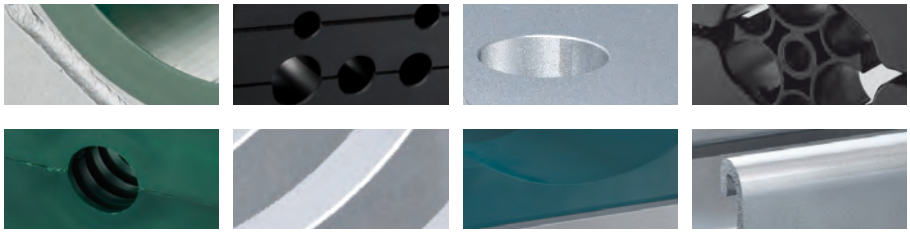


In most industrial countries STAUFF Clamps symbolise quick and easy pipe and hose installations as well as a clean distinct pipe layout.

The vibration and noise reducing features are appreciated as being an important contribution to environmental protection.

Apart from the technical sophistication of STAUFF Clamps, the second-to-none delivery, prompt service even for special constructions, STAUFF Clamps are also the most economical ones to install.

STAUFF Clamps applications are almost unlimited. Due to the extraordinary wide product range, almost all areas of pipe, tube, hose and cable installation are covered:

- Industrial and Mobile Hydraulics
- Marine, Oil and Gas Industry
- Process and Chemical Industry
- Food and Beverage Industry
- Mining Industry
- Power Plants and Reactors
- Wind Energy Plants
- General Industrial Pipework
- Transport and Utility Lines
- Pneumatic, Lubrication and Grease Lines
- Instrumentation Lines

STAUFF Clamps have been successfully tested and approved by several international organisations, including:

- 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 TÜV
- United States Coast Guard

Please do not hesitate to contact STAUFF for further details.

www.stauff.com

A

STAUFF Clamps

Standard Series (DIN 3015, Part 1)

Heavy Series (DIN 3015, Part 2)

Twin Series (DIN 3015, Part 3)

Heavy Twin Series

Compact Twin Series

Agriculture Twin Series

Plastic Saddle Clamps

Custom-Designed Clamps

Light Series ▪ Types LBBU

Light Series ▪ Types LB/LBG/LBU

Light Series ▪ Types LN/LNGF/LNUF

Construction Series

Flat and Round Steel U-Bolts

Metal Pipe Clamps

Heavy Saddles

Light Saddles

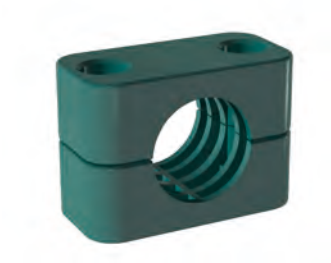
Cushion Clamp Series

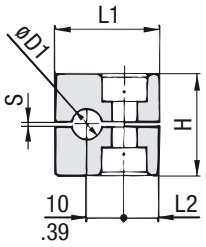
Industry-Specific Solutions

Technical Appendix

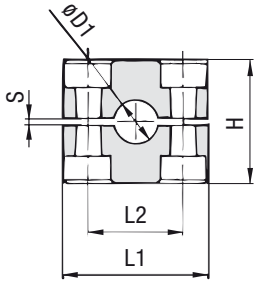
Clamp Body ▪ Profiled Design

Profiled Inside Surface with Tension Clearance





STAUFF Group 1



STAUFF Group 1A to 8

Order Codes

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

One clamp body is consisting of two clamp halves.

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

Standard Materials

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

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

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

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

See pages A88 / A89 for material properties and technical information.

Special Materials

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

See pages A90 / A91 for material properties and technical information.

Product Features

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

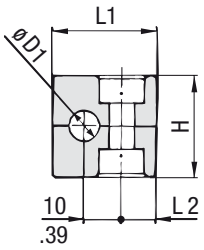
Group STAUFF	Group DIN	Outside Diameter Pipe / Tube Ø D1 (mm)	Outside Diameter Pipe / Tube Ø D1 (in)	Nominal Bore Pipe (in)	Nominal Bore Copper Tube ASTM B88 (in)	Order Codes (2 Clamp Halves) (** = Material)	Dimensions (mm / in) L1	L2	H	S min.	Width
1	0	6				106 **					
		6,4	1/4			106,4 **					
		8	5/16			108 **	28	9,5	27	0,4	30
		9,5	3/8		1/4	109,5 **	1.10	.37	1.06	.02	1.18
		10		1/8		110 **					
		12				112 **					
1A	1	6				106A **					
		6,4	1/4			106,4A **					
		8	5/16			108A **	37	20	27	0,4	30
		9,5	3/8		1/4	109,5A **	1.46	.79	1.06	.02	1.18
		10		1/8		110A **					
		12				112A **					
2	2	12,7	1/2		3/8	212,7 **					
		13,5		1/4		213,5 **					
		14				214 **	42	26	33	0,6	30
		15				215 **	1.65	1.02	1.30	.02	1.18
		16	5/8		1/2	216 **					
		17,2		3/8		217,2 **					
		18				218 **					
3	3	19	3/4			319 **					
		20				320 **					
		21,3		1/2		321,3 **	50	33	36	0,6	30
		22			3/4	322 **	1.97	1.30	1.42	.02	1.18
		25				325 **					
		25,4	1			325,4 **					
4	4	26,9		3/4		426,9 **					
		28				428 **					
		28,6			1	428,6 **	59	40	42	0,6	30
		30				430 **	2.32	1.57	1.65	.02	1.18
		32				432 **					
5	5	32	1-1/4			532 **					
		33,7		1		533,7 **					
		35			1-1/4	535 **					
		38	1-1/2			538 **	71	52	58	0,8	30
		40				540 **	2.80	2.05	2.28	.03	1.18
		41,3			1-1/2	541,3 **					
		42		1-1/4		542 **					
6	6	44,5	1-3/4			644,5 **					
		48,3		1-1/2		648,3 **	86	66	66	0,8	30
		50,8	2			650,8 **	3.39	2.60	2.60	.03	1.18
		54			2	654 **					
7	7	57,2	2-1/4			757,2 **					
		60,3		2		760,3 **					
		63,5	2-1/2			763,5 **	121	94	93	0,8	30
		70	2-3/4			770 **	4.76	3.70	3.66	.03	1.18
		73		2-1/2 (ANSI B 36-10)		773 **					
		76,1	3	2-1/2 (DIN EN 10220)		776,1 **					
8	8	88,9		3		888,9 **	147	120	118	0,8	30
		102	4	3-1/2		8102L **	5.79	4.72	4.65	.03	1.18

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

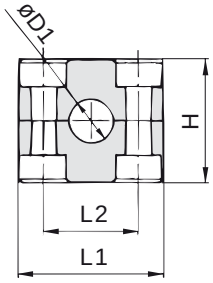
Dimensional drawings: All dimensions in mm (in).

Clamp Body ▪ Type H

Smooth Inside Surface without Tension Clearance



STAUFF Group 1



STAUFF Group 1A to 8

Group STAUFF	Group DIN	Outside Diameter Hose Ø D1 (mm)	Outside Diameter Hose Ø D1 (in)	Order Codes (2 Clamp Halves) (*** = Material)	Dimensions (mm/in) L1	L2	H	Width
1	0	6		106 ***				
		6,4	1/4	106,4 ***				
		8	5/16	108 ***	28	9,5	26	30
		9,5	3/8	109,5 ***	1.10	.37	1.02	1.18
		10		110 ***				
		12		112 ***				
1A	1	6		106A ***				
		6,4	1/4	106,4A ***				
		8	5/16	108A ***	37	20	26	30
		9,5	3/8	109,5A ***	1.46	.79	1.02	1.18
		10		110A ***				
		12		112A ***				
2	2	12,7	1/2	212,7 ***				
		13,5		213,5 ***				
		14		214 ***	42	26	32	30
		15		215 ***	1.65	1.02	1.26	1.18
		16	5/8	216 ***				
		17,2		217,2 ***				
		18		218 ***				
3	3	19	3/4	319 ***				
		20		320 ***	50	33	35,5	30
		21,3		321,3 ***	1.97	1.30	1.40	1.18
		22		322 ***				
		25		325 ***				
		25,4	1	325,4 ***				
4	4	26,9		426,9 ***				
		28		428 ***	59	40	41,5	30
		30		430 ***	2.32	1.57	1.63	1.18
		32		432 ***				
5	5	32	1-1/4	532 ***				
		33,7		533,7 ***				
		35		535 ***	71	52	56,5	30
		38	1-1/2	538 ***	2.80	2.05	2.22	1.18
		40		540 ***				
		42		542 ***				
6	6	44,5	1-3/4	644,5 ***				
		48,3		648,3 ***	86	66	64,5	30
		50,8	2	650,8 ***	3.39	2.60	2.54	1.18
		54		654 ***				
7	7	57,2	2-1/4	757,2 ***				
		60,3		760,3 ***				
		63,5	2-1/2	763,5 ***	121	94	92	30
		70	2-3/4	770 ***	4.76	3.70	3.62	1.18
		73		773 ***				
		76,1	3	776,1 ***				
8	8	88,9		888,9 ***	147	120	116	30
		102	4	8102L ***	5.79	4.72	4.57	1.18

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

Order Codes

Clamp Body ***1*06*PPH**

Clamp Body, STAUFF Group 1A ***1*06A*PPH**

One clamp body is consisting of two clamp halves.

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

Standard Materials

Polypropylene
Colour: Green
Material code: **PPH**

Polyamide
Colour: Black
Material code: **PAH**

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

See pages A88 / A89 for material properties and technical information.

Special Materials

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

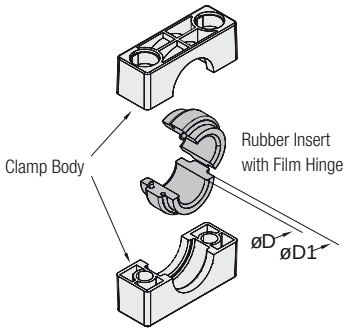
See pages A90 / A91 for material properties and technical information.

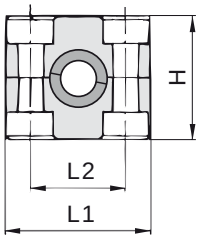
Product Features

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

Dimensional drawings: All dimensions in mm (in).

Clamp Body with Rubber Insert Type RI





Order Codes

Clamp Assembly *4*06*PPR

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

* STAUFF Group	**4**
* Exact outside diameter Ø D (mm)	**06**
* Material code (see below)	**PPR**

Clamp Body *4*PPR

One clamp body is consisting of two clamp halves.

* STAUFF Group	**4**
* Material code (see below)	**PPR**

Rubber Insert *RI*06*(4+4S)

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

Standard Materials

Polypropylene
Colour: Black
Material code: **PPR**

Polyamide
Colour: Black
Material code: **PAR**

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

See pages A88 / A89 for material properties and technical information.

Special Materials

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

See pages A90 / A91 for material properties and technical information.

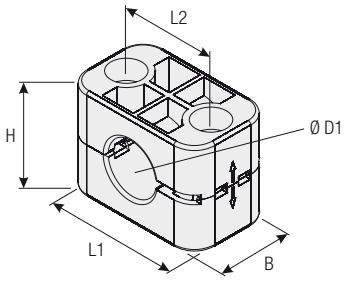
Product Features

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

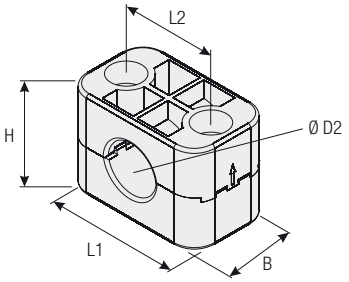
Group STAUFF	Group DIN	Outside Diameter Pipe / Tube / Hose Ø D (mm)	Ø D (in)	Order Codes (**R = Clamp Body Material) Clamp Assembly (Clamp Body + Rubber Insert)	Clamp Body (2 Clamp Halves)	Rubber Insert *	Dimensions (mm/in) Ø D1	L1	L2	H	Width
4	4	6		406 **R	4 **R	RI 06 (4+4S)	25 .98	59 2.32	40 1.57	41,2 1.62	30 1.18
		8	5/16	408 **R		RI 08 (4+4S)					
		10		410 **R		RI 10 (4+4S)					
		12		412 **R		RI 12 (4+4S)					
		12,7	1/2	412,7 **R		RI 12,7 (4+4S)					
		14		414 **R		RI 14 (4+4S)					
		15		415 **R		RI 15 (4+4S)					
		16	5/8	416 **R		RI 16 (4+4S)					
		17,2		417,2 **R		RI 17,2 (4+4S)					
		18		418 **R		RI 18 (4+4S)					
		19	3/4	419 **R		RI 19 (4+4S)					
6	6	20		620 **R	6 **R	RI 20 (6+5S)	38 1.50	86 3.39	66 2.60	64,5 2.54	30 1.18
		21,3		621,3 **R		RI 21,3 (6+5S)					
		22	7/8	622 **R		RI 22 (6+5S)					
		25		625 **R		RI 25 (6+5S)					
		26,9		626,9 **R		RI 26,9 (6+5S)					
		28		628 **R		RI 28 (6+5S)					
		30		630 **R		RI 30 (6+5S)					
		32	1-1/4	632 **R		RI 32 (6+5S)					

* Rubber Inserts for Standard Series clamp bodies, STAUFF Group 4 also fit into Heavy Series clamp bodies, STAUFF Group 4S.
Rubber 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 consult STAUFF for further information.



For Use with Regular Hose



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

Clamp Body ▪ Compact Design Type CC

Group STAUFF	Group DIN	Outside Diameter Regular Hose Ø D1 (mm)	Ø D1 (in)	Outside Diameter Compact Hose Ø D2 (mm)	Ø D2 (in)	Order Codes (2 Clamp Halves) (✱✱✱ = Material)	Dimensions (mm/in) L1	L2	H Regular Hose	H Compact Hose	B
3	3	19	.75	17,4	.69	319✱✱✱-CC	50 1.97	33 1.30	35,5 1.40	34 1.34	30 1.18
		22,2	.87	20,6	.81	322,2✱✱✱-CC					
		25,4	1.00	23,7	.93	325,4✱✱✱-CC					

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

Order Codes

Clamp Body ***3*19*PPH-CC**

One clamp body is consisting of two clamp halves.

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

Product Features

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

Special Materials

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

See pages A90 / A91 for material properties and technical information.

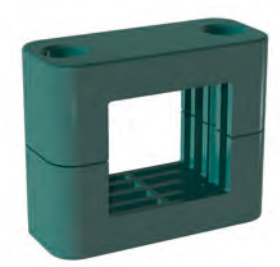
Standard Materials

Polypropylene
Colour: Black
Material code: **PPH-CC**

Polyamide
Colour: Black
Material code: **PAH-CC**

See pages A88 / A89 for material properties and technical information.

Clamp Body ▪ Rectangular Design Type VK



Order Codes

One clamp body is consisting of two clamp halves.

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

Clamp Body **540-36 PP-VK**
Rectangular design with a rectangular 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 when loosening the bolts

Clamp Body ▪ Oval Design

Order Codes

One clamp body is consisting of two clamp halves.

