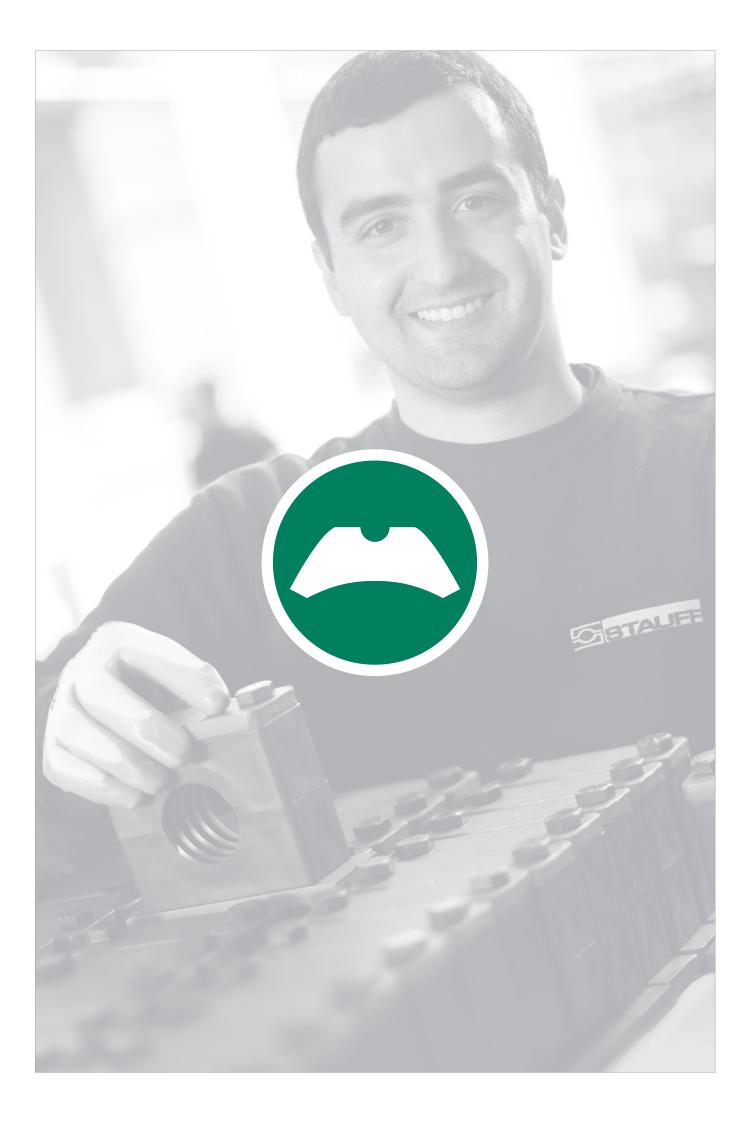




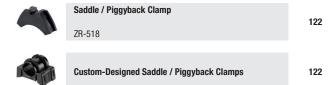
| Group | Dimensions (mm/in) | | Ordering Codes | |
|--------|--------------------|------|----------------|--------------------|
| STAUFF | L4 | B2 | Ø D4 | (Standard Options) |
| 1 | 29,5 | 15,5 | 6,8 | DPL-1-W3 |
| ' | 1.16 | .61 | .27 | DFL-1-W3 |
| 2 | 40 | 15,5 | 6,8 | DPL-2-W3 |
| 2 | 1.57 | .61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

| Ordering Codes | | | | | |
|--|------|--|--|--|--|
| Cover Plate *DPL-*1 | -*W3 | | | | |
| * Cover Plate for Clamp Body / Twin Design DP | | | | | |
| * STAUFF Group | 1 | | | | |
| * Material code Carbon Steel, zinc/nickel-plated | W3 | | | | |









Saddle / Piggyback Clamps Type ZR



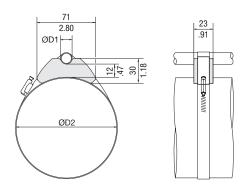
| Order Code | |
|--------------|---------------|
| Saddle Clamp | ZR-518-BK9005 |

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 | k | | Tightening Strap Dimensions (Not Included in Scope of Delivery) | | | | | |
|-----------------------------|---------------|---------|-----------|---|-------------|-------|------|--|--|
| Ø D1 | (in) | Ø D2 | (in) | Length | | Width | (in) | | |
| (mm) | (in) | (mm) | (in) | (mm) | (in) | (mm) | (in) | | |
| | | 50 70 | 1.96 2.76 | 196 254 | 7.71 10.00 | | .51 | | |
| | | 60 80 | 2.36 3.15 | 225 284 | 8.86 11.18 | 3 | | | |
| | | 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.

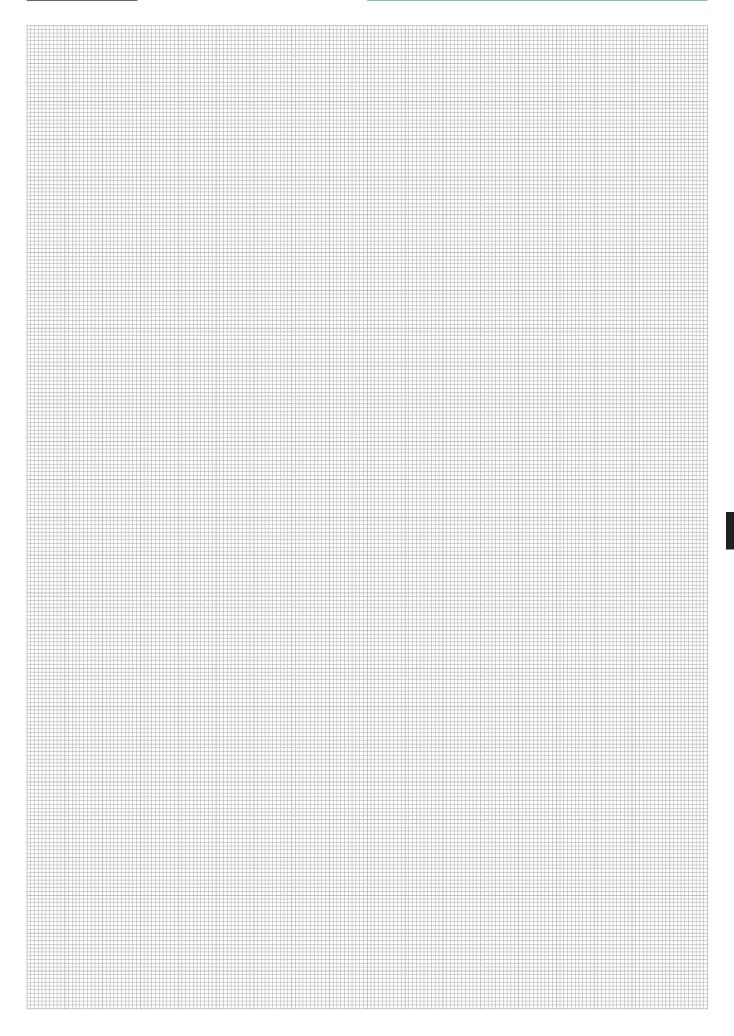
Please contact STAUFF for further information.

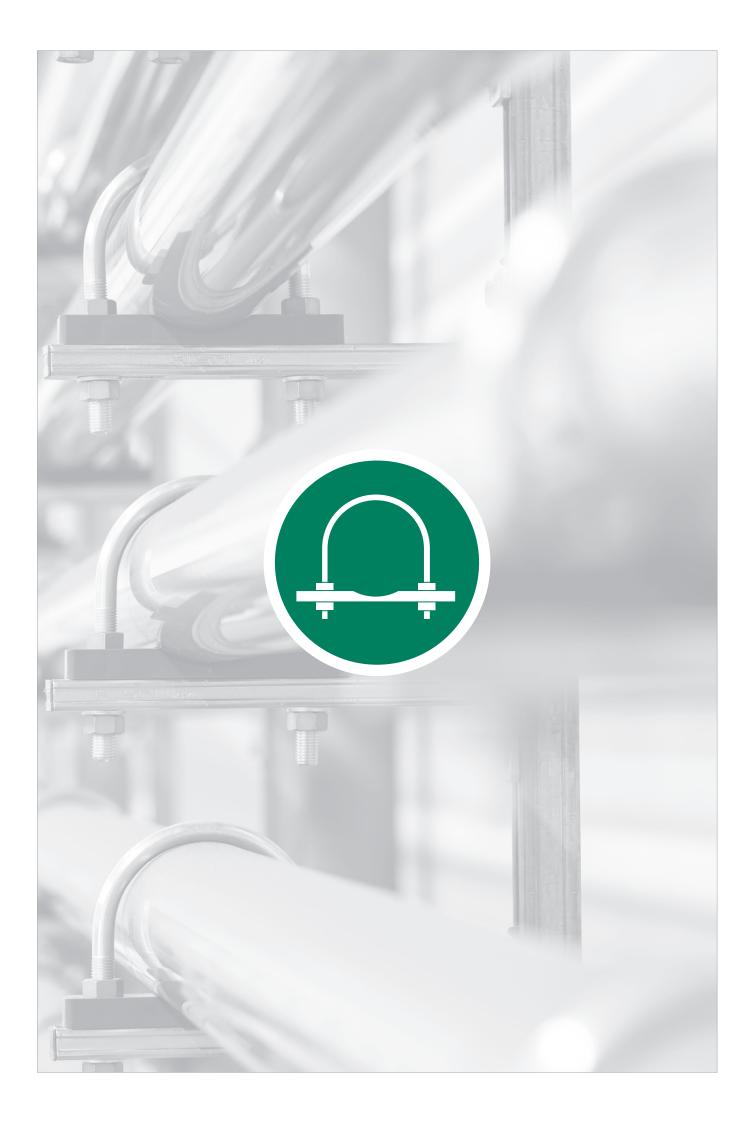


Dimensional drawings: All dimensions in mm (in).











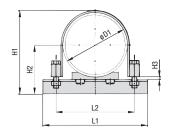


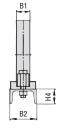
ESTAUFF ®

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

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







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

Ordering Codes

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

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

| | * Clamp Assembly | (as listed above) | FB+RUK |
|--|--------------------|---|----------------|
| | ameter Ø D1 (mm) | 48.3 | |
| | * Material of Pipe | Saddle (see below) | PP |
| | * Material code | Carbon Steel, uncoated Carbon Steel, zinc-plated, blue-chromated | W1 W33 |
| | | Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 | Ti) W56 |
| | Please note: | The U-Profile (to DIN 1026) is n Carbon Steel, uncoated. All iten supplied non-assembled. | |

Standard Materials for Plastic Pipe Saddles



Polypropylene Colour: Green





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.

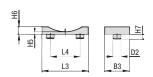
Applications

- 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' | 0.1.11 | D' | No selection of | Dimensions (mm/ _{in}) | | | | | | | | | |
|---------------------|-------------------|----------|-------------------------|---------------------------------|-------------------------|-------|-------|--------|------------|-------------|--|--|--|
| Diameter Nominal | | Diameter | Nominal Bore Pipe | Dimensi | Dillicipiolig (/in) | | | | | | | | |
| Womman | Ø D1 | 100 | | Flat Ste | U-Profile (DIN 1026) | | | | | | | | |
| DN | (mm) | (in) | (in) | L1 | L2 | H1 | H2 | Н3 | B1 | B2 x H4 | | | |
| 40 | 40.0 | 1.00 | 1.1/0 | 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 | | | |
| | E-7 | 2.20 | | 115 | 85 | 103 | 71,5 | 5 | 20 x 3 | 50 x 38 | | | |
| E0. | 57 | 2.28 | | 4.53 | 3.35 | 4.06 | 2.81 | .20 | .78 x .12 | 1.97 x 1.50 | | | |
| 50 | 60.2 | 2.41 | 2 | 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 | | | |
| 65 | 76,1 | 3.04 | 2-1/2 | 132 | 104 | 122 | 81 | 5 | 20 x 3 | 50 x 38 | | | |
| 00 | 70,1 | 0.04 | 2-1/2 | 5.20 | 4.09 | 4.80 | 3.19 | .20 | .78 x .12 | 1.97 x 1.50 | | | |
| 80 | 88,9 | 3.56 | 3 | 160 | 122 | 146 | 97,5 | 8 | 40 x 4 | 80 x 45 | | | |
| 00 | 00,5 | 0.00 | 3 | 6.30 | 4.80 | 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 | 100 | 7.02 | | 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 | | | | |
| | 114,0 | 4.57 | 7 | 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 | 100 | 0.02 | | 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 | | | |
| | 100,1 | 0.00 | 3 | 8.27 | 6.77 | 7.76 | 4.84 | .31 | 1.57 x .16 | 3.15 x 1.77 | | | |
| | 159 | 6.36 | | 265 | 201 | 220 | 132,5 | 8 | 40 x 6 | 80 x 45 | | | |
| 150 | 100 | 0.00 | | 1.43 | 7.91 | 8.66 | 5.22 | .31 | 1.57 x .24 | 3.15 x 1.77 | | | |
| 130 | 168,3 | 6.73 | 6 | 275 | 211 | 230 | 137 | 8 | 40 x 6 | 80 x 45 | | | |
| | 100,5 | 0.75 | 0 | 1.83 | 8.31 | 9.06 | 5.39 | .31 | 1.57 x .24 | 3.15 x 1.77 | | | |
| 175 | 193,7 | 7.75 | | 305 | 236 | 255 | 150 | 8 | 40 x 6 | 80 x 45 | | | |
| 170 | 100,7 | 7.70 | | 12.01 | 9.29 | 1.04 | 5.91 | .31 | 1.57 x .24 | 3.15 x 1.77 | | | |
| | 216 | 8.64 | | 320 | 260 | 277 | 161 | 8 | 40 x 6 | 80 x 45 | | | |
| 200 | 210 | 0.04 | | 12.60 | 1.24 | 1.91 | 6.34 | .31 | 1.57 x .24 | 3.15 x 1.77 | | | |
| 200 | 219,1 | 8.76 | 8 | 320 | 261 | 280 | 162,5 | 8 | 40 x 6 | 80 x 45 | | | |
| | 210,1 | 0.70 | 0 | 12.60 | 1.28 | 11.02 | 6.40 | .31 | 1.57 x .24 | 3.15 x 1.77 | | | |
| | 267 | 10.68 | | 380 | 325 | 328 | 186,5 | 8 | 40 x 8 | 80 x 45 | | | |
| 250 | | 10.00 | | 14.96 | 12.80 | 12.91 | 7.34 | .31 | 1.57 x .31 | 3.15 x 1.77 | | | |
| 200 | 273 | 10.92 | 10 | 385 | 330 | 334 | 189,5 | 8 | 40 x 8 | 80 x 45 | | | |
| | | 10.02 | 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 | 0.0 | 12.72 | | 17.32 | 14.76 | 15.04 | 8.35 | .31 | 1.57 x .31 | 3.15 x 1.77 | | | |
| | 323,9 | 12.96 | 12 | 450 | 382 | 390 | 215 | 8 | 40 x 8 | 80 x 45 | | | |
| | ,- | 1 | | 17.72 | 15.04 | 15.35 | 8.46 | .31 | 1.57 x .31 | 3.15 x 1.77 | | | |
| | 355,6 | 14.22 | 14 | 480 | 420 | 421 | 235 | 12 | 60 x 8 | 100 x 50 | | | |
| 350 | | | | 18.90 | 16.54 | 16.57 | 9.25 | .47 | 2.36 x .31 | 3.94 x 1.97 | | | |
| | 368 | 14.72 | | 490 | 430 | 434 | 242 | 12 | 60 x 8 | 100 x 50 | | | |
| | | | | 19.29 | 16.93 | 17.09 | 9.53 | .47 | 2.36 x .31 | 3.94 x 1.97 | | | |
| | 406,4 | 16.26 | 16 | 550 | 470 | 472 | 261 | 12 | 60 x 8 | 100 x 50 | | | |
| | , | | | 21.65 | 18.50 | 18.58 | 1.28 | .47 | 2.36 x .31 | 3.94 x 1.97 | | | |
| 400 | 419 | 16.76 | | 550 | 482 | 485 | 267,5 | 12 | 60 x 8 | 100 x 50 | | | |
| | | | | 21.65 | 18.98 | 19.09 | 1.53 | .47 | 2.36 x .31 | 3.94 x 1.97 | | | |
| | 457 | 18.28 | 18 | 585 | 520 | 523 | 286,5 | 12 | 60 x 8 | 100 x 50 | | | |
| | | | | 23.03 | 2.47 | 2.59 | 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 | | | | 24.80 | 22.44 | 22.60 | 12.28 | .47 | 2.36 x .31 | 3.94 x 1.97 | | | |
| | 521 | 20.84 | | 640 | 585 | 587 | 319 | 12 | 60 x 8 | 100 x 50 | | | |
| | | | | 25.20 | 23.03 | 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)