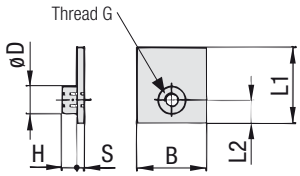
Clamp Body **620-50 PP**
Oval design with a diameter between 20 mm / .79 in and 50 mm / 1.97 in

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

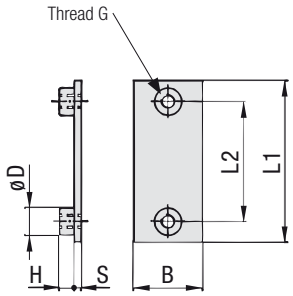
Product Features

- Outer dimensions of clamp body according to Standard Series, STAUFF Group 6
- For electric cables with diameters between 20 mm / .79 in and 50 mm / 1.97 in
- For electric cables with diameters between 40 mm / 1.57 in and 72 mm / 2.83 in, please use Heavy Series clamp body, types 6040-72 PP and 6040-72 PA
- Recommended to use with Hexagon Head Bolts AS and Cover Plate DP, Socket Cap Screw IS (with washer) or Slotted Head Screw LI (with washer)
- For varying cable diameters, only the bolt lengths need to be varied

Single Weld Plate
Type SP



STAUFF Group 1



STAUFF Group 1A to 8

Order Codes

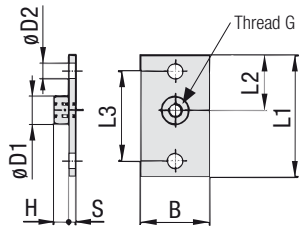
Weld Plate ***SP*1*M*W2**

* Single Weld Plate		**SP**
* STAUFF Group		**1**
* Thread code	Metric ISO thread	**M**
	Unified coarse (UNC) thread	**U**
* Material code	Carbon Steel, untreated	**W1**
	Carbon Steel, phosphated	**W2**
	Carbon Steel, zinc/nickel-plated	**W3**
	Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303)	**W4**
	Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)	**W5**

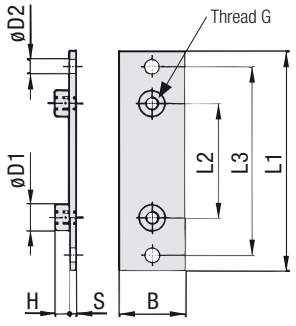
Group STAUFF	DIN	Dimensions (mm/in) Thread G	L1	L2	B	S	H	ØD	Order Codes (Standard Options)
1	0	M6	31,5	10	30	3	6,5	12	SP 1 M W2
		1/4–20 UNC	1.24	0.39	1.18	.12	.26	.47	SP 1 U W2
1A	1	M6	36	20	30	3	6,5	12	SP 1A M W2
		1/4–20 UNC	1.42	0.79	1.18	.12	.26	.47	SP 1A U W2
2	2	M6	42	26	30	3	6,5	12	SP 2 M W2
		1/4–20 UNC	1.65	1.02	1.18	.12	.26	.47	SP 2 U W2
3	3	M6	50	33	30	3	6,5	12	SP 3 M W2
		1/4–20 UNC	1.97	1.30	1.18	.12	.26	.47	SP 3 U W2
4	4	M6	60	40	30	3	6,5	12	SP 4 M W2
		1/4–20 UNC	2.36	1.57	1.18	.12	.26	.47	SP 4 U W2
5	5	M6	71	52	30	3	6,5	12	SP 5 M W2
		1/4–20 UNC	2.80	2.05	1.18	.12	.26	.47	SP 5 U W2
6	6	M6	88	66	30	3	6,5	12	SP 6 M W2
		1/4–20 UNC	3.46	2.60	1.18	.12	.26	.47	SP 6 U W2
7	7	M6	122	94	30	5	6,5	12	SP 7 M W2
		1/4–20 UNC	4.80	3.70	1.18	.20	.26	.47	SP 7 U W2
8	8	M6	148	120	30	5	6,5	12	SP 8 M W2
		1/4–20 UNC	5.83	4.72	1.18	.20	.26	.47	SP 8 U W2

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

Elongated Weld Plate
Type SPV



STAUFF Group 1



STAUFF Group 1A to 8

Order Codes

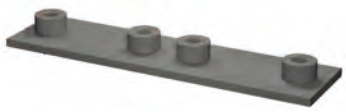
Weld Plate ***SPV*1*M*W2**

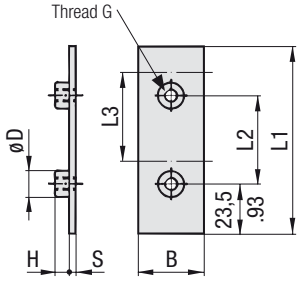
* Elongated Weld Plate		**SPV**
* STAUFF Group		**1**
* Thread code	Metric ISO thread	**M**
	Unified coarse (UNC) thread	**U**
* Material code	Carbon Steel, untreated	**W1**
	Carbon Steel, phosphated	**W2**
	Carbon Steel, zinc/nickel-plated	**W3**
	Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303)	**W4**
	Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)	**W5**

Group STAUFF	DIN	Dimensions (mm/in) Thread G	L1	L2	L3	B	S	H	ØD1	ØD2	Order Codes (Standard Options)
1	0	M6	58	24,5	44	30	3	6,5	12	6,5	SPV 1 M W2
		1/4–20 UNC	2.28	.96	1.73	1.18	.12	.26	.47	.26	SPV 1 U W2
1A	1	M6	64	20	50	30	3	6,5	12	6,5	SPV 1A M W2
		1/4–20 UNC	2.52	.79	1.97	1.18	.12	.26	.47	.26	SPV 1A U W2
2	2	M6	70	26	56	30	3	6,5	12	6,5	SPV 2 M W2
		1/4–20 UNC	2.76	1.02	2.20	1.18	.12	.26	.47	.26	SPV 2 U W2
3	3	M6	78	33	64	30	3	6,5	12	6,5	SPV 3 M W2
		1/4–20 UNC	3.07	1.30	2.52	1.18	.12	.26	.47	.26	SPV 3 U W2
4	4	M6	87	40	73	30	3	6,5	12	6,5	SPV 4 M W2
		1/4–20 UNC	3.43	1.57	2.87	1.18	.12	.26	.47	.26	SPV 4 U W2
5	5	M6	100	52	86	30	3	6,5	12	6,5	SPV 5 M W2
		1/4–20 UNC	3.94	2.05	3.39	1.18	.12	.26	.47	.26	SPV 5 U W2
6	6	M6	115	66	100	30	3	6,5	12	6,5	SPV 6 M W2
		1/4–20 UNC	4.53	2.60	3.94	1.18	.12	.26	.47	.26	SPV 6 U W2
7	7	M6	150	94	136	30	5	6,5	12	6,5	SPV 7 M W2
		1/4–20 UNC	5.91	3.70	5.35	1.18	.20	.26	.47	.26	SPV 7 U W2
8	8	M6	178	120	162	30	5	6,5	12	6,5	SPV 8 M W2
		1/4–20 UNC	7.01	4.72	6.38	1.18	.20	.26	.47	.26	SPV 8 U W2

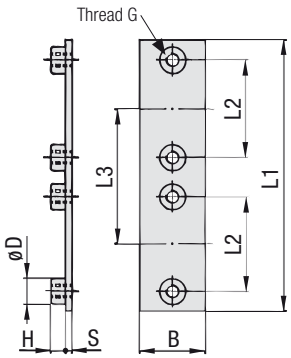
All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.
Alternative materials and surface finishings are available upon request. Consult STAUFF for further information.

Twin Weld Plate Type DSP





STAUFF Group 1



STAUFF Group 1A to 8

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

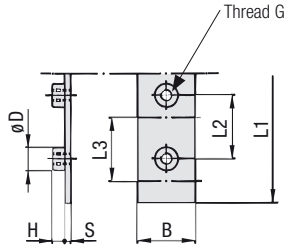
All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.
Alternative materials and surface finishings are available upon request. Consult STAUFF for further information.

Order Codes

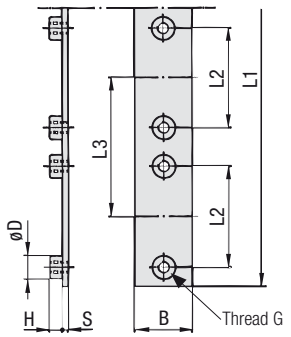
Weld Plate ***DSP*1/40*M*W2**

* Twin Weld Plate		DSP
* STAUFF Group		1
* Pipe center spacing L3 (mm)		40
* Thread code	Metric ISO thread	M
	Unified coarse (UNC) thread	U
* Material code	Carbon Steel, untreated	W1
	Carbon Steel, phosphated	W2
	Carbon Steel, zinc/nickel-plated	W3
	Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303)	W4
	Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)	W5

Group Weld Plate Type RAP



STAUFF Group 1



STAUFF Group 1A to 8

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

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

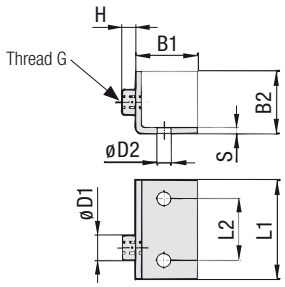
Order Codes

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

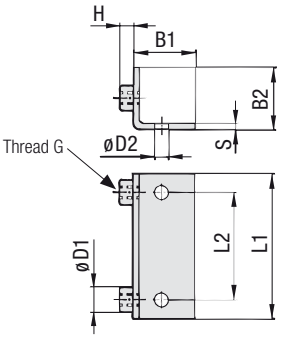
* Group Weld Plate		RAP
* STAUFF Group		1
* Pipe center spacing L3 (mm)		31
* Number of clamps		10
* Thread code	Metric ISO thread	M
	Unified coarse (UNC) thread	U
* Material code	Carbon Steel, untreated	W1
	Carbon Steel, phosphated	W2
	Carbon Steel, zinc/nickel-plated	W3
	Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303)	W4
	Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)	W5

Dimensional drawings: All dimensions in mm (in).

Angled Weld Plate
Type WSP



STAUFF Group 1



STAUFF Group 1A to 6

Order Codes

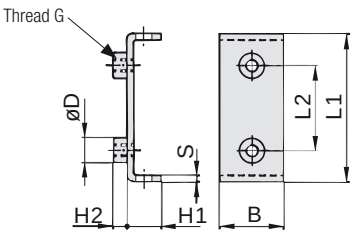
Weld Plate ***WSP*1*M*W1**

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

Group STAUFF	DIN	Dimensions (mm/in) Thread G	L1	L2	B1	B2	S	H	ØD1	ØD2	Order Codes (Standard Options)
1	0	M6	30	14	30	30	3	6,5	12	6,5	WSP 1 M W1
		1/4–20 UNC	1.18	.55	1.18	1.18	.12	.26	.47	.26	WSP 1 U W1
1A	1	M6	32	20	30	30	3	6,5	12	6,5	WSP 1A M W1
		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
		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
		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
		1/4–20 UNC	2.36	1.57	1.18	1.18	.12	.26	.47	.26	WSP 4 U W1
5	5	M6	70	52	30	30	3	6,5	12	6,5	WSP 5 M W1
		1/4–20 UNC	2.76	2.05	1.18	1.18	.12	.26	.47	.26	WSP 5 U W1
6	6	M6	88	66	30	30	3	6,5	12	6,5	WSP 6 M W1
		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. Consult STAUFF for further information.

Bridge Weld Plate
Type BSP



Order Codes

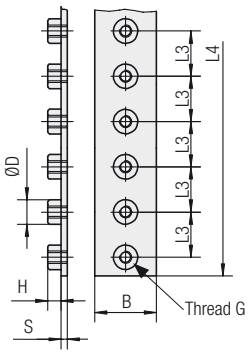
Weld Plate ***BSP*1A*M*W1**

* Bridge Weld Plate		**BSP**
* STAUFF Group		**1A**
* Thread code	Metric ISO thread	**M**
	Unified coarse (UNC) thread	**U**
* Material code	Carbon Steel, untreated	**W1**
	Carbon Steel, phosphated	**W2**
	Carbon Steel, zinc/nickel-plated	**W3**
	Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303)	**W4**
	Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)	**W5**

Group STAUFF	DIN	Dimensions (mm/in) Thread G	L1	L2	B	S	H1	H2	ØD	Order Codes (Standard Options)
1A	1	M6	48	20	30	3	13	6,5	12	BSP 1A M W1
		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
		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
		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
		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
		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
		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. Consult STAUFF for further information.

Multi-Group Weld Plate Type RAP-MGR



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

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

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 A6 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 below) covering a diamater range from 20 mm / .79 in to 42 mm / 1.65 in. Thus, all Standard Series metal parts of these groups can be used.

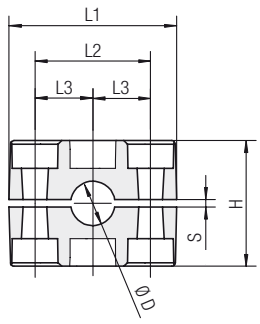
All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Consult STAUFF for further information.

Order Codes

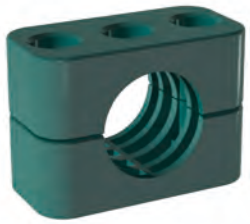
Weld Plate ***RAP-MGR*25/156*M*W1**

* Multi Group Weld Plate		**RAP-MGR**
* Suitable for STAUFF Group 2 and 5		**25**
* Length L4 (mm)	156 (with 6 weld nuts)	**156**
	234 (with 9 weld nuts)	**234**
	312 (with 12 weld nuts)	**312**
	390 (with 15 weld nuts)	**390**
	520 (with 20 weld nuts)	**520**
	700 (with 27 weld nuts)	**700**
* Thread code	Metric ISO thread	**M**
	Unified coarse (UNC) thread	**U**
* Material code	Carbon Steel, untreated	**W1**
	Carbon Steel, phosphated	**W2**
	Carbon Steel, zinc/nickel-plated	**W3**
	Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303)	**W4**
	Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)	**W5**

Clamp Body for Multi-Group Weld Plate Type MGR



STAUFF Group 5



Group STAUFF	Group DIN	Outside Diameter Pipe / Tube Ø D (mm)	(in)	Nominal Bore Pipe (in)	Copper Tube ASTM B88 (in)	Order Codes (2 Clamp Halves) (** = Material)	Dimensions (mm/in) L1	L2	L3	H	S min.	Width
5	5	20				520 **-MGR	71	52	26	58	0,8	30
		21,3		1/2		521,3 **-MGR	2.80	2.05	1.02	2.28	.03	1.18
		22			3/4	522 **-MGR						
		23				523 **-MGR						
		25				525 **-MGR						
		26,9		3/4		526,9 **-MGR						
		28				528 **-MGR						
		30				530 **-MGR						
		32	1-1/4			532 **-MGR						
		33,7		1		533,7 **-MGR						
		35			1-1/4	535 **-MGR						
		38	1-1/2			538 **-MGR						
		40				540 **-MGR						
		42		1-1/4		542 **-MGR						

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

Order Codes

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

One clamp body is consisting of two clamp halves.

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

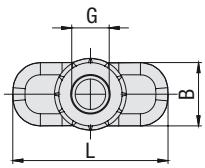
Standard Materials

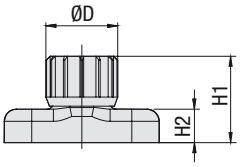
Polypropylene
Colour: Green
Material code: **PP-MGR**

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

See pages A88 / A89 for properties and technical information.

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





Order Codes

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

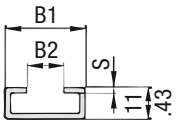
* Hexagon Rail Nut		
	Carbon Steel	**SM**
	Stainless Steel	**SMG**
* STAUFF Group	1 to 8 (DIN Group 0 to 8)	**1-8/1D**
* Thread code	Metric ISO thread	**M**
	Unified coarse (UNC) thread	**U**
* Material code	Carbon Steel, zinc/nickel-plated	**W3**
	Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303)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

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

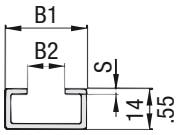
Hexagon Rail Nuts, type SM 1-8/1D are also suitable for Twin Series, STAUFF Group 1D.

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

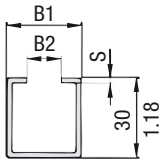
Mounting Rail
Type TS (for Use with Hexagon Rail Nut SM / SMG)



Mounting Rail TS 11



Mounting Rail TS 14



Mounting Rail TS 30

Order Codes

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

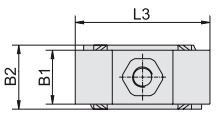
* Mounting Rail		**TS**
* Height of rail	11 mm / .43 in	**11**
	14 mm / .55 in	**14**
	30 mm / 1.18 in	**30**
* Length of rail	1 m / 3.28 ft	**-1M**
	2 m / 6.56 ft	**-2M**
	Alternative lengths available upon request. Consult STAUFF for further information.	
* Material code	Carbon Steel, untreated	**W1**
	Carbon Steel, zinc/nickel-plated	**W3**
	Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303)	**W4**
	Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)	**W5**

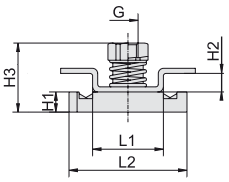
Group STAUFF	DIN	Dimensions (mm/in) B1	B2	S	Order Codes (Standard Options) Length of Rail: 1 m / 3.28 ft	Length of Rail: 2 m / 6.56 ft
1	0					
1A	1				Height 11 mm / .43 in **TS 11-1M W1**	Height 11 mm / .43 in **TS 11-2M W1**
2	2					
3	3					
4	4	28	11	2	Height 14 mm / .55 in **TS 14-1M W1**	Height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

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

Dimensional drawings: All dimensions in mm (in).

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





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

Order Codes

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

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

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

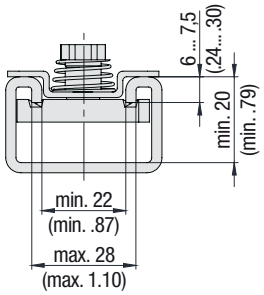
All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.
Alternative materials and surface finishings are available upon request. Consult STAUFF for further information.

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 A83 for technical information.
HZM 41/22		P4000, P4000T	
HL 41/41, HL 41/B2		P5000, P5000T, P5001, P5500, P5500T, P5501	

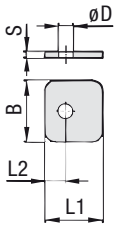
Consult STAUFF to check compatibility with additional types of channel rails.