| (For | size DN 40 |), dimensio | ın L4 is staç | (accord | (according to DIN EN ISO 4014 / 4017) | | | | | | | |
|---------------------|----------------------|----------------|-----------------|---|---|------------|------|-----|------|--|--------------|--|
| Diameter Nominal | Outside Pipe / Tu | Diameter be | Nominal Bore | Dimen | Dimensions (^{mm} / _{in}) Hexagon Head Bo | | | | | | | |
| DN | Ø D1 (mm) | (in) | Pipe (in) | Plastic Pipe Saddle (type RUK) L3 L4 B3 D2 | | | Н5 | Н6 | H7 | (DIN EN ISO 4014 / 4017) Thread G x L | | |
| 40 | 40.2 | 1.00 | 1 1/0 | 24 | 25 | 35 | 8 | 5 | 8 | 5 | M10 v 40 | |
| 40 | 48,3 | 1.93 | 1-1/2 | .94 | .98 | 1.38 | .31 | .20 | .31 | .20 | M10 x 40 | |
| | 57 | 2.28 | | 38 | 25 | 50 | 10 | 5 | 10 | 6 | M10 x 40 | |
| 50 | 37 | 2.20 | | 1.50 | .98 | 1.97 | .39 | .20 | .39 | .24 | W110 X 40 | |
| 30 | 60,3 | 2.41 | 2 | 38 | 25 | 50 | 10 | 5 | 10 | 6 | M10 x 40 | |
| | 00,5 | 2.41 | | 1.50 | .98 | 1.97 | .39 | .20 | .39 | .24 | W110 X 40 | |
| 65 | 76,1 | 3.04 | 2-1/2 | 38 | 25 | 50 | 10 | 5 | 10 | 6 | M10 x 40 | |
| 00 | 70,1 | 0.01 | 2 1/2 | 1.50 | .98 | 1.97 | .39 | .20 | .39 | .24 | IMTO X TO | |
| 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 | | 1 | | 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 | .39 | | | |
| | 133 | 5.32 | | 75 | 40 | 70 | 15 | 8 | 17 | 10 | M 12 x 55 | |
| 125 | | | | 2.95 | 1.57 | 2.76 | .59 | .31 | .67 | .39 | | |
| | 139,7 | 5.59 | 5 | 75 | 40 | 70 | 15 | 8 | 17 | 10 | M 12 x 55 | |
| 117, | | | | 2.95 | 1.57 | 2.76 | .59 | .31 | .67 | .39 | | |
| 159 168 | 159 | 6.36 | | 140 | 90 | 75 | 25 | 8 | 26 | 10 | M 16 x 75 | |
| | | | | 5.51 | 3.54 | 2.95 | .98 | .31 | 1.02 | .39 | | |
| | 168,3 | 6.73 | 6 | 140 | 90 3.54 | 75 | .98 | .31 | 1.02 | .39 | M 16 x 75 | |
| | | | | 5.51 | 90 | 2.95 75 | 25 | 8 | 26 | | | |
| 175 | 193,7 | 7.75 | | | 3.54 | 2.95 | .98 | .31 | 1.02 | 10 | M 16 x 75 | |
| | | | | 5.51 | 90 | 75 | 25 | 8 | 26 | .39 | | |
| | 216 | 8.64 | | 5.51 | 3.54 | 2.95 | .98 | .31 | 1.02 | .39 | M 16 x 75 | |
| 200 | | | | 140 | 90 | 75 | 25 | .31 | 26 | 10 | | |
| | 219,1 | 8.76 | 8 | 5.51 | 3.54 | 2.95 | .98 | .31 | 1.02 | .39 | M 16 x 75 | |
| | | | | 140 | 90 | 75 | 25 | 8 | 26 | 10 | | |
| | 267 | 10.68 | | 5.51 | 3.54 | 2.95 | .98 | .31 | 1.02 | .39 | M 20 x 80 | |
| 250 | | | | 140 | 90 | 75 | 25 | 8 | 26 | 10 | | |
| | 273 | 10.92 | 10 | 5.51 | 3.54 | 2.95 | .98 | .31 | 1.02 | .39 | M 20 x 80 | |
| | | | | 220 | 150 | 75 | 30 | 8 | 32 | 10 | | |
| 000 | 318 | 12.72 | | 8.66 | 5.91 | 2.95 | 1.18 | .31 | 1.26 | .39 | M 20 x 80 | |
| 300 | 200 | 40.00 | 40 | 220 | 150 | 75 | 30 | 8 | 32 | 10 | 14.00 | |
| | 323,9 | 12.96 | 12 | 8.66 | 5.91 | 2.95 | 1.18 | .31 | 1.26 | .39 | M 20 x 80 | |
| | 255.0 | 14.00 | 14 | 220 | 150 | 75 | 30 | 8 | 32 | 10 | M 04 v 100 | |
| 250 | 355,6 | 14.22 | 14 | 8.66 | 5.91 | 2.95 | 1.18 | .31 | 1.26 | .39 | M 24 x 100 | |
| 350 | 260 | 14.70 | | 220 | 150 | 75 | 30 | 8 | 32 | 10 | M 24 v 100 | |
| | 368 | 14.72 | | 8.66 | 5.91 | 2.95 | 1.18 | .31 | 1.26 | .39 | M 24 x 100 | |
| | 406,4 | 16.26 | 16 | 220 | 150 | 75 | 30 | 8 | 32 | 10 | M 24 x 100 | |
| | 400,4 | 10.20 | 10 | 8.66 | 5.91 | 2.95 | 1.18 | .31 | 1.26 | .39 | IVI Z4 A TUU | |
| 400 | 419 | 16.76 | | 220 | 150 | 75 | 30 | 8 | 32 | 10 | M 24 x 100 | |
| 100 | TIU | 10.70 | | 8.66 | 5.91 | 2.95 | 1.18 | .31 | 1.26 | .39 | IN LT A TOO | |
| | 457 | 18.28 | 18 | 220 | 150 | 75 | 30 | 8 | 32 | 10 | M 24 x 100 | |
| | | 10.20 | 10 | 8.66 | 5.91 | 2.95 | 1.18 | .31 | 1.26 | .39 | 217,100 | |
| | 508 | 20.32 | 20 | 220 | 150 | 75 | 30 | 8 | 32 | 10 | M 24 x 100 | |
| 500 | 300 | 20.02 | 20 | 8.66 | 5.91 | 2.95 | 1.18 | .31 | 1.26 | .39 | 217.100 | |
| 500 | 521 | 20.84 | | 220 | 150 | 75 | 30 | 8 | 32 | 10 | M 24 x 100 | |
| | | | | 8.66 | 5.91 | 2.95 | 1.18 | .31 | 1.26 | .39 | | |



Ordering Codes

Flat Steel U-Bolt *FB-*A-48.3-*W1

* Flat Steel U-Bolt

FB

* Exact outside diameter Ø D1 (mm)

* Material code Carbon Steel, uncoated W1

Carbon Steel, zinc-plated, blue-chromated

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

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

* Plastic Pipe Saddle (Short)

RUK

A-48.3

W32

* Exact outside diameter Ø D1 (mm)

48.3

PP

* Material of Pipe Saddle (see below)

Please note: All items are supplied non-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.

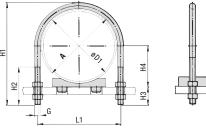
Applications

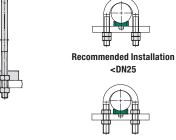
- Standing or hanging installation of pipes and tubes on beams, profiles and consoles
- Design with two threaded ends allows for ideal adaptation to suit the exact outer diameter of the pipe or tube

STAUFF®

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







Round Steel U-Bolt (type RB) with Plastic Pipe Saddle (type RUK)

Recommended Installation > DN25

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+R0 | | | | | | | | | | |
|--|-----------------------|--|--|--|--|--|--|--|--|--|
| | 48.3 | * Exact outside diameter Ø D1 (mm) | | | | | | | | |
| | PP | * Material of Pipe Saddle (see below) | | | | | | | | |
| | W1 d, W32 | * Material code Carbon Steel, uncoated Carbon Steel, zinc-plated, blue-chromated | | | | | | | | |
| | 6 / 316 Ti) W5 | Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 3 | | | | | | | | |

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

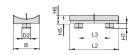
- Standing or hanging installation of pipes and tubes on beams, profiles and consoles
- Design with two threaded ends allows for ideal adaptation to suit the exact outer diameter of the pipe or tube

| Diameter | Outside I | Diameter | Nominal | Dimensions (mm/in) | | | | | | | | |
|----------|--------------------|----------|--------------|---------------------|--------------|--------------|-------------|------------|---------------|----------|--|--|
| Nominal | Pipe / Tul Ø D1 | be | Bore Pipe | Round St | teel U-Bolt | (Type RR) | | | | | | |
| DN | (mm) | (in) | (in) | A | L1 | H1 | H2 | Н3 | H4 | Thread G | | |
| | 25 | .98 | | | 40 | 73,5 | 41 | 30 | 17,5 | M10 | | |
| 20 | 20 | .90 | | 30 | 1.57 | 2.89 | 1.61 | 1.18 | .69 | IVITO | | |
| 20 | 26,9 | 1.06 | 3/4 | 1.18 | 40 | 73,5 | 41 | 30 | 18,5 | M10 | | |
| | | | | | 1.57 | 2.89 | 1.61 48 | 1.18 | .73 20 | | | |
| | 30 | 1.18 | | 38 | 1.89 | 3.19 | 1.89 | 1.18 | .79 | M10 | | |
| 25 | 33,7 | 1.33 | 1 | 1.50 | 48 | 81 | 48 | 30 | 22 | M10 | | |
| | 33,1 | 1.00 | 1 | | 1,89 | 3,19 | 1,89 | 1,18 | .87 | IVITO | | |
| | 38 | 1.50 | | 46 | 56 | 89 | 48 | 30 | .94 | M10 | | |
| 32 | | | | 46 1.81 | 2.20 56 | 3.50 89 | 1.89 | 1.18 | 26,2 | | | |
| | 42,4 | 1.69 | 1-1/4 | 1.01 | 2.20 | 3.50 | 1.89 | 1.18 | 1.03 | M10 | | |
| | 44,5 | 1.76 | | | 62 | 100 | 55 | 35 | 27,2 | M10 | | |
| 40 | 44,3 | 1.70 | | 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 | | |
| | | | | | 76 | 118 | 63 | 39 | 33,5 | | | |
| | 57 | 2.28 | | 64 | 2.99 | 4.65 | 2.48 | 1.54 | 1.32 | M12 | | |
| 50 | 60,3 | 2.41 | 2 | 2.52 | 76 | 118 | 63 | 39 | 35,2 | M12 | | |
| | 00,0 | 2.41 | | | 2.99 | 4.65 | 2.48 | 1.54 | 1.39 | IVITZ | | |
| 65 | 76,1 | 3.04 | 2-1/2 | 82 | 94 | 135 | 77 | 39 | 43 | M12 | | |
| | | | | 3.23 94 | 3.70 | 5.31 152 | 3.03 82 | 1.54 41 | 1.69 52,5 | | | |
| 80 | 88,9 | 3.56 | 3 | 3.70 | 4.17 | 5.98 | 3.23 | 1.61 | 2.07 | M12 | | |
| | 108 | 4.32 | | | 136 | 190 | 105 | 49 | 62 | M16 | | |
| 100 | 100 | 4.02 | | 120 | 5.35 | 7.48 | 4.13 | 1.93 | 2.44 | WITO | | |
| 100 | 114,3 | 4.57 | 4 | 4.72 | 136 | 190 | 105 | 49 | 65 | M16 | | |
| | | | | | 5.35 | 7.48 | 4.13 105 | 1.93 | 2.56 74,5 | | | |
| 405 | 133 | 5.32 | | 148 | 6.46 | 8.54 | 4.13 | 1.93 | 2.93 | M16 | | |
| 125 | 139,7 | 5.59 | 5 | 5.83 | 164 | 217 | 105 | 49 | 78 | M16 | | |
| | 100,1 | 0.00 | 3 | | 6.46 | 8.54 | 4.13 | 1.93 | 3.07 | WITO | | |
| | 159 | 6.36 | | 176 | 192 7.56 | 247 9.72 | 105 4.13 | 51 2.01 | 87,5 3.44 | M16 | | |
| 150 | | | | 6.93 | 192 | 247 | 105 | 51 | 92 | | | |
| | 168,3 | 6.73 | 6 | | 7.56 | 9.72 | 4.13 | 2.01 | 3.62 | M16 | | |
| 175 | 193,7 | 7.75 | | 202 | 218 | 273 | 105 | 51 | 105 | M16 | | |
| 170 | 100,1 | 7.70 | | 7.96 | 8.58 | 10.75 | 4.13 | 2.01 | 4.13 | Wild | | |
| | 216 | 8.64 | | 228 | 9.76 | 311 12.24 | 125 4.92 | 59 2.32 | 116 4.57 | M20 | | |
| 200 | | | | 8.98 | 248 | 311 | 125 | 59 | 117,5 | | | |
| | 219,1 | 8.76 | 8 | | 9.76 | 12.24 | 4.92 | 2.32 | 4.63 | M20 | | |
| | 267 | 10.68 | | | 303 | 364 | 125 | 59 | 141,5 | M20 | | |
| 250 | | | | 282 | 11.93 302 | 14.33 364 | 4.92 125 | 2.32 59 | 5.57 | ··· | | |
| | 273 | 10.92 | 10 | 11.10 | 11.89 | 14.33 | 4.92 | 2.32 | 144,5 5.69 | M20 | | |
| | 040 | 10.70 | | | 352 | 418 | 125 | 62 | 167 | MOO | | |
| 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 | | |
| | ,- | | | | 13.86 402 | 16.46 475 | 4.92 145 | 2.44 70 | 6.69 186 | | | |
| | 355,6 | 14.22 | 14 | 378 | 15.83 | 18.70 | 5.71 | 2.76 | 7.32 | M24 | | |
| 350 | 200 | 1470 | | 14.88 | 402 | 475 | 145 | 70 | 192 | MOA | | |
| | 368 | 14.72 | | | 15.83 | 18.70 | 5.71 | 2.76 | 7.56 | M24 | | |
| | 406,4 | 16.26 | 16 | 400 | 452 | 526 | 145 | 70 | 211 | M24 | | |
| 400 | ,. | | | 428 16.85 | 17.80 | 20.71 | 5.71 | 2.76 | 8.31 | | | |
| | 419 | 16.76 | | 10.00 | 452 17.80 | 526 20.71 | 145 5.71 | 70 2.76 | 217,5 8.56 | M24 | | |
| | 500 | 20.22 | 20 | | 554 | 627 | 145 | 70 | 262 | M24 | | |
| 500 | 508 | 20.32 | 20 | 530 | 21.81 | 24.69 | 5.71 | 2.76 | 10.31 | M24 | | |
| 500 | 521 | 20.84 | | 20.87 | 554 | 627 | 145 | 70 | 269 | M24 | | |
| | <u> </u> | | | | 21.81 | 24.69 | 5.71 | 2.76 | 10.59 | | | |

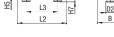
PP



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 R | lUK) |
|-----------------------------|------|
| (From size DN 50 on) | |

| Diameter Outside Diameter Nominal Nominal Pipe / Tube Bore | | | | Dimensions (mm/ _{In}) | | | | | | | | |
|--|--------------|-------|--------------|---------------------------------|-------------|-------------|------------|----------|------------|-----------|------------|--|
| DN | Ø D1 (mm) | (in) | Pipe (in) | Plastic F | Pipe Sadd | le (Type RL | IK) B | Н5 | Н6 | Н7 | D2 | |
| Dit | | | () | | 35 | 25 | 24 | 5 | 8 | 5 | 8 | |
| 20 | 25 | .98 | | 30 | 1.38 | .98 | .94 | .20 | .31 | .20 | .31 | |
| 20 | 26,9 | 1.06 | 3/4 | 1.18 | 35 | 25 | 24 | 5 | 8 | 5 | 8 | |
| | 20,5 | 1.00 | 0/ 4 | | 1.38 | .98 | .94 | .20 | .31 | .20 | .31 | |
| | 30 | 1.18 | | 00 | 35 | 25 | 24 | 5 | 8 | 5 | 8 | |
| 25 | | | | 38 1.50 | 1.38 | .98 25 | .94 24 | .20 5 | .31 | .20 | .31 | |
| | 33,7 | 1.33 | 1 | 1.00 | 1.38 | .98 | .94 | .20 | .31 | .20 | .31 | |
| | 20 | 1 50 | | | 35 | 25 | 24 | 5 | 8 | 5 | 8 | |
| 32 | 38 | 1.50 | | 46 | 1.38 | .98 | .94 | .20 | .31 | .20 | .31 | |
| 02 | 42,4 | 1.69 | 1-1/4 | 1.81 | 35 | 25 | 24 | 5 | 8 | 5 | 8 | |
| | , | | | | 1.38 | .98 25 | .94 24 | .20 | .31 | .20 5 | .31 | |
| | 44,5 | 1.76 | | 52 | 1.38 | .98 | .94 | .20 | .31 | .20 | .31 | |
| 40 | 40.0 | 1.00 | 1 1/0 | 2.05 | 35 | 25 | 24 | 5 | 8 | 5 | 8 | |
| | 48,3 | 1.90 | 1-1/2 | | 1.38 | .98 | .94 | .20 | .31 | .20 | .31 | |
| | 57 | 2.28 | | | 38 | 25 | 50 | 5 | 10 | 6 | 10 | |
| 50 | | | | 64 | 1.50 | .98 | 1.97 | .20 | .39 | .24 | .39 | |
| | 60,3 | 2.41 | 2 | 2.52 | 38 1.50 | .98 | 50 1.97 | .20 | .39 | .24 | .39 | |
| 05 | | 204 | 0.4/0 | 82 | 38 | 25 | 50 | 5 | 10 | 6 | 10 | |
| 65 | 76,1 | 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 | |
| | 00,0 | 0.00 | 0 | 3.70 | 2.95 | 1.57 | 2.76 | .31 | .67 | .39 | .59 | |
| | 108 | 4.32 | | 100 | 75 | 40 | 70 | 8 | 17 | 10 | 15 | |
| 100 | | | | 120 4.72 | 2.95 75 | 1.57 | 2.76 | .31 | .67 17 | .39 10 | .59 15 | |
| | 114,3 | 4.57 | 4 | 1.72 | 2.95 | 1.57 | 2.76 | .31 | .67 | .39 | .59 | |
| | 133 | 5.32 | | | 75 | 40 | 70 | 8 | 17 | 10 | 15 | |
| 125 | 133 | 0.02 | | 148 | 2.95 | 1.57 | 2.76 | .31 | .67 | .39 | .59 | |
| | 139,7 | 5.59 | 5 | 5.83 | 75 | 40 | 70 | .31 | 17 | 10 | 15 | |
| | | | | | 2.95 | 1.57 | 2.76 75 | 8 | .67 26 | .39 | .59 25 | |
| 450 | 159 | 6.36 | | 176 | 5.51 | 3.54 | 2.95 | .31 | 1.02 | .39 | .98 | |
| 150 | 168,3 | 6.73 | 6 | 6.93 | 140 | 90 | 75 | 8 | 26 | 10 | 25 | |
| | 100,5 | 0.73 | 0 | | 5.51 | 3.54 | 2.95 | .31 | 1.02 | .39 | .98 | |
| 175 | 193,7 | 7.75 | | 202 | 140 | 90 | 75 | 8 | 26 | 10 | 25 | |
| | | | | 7.96 | 5.51 | 3.54 90 | 2.95 75 | .31 | 1.02 | .39 10 | .98 25 | |
| | 216 | 8.64 | | 228 | 5.51 | 3.54 | 2.95 | .31 | 1.02 | .39 | .98 | |
| 200 | 219,1 | 8.76 | 8 | 8.98 | 140 | 90 | 75 | 8 | 26 | 10 | 25 | |
| | 213,1 | 0.70 | O | | 5.51 | 3.54 | 2.95 | .31 | 1.02 | .39 | .98 | |
| | 267 | 10.68 | | 000 | 140 | 90 | 75 | 8 | 26 | 10 | 25 | |
| 250 | | | | 282 11.10 | 5.51 140 | 3.54 90 | 2.95 75 | .31 | 1.02 | .39 10 | .98 25 | |
| | 273 | 10.92 | 10 | 11.10 | 5.51 | 3.54 | 2.95 | .31 | 1.02 | .39 | .98 | |
| | 210 | 10.70 | | | 220 | 150 | 75 | 8 | 32 | 10 | 30 | |
| 300 | 318 | 12.72 | | 332 | 8.66 | 5.91 | 2.95 | .31 | 1.26 | .39 | 1.18 | |
| 000 | 323,9 | 12.96 | 12 | 13.07 | 220 | 150 | 75 | 8 | 32 | 10 | 30 | |
| | - | | | | 8.66 220 | 5.91 150 | 2.95 75 | .31 | 1.26 | .39 | 1.18 | |
| | 355,6 | 14.22 | 14 | 378 | 8.66 | 5.91 | 2.95 | .31 | 1.26 | .39 | 1.18 | |
| 350 | 200 | 14.70 | | 14.88 | 220 | 150 | 75 | 8 | 32 | 10 | 30 | |
| | 368 | 14.72 | | | 8.66 | 5.91 | 2.95 | .31 | 1.26 | .39 | 1.18 | |
| | 406,4 | 16.26 | 16 | 40.5 | 220 | 150 | 75 | 8 | 32 | 10 | 30 | |
| 400 | ,. | | | 16.05 | 8.66 | 5.91 | 2.95 | .31 | 1.26 | .39 | 1.18 | |
| | 419 | 16.76 | | 16.85 | 220 8.66 | 150 5.91 | 75 2.95 | .31 | 32 1.26 | .39 | 30 1.18 | |
| | | 0.05 | 00 | | 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 | 521 | 2.84 | | 2.87 | 220 | 150 | 75 | 8 | 32 | 10 | 30 | |
| | J | 2.0 1 | | | 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) inlcludes four Nuts (to DIN EN ISO 4032).