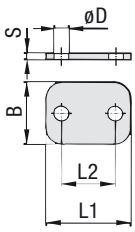
Basic dimensional requirements for channel rails to be used with STAUFF Channel Rail Adaptors, type CRA

Dimensional drawings: All dimensions in mm (in).

Cover Plate
Type DP



STAUFF Group 1



STAUFF Group 1A to 8

Order Codes

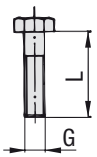
Cover Plate ***DP*1*W3**

* 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**

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

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

Hexagon Head Bolt
Type AS (for Use with Cover Plate DP)



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

Order Codes

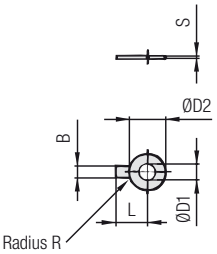
Hexagon Head Bolt ***AS*1*M*W3**

* Type of bolt	Hexagon Head Bolt (according to DIN 931 / 933 or ANSI / ASME B18.2.1.)	**AS**
* STAUFF Group		**1**
* Thread code	Metric ISO thread	**M**
	Unified coarse (UNC) thread	**U**
* Material code	Carbon Steel, zinc/nickel-plated	**W3**
	Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303)	**W4**
	Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)	**W5**

Group STAUFF	DIN	Dimensions (mm/in) Thread G x L	Order Codes (Standard Options)
1	0	M6 x 30	AS 1 M W3
		1/4–20 UNC x 1-1/4	AS 1 U W3
1A	1	M6 x 30	AS 1A M W3
		1/4–20 UNC x 1-1/4	AS 1A U W3
2	2	M6 x 35	AS 2 M W3
		1/4–20 UNC x 1-3/8	AS 2 U W3
3	3	M6 x 40	AS 3 M W3
		1/4–20 UNC x 1-1/2	AS 3 U W3
4	4	M6 x 45	AS 4 M W3
		1/4–20 UNC x 1-7/8	AS 4 U W3
5	5	M6 x 60	AS 5 M W3
		1/4–20 UNC x 2-3/8	AS 5 U W3
6	6	M6 x 70	AS 6 M W3
		1/4–20 UNC x 2-3/4	AS 6 U W3
7	7	M6 x 100	AS 7 M W3
		1/4–20 UNC x 4	AS 7 U W3
8	8	M6 x 125	AS 8 M W3
		1/4–20 UNC x 4-7/8	AS 8 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. Consult STAUFF for further information.

Safety Washer Type SI (DIN 93)



Safety Washer SI (according to DIN 93)

Group STAUFF	DIN	Dimensions (mm/in) ØD1	B	ØD2	L	R	S	Order Codes (Standard Options)
1 to 8	0 to 8	6,4	7	19	18	4	0,5	SI 6,4 DIN 93 W3
		.25	.28	.75	.71	.16	.02	

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

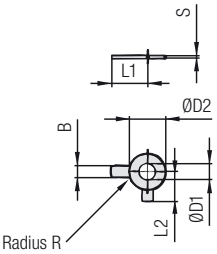
Alternative materials and surface finishings are available upon request. Consult STAUFF for further information.

Order Codes

Safety Washer ***SI*6,4*DIN 93*W3**

* Type of washer	Safety washer with 1 tab (according to DIN 93)	**SI 6,4 DIN 93**
* Material code	Carbon Steel, zinc/nickel-plated	**W3**

Safety Washer Type SI (DIN 463)



Safety Washer SI (according to DIN 463)

Group STAUFF	DIN	Dimensions (mm/in) ØD1	B	ØD2	L1	L2	R	S	Order Codes (Standard Options)
1 to 8	0 to 8	6,4	7	12	18	9	4	0,5	SI 6,4 DIN 463 W3
		.25	.28	.47	.71	.35	.16	.02	

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

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

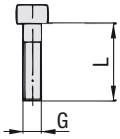
Order Codes

Safety Washer ***SI*6,4*DIN 463*W3**

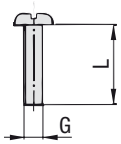
* Type of washer	Safety washer with 2 tabs (according to DIN 463)	**SI 6,4 DIN 463**
* Material code	Carbon Steel, zinc/nickel-plated	**W3**

Socket Cap Screw Type IS

Slotted Head Screw Type LI



Socket Cap Screw IS
(according to ISO 4762 or ANSI / ASME B18.3)
Dimensions applicable only when used without Cover Plate DP



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

Order Codes

Socket Cap Screw ***IS*1*M*W3**
Slotted Head Screw ***LI*1*M*W3**

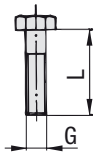
* Type of bolt	Socket Cap Screw (according to ISO 4762 or ANSI / ASME B18.3)	**IS**
	Slotted Head Screw (according to ISO 1207 or ANSI / ASME B18.6.3)	**LI**
Please note:	Socket cap screws IS and slotted head screws LI have to be used in conjunction with washers US, which are available separately.	
* STAUFF Group		**1**
* Thread code	Metric ISO thread	**M**
	Unified coarse (UNC) thread	**U**
* Material code	Carbon Steel, zinc/nickel-plated	**W3**
	Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303)	**W4**
	Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)	**W5**

Group STAUFF	Group DIN	Dimensions (mm/in) Thread G x L	Order Codes (Standard Options) Socket Cap Screws	Order Codes (Standard Options) Slotted Head Screws
1	0	M6 x 20	IS 1 M W3	LI 1 M W3
		1/4–20 UNC x 3/4	IS 1 U W3	LI 1 U W3
1A	1	M6 x 20	IS 1A M W3	LI 1A M W3
		1/4–20 UNC x 3/4	IS 1A U W3	LI 1A U W3
2	2	M6 x 25	IS 2 M W3	LI 2 M W3
		1/4–20 UNC x 1	IS 2 U W3	LI 2 U W3
3	3	M6 x 30	IS 3 M W3	LI 3 M W3
		1/4–20 UNC x 1-1/8	IS 3 U W3	LI 3 U W3
4	4	M6 x 35	IS 4 M W3	LI 4 M W3
		1/4–20 UNC x 1-3/8	IS 4 U W3	LI 4 U W3
5	5	M6 x 50	IS 5 M W3	LI 5 M W3
		1/4–20 UNC x 2	IS 5 U W3	LI 5 U W3
6	6	M6 x 60	IS 6 M W3	LI 6 M W3
		1/4–20 UNC x 2-1/2	IS 6 U W3	LI 6 U W3
7	7	M6 x 90	IS 7 M W3	ON REQUEST ONLY
		1/4–20 UNC x 3-3/8	IS 7 U W3	
8	8	M6 x 110	IS 8 M W3	ON REQUEST ONLY
		1/4–20 UNC x 4-3/8	IS 8 U W3	

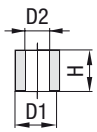
All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.
Alternative materials and surface finishings are available upon request. Consult STAUFF for further information.

Hexagon Head Bolt Type ASE

Insert Type ES / EP



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



Inserts ES (Steel) / **EP** (Plastic)

Order Codes

Hexagon Head Bolt ***ASE*1*M*W3**

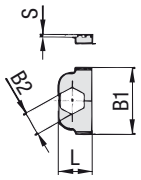
* Type of bolt	Hexagon Head Bolt (according to DIN 931 / 933 or ANSI / ASME B18.2.1.)	**AS**
	for use with Insert ES / EP	**E**
* STAUFF Group		**1**
* Thread code	Metric ISO thread	**M**
	Unified coarse (UNC) thread	**U**
* Material code	Carbon Steel, zinc/nickel-plated	**W3**
	Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303)	**W4**
	Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)	**W5**

Group STAUFF	Group DIN	Dimensions (mm/in) Thread G x L	Order Codes (Standard Options)
1	0	M6 x 27	ASE 1 M W3
		1/4–20 UNC x 1-1/8	ASE 1 U W3
1A	1	M6 x 27	ASE 1A M W3
		1/4–20 UNC x 1-1/8	ASE 1A U W3
2	2	M6 x 32	ASE 2 M W3
		1/4–20 UNC x 1-3/8	ASE 2 U W3
3	3	M6 x 35	ASE 3 M W3
		1/4–20 UNC x 1-3/8	ASE 3 U W3
4	4	M6 x 42	ASE 4 M W3
		1/4–20 UNC x 1-5/8	ASE 4 U W3
5	5	M6 x 57	ASE 5 M W3
		1/4–20 UNC x 2-3/8	ASE 5 U W3
6	6	M6 x 65	ASE 6 M W3
		1/4–20 UNC x 2-3/4	ASE 6 U W3
7	7	M6 x 95	ASE 7 M W3
		1/4–20 UNC x 4	ASE 7 U W3
8	8	M6 x 118	ASE 8 M W3
		1/4–20 UNC x 4-3/4	ASE 8 U W3

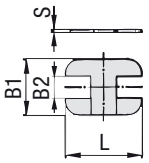
Group STAUFF	Group DIN	Dimensions (mm/in) D1	D2	H ES	H EP	Order Codes (Standard Options)	
1 to 8	0 to 8	11,8	6,5	7,8	8,6	ES (Steel)	EP (Plastic)
		.46	.26	.31	.34		

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. Consult STAUFF for further information.

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



STAUFF Group 1



STAUFF Group 1A to 8

Group STAUFF	DIN	Dimensions (mm/in) L	B1	B2	S	Order Codes (Standard Options)
1	0	16	32	11,2	1	SIG 1 W3
		.63	1.26	.44	.04	
1A	1	33	28	11,2	1	SIG 1A W3
		1.30	1.10	.44	.04	
2	2	39	28	11,2	1	SIG 2 W3
		1.54	1.10	.44	.04	
3	3	47	28	11,2	1	SIG 3 W3
		1.85	1.10	.44	.04	
4	4	56	28	11,2	1	SIG 4 W3
		2.20	1.10	.44	.04	
5	5	69	28	11,2	1	SIG 5 W3
		2.72	1.10	.44	.04	
6	6	85	28	11,2	1	SIG 6 W3
		3.35	1.10	.44	.04	
7	7	117	28	11,2	1	SIG 7 W3
		4.61	1.10	.44	.04	
8	8	143	28	11,2	1	SIG 8 W3
		5.63	1.10	.44	.04	

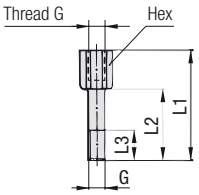
Order Codes

Safety Locking Plate ***SIG*1*W3**

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

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

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



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

Order Codes

Stacking Bolt ***AF*1*M*W3**

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

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. Consult STAUFF for further information.

SP	106A	PP	DP-AS	M	W10	#K
①	②	③	④	⑤	⑥	⑦

① Type of Installation

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

Without Installation Equipment
Code: **none**

Installation on Weld Plate


Single Weld Plate
Code: **SP**


Elongated Weld Plate
Code: **SPV**


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


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


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


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

Installation on Mounting / Channel Rail


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


Channel Rail Adaptor
Code: **CRA**

② Group Size & Diameter

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

Group STAUFF (DIN)	Outside Diameter P / T / H (mm)	Availability of Clamp Body Materials & Designs: Profiled Design	Type H	Type RI	Code
1 (0)	6	●	●	○	106
	6,4	●	●	○	106,4
	8	●	●	○	108
	9,5	●	●	○	109,5
	10	●	●	○	110
	12	●	●	○	112
1A (1)	6	●	●	○	106A
	6,4	●	●	○	106,4A
	8	●	●	○	108A
	9,5	●	●	○	109,5A
	10	●	●	○	110A
	12	●	●	○	112A
2 (2)	12,7	●	●	○	212,7
	13,5	●	●	○	213,5
	14	●	●	○	214
	15	●	●	○	215
	16	●	●	○	216
	17,2	●	●	○	217,2
	18	●	●	○	218
3 (3)	19	●	●	○	319
	20	●	●	○	320
	21,3	●	●	○	321,3
	22	●	●	○	322
	25	●	●	○	325
	25,4	●	●	○	325,4
4 (4)	6	○	○	●	406
	8	○	○	●	408
	10	○	○	●	410
	12	○	○	●	412
	12,7	○	○	●	412,7
	14	○	○	●	414
	15	○	○	●	415
	16	○	○	●	416
	17,2	○	○	●	417,2
	18	○	○	●	418
	19	○	○	●	419
	26,9	●	●	○	426,9
	28	●	●	○	428
	28,6	●	○	○	428,6
	30	●	●	○	430
	32	●	●	○	432

Group STAUFF (DIN)	Outside Diameter P / T / H (mm)	Availability of Clamp Body Materials & Designs: Profiled Design	Type H	Type RI	Code
5 (5)	32	●	●	○	532
	33,7	●	●	○	533,7
	35	●	●	○	535
	38	●	●	○	538
	40	●	●	○	540
	41,3	●	○	○	541,3
	42	●	●	○	542
6 (6)	20	○	○	●	620
	21,3	○	○	●	621,3
	22	○	○	●	622
	25	○	○	●	625
	26,9	○	○	●	626,9
	28	○	○	●	628
	30	○	○	●	630
	32	○	○	●	632
	44,5	●	●	○	644,5
	48,3	●	●	○	648,3
	50,8	●	●	○	650,8
	54	●	●	○	654
7 (7)	57,2	●	●	○	757,2
	60,3	●	●	○	760,3
	63,5	●	●	○	763,5
	70	●	●	○	770
	73	●	●	○	773
	76,1	●	●	○	776,1
8 (8)	88,9	●	●	○	888,9
	102	●	●	○	8102L

● Standard Option

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

Please see pages A22 and A23 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**


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: **PPH**


Polyamide
Code: **PAH**


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

Type RI (with Rubber Insert)


Polypropylene
Code: **PPR** (for STAUFF Group 4 and 6 only)


Polyamide
Code: **PAR** (for STAUFF Group 4 and 6 only)

See pages A88 / A89 for material properties and technical information.

Please consult 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 ASE
Code: **EP-AS**

Inserts ES (Steel) with
Hexagon Head Bolts ASE
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 page A16.

⑤ Thread Type

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

Metric ISO thread
Code: **M**

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

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

⑥ Material & Surface Finishing

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

Metal parts made of Carbon Steel, untreated	**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**

Individual combinations of alternative materials and surface finishings are available upon request. Consult 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)
O.D. 12,7 mm / .50 in
Material: Polypropylene
Profiled inside surface
with tension clearance

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

Order Code

SP 212,7 PP DP-AS M W10

W10 is the standard option for this type of installation.

2x **Socket Cap Screw**
with Washer
Surface: W3
Thread: Metric

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

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

Order Code

SP 212,7 PP IS M W10

W10 is the standard option for this type of installation.

2x **Slotted Head Screw**
with Washer
Surface: W3
Thread: Metric

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

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

Order Code

SP 212,7 PP LI M W10

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

2x **Hexagon Head Bolt**
Surface: W3
Thread: Metric

1x **Cover Plate**
Surface: W3

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

1x **Elongated Weld Plate**
Surface: W2
Thread: Metric

Order Code

SPV 212,7 PP DP-AS M W10

W10 is the standard option for this type of installation.

2x **Socket Cap Screw**
with Washer
Surface: W3
Thread: Metric

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

1x **Elongated Weld Plate**
Surface: W2
Thread: Metric

Order Code

SPV 212,7 PP IS M W10

W10 is the standard option for this type of installation.

2x **Slotted Head Screw**
with Washer
Surface: W3
Thread: Metric

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

1x **Elongated Weld Plate**
Surface: W2
Thread: Metric

Order Code

SPV 212,7 PP LI M W10

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

2x **Hexagon Head Bolt**
Surface: W3
Thread: Metric

1x **Cover Plate**
Surface: W3

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

2x **Hexagon Rail Nut**
Surface: W3
Thread: Metric

Order Code (Mounting Rail TS not included.)

SM 212,7 PP DP-AS M W3

W3 is the standard option for this type of installation.

2x **Socket Cap Screw**
with Washer
Surface: W3
Thread: Metric

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

2x **Hexagon Rail Nut**
Surface: W3
Thread: Metric

Order Code (Mounting Rail TS not included.)

SM 212,7 PP IS M W3

W3 is the standard option for this type of installation.

2x **Slotted Head Screw**
with Washer
Surface: W3
Thread: Metric

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

2x **Hexagon Rail Nut**
Surface: W3
Thread: Metric

Order Code (Mounting Rail TS not included.)

SM 212,7 PP LI M W3

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

2x **Hexagon Head Bolt**
Surface: W3
Thread: Metric

1x **Cover Plate**
Surface: W3

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

Order Code

212,7 PP DP-AS M W3

W3 is the standard option for this type of installation.

2x **Socket Cap Screw**
with Washer
Surface: W3
Thread: Metric

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

Order Code

212,7 PP IS M W3

W3 is the standard option for this type of installation.

2x **Slotted Head Screw**
with Washer
Surface: W3
Thread: Metric

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

Order Code

212,7 PP LI M W3

W3 is the standard option for this type of installation.

2x **Stacking Bolt**
Surface: W3
Thread: Metric

1x **Safety Locking Plate**
Surface: W3

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

Order Code

212,7 PP SIG-AF M W3

W3 is the standard option for this type of installation.

1x **Socket Cap Screw**
with Washer
Surface: W3
Thread: Metric

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

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

Order Code*

SP 106 PP IS M W10

W10 is the standard option for this type of installation.

2x **Hexagon Head Bolt**
Surface: W3
Thread: Metric

2x **Insert**
Material: Plastic

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

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

Order Code

SP 212,7 PP EP-AS M W10

W10 is the standard option for this type of installation.

2x **Hexagon Head Bolt**
Surface: W3
Thread: Metric

2x **Insert**
Material: Plastic

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

1x **Elongated Weld Plate**
Surface: W2
Thread: Metric

Order Code

SPV 212,7 PP EP-AS M W10

W10 is the standard option for this type of installation.

Thread codes

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

Metric ISO thread	**M**
Unified coarse (UNC) thread	**U**

Material codes

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

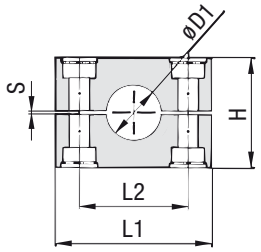
Metal parts made of Carbon Steel, untreated	**W1**
Metal parts made of Carbon Steel, phosphated	**W2**
Metal parts made of Carbon Steel, zinc/nickel-plated	**W3**
Metal parts made of Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303)	**W4**
Metal parts made of Stainless Steel V4A 1.4401 / 1.4571 (AISI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

Technical Notes

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

Clamp Body ▪ Profiled Design

Profiled Inside Surface with Tension Clearance



Order Codes

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

One clamp body is consisting of two clamp halves.

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

Standard Materials

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

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

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

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

See pages A88 / A89 for material properties and technical information.

Special Materials

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

See pages A90 / A91 for material properties and technical information.

Product Features

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

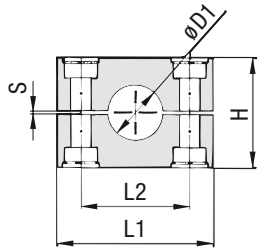
Group STAUFF	Group DIN	Outside Diameter Pipe / Tube Ø D1 (mm)	Outside Diameter Pipe / Tube Ø D1 (in)	Nominal Bore Pipe (in)	Nominal Bore Copper Tube ASTM B88 (in)	Order Codes (2 Clamp Halves) (** = Material)	Dimensions (mm/in) L1 PP/PA/SA	L1 AL	L2	H	S min.	Width
3S	1	6				3006 **						
		6,4	1/4			3006,4 **						
		8	5/16			3008 **						
		9,5	3/8		1/4	3009,5 **						
		10		1/8		3010 **						
		12				3012 **						
		12,7	1/2		3/8	3012,7 **	55	56	33	32	0,6	30,5
		13,5		1/4		3013,5 **	2.16	2.20	1.30	1.26	.02	1.20
		14				3014 **						
		15				3015 **						
		16	5/8		1/2	3016 **						
		17,2		3/8		3017,2 **						
		18				3018 **						
		20				3020 **						
4S	2	19	3/4			4019 **						
		20				4020 **						
		21,3		1/2		4021,3 **						
		22			3/4	4022 **						
		25				4025 **	70	70	45	48	0,6	30,5
		25,4	1			4025,4 **	2.76	2.76	1.77	1.89	.02	1.20
		26,9		3/4		4026,9 **						
		28				4028 **						
		30				4030 **						
5S	3	30				5030 **						
		32	1-1/4			5032 **						
		33,7		1		5033,7 **						
		35			1-1/4	5035 **	85	85	60	60	0,6	30.5
		38	1-1/2			5038 **	3.35	3.35	2.36	2.36	.02	1.20
		40				5040 **						
		41,3			1-1/2	5041,3 **						
		42		1-1/4		5042 **						
6S	4	38	1-1/2			6038 **						
		42		0		6042 **						
		44,5	1-3/4			6044,5 **						
		48,3		1-1/2		6048,3 **						
		50,8	2			6050,8 **						
		54			2	6054 **						
		55				6055 **	115	120	90	89	2	45
		57				6057 **	4.53	4.72	3.54	3.50	.08	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 A25 for STAUFF Group 7S to 12S (DIN Group 5 to 10).

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

Clamp Body ▪ Profiled Design

Profiled Inside Surface with Tension Clearance



Group STAUFF	Group DIN	Outside Diameter Pipe / Tube Ø D1 (mm)	Outside Diameter Pipe / Tube Ø D1 (in)	Nominal Bore Pipe (in)	Order Codes (2 Clamp Halves) (** = Material)	Dimensions (mm/in) L1 PP/PA	L1 AL	L2	H	S min.	Width
7S	5	60,3			7060,3 **	154 6.06	152 5.98	122 4.80	120 4.72	2 .08	60 2.36
		65			7065 **						
		70	2-3/4		7070 **						
		73		2-1/2 (ANSI B 36-10)	7073 **						
		75			7075 **						
		76,1	3	2-1/2 (DIN EN 10220)	7076,1 **						
		80			7080 **						
		82,5			7082,5 **						
		88,9	3-1/2	3	7088,9 **						
8S	6	88,9	3-1/2	3	8088,9 **	206 8.11	208 8.19	168 6.61	168 6.61	2 .08	80 3.15
		100			8100 **						
		102	4	3-1/2	8102 **						
		108			8108 **						
		114	4-1/2	4	8114 **						
		127	5		8127 **						
		133			8133 **						
9S	7	127	5		9127 **	251 9.88	255 10.04	205 8.07	200 7.87	3 .12	91 3.58
		133			9133 **						
		140		5	9140 **						
		152	6		9152 **						
		159			9159 **						
		165			9165 **						
		168		6	9168 **						
10S	8	168		6	10168 **	336 13.22	326 12.83	265 10.43	270 10.63	3 .12	120 4.72
		177,8			10177,8 **						
		193,7			10193,7 **						
		203	8		10203 **						
		216			10216 **						
		219		8	10219 **						
11S	9	219		8	11219 **	470 18.50	470 18.50	395 15.55	410 16.14	8 .31	162 6.38
		273		10	11273 **						
		324		12	11324 **						
12S	10	356		14	12356 **	630 4.80	630 4.80	534 21.02	530 20.87	20 .79	182 7.16
		406		16	12406 **						

See page A24 for STAUFF Group 3S to 6S (DIN Group 1 to 4).

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

Order Codes

Clamp Body *7*060,3*PP

One clamp body is consisting of two clamp halves.

* 1st part of STAUFF Group	**7**
* Exact outside diameter Ø D1 (mm)	**060,3**
* Material code (see below)	**PP**

Standard Materials

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

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

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

See pages A88 / A89 for material properties and technical information.

Special Materials

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

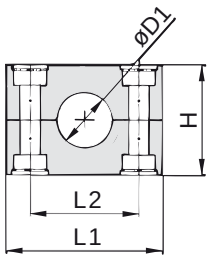
See pages A90 / A91 for material properties and technical information.

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



Order Codes

Clamp Body ***3*006*PPH**

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)	**PPH**

Standard Materials

Polypropylene
Colour: Green
Material code: **PPH**

Polyamide
Colour: Black
Material code: **PAH**

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

See pages A88 / A89 for material properties and technical information.

Special Materials

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

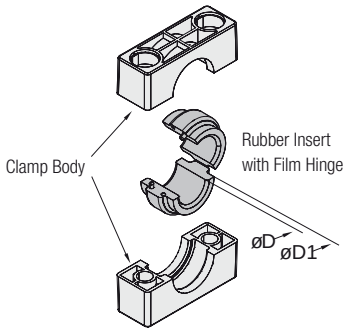
See pages A90 / A91 for material properties and technical information.

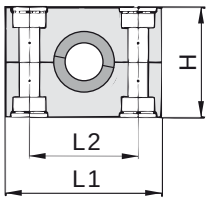
Product Features

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

Group STAUFF	Group DIN	Outside Diameter Hose Ø D1 (mm)	Outside Diameter Hose Ø D1 (in)	Order Codes (2 Clamp Halves) (*** = Material)	Dimensions (mm/in) L1	L2	H	Width
3S	1	6		3006 ***	55 2.16	33 1.30	30,5 1.20	30,5 1.20
		6,4	1/4	3006,4 ***				
		8	5/16	3008 ***				
		9,5	3/8	3009,5 ***				
		10		3010 ***				
		12		3012 ***				
		12,7	1/2	3012,7 ***				
		13,5		3013,5 ***				
		14		3014 ***				
		15		3015 ***				
		16	5/8	3016 ***				
		17,2		3017,2 ***				
		18		3018 ***				
4S	2	19	3/4	4019 ***	70 2.76	45 1.77	46,5 1.83	30,5 1.20
		20		4020 ***				
		21,3		4021,3 ***				
		22		4022 ***				
		25		4025 ***				
		25,4	1	4025,4 ***				
		26,9		4026,9 ***				
		28		4028 ***				
		30		4030 ***				
5S	3	30		5030 ***	85 3.35	60 2.36	58 2.28	30,5 1.20
		32	1-1/4	5032 ***				
		33,7		5033,7 ***				
		35		5035 ***				
		38	1-1/2	5038 ***				
		40		5040 ***				
		41,3		5041,3 ***				
		42		5042 ***				
6S	4	38	1-1/2	6038 ***	115 4.53	90 3.54	87 3.43	45 1.77
		42		6042 ***				
		44,5	1-3/4	6044,5 ***				
		48,3		6048,3 ***				
		50,8	2	6050,8 ***				
		55		6055 ***				
		57		6057 ***				
		57,2	2-1/4	6057,2 ***				
		60,3		6060,3 ***				
		63,5	2-1/2	6063,5 ***				
		65		6065 ***				
		70	2-3/4	6070 ***				

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





Clamp Body with Rubber Insert Type RI

Group STAUFF	Group DIN	Outside Diameter Pipe / Tube / Hose Ø D (mm)	Ø D (in)	Order Codes (✱✱R = Clamp Body Material) Clamp Assembly (Clamp Body + Rubber Insert)	Clamp Body (2 Clamp Halves)	Rubber Insert *	Dimensions (mm/in) Ø D1	L1	L2	H	Width
4S	2	6		4006 ✱✱R	4S ✱✱R	RI 06 (4+4S)	25 .98	70 2.76	45 1.77	46,5 4.83	30,5 1.20
		8	5/16	4008 ✱✱R		RI 08 (4+4S)					
		10		4010 ✱✱R		RI 10 (4+4S)					
		12		4012 ✱✱R		RI 12 (4+4S)					
		12,7	1/2	4012,7 ✱✱R		RI 12,7 (4+4S)					
		14		4014 ✱✱R		RI 14 (4+4S)					
		15		4015 ✱✱R		RI 15 (4+4S)					
		16	5/8	4016 ✱✱R		RI 16 (4+4S)					
		17,2		4017,2 ✱✱R		RI 17,2 (4+4S)					
		18		4018 ✱✱R		RI 18 (4+4S)					
		19	3/4	4019 ✱✱R		RI 19 (4+4S)					
5S	3	20		5020 ✱✱R	5S ✱✱R	RI 20 (6+5S)	38 1.50	85 3.35	60 2.36	58 2.28	30,5 1.20
		21,3		5021,3 ✱✱R		RI 21,3 (6+5S)					
		22	7/8	5022 ✱✱R		RI 22 (6+5S)					
		25		5025 ✱✱R		RI 25 (6+5S)					
		26,9		5026,9 ✱✱R		RI 26,9 (6+5S)					
		28		5028 ✱✱R		RI 28 (6+5S)					
		30		5030 ✱✱R		RI 30 (6+5S)					
		32	1-1/4	5032 ✱✱R		RI 32 (6+5S)					
6S	4	32	1-1/4	6032 ✱✱R	6S ✱✱R	RI 32 (6S)	64 2.52	115 4.53	90 3.54	87 3.43	45 1.77
		33,7		6033,7 ✱✱R		RI 33,7 (6S)					
		35		6035 ✱✱R		RI 35 (6S)					
		38,7		6038,7 ✱✱R		RI 38,7 (6S)					
		40		6040 ✱✱R		RI 40 (6S)					
		42		6042 ✱✱R		RI 42 (6S)					
		45,5		6045,5 ✱✱R		RI 45,5 (6S)					
		48		6048 ✱✱R		RI 48 (6S)					
		51	2	6051 ✱✱R		RI 51 (6S)					
		53,4		6053,4 ✱✱R		RI 53,4 (6S)					
		56,4		6056,4 ✱✱R		RI 56,4 (6S)					
7S	5	55		7055 ✱✱R	7S ✱✱R	RI 55 (7S)	88 3.56	154 6.06	122 4.80	120 4.72	60 2.36
		57	2-1/4	7057 ✱✱R		RI 57 (7S)					
		60		7060 ✱✱R		RI 60 (7S)					
		63,5	2-1/2	7063,5 ✱✱R		RI 63,5 (7S)					
		65		7065 ✱✱R		RI 65 (7S)					
		70	2-3/4	7070 ✱✱R		RI 70 (7S)					
		72		7072 ✱✱R		RI 72 (7S)					
		76	3	7076 ✱✱R		RI 76 (7S)					
8S	6	80		8080 ✱✱R	8S ✱✱R	RI 80 (8S)	114 4.49	208 8.11	168 6.61	168 6.61	80 3.15
		88,9	3-1/2	8088,9 ✱✱R		RI 88,9 (8S)					
		102		8102 ✱✱R		RI 102 (8S)					
9S	7	114		9114 ✱✱R	9S ✱✱R	RI 114 (9S)	150 5.91	251 9.88	205 8.07	200 7.87	91 3.58
		133	5-1/4	9133 ✱✱R		RI 133 (9S)					
		140		9140 ✱✱R		RI 140 (9S)					
10S	8	150		10150 ✱✱R	10S ✱✱R	RI 150 (10S)	200 7.87	336 13.22	265 10.43	270 10.63	120 4.72
		165		10165 ✱✱R		RI 165 (10S)					
		168		10168 ✱✱R		RI 168 (10S)					
		172		10172 ✱✱R		RI 172 (10S)					

* Rubber Inserts for Heavy Series clamp bodies, STAUFF Group 4S also fit into Standard Series clamp bodies, STAUFF Group 4.
Rubber 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 consult STAUFF for further information.

Order Codes

Clamp Assembly *4*006*PPR

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

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

Clamp Body *4S*PPR

One clamp body is consisting of two clamp halves.

* STAUFF Group	4S
* Material code (see below)	PPR

Rubber Insert *RI*06*(4+4S)

* Rubber Insert		RI
* Exact outside diameter Ø D (mm)		06
* STAUFF Group	4S (Heavy) and 4 (Standard)	(4+4S)
	5S (Heavy) and 6 (Standard)	(6+5S)
	6S (Heavy)	(6S)
	7S (Heavy)	(7S)
	8S (Heavy)	(8S)
	9S (Heavy)	(9S)
	10S (Heavy)	(10S)

Standard Materials

Polypropylene
Colour: Black
Material code: **PPR**

Polyamide
Colour: Black
Material code: **PAR**

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

See pages A88 / A89 for material properties and technical information.

Special Materials

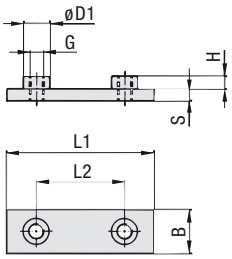
Please consult STAUFF for further details on fire-proof clamp body materials, tested and approved according to several international fire-protection standards.

See pages A90 / A91 for material properties and technical information.