* Round Steel U-Bolt RB * Dimension A (mm) A-52

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

W32 blue-chromated 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) 48.3

* 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

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

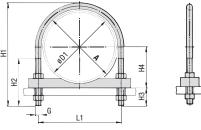
Applications

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



Round Steel U-Bolt with Plastic Pipe Saddle (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+R | | | | | | | | |
|--|--|-----------|--|--|--|--|--|--|
| * Exact outside di | ameter Ø D1 (mm) | 48.3 | | | | | | |
| * Material of Pipe Saddle (see below) | | | | | | | | |
| * Material code | Carbon Steel, uncoated Carbon Steel, zinc-plated, blue-chromated | W1 W32 | | | | | | |
| | Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 | Ti) W5 | | | | | | |
| 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.

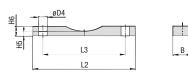
Applications

- 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

| | outside Diameter Il Pipe / Tube | | Nominal Bore | Dimensions (mm/in) | | | | | | | |
|--------|---------------------------------|---------|-----------------|--------------------|--------------|--------------|-------------|------------|---------------|----------|--|
| Nomina | Ø D1 | ibe | Pipe | Round S | teel U-Bol | t (Type RB | 3) | | | | |
| DN | (mm) | (in) | (in) | Α | L1 | H1 | H2 | Н3 | H4 | Thread G | |
| | 25 | .98 | | | 40 | 73,5 | 41 | 30 | 17,5 | M10 | |
| 20 | | | | 30 | 1.57 | 2.89 | 1.61 | 1.18 | .69 | | |
| | 26,9 | 1.06 | 3/4 | 1.18 | 40 | 73,5 | 41 | 30 | 18.5 | M10 | |
| | | | | | 1.57 | 2.89 | 1.61 | 1.18 | .73 20 | | |
| | 30 | 1.18 | | 38 | 1.89 | 3.19 | 1.89 | 1.18 | .79 | M10 | |
| 25 | | | | 1.50 | 48 | 81 | 48 | 30 | 22 | | |
| | 33,7 | 1.33 | 1 | | 1.89 | 3.19 | 1.89 | 1.18 | .87 | M10 | |
| | 20 | 1.50 | | | 56 | 89 | 48 | 30 | 24 | Mio | |
| 32 | 38 | 1.50 | | 46 | 2.20 | 3.50 | 1.89 | 1.18 | .94 | M10 | |
| 32 | 42,4 | 1.69 | 1-1/4 | 1.81 | 56 | 89 | 48 | 30 | 26,2 | M10 | |
| | 12,1 | 1.00 | 1 1/ 1 | | 2.20 | 3.50 | 1.89 | 1.18 | 1.03 | INITO | |
| | 44,5 | 1.76 | | 50 | 62 | 100 | 55 | 35 | 27,2 | M10 | |
| 40 | | | | 52 2.05 | 2.44 62 | 3.94 | 2.17 55 | 1.38 | 1.07 | | |
| | 48,3 | 1.90 | 1-1/2 | 2.00 | 2.44 | 3.94 | 2.17 | 1.38 | 1.14 | M10 | |
| | | | | | 76 | 118 | 63 | 39 | 33,5 | | |
| | 57 | 2.28 | | 64 | 2.99 | 4.65 | 2.48 | 1.54 | 1.32 | M12 | |
| 50 | CO 0 | 0.44 | 0 | 2.52 | 76 | 118 | 63 | 39 | 35,2 | Mio | |
| | 60,3 | 2.41 | 2 | | 2.99 | 4.65 | 2.48 | 1.54 | 1.39 | M12 | |
| 65 | 76,1 | 3.04 | 2-1/2 | 82 | 94 | 135 | 77 | 39 | 43 | M12 | |
| 00 | 70,1 | 3.04 | 2-1/2 | 3.23 | 3.70 | 5.31 | 3.03 | 1.54 | 1.69 | IVITZ | |
| 80 | 88,9 | 3.56 | 3 | 94 | 106 | 152 | 82 | 39 | 54,5 | M12 | |
| | ,- | | _ | 3.70 | 4.17 | 5.98 | 3.23 | 1.54 | 2.15 | | |
| | 108 | 4.32 | | 120 | 136 | 190 | 105 | 47 | 64 | M16 | |
| 100 | | | | 4.72 | 5.35 | 7.48 190 | 4.13 | 1.85 47 | 2.52 67 | | |
| | 114,3 | 4.57 | 4 | 4.72 | 5.35 | 7.48 | 4.13 | 1.85 | 2.64 | M16 | |
| | 100 | 5.00 | | | 164 | 217 | 105 | 47 | 76,5 | 1440 | |
| 105 | 133 | 5.32 | | 148 | 6.46 | 8.54 | 4.13 | 1.85 | 3.01 | M16 | |
| 125 | 139,7 | 5.59 | 5 | 5.83 | 164 | 217 | 105 | 47 | 80 | M16 | |
| | 100,7 | 0.00 | 3 | | 6.46 | 8.54 | 4.13 | 1.85 | 3.15 | WITO | |
| | 159 | 6.36 | | | 192 | 247 | 105 | 47 | 91,5 | M16 | |
| 150 | | 1 1 1 1 | | 176 | 7.56 | 9.72 | 4.13 | 1.85 | 3.60 | | |
| | 168,3 | 6.73 | 6 | 6.93 | 192 7.56 | 9.72 | 105 4.13 | 47 1.85 | 96 3.78 | M16 | |
| | | | | 202 | 218 | 273 | 105 | 47 | 109 | | |
| 175 | 193,7 | 7.75 | | 7.96 | 8.58 | 10.75 | 4.13 | 1.85 | 4.29 | M16 | |
| | 010 | 0.04 | | | 248 | 311 | 125 | 55 | 120 | MOO | |
| 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 | 311 | 125 | 55 | 121,5 | M20 | |
| | 210,1 | 0.70 | 0 | | 9.76 | 12.24 | 4.92 | 2.17 | 4.78 | WEG | |
| | 267 | 10.68 | | 000 | 303 | 364 | 125 | 55 | 145,5 | M20 | |
| 250 | | | | 282 11.10 | 11.93 302 | 14.33 364 | 4.92 125 | 2.17 55 | 5.73 148,5 | | |
| | 273 | 10.92 | 10 | 11.10 | 11.89 | 14.33 | 4.92 | 2.17 | 5.85 | M20 | |
| | 040 | 40.70 | | | 352 | 418 | 125 | 55 | 174 | 1400 | |
| 200 | 318 | 12.72 | | 332 | 13.86 | 16.46 | 4.92 | 2.17 | 6.85 | M20 | |
| 300 | 323,9 | 12.96 | 12 | 13.07 | 352 | 418 | 125 | 55 | 177 | M20 | |
| | 323,9 | 12.90 | 12 | | 13.86 | 16.46 | 4.92 | 2.17 | 6.97 | IVIZU | |
| | 355,6 | 14.22 | 14 | 0=6 | 402 | 475 | 145 | 63 | 193 | M24 | |
| 350 | | | 1 | 378 | 15.83 | 18.70 | 5.71 | 2.48 | 7.60 | | |
| | 368 | 14.72 | | 14.88 | 402 15.83 | 475 18.70 | 145 5.71 | 63 2.48 | 199 7.83 | M24 | |
| | | | | | 452 | 526 | 145 | 63 | 218 | | |
| | 406,4 | 16.26 | 16 | 428 | 17.80 | 20.71 | 5.71 | 2.48 | 8.58 | M24 | |
| 400 | 440 | 10.70 | | 16.85 | 452 | 526 | 145 | 63 | 224,5 | 1404 | |
| | 419 | 16.76 | | | 17.80 | 20.71 | 5.71 | 2.48 | 8.84 | M24 | |
| | 508 | 20.32 | 20 | | 554 | 627 | 145 | 63 | 269 | M24 | |
| 500 | 300 | 20.02 | 20 | 530 | 21.81 | 24.69 | 5.71 | 2.48 | 10.59 | IVIZT | |
| 500 | 521 | 20.84 | | 20.87 | 554 | 627 | 145 | 63 | 276 | M24 | |
| | | | | | 21.81 | 24.69 | 5.71 | 2.48 | 10.87 | | |



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



Plastic Pipe Saddle (type RUL)

| Diameter Nominal | | Diameter | Nominal Bore | Dimensi | ons (^{mm} / _{in}) | | | | | | |
|---------------------|---------------------|----------|-----------------|--------------------------------|---------------------------------------|--------------|------------|-----------|------------|-----------|--|
| INUIIIIIIai | Pipe / Tube Ø D1 | | Pipe | Plastic Pipe Saddle (Type RUL) | | | | | | | |
| DN | (mm) | (in) | (in) | Α | L2 | L3 | В | H5 | Н6 | Ø D4 | |
| | 25 | .98 | | | 75 | 40 | 30 | 5 | 12 | 11 | |
| 20 | | .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 | .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 | |
| | 00 | 1.50 | | | 90 | 56 | 30 | 5 | 12 | 11 | |
| 32 | 38 | 1.50 | | 46 | 3.54 | 2.20 | 1.18 | .20 | .47 | .43 | |
| JZ | 42,4 | 1.69 | 1-1/4 | 1.81 | 90 | 56 | 30 | 5 | 12 | 11 | |
| | 72,7 | 1.00 | 1 1/- | | 3.54 | 2.20 | 1.18 | .20 | .47 | .43 | |
| | 44,5 | 1.76 | | | 95 | 62 | 35 | 5 | 15 | 11 | |
| 40 | - | | | 52 | 3.74 | 2.44 | 1.38 | .20 | .59 | .43 | |
| | 48,3 | 1.90 | 1-1/2 | 2.05 | 95 3.74 | 62 2.44 | 35 1.38 | .20 | .59 | .43 | |
| | | | | | 110 | 76 | 35 | 5 | 15 | 14 | |
| | 57 | 2.28 | | 64 | 4.33 | 2.99 | 1.38 | .20 | .59 | .55 | |
| 50 | 00.0 | 0.44 | | 2.52 | 110 | 76 | 35 | 5 | 15 | 14 | |
| | 60,3 | 2.41 | 2 | | 4.33 | 2.99 | 1.38 | .20 | .59 | .55 | |
| 65 | 76.1 | 2.04 | 2 1/2 | 82 | 135 | 94 | 35 | 5 | 15 | 14 | |
| UJ | 76,1 | 3.04 | 2-1/2 | 3.23 | 5.31 | 3.70 | 1.38 | .20 | .59 | .55 | |
| 80 | 88,9 | 3.56 | 3 | 94 | 145 | 106 | 40 | 10 | 20 | 14 | |
| | 00,0 | 0.00 | 0 | 3.70 | 5.71 | 4.17 | 1.57 | .39 | .79 | .55 | |
| | 108 | 4.32 | | 400 | 190 | 136 | 40 | 10 | 20 | 18 | |
| 100 | | | | 120 | 7.48 | 5.35 | 1.57 | .39 | .79 | .71 | |
| | 114,3 | 4.57 | 4 | 4.72 | 190 7.48 | 136 5.35 | 1.57 | .39 | .79 | .71 | |
| | | | | | 220 | 164 | 40 | 10 | 20 | 18 | |
| 125 | 133 | 5.32 | | 148 5.83 | 8.66 | 6.46 | 1.57 | .39 | .79 | .71 | |
| | 400.7 | F 50 | _ | | 220 | 164 | 40 | 10 | 20 | 18 | |
| | 139,7 | 5.59 | 5 | | 8.66 | 6.46 | 1.57 | .39 | .79 | .71 | |
| | 159 | 6.36 | | | 250 | 192 | 50 | 12 | 25 | 18 | |
| 150 | 100 | 0.00 | | 176 | 9.84 | 7.56 | 1.97 | .47 | .98 | .71 | |
| 100 | 168,3 | 6.73 | 6 | 6.93 | 250 | 192 | 50 | 12 | 25 | 18 | |
| | | | | 000 | 9.84 | 7.56 | 1.97 | .47 | .98 | .71 | |
| 175 | 193,7 | 7.75 | | 7.06 | 270 10.63 | 218 | 50 | 12 | 25 | 18 | |
| | | | | 7.96 | 315 | 8.58 248 | 1.97 50 | .47 | .98 25 | .71 22 | |
| | 216 | 8.64 | | 228 | 12.40 | 9.76 | 1.97 | .47 | .98 | .87 | |
| 200 | 046.4 | 0.70 | 0 | 8.98 | 315 | 248 | 50 | 12 | 25 | 22 | |
| | 219,1 | 8.76 | 8 | | 12.40 | 9.76 | 1.97 | .47 | .98 | .87 | |
| | 267 | 10.68 | | | 370 | 302 | 50 | 12 | 25 | 22 | |
| 250 | 207 | 10.00 | | 282 | 14.57 | 11.89 | 1.97 | .47 | .98 | .87 | |
| -50 | 273 | 10.92 | 10 | 11.10 | 370 | 302 | 50 | 12 | 25 | 22 | |
| | | | | | 14.57 | 11.89 | 1.97 | .47 | .98 | .87 | |
| | 318 | 12.72 | | 332 | 420 16.54 | 352 13.86 | 2.36 | .59 | 30 1.18 | .87 | |
| 300 | | | | 13.07 | 420 | 352 | 60 | 15 | 30 | 22 | |
| | 323,9 | 12.96 | 12 | 10.07 | 16.54 | 13.86 | 2.36 | .59 | 1.18 | .87 | |
| | | | | | 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 | 14./2 | | | 18.90 | 15.83 | 2.36 | .59 | 1.18 | 1.02 | |
| | 406,4 | 16.26 | 16 | | 540 | 452 | 60 | 15 | 30 | 26 | |
| 400 | , . | | | 428 | 21.26 | 17.80 | 2.36 | .59 | 1.18 | 1.02 | |
| | 419 | 16.76 | | 16.85 | 540 | 452 | 60 | 15 | 30 | 26 | |
| | | | | | 21.26 640 | 17.80 554 | 2.36 | .59 15 | 1.18 | 1.02 | |
| | 508 | 20.32 | 20 | 530 | 25.20 | 21.81 | 2.36 | .59 | 1.18 | 1.02 | |
| 500 | _ | | | 20.87 | 640 | 554 | 60 | 15 | 30 | 26 | |
| | 521 | 20.84 | 1 | | 0.0 | 001 | | | | | |



Ordering Codes Round Steel U-Bolt*RB-*A-52-*W1-*COMPL

noullu Steel O-Boit ND- A-32- WI- COMPL

One Round Steel U-Bolt (type RB) inIcludes four Nuts (to DIN EN ISO 4032).

| Tour Hato (to bill Ell 100 1002). | | | | | | | | | | |
|-----------------------------------|--|-----------|--|--|--|--|--|--|--|--|
| * Round Steel U- | Bolt | RB | | | | | | | | |
| * Dimension A (m | nm) | A-52 | | | | | | | | |
| * Material code | Carbon Steel, uncoated Carbon Steel, zinc-plated, blue-chromated | W1 W32 | | | | | | | | |
| | Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 T | W5 | | | | | | | | |
| | | | | | | | | | | |

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

| * Plastic Pipe Saddle (Long) | RUL |
|---------------------------------------|------|
| * Exact outside diameter Ø D1 (mm) | 48.3 |
| * Material of Pipe Saddle (see below) | PP |