Product Features

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

Weld Plate for Single Clamps Type SPAL



Order Codes

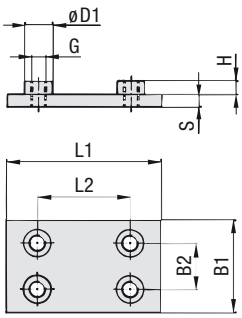
Weld Plate ***SPAL*3S*M*W2**

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

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

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

Weld Plate for Double Clamps Type SPAS



Order Codes

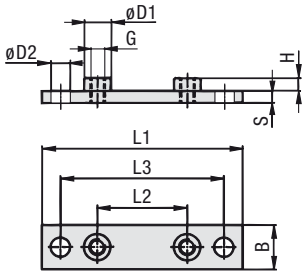
Weld Plate ***SPAS*3S*M*W2**

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

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

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

Elongated Weld Plate for Single Clamps Type SPAL/DUEB



Group STAUFF	DIN	Dimensions (mm/in) L1	L2	L3	B	S	H	Thread G	ØD1	ØD2	Order Codes (Standard Options)
3S	1	113	33	85	30	8	8	M10	18	13	SPAL/DUEB 3S M W2
		4.45	1.30	3.35	1.18	.31	.31	3/8–16 UNC	.71	.51	SPAL/DUEB 3S U W2
4S	2	125	45	97	30	8	8	M10	18	13	SPAL/DUEB 4S M W2
		4.92	1.77	3.82	1.18	.31	.31	3/8–16 UNC	.71	.51	SPAL/DUEB 4S U W2
5S	3	140	60	112	30	8	8	M10	18	13	SPAL/DUEB 5S M W2
		5.51	2.36	4.41	1.18	.31	.31	3/8–16 UNC	.71	.51	SPAL/DUEB 5S U W2
6S	4	187	90	155	45	10	8	M12	20	16	SPAL/DUEB 6S M W2
		7.36	3.54	6.10	1.77	.39	.31	7/16–14 UNC	.78	.62	SPAL/DUEB 6S U W2
7S	5	238	122	198	60	10	12	M16	24	21	SPAL/DUEB 7S M W2
		9.37	4.80	7.80	2.36	.39	.47	5/8–11 UNC	.94	.83	SPAL/DUEB 7S U W2
8S	6	309	168	259	80	15	18	M20	30	26	SPAL/DUEB 8S M W1
		12.17	6.61	10.20	3.15	.59	.71	3/4–10 UNC	1.18	1.02	SPAL/DUEB 8S U W1
9S	7	370	205	310	90	15	21	M24	35	31	SPAL/DUEB 9S M W1
		14.57	8.07	12.20	3.54	.59	.83	7/8–9 UNC	1.38	1.22	SPAL/DUEB 9S U W1
10S	8	440	265	380	120	25	21	M30	45	31	SPAL/DUEB 10S M W1
		17.32	10.43	14.96	4.72	.98	.83	1-1/8–7 UNC	1.77	1.22	SPAL/DUEB 10S U W1
11S	9	590	395	530	160	30	38	M30	50	31	SPAL/DUEB 11S M W1
		23.23	15.55	20.87	6.30	1.18	1.50	1-1/4–7 UNC	1.97	1.22	SPAL/DUEB 11S U W1
12S	10	750	534	690	180	30	38	M30	50	31	SPAL/DUEB 12S M W1
		29.53	21.02	27.17	7.09	1.18	1.50	1-1/4–7 UNC	1.97	1.22	SPAL/DUEB 12S U W1

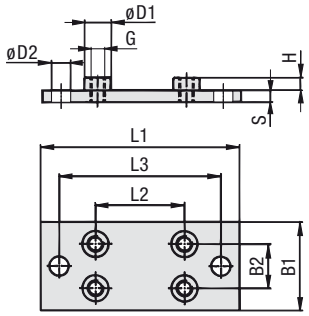
Order Codes

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

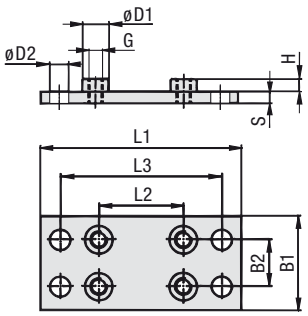
* Elongated Weld Plate for Single Clamps		**SPAL/DUEB**
* STAUFF Group		**3S**
* Thread code	Metric ISO thread	**M**
	Unified coarse (UNC) thread	**U**
* Material code	Carbon Steel, untreated	**W1**
	Carbon Steel, phosphated	**W2**
	Carbon Steel, zinc/nickel-plated	**W3**
	Stainless Steel V2A 1.4301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

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. Consult STAUFF for further information.

Elongated Weld Plate for Double Clamps Type SPAS/DUEB



STAUFF Group 3S to 9S



STAUFF Group 10S to 12S

Design for STAUFF Group 10S to 12S

Group STAUFF	DIN	Dimensions (mm/in) L1	L2	L3	B1	B2	S	H	Thread G	ØD1	ØD2	Order Codes (Standard Options)
3S	1	113	33	85	60	30,5	8	8	M10	18	13	SPAS/DUEB 3S M W2
		4.45	1.30	3.35	2.36	1.20	.31	.31	3/8–16 UNC	.71	.51	SPAS/DUEB 3S U W2
4S	2	125	45	97	60	30,5	8	8	M10	18	13	SPAS/DUEB 4S M W2
		4.92	1.77	3.82	2.36	1.20	.31	.31	3/8–16 UNC	.71	.51	SPAS/DUEB 4S U W2
5S	3	140	60	112	60	30,5	8	8	M10	18	13	SPAS/DUEB 5S M W2
		5.51	2.36	4.41	2.36	1.20	.31	.31	3/8–16 UNC	.71	.51	SPAS/DUEB 5S U W2
6S	4	187	90	155	90	46	10	8	M12	20	16	SPAS/DUEB 6S M W2
		7.36	3.54	6.10	3.54	1.81	.39	.31	7/16–14 UNC	.78	.62	SPAS/DUEB 6S U W2
7S	5	238	122	198	120	61	10	12	M16	24	21	SPAS/DUEB 7S M W2
		9.37	4.80	7.80	4.72	2.40	.39	.47	5/8–11 UNC	.94	.83	SPAS/DUEB 7S U W2
8S	6	309	168	259	160	81	15	18	M20	30	26	SPAS/DUEB 8S M W1
		12.17	6.61	10.20	6.61	3.19	.59	.71	3/4–10 UNC	1.18	1.02	SPAS/DUEB 8S U W1
9S	7	370	205	310	180	91	15	21	M24	35	31	SPAS/DUEB 9S M W1
		14.57	8.07	12.20	7.09	3.58	.59	.83	7/8–9 UNC	1.38	1.22	SPAS/DUEB 9S U W1
10S	8	440	265	380	240	121	25	21	M30	45	31	SPAS/DUEB 10S M W1
		17.32	10.43	14.96	9.45	4.78	.98	.83	1-1/8–7 UNC	1.77	1.22	SPAS/DUEB 10S U W1
11S	9	590	395	530	324	166	30	38	M30	50	31	SPAS/DUEB 11S M W1
		23.23	15.55	20.87	12.76	6.54	1.18	1.50	1-1/4–7 UNC	1.97	1.22	SPAS/DUEB 11S U W1
12S	10	750	534	690	364	186	30	38	M30	50	31	SPAS/DUEB 12S M W1
		29.53	21.02	27.17	14.33	7.32	1.18	1.50	1-1/4–7 UNC	1.97	1.22	SPAS/DUEB 12S U W1

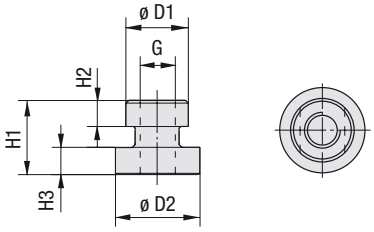
Order Codes

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

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

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. Consult STAUFF for further information.

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



Order Codes

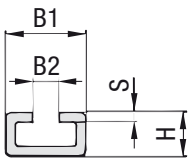
Mounting Rail Nut ***GMV*3-5S*M*W3**

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

Group STAUFF	DIN	Dimensions (mm/in) ØD1	ØD2	H1	H2	H3	Thread G	Order Codes (Standard Options)
3S	1							
4S	2	17,8	24	21	7,6	7,4	M10	**GMV 3-5S M W3**
		.70	.94	.83	.30	.29	3/8–16 UNC	**GMV 3-5S U W3**
5S	3							
6S	4	19,8	24	23	8,8	8,2	M12	**GMV 6S M W3**
		.78	.94	.91	.35	.32	7/16–14 UNC	**GMV 6S U W3**

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

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



Order Codes

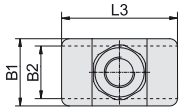
Mounting Rail ***STSV*1*W1**

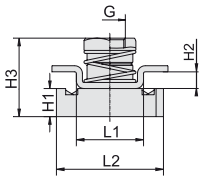
* Mounting Rail		**STSV**
* Length of rail	1 m / 3.28 ft	**-1M**
	2 m / 6.56 ft	**-2M**
	Alternative lengths available upon request. Consult STAUFF for further information.	
* Material code	Carbon Steel, untreated	**W1**
	Carbon Steel, zinc/nickel-plated	**W3**
	Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)	**W5**

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

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

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





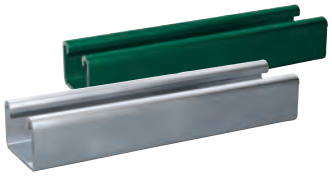
Group STAUFF	DIN	Dimensions (mm/in) Thread G	L1	L2	L3	B1	B2	H1	H2	H3	Order Codes (Standard Options)
3S	1										
4S	2	M10	22	35	38	22	20,5	9,2	5,5	27,5	**CRA 3-5S M W3**
		3/8–16 UNC	.87	1.38	1.50	.87	.81	.36	.22	1.08	**CRA 3-5S U W3**
5S	3										
6S	4	M12	21,5	35	45	25	19	9,2	5	27,5	**CRA 6S M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

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. Consult STAUFF for further information.

Order Codes

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

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

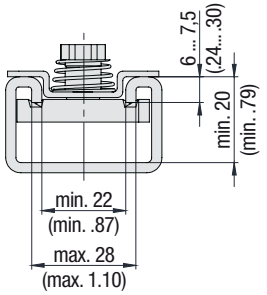


Compatibility with Channel Rails

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 A83 for technical information.
HZM 41/22		P4000, P4000T	
HL 41/41, HL 41/B2		P5000, P5000T, P5001, P5500, P5500T, P5501	

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



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

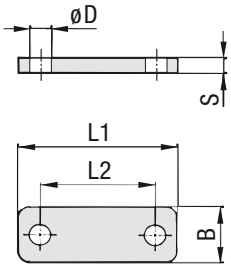
Recommended Bolt Lengths when using the Channel Rail Adaptor, Type CRA

Group STAUFF	DIN	Hexagon Head Bolts AS (used with Cover Plates DPAL or DPAS) Metric ISO thread	Unified coarse (UNC) thread	Socket Cap Screws IS (used without Cover Plates DPAL or DPAS) Metric ISO thread	Unified coarse (UNC) thread
3S	1	M10 x 40	3/8–16 UNC x 1-1/2	M10 x 25	3/8–16 UNC x 1
4S	2	M10 x 55	3/8–16 UNC x 2-1/4	M10 x 40	3/8–16 UNC x 1-1/2
5S	3	M10 x 65	3/8–16 UNC x 2-3/4	M10 x 50	3/8–16 UNC x 2
6S	4	M12 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 A36 for further information on ordering.

Dimensional drawings: All dimensions in mm (in).

Cover Plate for Single Clamps Type DPAL



Order Codes

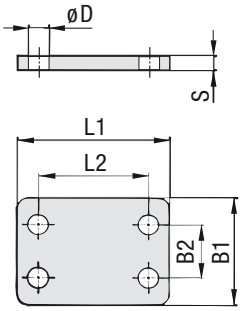
Cover Plate ***DPAL*3S*W2**

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

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

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

Cover Plate for Double Clamps Type DPAS



Order Codes

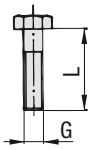
Cover Plate ***DPAS*3S*W2**

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

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

Alternative materials and surface finishings are available upon request. Consult 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	Order Codes (Standard Options)
3S	1	M10 x 45	AS 3S M W1
		3/8–16 UNC x 1-3/4	AS 3S U W3*
4S	2	M10 x 60	AS 4S M W1
		3/8–16 UNC x 2-1/4	AS 4S U W3*
5S	3	M10 x 70	AS 5S M W1
		3/8–16 UNC x 2-3/4	AS 5S U W3*
6S	4	M12 x 100	AS 6S M W1
		7/16–14 UNC x 4	AS 6S U W3*
7S	5	M16 x 130	AS 7S M W1
		5/8–11 UNC x 5-1/4	AS 7S U W3*
8S	6	M20 x 190	AS 8S M W1
		3/4–10 UNC x 7-1/2	AS 8S U W1
9S	7	M24 x 220	AS 9S M W1
		7/8–9 UNC x 8-3/4	AS 9S U W1
10S	8	M30 x 300	AS 10S M W1
		1-1/8–7 UNC x 12	AS 10S U W1
11S	9	M30 x 450	AS 11S M W1
		1-1/4–7 UNC x 17-1/2	AS 11S U W1
12S	10	M30 x 560	AS 12S M W1
		1-1/4–7 UNC x 22	AS 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. Consult STAUFF for further information.

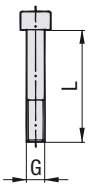
Order Codes

Hexagon Head Bolt ***AS*3S*M*W1**

* Type of bolt	Hexagon Head Bolt (according to DIN 931 / 933 or ANSI / ASME B18.2.1.)	AS
* STAUFF Group		3S
* Thread code	Metric ISO thread	M
	Unified coarse (UNC) thread	U
* Material code	Carbon Steel, untreated	W1
	Carbon Steel, zinc/nickel-plated	W3
	Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303)	W4
	Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)	W5

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

Socket Cap Screw Type IS



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

Group STAUFF	DIN	Dimensions (mm/in) Thread G x L	Order Codes (Standard Options)
3S	1	M10 x 30	IS 3S M W1
		3/8–16 UNC x 1	IS 3S U W3*
4S	2	M10 x 40	IS 4S M W1
		3/8–16 UNC x 1-3/4	IS 4S U W3*
5S	3	M10 x 50	IS 5S M W1
		3/8–16 UNC x 2	IS 5S U W3*
6S	4	M12 x 80	IS 6S M W1
		7/16–14 UNC x 3-1/4	IS 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. Consult STAUFF for further information.

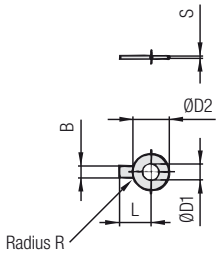
* Standard finishing option in North America is W3 (Carbon Steel, zinc/nickel-plated).

Order Codes

Socket Cap Screw ***IS*3S*M*W1**

* Type of Bolt	Socket Cap Screw (according to ISO 4762 or ANSI / ASME B18.3)	IS
* STAUFF Group		3S
* Thread code	Metric ISO thread	M
	Unified coarse (UNC) thread	U
* Material code	Carbon Steel, untreated	W1
	Carbon Steel, zinc/nickel-plated	W3
	Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303)	W4
	Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)	W5

Safety Washer
Type SI (DIN 93)



Safety Washer SI (according to DIN 93)

Order Codes

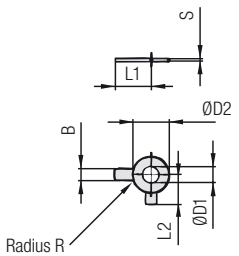
Safety Washer ***SI*10,5*DIN 93*W3**

* Safety Washer		**SI**
* Exact inner diameter ØD1 (mm)		**10,5**
* Type of washer	Safety washer with 1 tab (according to DIN 93)	**DIN 93**
* Material code	Carbon Steel, zinc/nickel-plated	**W3**

Group STAUFF	DIN	Dimensions (mm/in) ØD1	B	ØD2	L	R	S	Order Codes (Standard Options)
3S	1	10,5	10	26	22	4	0,75	SI 10,5 DIN 93 W3
		.41	.39	1.02	.87	.16	.03	
4S	2	10,5	10	26	22	4	0,75	SI 10,5 DIN 93 W3
		.41	.39	1.02	.87	.16	.03	
5S	3	10,5	10	26	22	4	0,75	SI 10,5 DIN 93 W3
		.41	.39	1.02	.87	.16	.03	
6S	4	13	12	30	28	6	1	SI 13 DIN 93 W3
		.51	.47	1.18	1.10	.24	.04	
7S	5	17	15	36	32	6	1	SI 17 DIN 93 W3
		.67	.59	1.42	1.26	.24	.04	
8S	6	21	18	42	36	6	1	SI 21 DIN 93 W3
		.83	.71	1.65	1.42	.24	.04	
9S	7	25	20	50	42	6	1	SI 25 DIN 93 W3
		.98	.79	1.97	1.65	.24	.04	
10S	8	31	26	63	52	10	1,6	SI 31 DIN 93 W3
		1.22	1.02	2.48	2.05	.39	.06	
11S	9	31	26	63	52	10	1,6	SI 31 DIN 93 W3
		1.22	1.02	2.48	2.05	.39	.06	
12S	10	31	26	63	52	10	1,6	SI 31 DIN 93 W3
		1.22	1.02	2.48	2.05	.39	.06	

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

Safety Washer
Type SI (DIN 463)



Safety Washer SI (according to DIN 463)

Order Codes

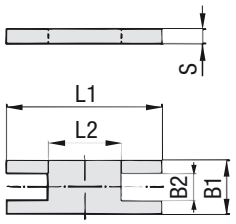
Safety Washer ***SI*10,5*DIN 463*W3**

* Safety Washer		**SI**
* Exact inner diameter ØD1 (mm)		**10,5**
* Type of washer	Safety washer with 2 tabs (according to DIN 463)	**DIN 463**
* Material code	Carbon Steel, zinc/nickel-plated	**W3**

Group STAUFF	DIN	Dimensions (mm/in) ØD1	B	ØD2	L1	L2	R	S	Order Codes (Standard Options)
3S	1	10,5	10	21	22	13	4	0,75	SI 10,5 DIN 463 W3
		.41	.39	.83	.87	.51	.16	.03	
4S	2	10,5	10	21	22	13	4	1	SI 10,5 DIN 463 W3
		.41	.39	.83	.87	.51	.16	.04	
5S	3	10,5	10	21	22	13	4	1	SI 10,5 DIN 463 W3
		.41	.39	.83	.87	.51	.16	.04	
6S	4	13	12	24	28	15	6	1	SI 13 DIN 463 W3
		.51	.47	.94	1.10	.59	.24	.04	
7S	5	17	15	30	32	18	6	1	SI 17 DIN 463 W3
		.67	.59	1.18	1.26	.71	.24	.04	
8S	6	21	18	37	36	21	6	1	SI 21 DIN 463 W3
		.83	.71	1.46	1.42	.83	.24	.04	
9S	7	25	20	44	42	25	6	1	SI 25 DIN 463 W3
		.98	.79	1.73	1.65	.98	.24	.04	
10S	8	31	26	56	52	32	10	1,6	SI 31 DIN 463 W3
		1.22	1.02	2.20	2.05	1.26	.39	.06	
11S	9	31	26	56	52	32	10	1,6	SI 31 DIN 463 W3
		1.22	1.02	2.20	2.05	1.26	.39	.06	
12S	10	31	26	56	52	32	10	1,6	SI 31 DIN 463 W3
		1.22	1.02	2.20	2.05	1.26	.39	.06	

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

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



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

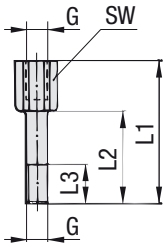
Order Codes

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

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

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

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



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

Order Codes

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

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

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. Consult STAUFF for further information.

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

SPAL	3006	PP	DPAL-AS	M	W12	#K
①	②	③	④	⑤	⑥	⑦

① Type of Installation

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

Without Installation Equipment
Code: **none**

Installation on Weld Plate

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

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

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

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

Installation on Mounting / Channel Rail

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

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

② Group Size & Diameter

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

Group STAUFF (DIN)	Outside Diameter P / T / H (mm)	Availability of Clamp Body Materials & Designs Profiled Design	Type H	Type RI	Code
3S (1)	6	●	●	○	3006
	6,4	●	●	○	3006,4
	8	●	●	○	3008
	9,5	●	●	○	3009,5
	10	●	●	○	3010
	12	●	●	○	3012
	12,7	●	●	○	3012,7
	13,5	●	●	○	3013,5
	14	●	●	○	3014
	15	●	●	○	3015
	16	●	●	○	3016
	17,2	●	●	○	3017,2
	18	●	●	○	3018
	20	●	○	○	3020

② Group Size & Diameter
CONTINUATION

Group STAUFF (DIN)	Outside Diameter P / T / H (mm)	Availability of Clamp Body Materials & Designs Profiled Design	Type H	Type RI	Code
4S (2)	6	○	○	●	4006
	8	○	○	●	4008
	10	○	○	●	4010
	12	○	○	●	4012
	12,7	○	○	●	4012,7
	14	○	○	●	4014
	15	○	○	●	4015
	16	○	○	●	4016
	17,2	○	○	●	4017,2
	18	○	○	●	4018
	19	●	●	●	4019
	20	●	●	○	4020
	21,3	●	●	○	4021,3
	22	●	●	○	4022
	25	●	●	○	4025
	25,4	●	●	○	4025,4
	26,9	●	●	○	4026,9
	28	●	●	○	4028
	30	●	●	○	4030
5S (3)	20	○	○	●	5020
	21,3	○	○	●	5021,3
	22	○	○	●	5022
	25	○	○	●	5025
	26,9	○	○	●	5026,9
	28	○	○	●	5028
	30	●	●	●	5030
	32	●	●	●	5032
	33,7	●	●	○	5033,7
	35	●	●	○	5035
	38	●	●	○	5038
	40	●	●	○	5040
	41,3	●	●	○	5041,3
	42	●	●	○	5042
6S (4)	32	○	○	●	6032
	33,7	○	○	●	6033,7
	35	○	○	●	6035
	38	●	●	○	6038
	38,7	○	○	●	6038,7
	40	○	○	●	6040
	42	●	●	●	6042
	44,5	●	●	○	6044,5
	45,5	○	○	●	6045,5
	48	○	○	●	6048
	48,3	●	●	○	6048,3
	50,8	●	●	○	6050,8
	51	○	○	●	6051
	53,4	○	○	●	6053,4
	54	●	○	○	6054

② Group Size & Diameter
CONTINUATION

Group STAUFF (DIN)	Outside Diameter P / T / H (mm)	Availability of Clamp Body Materials & Designs Profiled Design	Type H	Type RI	Code
6S (4)	55	●	●	○	6055
	56,4	○	○	●	6056,4
	57	●	●	○	6057
	57,2	●	●	○	6057,2
	60,3	●	●	○	6060,3
	63,5	●	●	○	6063,5
	65	●	●	○	6065
	70	●	●	○	6070
7S (5)	55	○	○	●	7055
	57	○	○	●	7057
	60	○	○	●	7060
	60,3	●	○	○	7060,3
	63,5	○	○	●	7063,5
	65	●	○	●	7065
	70	●	○	●	7070
	72	○	○	●	7072
	73	●	○	○	7073
	75	●	○	○	7075
	76	○	○	●	7076
	76,1	●	○	○	7076,1
	80	●	○	○	7080
	82,5	●	○	○	7082,5
	88,9	●	○	○	7088,9
8S (6)	80	○	○	●	8080
	88,9	●	○	●	8088,9
	100	●	○	○	8100
	102	●	○	●	8102
	108	●	○	○	8108
	114	●	○	○	8114
	127	●	○	○	8127
	133	●	○	○	8133
9S (7)	114	○	○	●	9114
	127	●	○	○	9127
	133	●	○	●	9133
	140	●	○	●	9140
	152	●	○	○	9152
	159	●	○	○	9159
	165	●	○	○	9165
	168	●	○	○	9168
10S (8)	150	○	○	●	10150
	165	○	○	●	10165
	168	●	○	●	10168
	172	○	○	●	10172
	177,8	●	○	○	10177,8
	193,7	●	○	○	10193,7
	203	●	○	○	10203
	216	●	○	○	10216
	219	●	○	○	10219
11S (9)	219	●	○	○	11219
	273	●	○	○	11273
	324	●	○	○	11324
12S (10)	356	●	○	○	12356
	406	●	○	○	12406

● Standard Option

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

Please see pages A38 and A39 with detailed order examples for some of the most popular Heavy Series clamp assemblies.

③ Clamp Body Design & Material

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

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

Profiled Design

Polypropylene
Code: **PP**

Polyamide
Code: **PA**

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

Aluminium
Code: **AL**

Type H (Smooth)

Polypropylene
Code: **PPH** (for STAUFF Group 3S to 6S only)

Polyamide
Code: **PAH** (for STAUFF Group 3S to 6S only)

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

Type RI (with Rubber Insert)

Polypropylene
Code: **PPR** (for STAUFF Group 4S to 10S only)

Polyamide
Code: **PAR** (for STAUFF Group 4S to 10S only)

See pages A88 / A89 for material properties and technical information.

Please consult 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 A33.

⑤ Thread Type

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

Metric ISO thread
Code: **M**

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

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

⑥ Material & Surface Finishing

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

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

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

⑦ Assembling & Kitting

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

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

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

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

2x **Hexagon Head Bolt**
Surface: W1
Thread: Metric

1x **Cover Plate for Single Clamps**
Surface: W2

1x **Clamp Body** (two halves)
STAUFF Group 3S (DIN 1)
O.D. 6 mm / .24 in
Material: Polypropylene
Profiled inside surface with tension clearance

1x **Weld Plate for Single Clamps**
Surface: W2
Thread: Metric

Order Code

SPAL 3006 PP DPAL-AS M W12

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

4x **Hexagon Head Bolt**
Surface: W1
Thread: Metric

1x **Cover Plate for Double Clamps**
Surface: W2

2x **Clamp Body** (four halves)
STAUFF Group 3S (DIN 1)
O.D. 6 mm / .24 in
Material: Polypropylene
Profiled inside surface with tension clearance

1x **Weld Plate for Double Clamps**
Surface: W2
Thread: Metric

Order Code

SPAS 3006 PP DPAS-AS M W12

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

2x **Hexagon Head Bolt**
Surface: W1
Thread: Metric

1x **Cover Plate for Single Clamps**
Surface: W2

1x **Clamp Body** (two halves)
STAUFF Group 3S (DIN 1)
O.D. 6 mm / .24 in
Material: Polypropylene
Profiled inside surface with tension clearance

1x **Elongated Weld Plate for Single Clamps**
Surface: W2
Thread: Metric

Order Code

SPAL/DUEB 3006 PP DPAL-AS M W12

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

4x **Hexagon Head Bolt**
Surface: W1
Thread: Metric

1x **Cover Plate for Double Clamps**
Surface: W2

2x **Clamp Body** (four halves)
STAUFF Group 3S (DIN 1)
O.D. 6 mm / .24 in
Material: Polypropylene
Profiled inside surface with tension clearance

1x **Elongated Weld Plate for Double Clamps**
Surface: W2
Thread: Metric

Order Code

SPAS/DUEB 3006 PP DPAS-AS M W12

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

2x **Socket Cap Screw**
Surface: W1
Thread: Metric

1x **Clamp Body** (two halves)
STAUFF Group 3S (DIN 1)
O.D. 6 mm / .24 in
Material: Polypropylene
Profiled inside surface with tension clearance

1x **Weld Plate for Single Clamps**
Surface: W2
Thread: Metric

Order Code

SPAL 3006 PP IS M W12

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

2x **Socket Cap Screw**
Surface: W1
Thread: Metric

1x **Clamp Body** (two halves)
STAUFF Group 3S (DIN 1)
O.D. 6 mm / .24 in
Material: Polypropylene
Profiled inside surface with tension clearance

1x **Elongated Weld Plate for Single Clamps**
Surface: W2
Thread: Metric

Order Code

SPAL/DUEB 3006 PP IS M W12

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

2x **Hexagon Head Bolt**
Surface: W1
Thread: Metric

1x **Cover Plate for Single Clamps**
Surface: W2

1x **Clamp Body** (two halves)
STAUFF Group 3S (DIN 1)
O.D. 6 mm / .24 in
Material: Polypropylene
Profiled inside surface with tension clearance

2x **Mounting Rail Nut**
Surface: W3
Thread: Metric

Order Code (Mounting Rail STSV not included.)

GMV 3006 PP DPAL-AS M W13

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

2x **Socket Cap Screw**
Surface: W1
Thread: Metric

1x **Clamp Body** (two halves)
STAUFF Group 3S (DIN 1)
O.D. 6 mm / .24 in
Material: Polypropylene
Profiled inside surface with tension clearance

2x **Mounting Rail Nut**
Surface: W3
Thread: Metric

Order Code (Mounting Rail STSV not included.)

GMV 3006 PP IS M W13

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

2x **Hexagon Head Bolt**
Surface: W1
Thread: Metric

1x **Cover Plate for Single Clamps**
Surface: W2

1x **Clamp Body** (two halves)
STAUFF Group 3S (DIN 1)
O.D. 6 mm / .24 in
Material: Polypropylene
Profiled inside surface with tension clearance

Order Code

3006 PP DPAL-AS M W19

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

2x **Stacking Bolt**
Surface: W2
Thread: Metric

1x **Safety Locking Plate**
Surface: W2

1x **Clamp Body** (two halves)
STAUFF Group 3S (DIN 1)
O.D. 6 mm / .24 in
Material: Polypropylene
Profiled inside surface with tension clearance

Order Code

3006 PP SIP-AF M W2

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

Thread codes

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

Metric ISO thread	**M**
Unified coarse (UNC) thread	**U**

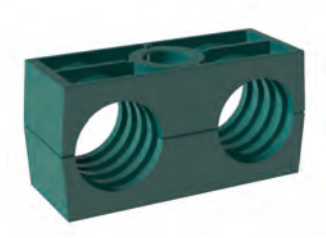
Material codes

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

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

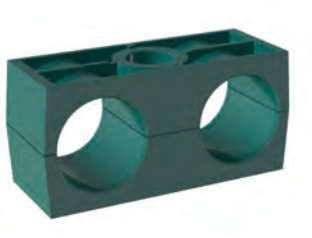
Clamp Body ▪ Profiled Design

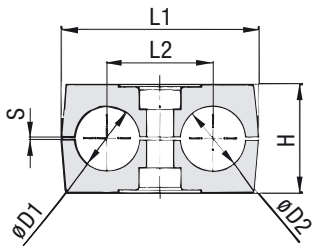
Profiled Inside Surface with Tension Clearance



Clamp Body ▪ Type H

Smooth Inside Surface w/o Tension Clearance





Order Codes

Clamp Body *1*06/06*PP

One clamp body is consisting of two clamp halves.

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

Designs & Standard Materials

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

Polypropylene ▪ Type H
Smooth inside surface without tension clearance
Colour: Green
Material code: **PPH**

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: **PAH**

See pages A88 / A89 for properties and technical information.

Special Materials

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

See pages A90 / A91 for properties and technical information.

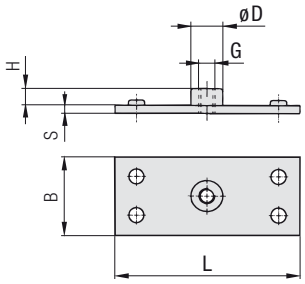
Product Features

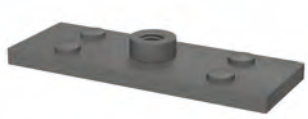
- Proven, tested and trusted product in various markets
- Profiled design recommended for the safe installation of rigid pipes and tubes; type H recommended for the safe installation of hoses and cables
- Available for all commonly used pipe and tube outside diameters
- Environmental protection due to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

Group STAUFF	Group DIN	Outside Diameter Pipe / Tube / Hose Ø D1 / Ø D2 (mm)	(in)	Nominal Bore Pipe (in)	Copper Tube ASTM B88 (in)	Order Codes (2 Clamp Halves) (*** = Material)	Dimensions (mm/in) L1	L2	Profiled Design H	Profiled Design S min.	Type H H	Width
1D	1	6				106/06 ***						
		6,4	1/4			106,4/06,4 ***						
		8	5/16			108/08 ***	36	20	27	0,6	26,5	30
		9,5	3/8		1/4	109,5/09,5 ***	1.42	.79	1.06	.02	1.04	1.18
		10		1/8		110/10 ***						
		12				112/12 ***						
2D	2	12,7	1/2		3/8	212,7/12,7 ***						
		13,5		1/4		213,5/13,5 ***						
		14				214/14 ***						
		15				215/15 ***	53	29	27	0,7	26	30
		16	5/8		1/2	216/16 ***	2.09	1.14	1.06	.03	1.02	1.18
		17,2		3/8		217,2/17,2 ***						
		18				218/18 ***						
3D	3	19	3/4			319/19 ***						
		20				320/20 ***						
		21,3		1/2		321,3/21,3 ***	67	36	37	0,7	36,5	30
		22			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 ***						
4D	4	26,9		3/4		426,9/26,9 ***						
		28				428/28 ***	80	45	40	0,7	38	30
		30				430/30 ***	3.15	1.77	1.57	.03	1.46	1.18
5D	5	32	1-1/4			532/32 ***						
		33,7		1		533,7/33,7 ***						
		35			1-1/4	535/35 ***	106	56	53	0,7	52	30
		38	1-1/2			538/38 ***	4.17	2.20	2.09	.03	2.04	1.18
		40				540/40 ***						
		42		1-1/4		542/42 ***						

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

Single Weld Plate Type SP





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

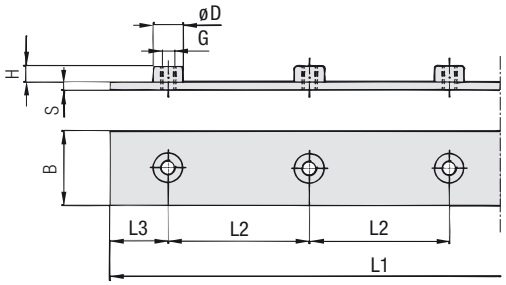
All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.
Alternative materials and surface finishings are available upon request. Consult STAUFF for further information.