Standard Materials for Plastic Pipe Saddles

Polypropylene



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

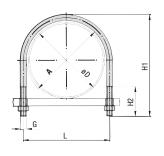
- Standing or hanging installation of pipes and tubes on beams, profiles and consoles
- Design with two threaded ends allows for ideal adaptation to suit the exact outer diameter of the pipe or tube



STAUFF ®

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





Round Steel U-Bolt (type RBD)

Ordering Codes

Clamp Assembly *RBD-*A-30-*W1-*COMPL

One clamp assembly is consisting of one Round Steel U-Bolt (type RBD according to DIN 3570, Type A) and two Nuts (to DIN EN ISO 4032).

| * Clamp Assembly (as listed above) | | | | | |
|--|---|----|--|--|--|
| * Dimension A (mm) | | | | | |
| * Material code Carbon Steel, uncoated Carbon Steel, zinc-plated, blue-chromated | | | | | |
| | Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti | W5 | | | |
| Please note: All ite | ems are supplied non-assembled | | | | |

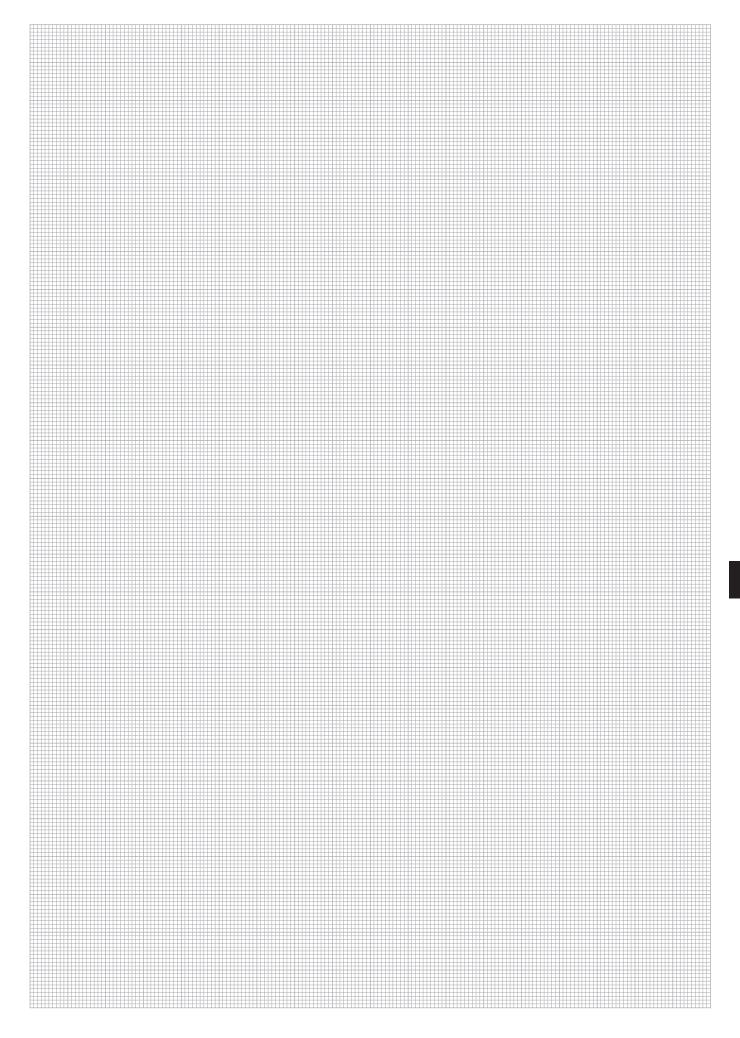
Applications

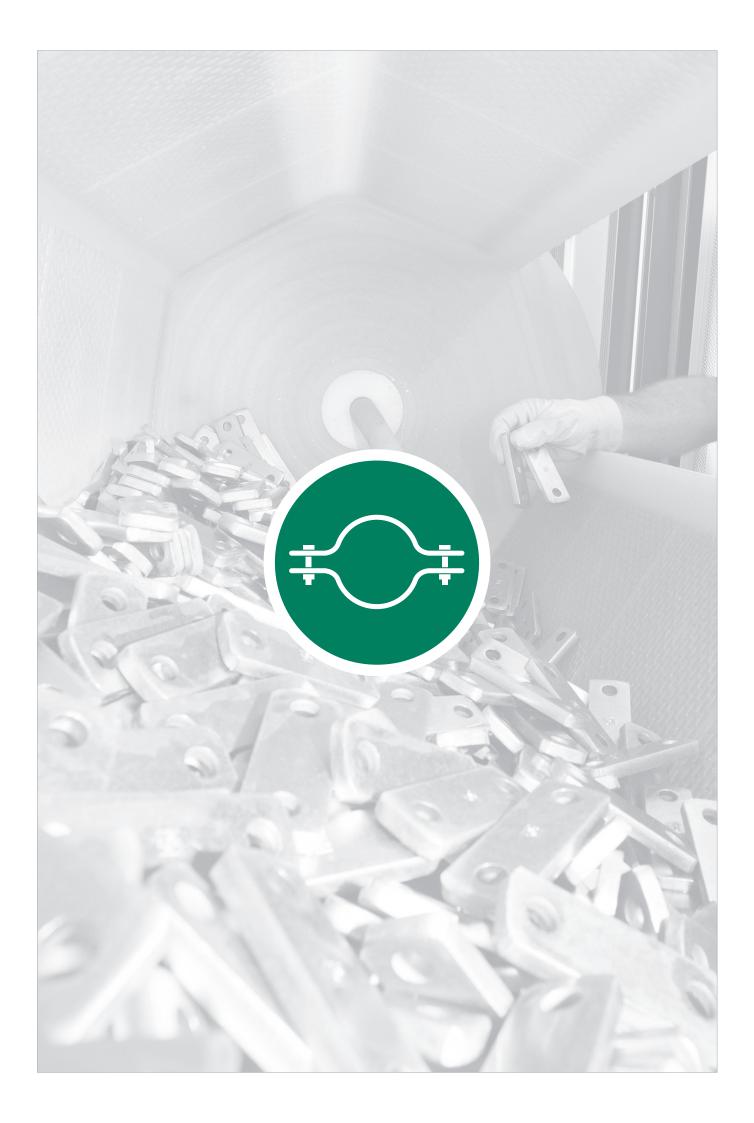
- Standing or hanging installation of pipes and tubes on beams, profiles and consoles
- Design with two threaded ends allows for ideal adaptation to suit the exact outer diameter of the pipe or tube

| | | | | Round Ste | el U-Bolt (type | кви) | | |
|----------|-------------------|--------|--------------|------------------|--------------------|--------------|------------|----------|
| Diameter | Outside | | Nominal | Dimensions (" | ^{nm} /in) | | | |
| Nominal | Pipe / Tu Ø D1 | De | Bore Pipe | Round Steel I | I-Bolt (Type RBI | וו | | |
| DN | (mm) | (in) | (in) | A | L | H1 | H2 | Thread G |
| | 25 | .98 | | | 40 | 70 | 40 | M10 |
| 20 | 23 | .90 | | 30 | 1.57 | 2.76 | 1.57 | IWITO |
| | 26,9 | 1.06 | 3/4 | 1.18 | 1.57 | 70 2.76 | 1.57 | M10 |
| | | | | | 48 | 76 | 40 | |
| 25 | 30 | 1.18 | | 38 | 1.89 | 2.99 | 1.57 | M10 |
| | 33,7 | 1.33 | 1 | 1.50 | 48 | 76 | 40 | M10 |
| | 00,1 | 1.00 | | | 1,89 | 2.99 | 1.57 | IIITO |
| | 38 | 1.50 | | 46 | 56 2.20 | 3.39 | 1.97 | M10 |
| 32 | 40.4 | 4.00 | 4.4/4 | 1.81 | 56 | 86 | 50 | 1440 |
| | 42,4 | 1.69 | 1-1/4 | | 2.20 | 3.39 | 1.97 | M10 |
| | 44,5 | 1.76 | | | 62 | 92 | 50 | M10 |
| 40 | | | | 52 2.05 | 2.44 62 | 3.62 92 | 1.97 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 | 37 | 2.20 | | 64 | 2.99 | 4.29 | 1.97 | IVITZ |
| | 60,3 | 2.41 | 2 | 2.52 | 76 | 109 | 50 | M12 |
| | | | | 82 | 2.99 94 | 4.29 125 | 1.97 | |
| 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 |
| 00 | 00,5 | 0.00 | 3 | 3.70 | 4.17 | 5.43 | 1.97 | IVITZ |
| | 108 | 4.32 | | 120 | 136 5.35 | 171 6.73 | 2.36 | M16 |
| 100 | | | | 4.72 | 136 | 171 | 60 | |
| | 114,3 | 4.57 | 4 | | 5.35 | 6.73 | 2.36 | M16 |
| | 133 | 5.32 | | | 164 | 191 | 60 | M16 |
| 125 | | 0.02 | | 148 | 6.46 | 7.52 | 2.36 | |
| | 139,7 | 5.59 | 5 | 5.83 | 164 6.46 | 191 7.52 | 2.36 | M16 |
| | 450 | 0.00 | | | 192 | 217 | 60 | 1440 |
| 150 | 159 | 6.36 | | 176 | 7.56 | 8.54 | 2.36 | M16 |
| 100 | 168,3 | 6.73 | 6 | 6.93 | 192 | 217 | 60 | M16 |
| | , | | | 202 | 7.56 | 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 | 210 | 0.04 | | 228 | 9.76 | 11.14 | 2.76 | IVIZU |
| | 219,1 | 8.76 | 8 | 8.98 | 9.76 | 283 11.14 | 70 2.76 | M20 |
| | | 10.55 | | | 303 | 334 | 70 | 1100 |
| 250 | 267 | 10.68 | | 282 | 11.93 | 13.15 | 2.76 | M20 |
| 200 | 273 | 10.92 | 10 | 11.10 | 302 | 334 | 70 | M20 |
| | | | | | 11.89 352 | 13.15 385 | 70 | |
| 000 | 318 | 12.72 | | 332 | 13.86 | 15.16 | 2.76 | M20 |
| 300 | 222.0 | 12.06 | 10 | 13.07 | 352 | 385 | 70 | Man |
| | 323,9 | 12.96 | 12 | | 13.86 | 15.16 | 2.76 | M20 |
| | 355,6 | 14.22 | 14 | 270 | 402 | 435 17.13 | 70 | M24 |
| 350 | | | | 378 14.88 | 15.83 402 | 435 | 2.76 70 | |
| | 368 | 14.72 | | | 15.83 | 17.13 | 2.76 | M24 |
| | 406.4 | 16.26 | 16 | | 452 | 487 | 70 | M24 |
| 400 | .00,1 | . 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 |
| 500 | 521 | 20.84 | | 20.87 | 554 | 589 | 70 | M24 |
| | | | | | 21.81 | 23.19 | 2.76 | |











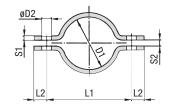


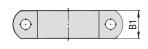


Metal Pipe Clamp with Tension Clearance (DIN 3567-A)

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 Clan | * Metal Pipe Clamp to DIN 3567, type A | | | | | |
|-------------------|--|-------------------|--|--|--|--|
| * STAUFF Group (| -20 | | | | | |
| * Material code | Carbon Steel, uncoated | W1 | | | | |
| | Carbon Steel, hot-dip galvar | nised 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.

| * Metal Pipe Clan | np to DIN 3567, type A | DIN35 | 37-A |
|-------------------|--|---------|------|
| * STAUFF Group (| | -20 | |
| * Material code | Carbon Steel, uncoated | | W1 |
| | Carbon Steel, hot-dip galvar | iised | W40 |
| | Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / | 316 Ti) | W5 |

* 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

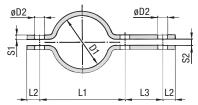
| 20 | mm) | Pipe | | | FF Nominal Size Dimensions (mm//in) | | | | | |
|--------------|------|---------|--------------|------------|-------------------------------------|-----------|-------------|------------|------------------------------------|--|
| 20 | mm) | | | | Hexagon Head Bolts | | | | | |
| | | (in) | L1 | L2 | S1 | S2 | D2 | B1 | (Hexagon Head Nuts) | |
| | | | 57 | 15 | 5 | 7 | 11.5 | 30 | | |
| | 15 | | 2.24 59 | .59 15 | .20 5 | .28 | .45 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 | .20 | .28 | .45 | 1.18 | | |
| 27 | | 3/4 | 66 | 15 | 5 | 7 | 11.5 | 30 | | |
| | | | 2.60 68 | .59 15 | .20 | .28 | .45 11.5 | 1.18 | M10 x 30 | |
| 30 | ١. | | 2.68 | .59 | .20 | .28 | .45 | 1.18 | (M10) | |
| 34 | 25 | 1 | 72 | 15 | 5 | 7 | 11.5 | 30 | 3/8-16 UNC x 1-1/4 | |
| 01 | | | 2.83 | .59 | .20 | .28 | .45 | 1.18 | (3/8–16 UNC) | |
| 38 | | | 76 2.99 | .59 | .20 | .28 | .45 | 30 1.18 | | |
| | 32 | 4 4 / 4 | 82 | 15 | 5 | 7 | 11.5 | 30 | | |
| 43 | | 1-1/4 | 3.23 | .59 | .20 | .28 | .45 | 1.18 | | |
| 45 | | | 84 | 15 | 5 | 7 | 11.5 | 30 | | |
| 4 | 10 | | 3.31 88 | .59 15 | .20 | .28 | .45 11.5 | 1.18 | | |
| 49 | | 1-1/2 | 3.46 | .59 | .20 | .28 | .45 | 1.18 | | |
| 57 | | | 104 | 18 | 6 | 9 | 14 | 40 | | |
| | 50 | | 4.09 | .71 | .24 | .35 | .55 | 1.57 | | |
| 61 | | 2 | 108 4.25 | .71 | .24 | .35 | .55 | 40 1.57 | M12 x 35 (M12) | |
| | _ | | 122 | 18 | 6 | 9 | 14 | 40 | 7/16–14 UNC x 1-3/8 | |
| 77 6 | 35 | 2-1/2 | 4.80 | .71 | .24 | .35 | .55 | 1.57 | (7/16-14 UNC) | |
| 89 8 | 30 | 3 | 136 | 18 | 6 | 9 | 14 | 40 | | |
| | * | | 5.35 172 | .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 | | |
| 110 | | 4 | 7.01 | .94 | .31 | .43 | .71 | 1.97 | | |
| 133 | | | 196 7.72 | .94 | .31 | .43 | 18 | 50 1.97 | | |
| | 125 | | 204 | 24 | 8 | 11 | .71 18 | 50 | | |
| 140 | | | 8.03 | .94 | .31 | .43 | .71 | 1.97 | M16 x 45 | |
| 159 | | | 222 | 24 | 8 | 11 | 18 | 50 | (M16) | |
| | 50 | | 8.74 | .94 24 | .31 | .43 | .71 | 1.97 | 5/8–11 UNC x 1-3/4 (5/8–11 UNC) | |
| 169 | | | 9.13 | .94 | .31 | .43 | .71 | 50 1.97 | (3/0-11 0100) | |
| 194 1 | 75 | | 258 | 24 | 8 | 11 | 18 | 50 | | |
| 134 | 10 | | 10.16 | .94 | .31 | .43 | .71 | 1.97 | | |
| 216 | | | 280 11.02 | .94 | .31 | .43 | .71 | 50 1.97 | | |
| | 200 | | 284 | .94 | 8 | 11 | 18 | 50 | | |
| 220 | | | 11.18 | .94 | .31 | .43 | .71 | 1.97 | | |
| 267 | | | 342 | 30 | 8 | 14 | 23 | 60 | | |
| | 250 | | 13.46 348 | 1.18 | .31 | .55 | .91 | 2.36 | | |
| 273 | | | 13.70 | 1.18 | .31 | .55 | .91 | 2.36 | M20 x 50 | |
| 210 | | | 392 | 30 | 8 | 14 | 23 | 60 | (M20) | |
| 318 | 300 | | 15.43 | 1.18 | .31 | .55 | .91 | 2.36 | 3/4-10 UNC x 2 | |
| 324 | ,,,, | | 398 | 30 | 8 | 14 | 23 | 60 | (3/4-10 UNC) | |
| | | | 15.67 444 | 1.18 | .31 | .55 14 | .91 23 | 2.36 | | |
| 368 3 | 350 | | 17.48 | 1.18 | .31 | .55 | .91 | 2.36 | | |
| 407 | | | 498 | 36 | 10 | 18 | 27 | 70 | | |
| | 100 | | 19.61 | 1.42 | .39 | .71 | 1.06 | 2.76 | M24 x 60 | |
| 419 | - | | 510 10.08 | 36 1.42 | .39 | .71 | 1.06 | 70 2.76 | (M24) 7/8–9 UNC 2-3/8 | |
| =0.4 | | | 614 | 36 | 10 | 18 | 27 | 70 | (7/8–9 UNC) | |
| 521 5 | 500 | | 24.17 | 1.42 | .39 | .71 | 1.06 | 2.76 | | |





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

Three-Bolt Design (Extended to One Side)







| STAUFF | Nomina | ıl Çizo | Dimone | ions (^{mm} /i | -) | | | | | Accessories |
|--------|---------|--------------|--------------|-------------------------|------------|-----|-----------|-------------|------------|--|
| Group | NUIIIII | | Dilliells | 10115 (// | n <i>)</i> | | | | | |
| Ø D1 | (mm) | Pipe (in) | L1 | L2 | L3 | S1 | S2 | D2 | B1 | Hexagon Head Bolts (Hexagon Head Nuts |
| 20 | | | 57 | 15 | 46 | 5 | 7 | 11.5 | 30 | |
| | 15 | | 2.24 | .59 | 1.81 | .20 | .28 | .45 | 1.18 | |
| 22 | | | 59 | 15 | 46 | 5 | 7 | 11.5 | 30 | |
| | | | 2.32 62 | .59 15 | 1.81 | .20 | .28 | .45 11.5 | 1.18 | |
| 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 |
| | 25 | | 2.68 | .59 | 1.81 | .20 | .28 | .45 | 1.18 | (M10) |
| 34 | | 1 | 72 | 15 | 46 | 5 | 7 | 11.5 | 30 | 3/8–16 UNC x 1-1/4 (3/8–16 UNC) |
| | | | 2.83 76 | .59 15 | 1.81 | .20 | .28 | .45 | 1.18 | (3/0-10 0140) |
| 38 | | | 2.99 | .59 | 1.81 | .20 | .28 | .45 | 1.18 | |
| | 32 | | 82 | 15 | 46 | 5 | 7 | 11.5 | 30 | |
| 43 | | 1-1/4 | 3.23 | .59 | 1.81 | .20 | .28 | .45 | 1.18 | |
| 45 | | | 84 | 15 | 46 | 5 | 7 | 11.5 | 30 | |
| 10 | 40 | | 3.31 | .59 | 1.81 | .20 | .28 | .45 | 1.18 | |
| 49 | .5 | 1-1/2 | 88 | 15 | 46 | 5 | 7 | 11.5 | 30 | |
| | | | 3.46 | .59 | 1.81 | .20 | .28 | .45 | 1.18 | |
| 57 | | | 104 4.09 | .71 | 54 2.13 | .24 | .35 | .55 | 40 1.57 | |
| | 50 | | 108 | 18 | 54 | 6 | 9 | 14 | 40 | M12 x 35 |
| 61 | | 2 | 4.25 | .71 | 2.13 | .24 | .35 | .55 | 1.57 | (M12) |
| | 0.5 | 0.4/0 | 122 | 18 | 54 | 6 | 9 | 14 | 40 | 7/16–14 UNC x 1-3/8 |
| 77 | 65 | 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 | |
| 09 | 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 | |
| | | | 7.01 196 | .94 | 2.76 | .31 | .43 | .71 18 | 1.97 | |
| 133 | | | 7.72 | .94 | 2.76 | .31 | .43 | .71 | 1.97 | |
| | 125 | | 204 | 24 | 70 | 8 | 11 | 18 | 50 | |
| 140 | | | 8.03 | .94 | 2.76 | .31 | .43 | .71 | 1.97 | M16 x 45 |
| 159 | | | 222 | 24 | 70 | 8 | 11 | 18 | 50 | (M16) |
| 159 | 150 | | 8.74 | .94 | 2.76 | .31 | .43 | .71 | 1.97 | 5/8-11 UNC x 1-3/4 |
| 169 | 130 | | 232 | 24 | 70 | 8 | 11 | 18 | 50 | (5/8–11 UNC) |
| | | | 9.13 | .94 | 2.76 | .31 | .43 | .71 | 1.97 | |
| 194 | 175 | | 258 | 24 | 70 | 8 | 11 | 18 | 50 | |
| | | | 10.16 280 | .94 24 | 2.76 | .31 | .43 | .71 18 | 1.97 | |
| 216 | | | 11.02 | .94 | 2.76 | .31 | .43 | .71 | 1.97 | |
| | 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 | |
| 267 | 250 | | 13.46 | 1.18 | 3.39 | .31 | .55 | .91 | 2.36 | |
| 273 | 200 | | 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 | | 15.43 398 | 1.18 | 3.39 86 | .31 | .55 14 | .91 23 | 2.36 | 3/4–10 UNC x 2 (3/4–10 UNC) |
| 324 | | | 15.67 | 1.18 | 3.39 | .31 | .55 | .91 | 2.36 | (0/4 10 0110) |
| | | | 444 | 30 | 86 | 8 | 14 | 23 | 60 | |
| 368 | 350 | | 17.48 | 1.18 | 3.39 | .31 | .55 | .91 | 2.36 | |
| 407 | | | 498 | 36 | 104 | 10 | 18 | 27 | 70 | |
| 407 | 400 | | 19.61 | 1.42 | 4.09 | .39 | .71 | 1.06 | 2.76 | M24 x 60 |
| 419 | 400 | | 510 | 36 | 104 | 10 | 18 | 27 | 70 | (M24) |
| | | | 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) |

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 Carbon Steel, uncoated W1 Carbon Steel, hot-dip galvanised W40 Stainless Steel V4A W5 1.4401 / 1.4571 (AISI 316 / 316 Ti) * Clamp assembly with bolts and nuts COMPL Please note: All items are supplied non-assembled.

Applications

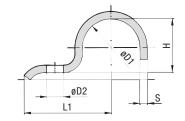
 Installation of pipes, tubes and other construction elements on beams, profiles and consoles

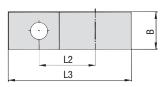


Heavy Saddle with Tension Clearance (DIN 1592)

Single-Bolt Design







| Ordering Codes | | | | | | | | |
|---------------------|--|------------------|--|--|--|--|--|--|
| Heavy Saddle | *DIN1592- | 7-*W66 | | | | | | |
| * Heavy Saddle to | DIN1592 | | | | | | | |
| * STAUFF Group (| Ø D1) | 7 | | | | | | |
| * Material code | Carbon Steel, uncoated | W1 | | | | | | |
| | Carbon Steel, zinc-plated and thick-film passivated | W66 | | | | | | |
| | Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 3 | 16 Ti) W5 | | | | | | |

Applications

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

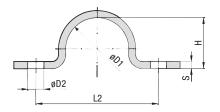
| STAUFF Group | Diameter Range | | Dimensions (mm/in) | | | | | | | |
|-----------------|----------------|-------------|--------------------|------|-------|------|-----|------|-----|--|
| Ø D1 | (mm) | (in) | L1 | L2 | L3 | Н | D2 | В | S | |
| 7 | 5,5 7 | .2228 | 22 | 14 | 27,5 | 5 | 6,6 | 16 | 2 | |
| ' | 5,5 1 | .2220 | .87 | .55 | 1.08 | .20 | .26 | .63 | .08 | |
| 9 | 79 | .2835 | 27 | 18 | 33,5 | 6 | 6,6 | 20 | 2 | |
| 9 | 7 9 | .2000 | 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 | .0301 | 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 | .017 3 | 1.69 | 1.10 | 2.19 | .59 | .43 | .98 | .12 | |
| 23 | 20 23 | .7991 | 51 | 35 | 67 | 19 | 14 | 30 | 5 | |
| 20 | 20 20 | .1331 | 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 | | 2.05 | 1.42 | 2.76 | .87 | .55 | 1.18 | .20 | |
| 28,5 | 26 28,5 | 5 1.02 1.12 | 53 | 37 | 73 | 24 | 14 | 30 | 5 | |
| 20,0 | 20 20,0 | 1.02 1.12 | 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 . | | 2.17 | 1.54 | 2.97 | 1.06 | .55 | 1.18 | .20 | |
| 36 | 33 36 | 1.30 1.42 | 57 | 41 | 81 | 32 | 14 | 40 | 5 | |
| | | | 2.24 | 1.61 | 3.19 | 1.26 | .55 | 1.57 | .20 | |
| 39 | 36 39 | 1.42 1.54 | 59 | 43 | 83,5 | 34 | 14 | 40 | 5 | |
| | | | 2.32 | 1.69 | 3.29 | 1.34 | .55 | 1.57 | .20 | |
| 43 | 39 43 | 1.54 1.69 | 68 | 48 | 94,5 | 38 | 18 | 40 | 5 | |
| | | | 2.68 | 1.89 | 3.72 | 1.50 | .71 | 1.57 | .20 | |
| 46 | 43 46 | 1.69 1.81 | 70 | 50 | 98 | 41 | 18 | 40 | 5 | |
| | | | 2.76 | 1.97 | 3.86 | 1.61 | .71 | 1.57 | .20 | |
| 49 | 46 49 | 1.81 1.93 | 73 | 53 | 105,5 | 44 | 18 | 40 | 8 | |
| | | | 2.87 | 2.09 | 4.15 | 1.73 | .71 | 1.57 | .31 | |
| 52 * | 49 52 | 1.93 2.05 | 76 | 56 | 110 | 47 | 18 | 40 | 8 | |
| | | | 2.99 | 2.20 | 4.33 | 1.85 | .71 | 1.57 | .31 | |
| 58 | 53 58 | 2.09 2.28 | 78 | 58 | 115 | 52 | 18 | 40 | 8 | |
| | | | 3.07 | 2.28 | 4.53 | 2.05 | .71 | 1.57 | .31 | |
| 61 | 58 61 | 2.28 2.40 | 80 | 60 | 118,5 | 57 | 18 | 40 | 8 | |
| | | | 3.15 | 2.36 | 4.67 | 2.24 | .71 | 1.57 | .31 | |

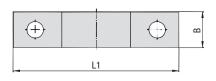
^{*} Similar to DIN 1592.





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







| STAUFF | Diameter R | ange | Dimensions (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 | 7 9 28 | 7 9 | .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 | | |
| 10,0 | 10 10,0 | .0101 | 2.20 | 1.57 | .47 | .26 | .79 | .08 | | |
| 19 | 15.5 19 | .6175 | 60 | 44 | 15 | 6,6 | 20 | 2 | | |
| | 10,0 10 | .0170 | 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 20 | .51 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 | 1.30 1.42 | 106 | 80 | 32 | 11 | 30 | 5 | | |
| 00 | 00 00 | | 4.17 | 3.15 | 1.26 | .43 | 1.18 | .20 | | |
| 39 | 36 39 | 1.42 1.54 | 110 | 84 | 34 | 11 | 30 | 5 | | |
| | 30 33 | | 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 | | |
| 40 | 43 40 | 1.09 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 | | |
| 40 | 40 43 | 1.01 1.33 | 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 | 2.09 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 | | |
| U I | 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 | | |
| / 1 | 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 | | |
| ′′ | 13 11 | 2.07 3.03 | 6.93 | 5.35 | 2.83 | .71 | 1.57 | .20 | | |
| 81 | 77 81 | 3.03 3.19 | 184 | 144 | 76 | 18 | 40 | 5 | | |
| 01 | 11 01 | 3.03 3.19 | 7.24 | 5.67 | 2.99 | .71 | 1.57 | .20 | | |
| 0.1 | 88 91 | 2.20 2.50 | 198 | 158 | 85 | 18 | 40 | 8 | | |
| 91 | 00 91 | 3.39 3.58 | 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 | 4.10 4.00 | 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 Codes | | | | | | | | | |
|-------------------|--|--|--|--|--|--|--|--|--|
| Heavy Saddle | *DIN1593-*7-*W66 | | | | | | | | |
| * Heavy Saddle to | DIN 1593 DIN1593 | | | | | | | | |
| * STAUFF Group (| Ø D1) 7 | | | | | | | | |
| * Material code | Carbon Steel, uncoated W1 | | | | | | | | |
| | Carbon Steel, zinc-plated and thick-film passivated W66 | | | | | | | | |
| | Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti) W5 | | | | | | | | |

Applications

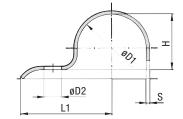
 Installation of pipes, tubes, poles and other round components directly on the substrate (floor, wall or ceiling)

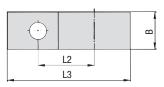


Light Saddle with Tension Clearance (DIN 1596)

Single-Bolt Design







| Ordering C | odes | |
|-------------------|--|-----|
| Light Saddle | *DIN1596-*7-*W | 66 |
| * Light Saddle to | DIN 1596 DIN 1 5 | 96 |
| * STAUFF Group (| Ø D1) | 7 |
| * Material code | Carbon Steel, uncoated | W1 |
| | Carbon Steel, zinc-plated and thick-film passivated | /66 |
| | Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti) | W5 |

Applications

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

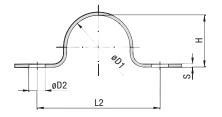
| STAUFF Group | Diameter Range | | Dimensions (mm/in) | | | | | | | |
|-----------------|----------------|-----------|--------------------|------|-------|------|---------|------|-----|--|
| Ø D1 | (mm) | (in) | L1 | L2 | L3 | Н | D2 | В | S | |
| 7 | 5,5 7 | .2228 | 26 | 14 | 31,5 | 5 | 6,6 | 16 | 2 | |
| 1 | 5,5 / | .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 | .2000 | 1.10 | .63 | 1.36 | .24 | .26 | .63 | .08 | |
| 13 | 9,5 13 | .3951 | 30 | 18 | 38,5 | 9 | 6,6 | 20 | 2 | |
| 13 | 3,5 15 | .0301 | 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 | .5101 | 1.26 | .79 | 1.64 | .47 | .26 | .79 | .08 | |
| 19 | 15,5 19 | .6175 | 34 | 22 | 45,5 | 15 | 6,6 | 20 | 2 | |
| 19 | 10,0 19 | .0173 | 1.34 | .87 | 1.79 | .59 | .26 | .79 | .08 | |
| 23 | 20 23 | .7991 | 43 | 28 | 57,5 | 19 | 9 | 25 | 3 | |
| 23 | 20 23 | .1991 | 1.69 | 1.10 | 2.26 | .75 | .35 | .98 | .12 | |
| 26 | 23 26 | .91 1.02 | 44 | 29 | 60 | 22 | 9 | 25 | 3 | |
| 20 | 23 20 | .31 1.02 | 1.73 | 1.14 | 2.36 | .87 | .35 | .98 | .12 | |
| 28,5 | 26 28,5 | 1.02 1.12 | 47 | 32 | 64,25 | 24 | 9 | 25 | 3 | |
| 20,3 | 20 20,5 | 1.02 1.12 | 1.85 | 1.26 | 2.53 | .94 | .35 | .98 | .12 | |
| 31 | 28,5 31 | 1.12 1.22 | 47 | 32 | 65,5 | 27 | 9 | 25 | 3 | |
| 31 | 20,0 01 | 1.12 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 | |
| 33 | 01 00 | 1.221.00 | 2.20 | 1.42 | 2.97 | 1.14 | .35 .98 | .98 | .12 | |
| 36 | 33 36 | 1.30 1.42 | 57 | 40 | 78 | 32 | 11 | 30 | 3 | |
| 30 | 33 30 | 1.30 1.42 | 2.24 | 1.57 | 3.07 | 1.26 | .43 | 1.18 | .12 | |
| 39 | 36 39 | 1.42 1.54 | 59 | 42 | 81,5 | 34 | 11 | 30 | 3 | |
| 33 | 30 33 | 1.42 1.04 | 2.32 | 1.65 | 3.21 | 1.34 | .43 | 1.18 | .12 | |
| 43 | 39 43 | 1.54 1.69 | 61 | 44 | 85,5 | 38 | 11 | 30 | 3 | |
| 40 | 00 40 | 1.07 1.00 | 2.40 | 1.73 | 3.37 | 1.50 | .43 | 1.18 | .12 | |
| 46 | 43 46 | 1.69 1.81 | 62 | 45 | 88 | 41 | 11 | 30 | 3 | |
| 40 | TO TO | 1.03 1.01 | 2.44 | 1.77 | 3.46 | 1.61 | .43 | 1.18 | .12 | |
| 49 | 46 49 | 1.81 1.93 | 67 | 48 | 95,5 | 44 | 14 | 40 | 4 | |
| 73 | TO TO | 1.01 1.00 | 2.64 | 1.89 | 3.76 | 1.73 | .55 | 1.57 | .16 | |
| 52 * | 49 52 | 1.93 2.05 | 72 | 53 | 102 | 47 | 14 | 40 | 4 | |
| 02 | 10 02 | 1.00 2.00 | 2.83 | 2.09 | 4.02 | 1.85 | .55 | 1.57 | .16 | |
| 58 | 53 58 | 2.09 2.28 | 76 | 55 | 107 | 52 | 14 | 40 | 4 | |
| 30 | 00 00 | ۷.۷۵ ۷.۷۵ | 2.99 | 2.17 | 4.21 | 2.05 | .55 | 1.57 | .16 | |
| 61 | 58 61 | 2.28 2.40 | 77 | 58 | 111,5 | 56 | 14 | 40 | 4 | |
| 01 | 00 01 | 2.20 2.40 | 3.03 | 2.28 | 4.39 | 2.20 | .55 | 1.57 | .16 | |

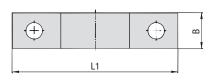
^{*} Similar to DIN 1596.