Order Codes

Weld Plate ***SP*1D*M*W2**

* Single Weld Plate		SP
* STAUFF Group		1D
* Thread code	Metric ISO thread	M
	Unified coarse (UNC) thread	U
* Material code	Carbon Steel, untreated	W1
	Carbon Steel, phosphated	W2
	Carbon Steel, zinc/nickel-plated	W3
	Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303)	W4
	Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)	W5

Group Weld Plate Type RAP



Group STAUFF	DIN	Dimensions (mm/in) L1	L2	L3	B	S	H	ØD	Thread G	Order Codes (Standard Options)
1D	1	196	40	18	30	3	6,5	12	M6	RAP 1D/40/5 M W1
		7.72	1.57	.71	1.18	.12	.26	.47	1/4–20 UNC	RAP 1D/40/5 U W1
2D	2	288	58	28	30	5	6	14	M8	RAP 2D/58/5 M W1
		11.34	2.28	1.10	1.18	.20	.24	.55	5/16–18 UNC	RAP 2D/58/5 U W1
3D	3	358	72	35	30	5	6	14	M8	RAP 3D/72/5 M W1
		14.09	2.83	1.37	1.18	.20	.24	.55	5/16–18 UNC	RAP 3D/72/5 U W1
4D	4	445	90	42	30	5	6	14	M8	RAP 4D/90/5 M W1
		17.52	3.54	1.65	1.18	.20	.24	.55	5/16–18 UNC	RAP 4D/90/5 U W1
5D	5	558	112	55	30	5	6	14	M8	RAP 5D/112/5 M W1
		21.97	4.41	2.16	1.18	.20	.24	.55	5/16–18 UNC	RAP 5D/112/5 U W1

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

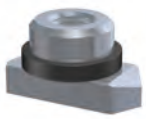
Order Codes

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

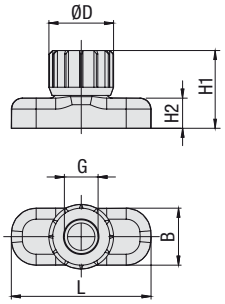
* Group Weld Plate		RAP
* STAUFF Group		1D
* Pipe Center Spacing L2 (mm)		40
* Number of Clamps		5
* Thread code	Metric ISO thread	M
	Unified coarse (UNC) thread	U
* Material code	Carbon Steel, untreated	W1
	Carbon Steel, phosphated	W2
	Carbon Steel, zinc/nickel-plated	W3
	Stainless Steel V2A 1.4301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

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

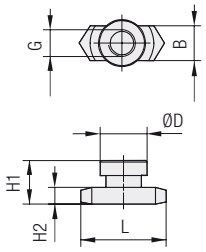
STAUFF Group 1D



STAUFF Group 2D to 5D



STAUFF Group 1D



STAUFF Group 2D to 5D

Order Codes

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

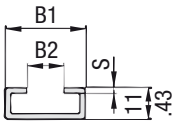
* Hexagon Rail Nut		
	Carbon Steel	**SM**
	Stainless Steel	**SMG**
* STAUFF Group	1D (DIN Group 1)	**1-8/1D**
	2D to 5D (DIN Group 2 to 5)	**2-5D**
* Thread code	Metric ISO thread	**M**
	Unified coarse (UNC) thread	**U**
* Material code	Carbon Steel, zinc/nickel-plated	**W3**
	Stainless Steel V2A 1.4301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

Group STAUFF	DIN	Dimensions (mm/in) Thread G	L	B	H1	H2	ØD	Order Codes (Standard Options)
1D	1	M6	25,5	10,4	14,2	5,5	12	**SM 1-8/1D M W3**
		1/4–20 UNC	1.00	.41	.56	.22	.47	**SM 1-8/1D U W3**
2D	2							
3D	3	M8	25,5	10,4	13	5	14	**SM 2-5D M W3**
4D	4	5/16–18 UNC	1.00	.41	.51	.20	.55	**SM 2-5D U W3**
5D	5							

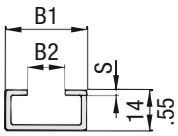
The Hexagon Rail Nut, type SM 1-8/1D is also suitable for Standard Series, STAUFF Group 1 to 8.

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. Consult STAUFF for further information.

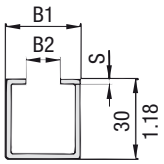
Mounting Rail
Type TS (for Use with Hexagon Rail Nut SM / SMG)



Mounting Rail TS 11



Mounting Rail TS 14



Mounting Rail TS 30

Order Codes

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

* Mounting Rail		**TS**
* Height of rail	11 mm / .43 in	**11**
	14 mm / .55 in	**14**
	30 mm / 1.18 in	**30**
* Length of rail	1 m / 3.28 ft	**-1M**
	2 m / 6.56 ft	**-2M**
	Alternative lengths available upon request. Consult STAUFF for further information.	
* Material code	Carbon Steel, untreated	**W1**
	Carbon Steel, zinc/nickel-plated	**W3**
	Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303)	**W4**
	Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)	**W5**

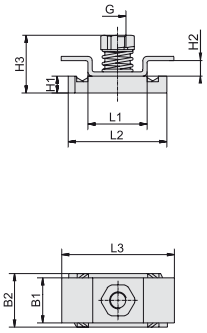
Group STAUFF	DIN	Dimensions (mm/in) L	B	H1	Order Codes (Standard Options) Length of Rail: 1 m / 3.28 ft	Length of Rail: 2 m / 6.56 ft
1D	1				Height 11 mm / .43 in **TS 11-1M W1**	Height 11 mm / .43 in **TS 11-2M W1**
2D	2					
3D	3	28	11	2	Height 14 mm / .55 in **TS 14-1M W1**	Height 14 mm / .55 in **TS 14-2M W1**
		1.10	.43	.08		
4D	4					
5D	5				Height 30 mm / 1.18 in **TS 30-1M W1**	Height 30 mm / 1.18 in **TS 30-2M W1**

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

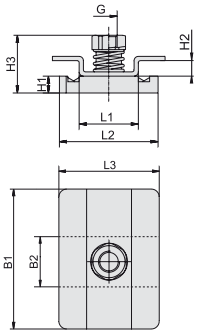
Alternative materials and surface finishings are available upon request. Consult STAUFF for further information.

Dimensional drawings: All dimensions in mm (in).

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



STAUFF Group 1D



STAUFF Group 2-3D / 4-5D

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

Order Codes

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

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

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

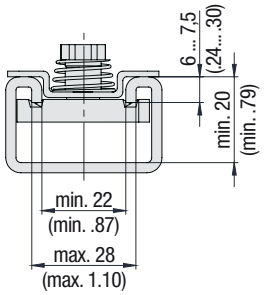
All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.
Alternative materials and surface finishings are available upon request. Consult STAUFF for further information.

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 A83 for technical information.
HZM 41/22		P4000, P4000T	
HL 41/41, HL 41/B2		P5000, P5000T, P5001, P5500, P5500T, P5501	

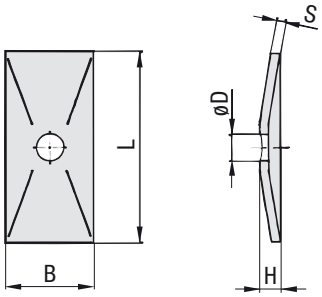
Consult STAUFF to check compatibility with additional types of channel rails.



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



Order Codes

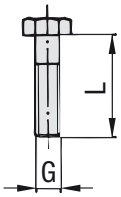
Cover Plate ***GD*1D*W3**

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

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

Alternative materials and surface finishings are available upon request. Consult 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

Order Codes

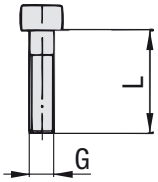
Hexagon Head Bolt ***AS*1D*M*W3**

* Type of bolt	Hexagon Head Bolt (according to DIN 931 / 933 or ANSI / ASME B18.2.1.)	AS
* STAUFF Group		1D
* Thread code	Metric ISO thread	M
	Unified coarse (UNC) thread	U
* Material code	Carbon Steel, zinc/nickel-plated	W3
	Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303)	W4
	Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)	W5

Group STAUFF	DIN	Dimensions (mm/in) Thread G x L	Order Codes (Standard Options)
1D	1	M6 x 35	AS 1D M W3
		1/4–20 UNC x 1-3/8	AS 1D U W3
2D	2	M8 x 35	AS 2D M W3
		5/16–18 UNC x 1-3/8	AS 2D U W3
3D	3	M8 x 45	AS 3D M W3
		5/16–18 UNC x 1-3/4	AS 3D U W3
4D	4	M8 x 50	AS 4D M W3
		5/16–18 UNC x 2	AS 4D U W3
5D	5	M8 x 60	AS 5D M W3
		5/16–18 UNC x 2-1/2	AS 5D U W3

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.
Alternative materials and surface finishings are available upon request. Consult 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	Order Codes (Standard Options)
1D	1	M6 x 35	IS 1D M W3
		1/4–20 UNC x 1-3/8	IS 1D U W3
2D	2	M8 x 35	IS 2D M W3
		5/16–18 UNC x 1-3/8	IS 2D U W3
3D	3	M8 x 45	IS 3D M W3
		5/16–18 UNC x 1-3/4	IS 3D U W3
4D	4	M8 x 50	IS 4D M W3
		5/16–18 UNC x 2	IS 4D U W3
5D	5	M8 x 60	IS 5D M W3
		5/16–18 UNC x 2-1/2	IS 5D U W3

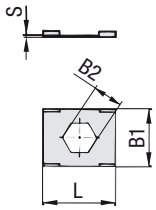
All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.
Alternative materials and surface finishings are available upon request. Consult STAUFF for further information.

Order Codes

Hexagon Head Bolt ***IS*1D*M*W3**

* Type of bolt	Socket Cap Screw (according to ISO 4762 or ANSI / ASME B18.3)	IS
* STAUFF Group		1D
* Thread code	Metric ISO thread	M
	Unified coarse (UNC) thread	U
* Material code	Carbon Steel, zinc/nickel-plated	W3
	Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303)	W4
	Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)	W5

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



Safety Locking Plate SI

Order Codes

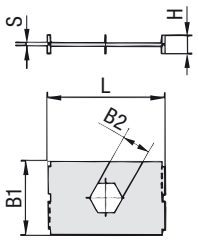
Safety Locking Plate ***SI*1D*W3**

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

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

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

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



Safety Locking Plate SIV
(Prevents Upper Clamp from Turning)

Order Codes

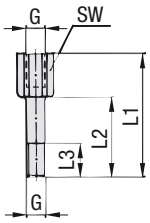
Safety Locking Plate ***SIV*1D*W3**

* Safety Locking Plate		**SIV**
* STAUFF Group	1D (DIN Group 1)	**1D**
	2D to 3D (DIN Group 2 to 3)	**2-3D**
* Material code	Carbon Steel, zinc/nickel-plated	**W3**
	Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303)	**W4**
	Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)	**W5**

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

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

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



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

Order Codes

Stacking Bolt ***AF*1D*M*W3**

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

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

SP	106/06	PP	GD-AS	M	W10	#K
①	②	③	④	⑤	⑥	⑦

Please see page A49 with detailed order examples for some of the most popular Twin Series clamp assemblies.

① Type of Installation

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

Without Installation Equipment
Code: **none**

Installation on Weld Plate

Single Weld Plate
Code: **SP**

Group Weld Plate
Code: **RAP**

Installation on Mounting / Channel Rail

Mounting Rail Nut
Code: **SM** (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 STAUFF (DIN)	Outside Diameter P / T / H (mm)	Availability of Clamp Body Materials & Designs Profiled Design	Type H	Code
1D (1)	6	●	●	106/06
	6,4	●	●	106,4/06,4
	8	●	●	108/08
	9,5	●	●	109,5/09,5
	10	●	●	110/10
	12	●	●	112/12
2D (2)	12,7	●	●	212,7/12,7
	13,5	●	●	213,5/13,5
	14	●	●	214/14
	15	●	●	215/15
	16	●	●	216/16
	17,2	●	●	217,2/17,2
	18	●	●	218/18
3D (3)	19	●	●	319/19
	20	●	●	320/20
	21,3	●	●	321,3/21,3
	22	●	●	322/22
	25	●	●	325/25
	25,4	●	●	325,4/25,4
4D (4)	26,9	●	●	426,9/26,9
	28	●	●	428/28
	30	●	●	430/30
5D (5)	32	●	●	532/32
	33,7	●	●	533,7/33,7
	35	●	●	535/35
	38	●	●	538/38
	40	●	●	540/40
	42	●	●	542/42

③ Clamp Body Design & Material

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

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

Profiled Design

Polypropylene
Code: **PP**

Polyamide
Code: **PA**

Type H (Smooth)

Polypropylene
Code: **PPH**

Polyamide
Code: **PAH**

See pages A88 / A89 for material properties and technical information.

Please consult 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)

● Standard Option

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

⑤ Thread Type

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

Metric ISO thread
Code: **M**

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

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

⑥ Material & Surface Finishing

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

Metal parts made of Carbon Steel, untreated	**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**

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

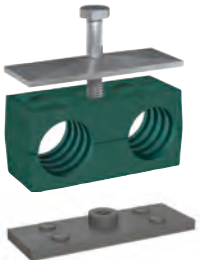
⑦ Assembling & Kitting

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

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

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

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



1x **Hexagon Head Bolt**
Surface: W3
Thread: Metric

1x **Cover Plate**
Surface: W3

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

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

Order Code

SP 106/06 PP GD-AS M W10

W10 is the standard option for this type of installation.

1x **Hexagon Head Bolt**
Surface: W3
Thread: Metric

1x **Cover Plate**
Surface: W3

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

Order Code

106/06 PP GD-AS M W3

W3 is the standard option for this type of installation.

1x **Stacking Bolt**
Surface: W3
Thread: Metric

1x **Safety Locking Plate (Type SI)**
Surface: W3
Thread: Metric

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

Order Code

106/06 PP SI-AF M W3

W3 is the standard option for this type of installation.

1x **Stacking Bolt**
Surface: W3
Thread: Metric

1x **Safety Locking Plate (Type SIV)**
Surface: W3
Thread: Metric

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

Order Code

106/06 PP SIV-AF M W3

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

1x **Hexagon Head Bolt**
Surface: W3
Thread: Metric

1x **Cover Plate**
Surface: W3

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

1x **Hexagon Rail Nut**
Surface: W3
Thread: Metric

Order Code (Mounting Rail TS not included.)

SM 106/06 PP GD-AS M W3

W3 is the standard option for this type of installation.

Thread Codes

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

Metric ISO thread	**M**
Unified coarse (UNC) thread	**U**

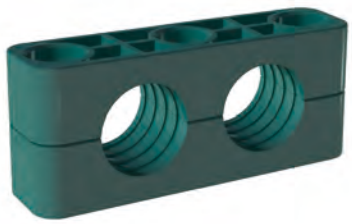
Material Codes

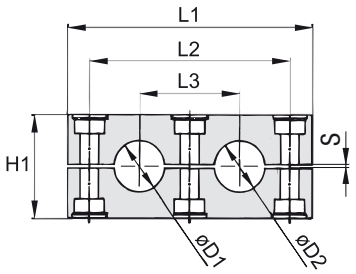
The below listed material codes describe the materials and surface finishings of metal parts that are most relevant for Twin Series clamp assemblies. Individual combinations of alternative materials and surface finishings are available upon request. Consult STAUFF for further information.

Metal parts made of Carbon Steel, untreated	**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**

Clamp Body ▪ Profiled Design

Profiled Inside Surface with Tension Clearance





Order Codes

Clamp Body ***4*012,7/12,7*PP**

One clamp body is consisting of two clamp halves.

* 1st part of STAUFF Group	**4**
* Exact outside diameters Ø D1 / Ø D2 (mm)	**012,7/12,7**
* Material code (see below)	**PP**

Standard Materials

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

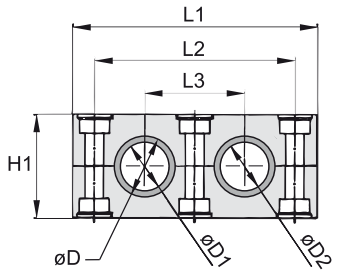
Polyamide
Colour: Black
Material code: **PA**

See pages A88 / A89 for material properties and technical information.