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







| STAUFF Group | Diameter R | lange | Dimensions (mm/fin) | | | | | | | |
|-----------------|------------|------------------|---------------------|------|------|-----|------|-----|--|--|
| Ø D1 | (mm) | (in) | L1 | L2 | Н | D2 | В | S | | |
| 7 | 5,5 7 | .2228 | 44 | 28 | 5 | 5,5 | 16 | 1,5 | | |
| ' | | .2220 | 1.73 | 1.10 | .20 | .22 | .63 | .06 | | |
| 9 | 7 9 | .2835 | 48 | 32 | 6 | 5,5 | 16 | 1,5 | | |
| <i>3</i> | | | 1.89 | 1.26 | .24 | .22 | .63 | .06 | | |
| 13 | 9,5 13 | .3951 | 52 | 36 | 9 | 5,5 | 16 | 1,5 | | |
| 13 | 3,5 15 | .0901 | 2.05 | 1.42 | .35 | .22 | .63 | .06 | | |
| 15,5 | 13 15,5 | .5161 | 56 | 40 | 12 | 5,5 | 16 | 1.5 | | |
| 15,5 | 13 13,3 | .5101 | 2.20 | 1.57 | .47 | .22 | .63 | .06 | | |
| 19 | 15.5 19 | .6175 | 60 | 44 | 15 | 5,5 | 16 | 1.5 | | |
| 13 | 13,5 19 | .0173 | 2.36 | 1.73 | .59 | .22 | .63 | .06 | | |
| 22 | 00 00 | 70 04 | 76 | 56 | 19 | 6,6 | 20 | 2 | | |
| 23 | 20 23 | .7991 | 2.99 | 2.20 | .75 | .26 | .79 | .08 | | |
| 00 | 00 00 | .91 1.02 | 78 | 58 | 22 | 6,6 | 20 | 2 | | |
| 26 | 23 26 | | 3.07 | 2.28 | .87 | .26 | .79 | .08 | | |
| 00.5 | 26 28,5 | 1.02 1.12 | 84 | 64 | 24 | 6,6 | 20 | 2 | | |
| 28,5 | | | 3.31 | 2.52 | .94 | .26 | .79 | .08 | | |
| 04 | 28,5 31 | 1.12 1.22 | 84 | 64 | 27 | 6,6 | 20 | 2 | | |
| 31 | | | 3.31 | 2.52 | 1.06 | .26 | .79 | .08 | | |
| 33 * | 31 33 | 1.221.30 | 92 | 72 | 29 | 6,6 | 20 | 2 | | |
| 33 " | | | 3.62 | 2.83 | 1.14 | .26 | .79 | .08 | | |
| 00 | 33 36 | 36 1.30 1.42 | 104 | 80 | 32 | 9 | 25 | 3 | | |
| 36 | | | 4.09 | 3.15 | 1.26 | .35 | .98 | .12 | | |
| 00 | 36 39 | 9 1.42 1.54 | 108 | 84 | 34 | 9 | 25 | 3 | | |
| 39 | | | 4.25 | 3.31 | 1.34 | .35 | .98 | .12 | | |
| 40 | 39 43 | 43 1.54 1.69 | 112 | 88 | 38 | 9 | 25 | 3 | | |
| 43 | | | 4.41 | 3.46 | 1.50 | .35 | .98 | .12 | | |
| 40 | 43 46 | 1.00 1.01 | 114 | 90 | 41 | 9 | 25 | 3 | | |
| 46 | | . 46 1.69 1.81 | 4.49 | 3.54 | 1.61 | .35 | .98 | .12 | | |
| 40 | 46 49 | 1.81 1.93 | 118 | 90 | 44 | 11 | 30 | 3 | | |
| 49 | | | 4.65 | 3.54 | 1.73 | .43 | 1.18 | .12 | | |
| FO. # | 49 52 | 1.93 2.05 | 134 | 106 | 47 | 11 | 30 | 3 | | |
| 52 * | | | 5.28 | 4.17 | 1.85 | .43 | 1.18 | .12 | | |
| | 53 58 | 2.09 2.28 | 138 | 110 | 52 | 11 | 30 | 3 | | |
| 58 | | | 5.43 | 4.33 | 2.05 | .43 | 1.18 | .12 | | |
| | 58 61 | 2.28 2.40 | 138 | 110 | 56 | 11 | 30 | 3 | | |
| 61 | | | 5.43 | 4.33 | 2.20 | .43 | 1.18 | .12 | | |

| Ordering C | odes | |
|-------------------|--|-------------------|
| Light Saddle | *DIN1597- | ·*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 | W1 W66 |
| | Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 3 | 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.



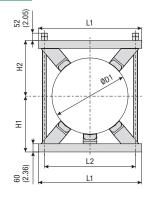


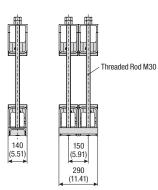
Construction Series 144 KS / DKS Construction Series (for Anchor Bolt Fastening) KSV / DKSV 145

STAUFF®

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







| Ordering Codes | | | | | |
|---|---|--|--|--|--|
| Construction Series *KS-*220-*PA-*W8 | } | | | | |
| * Version Single version K: Double version DK: | | | | | |
| * Exact outside diameter ØD1 (mm) 220 | | | | | |
| * Material of Plastic Pads (see below) PA | | | | | |
| * Material Code Steel, prime coated (grey, RAL 7035) We | 3 | | | | |
| Please note: All items are supplied non-assembled. | | | | | |

Standard Materials for Plastic Pads

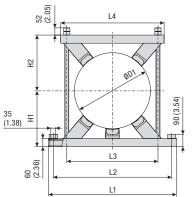


See pages 154 / 155 for material properties and technical information.

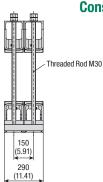
| - | | | | | | | | | |
|--------|-------------------------------|------------------------|--------------------------|-------|--------------------|-------|-------|-------|-------------------|
| Group | Outside Diamet Diameter Range | er ØD1 Pipe / Tub e | oe Standard Diameters | | Dimensions (mm/in) | | | | No. of Plastic |
| STAUFF | (mm) | (in) | (mm) | (in) | L1 | L2 | H1 | H2 | Pads |
| | | | 220 | 8.66 | | | | | |
| | 220 275 | | 247 | 9.72 | 420 | 330 | 220 | 220 | |
| 1 | | 8.66 10.85 | 267 | 10.51 | 16.54 | 12.99 | 8.66 | 8.66 | 4 |
| | | | 273 | 10.75 | | | | | |
| | | | 280 | 11.02 | | | | | |
| | 070 005 | 40.07 | 300 | 11.81 | 460 | 370 | 240 | 240 | 4 |
| 2 | 276 325 | 10.87 12.80 | 318 | 12.52 | 18.11 | 14.57 | 9.45 | 9.45 | |
| | | | 323,9 | 12.75 | | | | | |
| | | | | | | | | | |
| | 000 070 | | 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 | | | | | |
| | | | | | | | | | |
| | | | 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 | | | | | |
| | | | | | | | | | |
| | | | 457,2 | 18.00 | 620 | 530 | 305 | 305 | 4 |
| 5 | 426 485 | 16.77 19.09 | | | 24.41 | 20.87 | 12.01 | 12.01 | |
| | | | 470 | 18.50 | | | | | |
| | | | 490 | 19.29 | | | | | |
| | | | 508 | 20.00 | 680 | 590 | 370 | 370 | 4 |
| 6 | 486 550 | 19.13 21.65 | 521 | 20.51 | 26.77 | 23.23 | 14.57 | 14.57 | |
| | | | 546 | 21.50 | | | | | |
| | | | | | | | | | |
| | | | 558,8 | 22.00 | 760 | 670 | 410 | 410 | - 5 |
| 7 | 551 630 | 21.69 24.80 | | | 29.92 | 26.38 | 16.14 | 16.14 | |
| | | | 609,6 | 24.00 | 20.02 | 20.00 | | 10111 | |
| | | | | | | | | | |
| | | | | | 845 | 755 | 452 | 452 | |
| 8 | 631 715 | 24.84 28.15 | 711 | 28.00 | 33.27 | 29.72 | 17.80 | 17.80 | 5 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | 940 | 850 | 495 | 495 | |
| 9 | 716 800 | 28.19 31.50 | 762 | 30.00 | 37.00 | 33.46 | 19.49 | 19.49 | 5 |
| | | | | | | | | | |
| | / | | | | | | | | |
| | | | | | 990 | 900 | 500 | 500 | |
| 10 | | | 813 | 32.00 | 38.97 | 35.43 | 19.69 | 19.69 | 5 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | 1200 | 1100 | 591,5 | 593 | |
| 11 | | | 1000 | 39.37 | 47.24 | 43.30 | 23.29 | 23.34 | 5 |
| | | | | | - | | | | |
| | | | | | | | | | |
| 12 | | | | | 1200 | 1100 | 602 | 602 | |
| | | | 1016 40.00 | 40.00 | 47.24 | 43.30 | 23.70 | 23.70 | 5 |
| | | | | | | | | | |

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













| | | - | LI | | | | | ∢ (11.4 | ·) → | | |
|-------------|------------------|-------------------|-------------------|---------|--------------------|---------------|-------|--------------|--------------|-------------------|-------|
| Group | Outside Diameter | er ØD1 Pipe / Tub | e Standard Dia | ameters | Dimensions (mm/in) | | | | | No. of Plastic | |
| STAUFF | (mm) | (in) | (mm) | (in) | L1 | L2 | L3 | L4 | H1 | H2 | Pads |
| 0 11 10 1 1 | () | (, | 220 | 8.66 | | | | | | | · auo |
| | | | 247 | 9.72 | 580 | 490 | 330 | 420 | 220 | 220 | |
| 1 | 220 275 | 8.66 10.85 | 267 | 10.51 | | 19.29 | | | | 8.66 | 4 |
| | | | 273 | 10.75 | | | | | | | |
| | | | 280 | 11.02 | | | | | | | |
| 0 | 276 325 | 10.87 12.80 | 300 | 11.81 | 620 | 530 | 370 | 460 | 240 | 240 4 | |
| 2 | 2/0 323 | 20 10.07 12.00 | 318 | 12.52 | 24.41 | 20.87 | 14.57 | 18.11 | 9.45 | 9.45 | 4 |
| | | 323,9 | 12.75 | | | | | | | | |
| 0 | 000 070 | 10.00 14.57 | 355,6 | 14.00 | 670 | 580 | 420 | 510 | 260 | 260 | |
| 3 | 326 370 | 12.83 14.57 | 368 | 14.49 | 26.38 | 22.83 | 16.53 | 20.08 | 10.23 | 10.23 | 4 |
| | | | 390 | 15.35 | 750 | 640 | 480 | 570 | 290 | 290 | |
| 4 | 371 425 | 14.61 16.73 | 406,4 | 16.00 | | 25.20 | | | | | 4 |
| | | | 457,2 | 18.00 | 0.5 | 70.5 | 505 | 00- | 00= | 00= | |
| 5 | 426 485 | 16.77 19.09 | | | 800 | 730 | 530 | 620 | 305 | 305 | 4 |
| | | | 470 | 18.50 | 31.50 | 28.74 | 20.87 | 24.41 | 12.01 | 12.01 | |
| | | | 490 | 19.29 | | | | | | | 370 |
| 6 | 486 550 | 19.13 21.65 | 508 | 20.00 | 860 | 790 | 590 | 680 | 370 | | |
| O | 100 000 | 10.10 21.00 | 521 | 20.51 | 33.86 | 31.10 | 23.23 | 26.77 | 14.57 | 14.57 | |
| | | | 546 | 21.50 | | | | | | | |
| 7 | 551 630 | 21.69 24.80 | 558,8 | 22.00 | 940 | 870 | 670 | 760 | 410 | 410 | 5 |
| , | 331 030 | 21.09 24.00 | 609,6 | 24.00 | 37.00 | 34.25 | 26.38 | 29.92 | 16.14 | 16.14 | 3 |
| | | | | | 1025 | 955 | 755 | 845 | 452 | 450 | |
| 8 | 631 715 | 24.84 28.15 | 711 | 28.00 | 40.31 | | | 33.27 | | 452 17.80 | 5 |
| | | | | | 40.31 | 37.00 | 23.12 | 33.21 | 17.00 | 17.00 | |
| | 740 000 | 00.40 04.50 | 700 | | 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 |
| | | | | | 4470 | 4400 | 000 | 000 | 500 | 500 | |
| 10 | | | 813 | 32.00 | | 1100 43.30 | | 990 38.97 | 500 19.69 | 500 19.69 | 5 |
| | | | | | | | | | | | |
| 11 | | | 1000 | 39.37 | | 1300 51.18 | | | | | 5 |
| | | | | | 33.12 | 31.10 | +0.00 | +1.24 | 25.29 | 20.04 | |
| 12 | | | 1016 | 40.00 | 1400 | 1300 | 1100 | 1200 | 602 | 602 | 5 |
| 12 | | | 1010 | 40.00 | 55.12 | 51.18 | 43.30 | 47.24 | 23.70 | 23.70 | 5 |
| | | | | | | | | | | | |

Ordering Codes Construction Series *KSV-*220-*PA-*W8 * Version Single version KSV Double version Duble version DKSV * Exact outside diameter ØD1 (mm) 220 * Material of Plastic Pads (see below) PA

* Material Code Steel, prime coated (grey, RAL 7035) W8

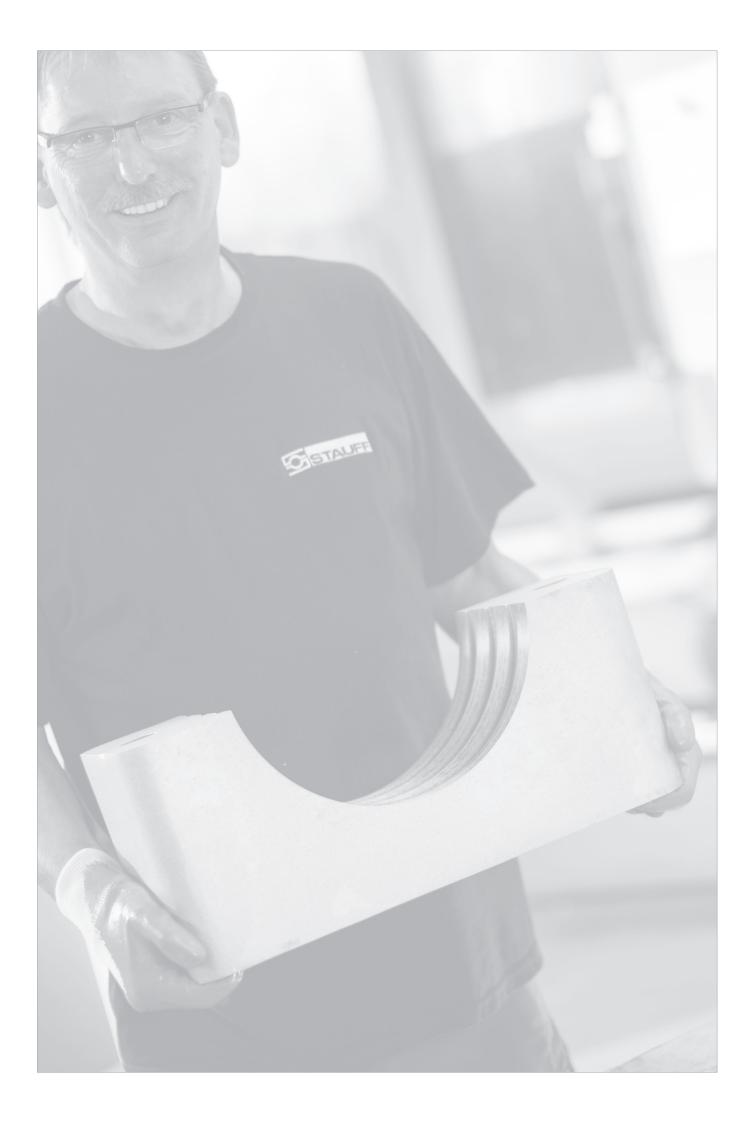
Standard Materials for Plastic Pads

Please note: All items are supplied non-assembled.

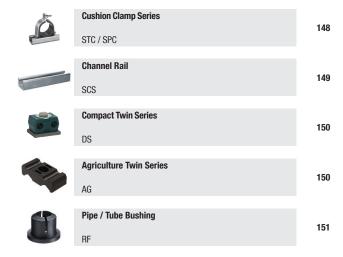


See pages 154 / 155 for material properties and technical information.

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





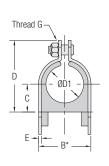


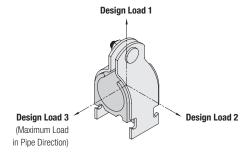


Clamp Assembly • Types STC / SPC

(for Use with Channel Rail SCS)







| | Diameter ibe / 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* | C | D | E | Thread G | 1 | 2 | 3 |
| 6,4 | 1/4 | | STC-025-**-K | 24 / box | 15,7 | 5,6 | 28,2 | 2 | 1/4-20 UNC | 1,78 | 0,22 | 0,22 |
| 0,4 | 1/4 | | 310-023- ** -K | 247 000 | .62 | .22 | 1.11 | .08 | 174-20 0110 | 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 |
| | | | 0.0 00. 1.1 | - 11 - 11 | .75 | .28 | 1.24 | .08 | | 400 | 50 | 50 |
| 12,7 | 1/2 | | STC-050-**-K | 24 / box | 22,1 | 8,6 | 34,5 | 2 | 1/4-20 UNC | 1,78 | 0,22 | 0,22 |
| | | | | | .87 | .34 | 1.36 | .08 | | 400 | 50 | 50 |
| 13,5 | | 1/4 | SPC-025-**-K | 24 / box | .91 | 9,1 | 35,8 1.41 | .08 | 1/4-20 UNC | 1,78 | 0,22 50 | 0,22 50 |
| | | | | | 25,4 | 10,4 | 38,1 | 2 | | 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 |
| | | | | | 27,2 | 11,4 | 40,4 | 2 | | 2,67 | 0,33 | 0,33 |
| 17,2 | | 3/8 | SPC-037-**-K | 24 / box | 1.07 | .45 | 1.59 | .08 | 1/4–20 UNC | 600 | 75 | 75 |
| 10 | 0/4 | | OTO 075 data 1/ | 04 / have | 33,8 | 13,5 | 45,2 | 2 | 1/4 00 UNO | 2,67 | 0,33 | 0,33 |
| 19 | 3/4 | | STC-075-**-K | 24 / box | 1.33 | .53 | 1.78 | .08 | 1/4–20 UNC | 600 | 75 | 75 |
| 21,3 | | 1/2 | SPC-050-**-K | 24 / box | 36,8 | 15,0 | 48,5 | 2 | 1/4-20 UNC | 2,67 | 0,33 | 0,33 |
| 21,0 | | 1/2 | OI U-000- *** -IX | 247 DUX | 1.45 | .59 | 1.91 | .08 | 1/4-20 UNU | 600 | 75 | 75 |
| 22,2 | 7/8 | | STC-087-**-K | 24 / box | 36,8 | 14,7 | 48,5 | 2 | 1/4-20 UNC | 2,67 | 0,33 | 0,33 |
| ,_ | | | | | 1.45 | .58 | 1.91 | .08 | | 600 | 75 | 75 |
| 25,4 | 1 | | STC-100-**-K | 12 / box | 42,2 | 16,8 | 51,6 | 2,8 | 1/4-20 UNC | 2,67 | 0,33 | 0,33 |
| | | | | | 1.66 45,5 | .66 18,3 | 2.03 54,9 | 2,8 | | 600 2,67 | 75 0,33 | 75 0,33 |
| 26,9 | | 3/4 | SPC-075-**-K | 12 / box | 1.79 | .72 | 2.16 | .11 | 1/4-20 UNC | 600 | 75 | 75 |
| | | | | | 48,8 | 19,8 | 58,4 | 2,8 | | 2,67 | 0,33 | 0,33 |
| 32 | 1-1/4 | | STC-125-**-K | 12 / box | 1.92 | .78 | 2.30 | .11 | 1/4–20 UNC | 600 | 75 | 75 |
| | | | | | 56,4 | 23,1 | 69,9 | 3 | | 2,67 | 0,33 | 0,33 |
| 33,7 | | 1 | SPC-100-**-K | 12 / box | 2.22 | .91 | 2.75 | .12 | 5/16–18 UNC | 600 | 75 | 75 |
| 38 | 1-1/2 | | CTC 1EO ALA V | 12 / box | 56,4 | 23,1 | 69,9 | 3 | 5/16–18 UNC | 2,67 | 0,33 | 0,33 |
| 30 | 1-1/2 | | STC-150-**-K | 12 / DUX | 2.22 | .91 | 2.75 | .12 | | 600 | 75 | 75 |
| 42 | | 1-1/4 | SPC-125-**-K | 12 / box | 62,7 | 26,2 | 77,0 | 3 | 5/16–18 UNC | 3,56 | 0,56 | 0,56 |
| 12 | | , . | 010 120 444 10 | 12 / 50/ | 2.47 | 1.03 | 3.03 | .12 | 0/10 10 0140 | 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 |
| i i | | | | | 2.47 | 1.16 | 3.28 | .12 | | 800 | 125 | 125 |
| 50,8 | 2 | | STC-200-**-K | 12 / box | 69,1 2.72 | 29,5 1.16 | 83,3 3.28 | .12 | 5/16-18 UNC | 3,56 | 0,56 125 | 0,56 125 |
| | | | | | 69,1 | 35,8 | 96,0 | 3 | | 3,56 | 0,56 | 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 |
| 00.7 | 0.5/0 | | 0T0 000 data 1/ | 1/5 | 88,1 | 38,9 | 102,4 | 3 | E/40, 40 UNO | 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 |
| 70 | | 2 1/2 | 01 0 200 44 K | 17 bug | 3.72 | 1.66 | 4.27 | .12 | 3/10 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 | 4.52 | .12 | | 1 000 | 200 | 150 |
| 88,9 | | 3 | SPC-300-**-K | 1 / bag | 110,7 4.36 | 50,0 1.97 | 124,7 4.91 | .12 | 3/8-16 UNC | 4,45 1 000 | 0,89 | 0,67 150 |
| | | | | | 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 | 3/8-16 UNC | 1 000 | 200 | 150 |
| | | | | | 138,9 | 64,3 | 153,2 | 3 | | 4,45 | 0,89 | 0,67 |
| 114 | | 4 | SPC-400-**-K | 1 / bag | 5.47 | 2.53 | 6.03 | .12 | 3/8-16 UNC | 1 000 | 200 | 150 |
| 4.40 | | - | 000 500 7 1 17 | 4.75 | 164,3 | 77,0 | 178,6 | 3,6 | 0/0 /0 / 10 | 4,45 | 0,89 | 0,67 |
| 140 | | 5 | SPC-500-**-K | 1 / bag | 6.47 | 3.03 | 7.03 | .14 | 3/8–16 UNC | 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 |
| 100 | | 0 | JI U-UUU- ↑↑ *I\ | i / bay | 7.47 | 3.53 | 8.03 | .14 | 3/0-10 UNC | 1 000 | 200 | 150 |

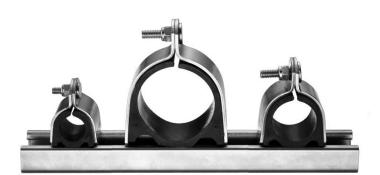
 $^{^{\}star}\,$ Minimum required for installation.

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

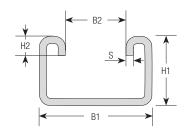
- Clamp assemblies designed to mount directly to 41,3 mm / 1-5/8 in wide strut channels, such as the STAUFF Channel Rail, type SCS
- Suitable for most Fluid Power applications ranging from mobile equipment to industrial machinery
- Reduced horizontal mounting space
- Easy installation and retro fit capability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



Clamp Assembly - Types STC / SPC

| Ordering Codes | | | | | | | |
|-------------------|--|------------|--|--|--|--|--|
| 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.



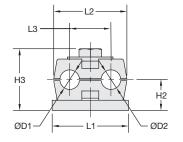
| Ordering Codes | | | | | | | |
|------------------|--|------------|--|--|--|--|--|
| Strut Channel | *SCS-*048- | *1-*PL | | | | | |
| * Strut Channel | | SCS | | | | | |
| * Length of Rail | 1,22 m / 4.00 ft / 48 in 3,05 m / 10.00 ft / 120 in | 048 120 | | | | | |
| * Height of Rail | 25,4 mm / 1.00 in | 1 | | | | | |
| * Material code | Carbon Steel, uncoated Carbon Steel, green painted | PL GR | | | | | |

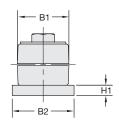
STAUFF®

Compact Twin Series: Clamp Body Type DS









Ordering Codes

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

One clamp body is consisting of two clamp halves.

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

Outside Diameter Nominal Bore Ordering Codes Dimensions (mm/in) Group Pipe / Tube **Copper Tube** (2 Clamp Halves) Ø D1 / Ø D2 ASTM B88 STAUFF L1 L2 L3 H1 H2 H3 B1 (mm) (in) (in) (in) 106/06-PP-DS 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

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

Compact Twin Series: Metal Hardware



Weld Plate, Type SP-DS

06/06

PP

DS

SP-DS-1-U-W2Thread size: 1/4–20 UNC Carbon Steel, phosphated



Cover Plate, Type US-DS

US-DS-1-W3

Carbon Steel, zinc/nickel-plated



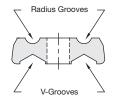
Hexagon Bolt, Type AS

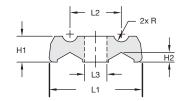
AS-1/4-20UNCx1-W3 Thread size: 1/4–20 UNC Carbon Steel, zinc/nickel-plated

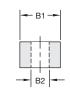
All threaded parts are only available with unified coarse (UNC) thread. Rail mount and stacking assemblies as well as alternative materials and surface finishings are available upon request.

Agriculture Twin Series: Clamp Body Type AG









| Group | Pipe / Tube | | | Ordering Codes (1 Clamp Body) | Dimens | ions (^{mm} / _{in}) | | | | | | | |
|--------|-----------------------|------------|-------------------|----------------------------------|---------------------|--|------|------|------|-----|------|------|------|
| STAUFF | Radius Groove (mm) | es (in) | V-Grooves (mm) | (in) | | L1 | L2 | L3 | H1 | H2 | B1 | B2 | R |
| JIAUII | (11111) | (III) | (IIIII) | (III) | | LI | LZ | LU | 111 | 112 | | DZ | 11 |
| 2 | 3 10 | .1239 | 4 15 | .2659 | 215.8/09.6-PP-AG-BK | 57,5 | 31,7 | 14,0 | 16,0 | 7,1 | 25,0 | 11,0 | 4,8 |
| _ | 0 10 | . 1200 | 1 10 | .2000 | ZIO.0700.0 TT AG DK | 2.26 | 1.25 | .55 | .63 | .24 | .98 | .43 | .19 |
| _ | | | | | | 62,0 | 34,5 | 14.0 | 19,0 | 7,1 | 32,0 | 11,0 | 12,4 |
| 3 | 4 25 | .1698 | 7 20 | .2879 | 324.8/19.5-PP-AG-BK | 2.48 | 1.36 | .55 | .75 | .28 | 1.26 | .43 | .49 |

Standard Material



Polypropylene Colour: Black

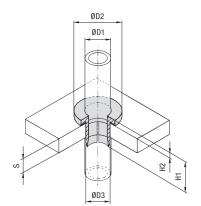
See pages 154 / 155 for properties and technical information.

Product Features

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

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





Outside Diameter ØD1 Nominal Bore Wall Thickness **Mounting Bore Dimensions** ØD2 H2 ØD3 (mm) (in) (in) H1 18 4 ... 12 10 22 4 6 1/4 .1647 71 87 .16 39 20 22 4 ... 12 12 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 14 1/4 Pipe 1.02 .16 .1647 87 71 28 22 4 ... 12 20 15 .1647 .79 1.10 .87 .16 28 22 4 4 ... 12 20 16 1/2 Copper Tube (ASTM B88) 1.10 .87 .16 .1647 .79 22 30 22 4 ... 12 18 1.18 .87 .16 .1647 .87 32 22 24 20 3/4 1.26 .87 .1647 .16 26 34 22 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 .1647 1.50 .16 .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 .16 .1647 .87 1.57 22 4 4 ... 12 43 1-1/2 38 2.01 .87 .1647 1.70 .16 47 1-1/4 Pipe 55 1-1/2 Copper Tube (ASTM B88) 2.17 55 22 4 4 ... 12 42

.87

.16

.1647

1.85

Pipe / Tube Bushing - Type SRF



| Or | dei | ring | Cod | es | |
|----|-----|------|-----|----|--|
| | | | | | |

Pipe / Tube Bushing

*SRF-*20-*PP

* Pipe / Tube Bushing * Exact outside diameter Ø D1 (mm) 20 * Material code (see below) PP

Standard Materials



Polypropylene

Colour: Natural colour Material code: PP



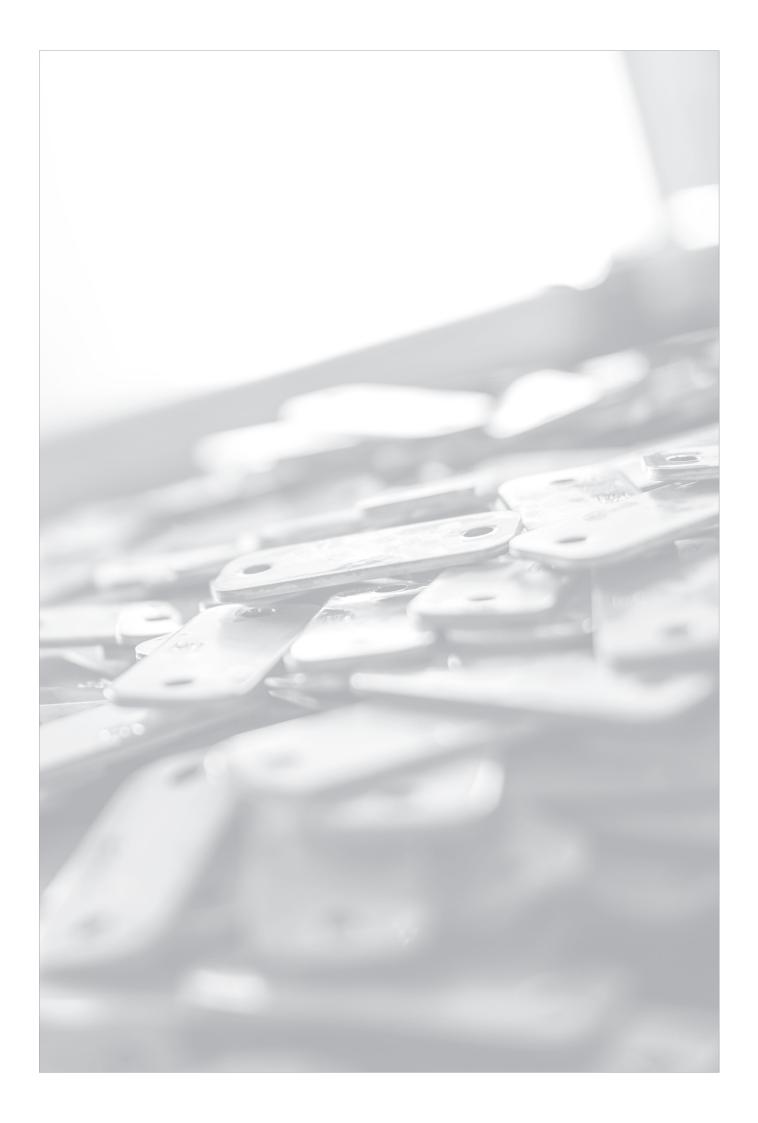
Thermoplastic Elastomer (87 Shore-A)

Colour: Black Material code: SA

See pages 154 / 155 for material properties and technical

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/mm² (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 | | | | | | | | |
|---------------------|--------------------------|--------------------------|--------------------------|--------------------------|--|--|--|--|
| 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-VO | PP-DA |
|-----------------|-----------|---------------|
| Basic Material | Polyamide | Polypropylene |
| Standard Colour | Grey | White |

| Mechanical Properties | | | |
|---|---|--|--|
| Tensile E-Module | 1500 MPa (ISO 527-2) | 1614 N/mm² (ISO 527) at +23 °C / +73.4 °F: 50 mm/min | |
| 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) | |
| 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 | |
| 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 / -13°F +194°F |

| Features | eatures | | | |
|------------------------|---|--|--|--|
| Approvals / Properties | Tested and approved acc. to UL94 ¹ (material thickness: 3 mm) | Tested and approved acc. to UL94 ¹ (material thickness: 3 mm) | | |
| | ■ 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 | | |
| | Requirements set R22Hazard level HL3 | Approved by the UK Ministry of Defence (MoD) | | |
| | Tested and approved acc. to DIN 5510, Part 2 (material thickness: 3 mm) Combustibility classification: S4 Smoke development classification: SR2 Dripping classification: ST2 | | | |
| | Tested and approved acc. to NF F 16-101 (material thickness: 3 mm) Classification: I3 / F2 | | | |
| | | | | |

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 | -50°C +90°C / -58°F +194°F | Temperature Resistance (Min Max) |

| | | | Features |
|--|--|--|------------------------|
| Tested and approved acc. to EN 45545-2 (material thickness: 3 mm) Requirements set R22 Hazard level 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 | | | |
| Compliant to the requirements of NFPA 130 (Standard for Fixed Guideway Transit and Passenger Rail Systems) | | | |

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



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S=0

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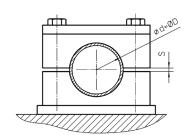
Standard Clamp Body Designs



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)

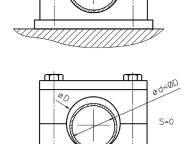




Type H (Smooth)

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)

■ 1.4401 / 1.4571 (AISI 316 / 316 Ti)

■ Material code: W4

Stainless Steel V4A sn

Material code: W5

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 192 hours

In all three cases, signs of white and red rust / base metal corrosion are quite clearly visible! Please do not hesitate to contact STAUFF and ask for a detailed report.

Property Classes / Grades of Bolts and Screws

Thread Conversion Chart

Metric ISO vs. Unified Coarse (UNC) Thread









Slotted Head Screw

| Standard Ser | ies (DIN 3015, Part 1) | |
|--------------|------------------------|--|
| Group | Thread | |

Unless otherwise stated, all threaded parts available with Metric ISO thread or unified coarse (UNC) thread.

| 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 UNC |

| 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.

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STAUFF

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):

Standard Series 1 ... 2 N·m / .75 ... 1.5 ft·lb (hand-tightened)

 $\textbf{Heavy Series} \qquad 5 \text{ N·m / 3.75 ft·lb}$

 $\textbf{Twin Series} \hspace{1.5cm} 1 \dots 2 \ \text{N} \cdot \text{m} \ / \ .75 \dots 1.5 \ \text{ft-lb} \ (\text{hand-tightened})$

- 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 | | 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 |

| 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.

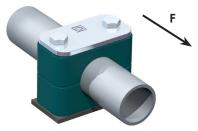
Valves

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 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 | t | Polypropy | ylene | | | Polyamide Aluminium | | | | | m | | | |
|--------|-----|-------------------|--------------------|-----------|----------|------------|-----------|---------------------|----------|------------|-----------|-----------|----------|-----------|---------------------|--|
| | | DIN EN ISO 4014/4 | 1017 (DIN 931/933) | | | Maximun | ı Load | | | Maximum | ı Load | | | Maximun | n Load | |
| | | Metric | Unified Coarse | Tightenin | g Torque | in Pipe Di | rection F | Tightenin | g Torque | in Pipe Di | rection F | Tightenin | g Torque | in Pipe D | 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 | | | | | |

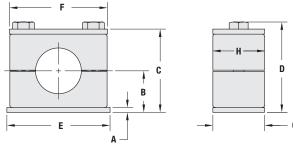
Heavy Series (DIN 3015-2:1999)

| Group | | Hexagon Head I | Bolt | Polypro | pylene | | | Polyami | de | | | Aluminiu | Aluminium | | | | |
|--------|-----|----------------|------------------------------------|-------------------|---------|--------------|-------------|-------------------|---------|---------|------------|-------------------|-----------|---------------------|-------|--|--|
| | | | DIN EN ISO 4014/4017 (DIN 931/933) | | | Maximum Load | | | | Maximur | | | | Maximum Load | | | |
| | | Metric | Unified Coarse | Tightening Torque | | | Direction F | Tightening Torque | | | irection 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) | | |
| 3S | 1 | M10 | 3/8-16 UNC | 12 | 9 | 1,6 | 360 | 20 | 15 | 4,2 | 944 | 30 | 22 | 12,1 | 2720 | | |
| 4S | 2 | M10 | 3/8-16 UNC | 12 | 9 | 2,9 | 652 | 20 | 15 | 4,5 | 1044 | 30 | 22 | 15,1 | 3395 | | |
| 5S | 3 | M10 | 3/8-16 UNC | 15 | 11 | 3,3 | 742 | 25 | 18 | 5,1 | 1146 | 35 | 26 | 15,5 | 3485 | | |
| 6S | 4 | M12 | 7/16–14 UNC | 30 | 22 | 8,2 | 1843 | 40 | 30 | 9,3 | 2090 | 55 | 41 | 29,5 | 6609 | | |
| 7S | 5 | M16 | 5/8-11 UNC | 45 | 33 | 11,0 | 2472 | 55 | 41 | 15,8 | 3551 | 120 | 86 | 34,9 | 7845 | | |
| 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 | | |
| 10S | 8 | M30 | 1-1/8-7 UNC | 180 | 133 | 40,0 | 8992 | 350 | 258 | 48,0 | 10790 | 500 | 369 | 84,5 | 18996 | | |
| 118 | 9 | M30 | 1-1/4-7 UNC | 200 | 148 | 119,0 | 26752 | 370 | 273 | 125,0 | 27650 | 500 | 369 | 181,5 | 40802 | | |
| 12S | 10 | M30 | 1-1/4-7 UNC | 270 | 199 | 168,0 | 37767 | 450 | 332 | 180,0 | 40465 | 600 | 443 | 244,5 | 54965 | | |

Twin Series (DIN 3015-2:1999)

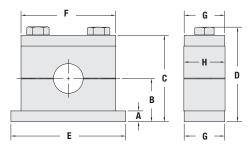
| Group | | Hexagon Head Bol | lt | Polypropylene | | | | Polyamide | | | | | |
|-------------|---|-------------------|--------------------|----------------|---------|-------------------|-------|----------------|---------|-------------------|-------|--|--|
| | | DIN EN ISO 4014/4 | 1017 (DIN 931/933) | | | Maximum Loa | d | | | Maximum Loa | d | | |
| | | Metric | Unified Coarse | Tightening Tor | que | in Pipe Direction | on F | Tightening Tor | que | in Pipe Direction | on F | | |
| STAUFF DIN | | ISO Thread | (UNC) Thread | (N·m) | (ft·lb) | (kN) | (lbf) | (N·m) | (ft·lb) | (kN) | (lbf) | | |
| 1D | 1 | M6 | 1/4-20 UNC | 5 | 4 | 0,9 | 202 | 5 | 4 | 0,9 | 202 | | |
| 2D | 2 | M8 | 5/16-18 UNC | 12 | 9 | 2,1 | 472 | 12 | 9 | 2,2 | 495 | | |
| 3D | 3 | M8 | 5/16-18 UNC | 12 | 9 | 1,9 | 427 | 12 | 9 | 2,0 | 450 | | |
| 4D | 4 | M8 | 5/16-18 UNC | 12 | 9 | 2,7 | 607 | 12 | 9 | 2,9 | 652 | | |
| 5D 5 | | M8 | 5/16-18 UNC | 8 | 6 | 1,7 | 382 | 8 | 6 | 2,5 | 562 | | |

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 |
| A | 4 | 3 | 16,5 | 16 | 33 | 32 | 37 | 36 | 36 | 34 | 30 | 30 | 8,10 |
| А | 1 | .12 | .65 | .63 | 1.30 | 1.26 | 1.46 | 1.42 | 1.41 | 1.33 | 1.18 | 1.18 | 17.82 |
| | 0 | 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 |
| | 0 | 3 | 21 | 20,75 | 42 | 41,5 | 46 | 45,5 | 50 | 48 | 30 | 30 | 11,20 |
| | 3 | .12 | .83 | .82 | 1.65 | 1.64 | 1.81 | 1.80 | 1.96 | 1.88 | 1.18 | 1.18 | 24.64 |
| | 4 | 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 |
| 5 | 5 | 3 | 32 | 31,25 | 64 | 62,5 | 68 | 66,5 | 71 | 70 | 30 | 30 | 17,10 |
| 1 | 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 |
| 1 | О | .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 |
| | 1 | .20 | 2.03 | 2.01 | 4.06 | 4.02 | 4.21 | 4.17 | 4.81 | 4.65 | 1.18 | 1.18 | 92.62 |
| | 0 | 5 | 64 | 63 | 128 | 126 | 132 | 130 | 148 | 144 | 30 | 30 | 44,00 |
| 3 | 8 | .20 | 2.52 | 2.48 | 5.04 | 4.96 | 5.20 | 5.12 | 5.83 | 5.67 | 1.18 | 1.18 | 96.80 |

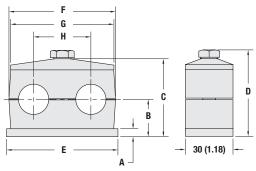


Heavy Series (DIN 3015, Part 2)

| Group | | Dimensi | ons (^{mm} / _{in}) | | | | | | | | | | | Weight per 1 Pc. |
|--------|-----|---------|---------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------|----------|-------|------|------|--------------------|
| | | | В | | C | | 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 |
| 6S | 4 | 10 | 54,5 | 53,5 | 109 | 107 | 116,5 | 114,5 | 140 | 115 | 120 | 45 | 45 | 1,21 |
| 05 | 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 |
| 75 | 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 |
| 00 | O | .59 | 3.90 | | 7.80 | | 8.29 | | 8.90 | 8.11 | 8.19 | 3.15 | 3.15 | 12.26 |
| 9S | 7 | 15 | 115 | | 230 | | 245 | | 270 | 251 | 255 | 90 | 91 | 7,97 |
| 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 |
| 110 | 0 | 30 | 235 | | 470 | | 488,7 | | 520 | 470 | 470 | 160 | 162 | 54,11 |
| 11S | 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 | 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 |
| OD. | 2 | 5 | 18,5 | 18,25 | 39 | 38,5 | 44 | 43,5 | 55 | 53 | 52 | 29 | 13,50 |
| 2D | | .20 | .73 | .72 | 1.54 | 1.52 | 1.73 | 1.71 | 2.17 | 2.09 | 2.05 | 1.14 | 29.70 |
| an. | 3 | 5 | 23,5 | 23,25 | 49 | 48,5 | 54 | 53,5 | 70 | 67 | 65 | 36 | 17,70 |
| 3D | | .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 |
| 4υ | 4 | .20 | .98 | .94 | 2.05 | 1.97 | 2.24 | 2.17 | 3.35 | 3.15 | 3.11 | 3.11 1.77 44.88 | 44.88 |
| 5D | - | 5 | 31,5 | 31 | 65 | 64 | 70 | 69 | 110 | 106 | 102 | 56 | 27,70 |
| טט | 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 STAUFF | DIN | Quantity per Bag (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 | | Quantity per Bag |
|---------|-------|------------------|
| STAUFF | DIN | (in Pcs.) |
| 1D - 4D | 1 - 4 | 25 |
| 5D | 5 | 10 |

Clamp Bodies (Aluminium)

| Group STAUFF | DIN | Quantity per Bag (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 | | Quantity per Bag |
|---------|-------|------------------|
| STAUFF | DIN | (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.

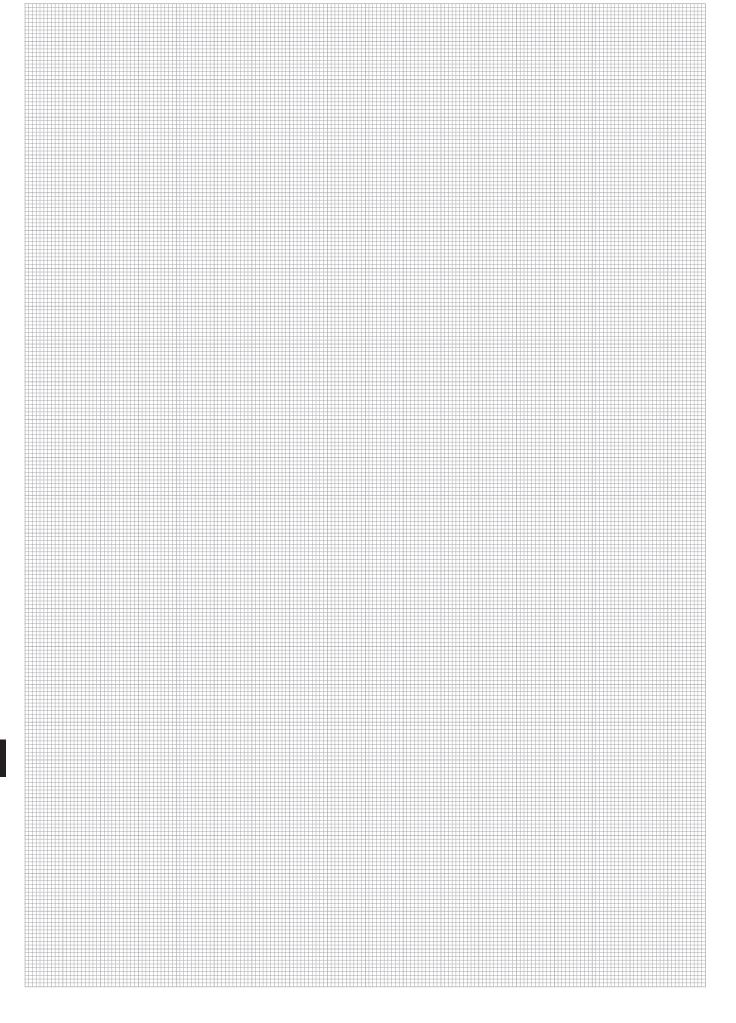
Hexagon Rail Nut (Type SM) Channel Rail Adaptor (Type CRA)

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

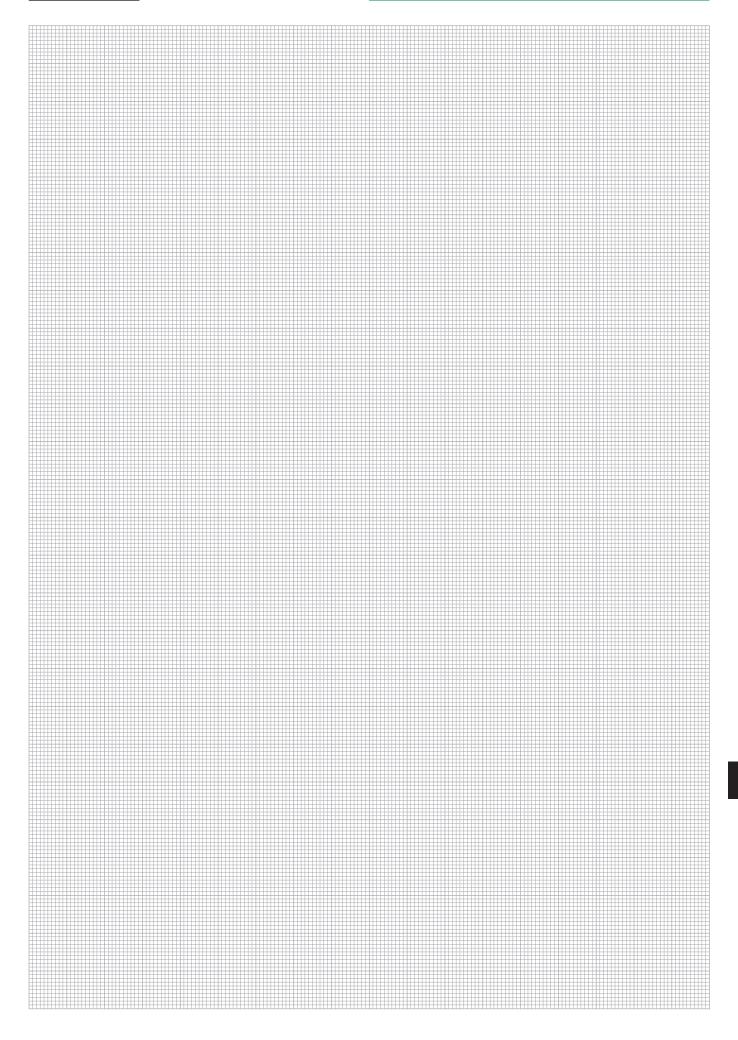
Mounting Rail Nut (Type GMV)
Channel Rail Adaptor (Type CRA)

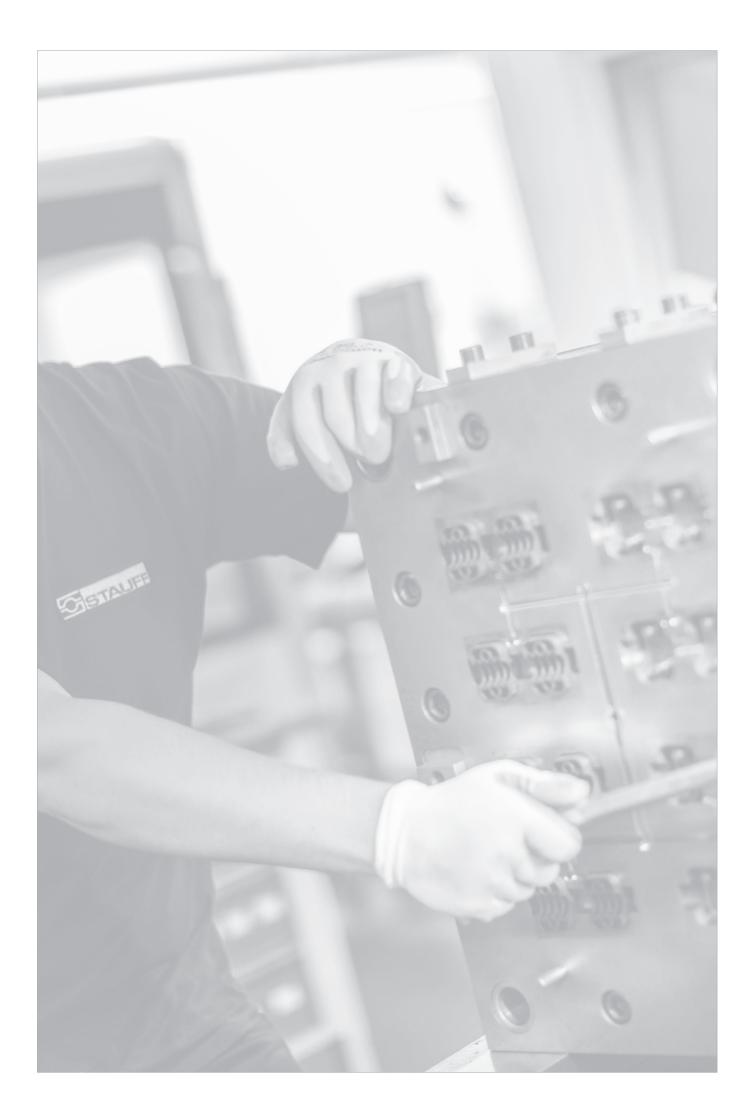
| Group STAUFF | DIN | Quantity per Bag (in Pcs.) |
|-----------------|-------|-------------------------------|
| 3S - 6S | 1 - 4 | 40 |













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 50 | Standard Series according to DIN 3015, Part 1 | Bridge Weld Plate | 22 |
| CB420-50 | STAUFF Bond: Adhesive Bonded Fastening | Adhesive Cartridge | 100 |
| CB420-50E | STAUFF Bond: Adhesive Bonded Fastening | Adhesive Cartridge | 100 |
| CC | Standard Series according to DIN 3015, Part 1 | Clamp Body - Compact Design | 19 |
| CHC | Standard Series according to DIN 3015, Part 1 | Clamp Body for Conduit Hoses | 18 |
| CRA | Standard Series according to DIN 3015, Part 1 | Channel Rail Adaptor | 25 |
| CRA | Heavy Series according to DIN 3015, Part 2 | Channel Rail Adaptor | 43 |
| CRA | Twin Series according to DIN 3015, Part 3 | Channel Rail Adaptor | 58 |
| CRA | Heavy Twin Series | Channel Rail Adaptor | 68 |
| DIN1592 | Metal DIN Clamps | Heavy Saddle with Tension Clearance - Single-Bolt Design | 138 |
| DIN1593 | Metal DIN Clamps | Heavy Saddle with Tension Clearance - Two-Bolt Design | 139 |
| DIN1596 | Metal DIN Clamps | Light Saddle with Tension Clearance - Single-Bolt Design | 140 |
| DIN1597 | Metal DIN Clamps | Light Saddle with Tension Clearance - Two-Bolt Design | 141 |
| 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 |
| | | т. т. т. т. т. т. т. | 145 |
| DKSV | Construction Series | Construction Series Clamp (for Anchor Bolt Fastening) | |
| 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 Construction Series Clamp (for Applex Belt Factories) | 144 |
| KSV | 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 | 115 |
| LBBU-HUE | Light Series | Sleeve | 114 |
| LBBU-SP | Light Series | Weld Plate | 114 |
| LB | 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 |
| | Light Series | Clamp Body - Single Design | 118 |
| LN | | | |
| LNGF | - | | |
| LN LNGF LNUF | Light Series Light Series Light Series | Clamp Body - Twin Design Clamp Body - Twin Design | 119 119 |





Product-Specific Abbreviations

| Abbreviation | Product Category | Product Description | Page |
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| 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 |
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| 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 |
| SBD | STAUFF Bond: Adhesive Bonded Fastening | Manual Adhesive Dispenser | 101 |
| SBDS-81 | STAUFF Bond: Adhesive Bonded Fastening | Dispenser Slide | 101 |
| SBMT | STAUFF Bond: Adhesive Bonded Fastening | Mixing Tip | 101 |
| SBP | STAUFF Bond: Adhesive Bonded Fastening | STAUFF Bond Plate for DIN 3015 Clamps | 99 |
| 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 |
| SMG | Standard Series according to DIN 3015, Part 1 | Hexagon Rail Nut | 24 |
| SMG | 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 |
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| SPV | Standard Series according to DIN 3015, Part 1 | Elongated Weld Plate | 20 |
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| STSV | Heavy Series according to DIN 3015, Part 2 | Mounting Rail | 42 |
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| 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 |



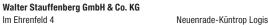
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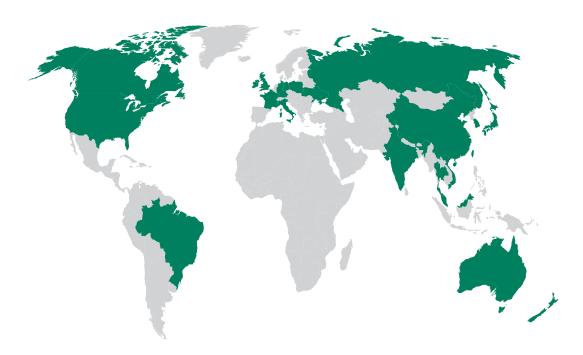
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