Group	Outside Diameter Pipe / Tube Ø D1 / Ø D2		Nominal Bore Pipe	Nominal Bore Copper Tube ASTM B88	Order Codes (2 Clamp Halves)	Dimensions (mm/in)					
STAUFF	(mm)	(in)	(in)	(in)	(✱✱ = Material)	L1	L2	L3	H1	S	Width
4S-D	12,7	1/2		3/8	4012,7/12,7 ✱✱	115 4.53	90 3.54	45 1.77	48 1.89	1,2 .05	30 1.18
	19	3/4			4019/19 ✱✱						
	20				4020/20 ✱✱						
	21,3		1/2		4021,3/21,3 ✱✱						
	22			3/4	4022/22 ✱✱						
	25,4	1			4025,4/25,4 ✱✱						
	26,9		3/4		4026,9/26,9 ✱✱						
5S-D	32	1-1/4			5032/32 ✱✱	145 5.71	120 4.72	60 2.36	60 2.36	2,0 .08	30 1.18
	33,7		1		5033,7/33,7 ✱✱						
	38	1-1/2			5038/38 ✱✱						
	42		1-1/4		5042/42 ✱✱						

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

Clamp Body with Rubber Inserts Type RI



For use with Rubber Inserts of the Heavy Series, STAUFF Group 4S and 5S (see page A27 for details)

Order Codes

Clamp Assembly ***4*006/06*PPR**

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

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

Standard Materials

Polypropylene
Colour: Black
Material code: **PPR**

Polyamide
Colour: Black
Material code: **PAR**

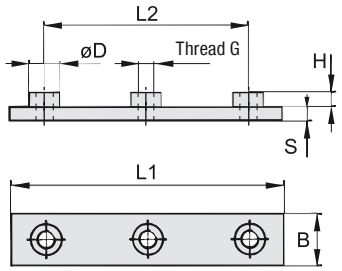
Rubber Inserts
Thermoplastic Elastomer (73 Shore-A)
Colour: Black

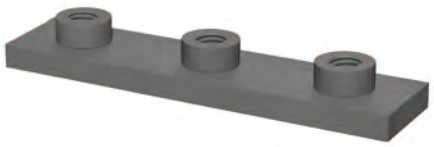
See pages A88 / A89 for properties and technical information.

Group	Outside Diameter Pipe / Tube / Hose Ø D1 / Ø D2		Order Codes (Clamp Assembly)	Dimensions (mm/in)					
STAUFF	(mm)	(in)	(✱✱R = Material)	Ø D	L1	L2	L3	H1	Width
4S-D	6		4006/06 ✱✱R	25 .98	115 4.53	90 3.54	45 1.77	48 1.89	30 1.18
	8	5/16	4008/08 ✱✱R						
	10		4010/10 ✱✱R						
	12		4012/12 ✱✱R						
	12,7	1/2	4012,7/12,7 ✱✱R						
	14		4014/14 ✱✱R						
	15		4015/15 ✱✱R						
	16	5/8	4016/16 ✱✱R						
	17,2		4017,2/17,2 ✱✱R						
	18		4018/18 ✱✱R						
	19	3/4	4019/19 ✱✱R						
5S-D	20		5020/20 ✱✱R	38 1.50	145 5.71	120 4.72	60 2.36	60 2.36	30 1.18
	21,3		5021,3/21,3 ✱✱R						
	22	7/8	5022/22 ✱✱R						
	25		5025/25 ✱✱R						
	26,9		5026,9/26,9 ✱✱R						
	28		5028/28 ✱✱R						
	30		5030/30 ✱✱R						
	32	1-1/4	5032/32 ✱✱R						

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

Weld Plate Type SPAD





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

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

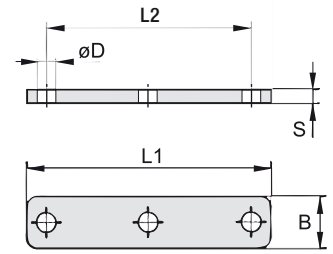
* Standard finishing option in North America is W2 (Carbon Steel, phosphated).

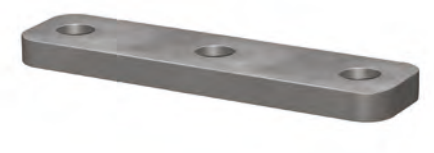
Order Codes

Weld Plate ***SPAD*4S*M*W1**

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

Cover Plate Type DPAD





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

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

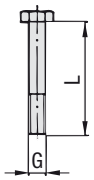
* Standard finishing option in North America is W3 (Carbon Steel, phosphated).

Order Codes

Cover Plate ***DPAD*4S*W1**

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

Hexagon Head Bolt
Type AS



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

Order Codes

Hexagon Head Bolt ***AS*4S*M*W1**

* Type of bolt	Hexagon Head Bolt (according to DIN 931 / 933 or ANSI / ASME B18.2.1.)	**AS**
* STAUFF Group	4S-D	**4S**
	5S-D	**5S**
* Thread code	Metric ISO thread	**M**
	Unified coarse (UNC) thread	**U**
* Material code	Carbon Steel, untreated	**W1**
	Carbon Steel, zinc/nickel-plated	**W3**
	Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303)	**W4**
	Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)	**W5**

Group STAUFF	DIN	Dimensions ($^{mm}/_{in}$) Thread G x L	Order Codes (Standard Options)
4S	2	M10 x 60	**AS 4S M W1**
		3/8–16 UNC x 2-1/4	**AS 4S U W3***
5S	3	M10 x 70	**AS 5S M W1**
		3/8–16 UNC x 2-3/4	**AS 5S U 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. Consult 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 A34 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 A30 for details)

Mounting Rail Type STSV

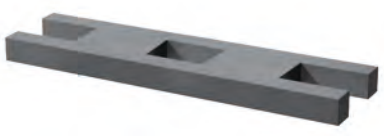
Heavy Series
(See page A30 for details)

Channel Rail Adaptor Type CRA

Heavy Series, STAUFF Group 4S and 5S
(See page A31 for details)

Socket Cap Screw Type IS

Heavy Series, STAUFF Group 4S and 5S
(See page A33 for details)



Safety Locking Plate Type SIPD

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

Stacking Bolt Type AF

Heavy Series, STAUFF Group 4S and 5S
(See page A35 for details)

SPAD	4012,7/12,7	PP	DPAD-AS	M	W1	#K
①	②	③	④	⑤	⑥	⑦

① Type of Installation

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

Without Installation Equipment
Code: **none**

Installation on Weld Plate

Single Weld Plate
Code: **SPAD**

Installation on Mounting / Channel Rail

Mounting Rail Nut
Code: **GMV**

Channel Rail Adaptor
Code: **CRA**

② Group Size & Diameters

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

Group STAUFF	Outside Diameter P / T / H (mm)	Availability of Clamp Body Materials & Designs Profiled Design	Type RI	Code
4S-D	6	○	●	4006/06
	8	○	●	4008/08
	10	○	●	4010/10
	12	○	●	4012/12
	12,7	●	●	4012,7/12,7
	14	○	●	4014/14
	15	○	●	4015/15
	16	○	●	4016/16
	17,2	○	●	4017,2/17,2
	18	○	●	4018/18
	19	●	●	4019/19
	20	●	○	4020/20
	21,3	●	○	4021,3/21,3
	22	●	○	4022/22
	25,4	●	○	4025,4/25,4
	26,9	●	○	4026,9/26,9
5S-D	20	○	●	5020/20
	21,3	○	●	5021,3/21,3
	22	○	●	5022/22
	25	○	●	5025/25
	26,9	○	●	5026,9/26,9
	28	○	●	5028/28
	30	○	●	5030/30
	32	●	●	5032/32
	33,7	●	○	5033,7/33,7
	38	●	○	5038/38
	42	●	○	5042/42

● Standard Option

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

③ Clamp Body Design & Material

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

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

Profiled Design

Polypropylene
Code: **PP**

Polyamide
Code: **PA**

Type RI (with Rubber Insert)

Polypropylene
Code: **PPR**

Polyamide
Code: **PAR**

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

④ Mounting & Fitting Combination

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

Installation with Cover Plate and Bolts

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

Installation with Locking Plate and Bolts

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

⑤ Thread Type

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

Metric ISO thread
Code: **M**

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

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

⑥ Material & Surface Finishing

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

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

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

⑦ Assembling & Kitting

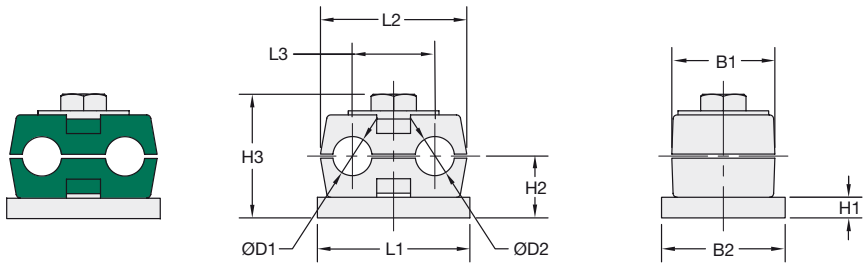
If required, please select an additional assembling and kitting option and add the corresponding Code to the last position of the order code for your clamp assembly.

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

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

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

Compact Twin Series: Clamp Body Type DS



Order Codes

Clamp Body ***DS1*06/06*PP**

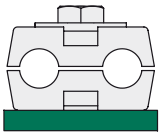
One clamp body is consisting of two clamp halves.

* Compact Twin Series, STAUFF Group 1	**DS 1**
* Exact outside diameters Ø D1 / Ø D2 (mm)	**06/06**
* Clamp Body Material (Polypropylene)	**PP**

Group	Outside Diameter Pipe / Tube Ø D1 / Ø D2		Nominal Bore Pipe	Copper Tube ASTM B88	Order Codes (2 Clamp Halves)	Dimensions (mm/in)							
STAUFF	(mm)	(in)	(in)	(in)		L1	L2	L3	H1	H2	H3	B1	B2
DS 1	6				DS106/06 PP	37 1.46	35,5 1.40	20 .79	5 .20	15 .59	30 1.18	25 .98	30 1.18
	6,4	1/4			DS106,4/06,4 PP								
	8	5/16			DS108/08 PP								
	9,5	3/8		1/4	DS109,5/09,5 PP								
	10		1/8		DS110/10 PP								

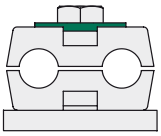
Additional outside diameters are available upon request. Please consult STAUFF for further information.

Compact Twin Series: Metal Hardware



Weld Plate, Type SP DS1

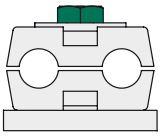
SP DS1 U W2 (unified coarse thread)
Thread size: 1/4–20 UNC
Made of Carbon Steel, phosphated



Cover Plate, Type US DS1

US DS1 W3

Carbon Steel, zinc/nickel-plated

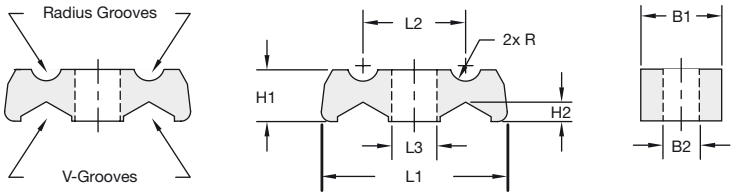


Hexagon Bolt, Type AS DS1

AS DS1 U W3 (unified coarse thread)
Bolt size: 1/4–20 UNC x 1
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.
Consult STAUFF for further information.

Agriculture Twin Series: Clamp Body Type AG



Order Codes

Clamp Body ***AG*2**

* Agriculture Twin Series	**AG**
* STAUFF Group	**2**

Group	Min/Max Outside Diameters Pipe / Tube using Radius Grooves		using V-Grooves		Order Codes (1 Clamp Body)	Dimensions (mm/in)							
STAUFF	(mm)	(in)	(mm)	(in)		L1	L2	L3	H1	H2	B1	B2	R
2	3 ... 10	.12 ... .39	4 ... 15	.26 ... .59	AG 2	57,5 2.26	31,7 1.25	14,0 .55	16,0 .63	7,1 .24	25,0 .98	11,0 .43	4,8 .19
3	4 ... 25	.16 ... .98	7 ... 20	.28 ... .79	AG 3	62,0 2.48	34,5 1.36	14,0 .55	19,0 .75	7,1 .28	32,0 1.26	11,0 .43	12,4 .49

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

Standard Material

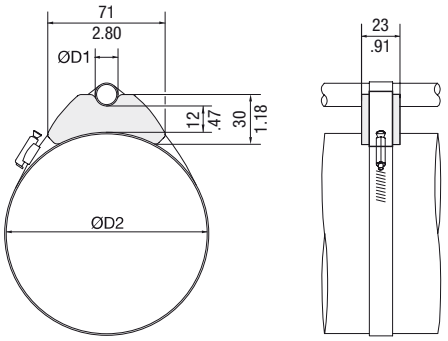
Polypropylene
Colour: Black

See pages A88 / A89 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

Saddle Clamp for Cylinder Supply Lines Type ZR 518



Min/Max Outside Diameters * Pipe / Tube Ø D1 (mm)	(in)	Ø D2 (mm)	(in)	Steel Strap Dimensions (Not Included in Scope of Delivery) Length (mm)	(in)	Width (mm)	(in)
		50 ... 70	1.96 ... 2.76	196 ... 254	7.71 ... 10.00		
		60 ... 80	2.36 ... 3.15	225 ... 284	8.86 ... 11.18		
		70 ... 90	2.76 ... 3.54	254 ... 314	10.00 ... 12.36		
		80 ... 105	3.15 ... 4.13	284 ... 359	11.18 ... 14.13		
10 ... 22	.39 ... .87	90 ... 120	3.54 ... 4.72	314 ... 404	12.36 ... 15.90	13	.51
		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!

Order Code

Saddle Clamp **ZR 518 Black 9005**

Standard Material

Thermoplastic Elastomer (73 Shore-A)
Colour: Black

See pages A88 / A89 for properties and technical information.

Custom-Designed Plastic Saddle Clamps

Custom-designed Plastic Saddle Clamps according to customer's specifications or based on STAUFF developments are available upon request.

Consult STAUFF for further information.

Machined Versions

Custom-designed clamping systems for pipes, tubes, hoses, cables and other components according to customer`s specifications or based on STAUFF developments, made of thermoplastics, metals and non-ferrous metals.

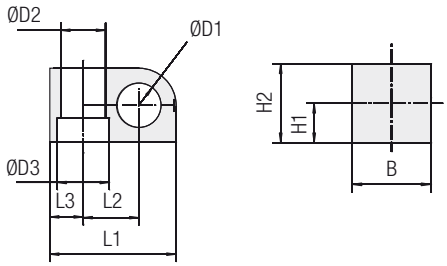
Accessories such as weld plates, cover plates, bolts as well as rubber inserts are available on request.

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.

Accessories such as weld plates, cover plates, bolts as well as rubber inserts are available on request.

Clamp Body ▪ Single Design



Order 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 A88 / A89 for material properties and technical information.

Alternative materials are available upon request.
Please consult 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	Outside Diameter Pipe / Tube / Hose Ø D1		Nominal Bore Pipe	Order Codes (1 Clamp Body)	Dimensions (mm / in)							
STAUFF	(mm)	(in)	(in)		Ø D2	Ø D3	L1	L2	L3	H1	H2	B
1	6			LBBU 106 SA M8-U5/16								
	6,4	1/4		LBBU 106,4 SA M8-U5/16								
	8	5/16		LBBU 108 SA M8-U5/16								
	9,5	3/8		LBBU 109,5 SA M8-U5/16	12	14	34	15	9	10	20	20
	10		1/8	LBBU 110 SA M8-U5/16	.47	.55	1.34	.59	.35	.39	.79	.79
	11			LBBU 111 SA M8-U5/16								
	12			LBBU 112 SA M8-U5/16								
	12,7	1/2		LBBU 112,7 SA M8-U5/16								
2	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								
	12,7	1/2		LBBU 212,7 SA M8-U5/16	12	14	39	18	9	12	24	20
	13,5		1/4	LBBU 213,5 SA M8-U5/16	.47	.55	1.54	.71	.35	.47	.94	.79
	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								
3	21,3			LBBU 321,3 SA M8-U5/16								
	22	7/8		LBBU 322 SA M8-U5/16								
	23			LBBU 323 SA M8-U5/16								
	25			LBBU 325 SA M8-U5/16	12	14	57,5	23,5	15	20	40	30
	25,4	1		LBBU 325,4 SA M8-U5/16	.47	.55	2.26	.93	.59	.79	1.57	1.18
	28			LBBU 328 SA M8-U5/16								
	30			LBBU 330 SA M8-U5/16								
	32	1-1/4		LBBU 332 SA M8-U5/16								

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

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

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

Order Code
LBBU-SP 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.

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 A14 for details)

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.

Type of Mounting PM
(for panel mounting without Weld Plate or Hexagon Rail Nut)

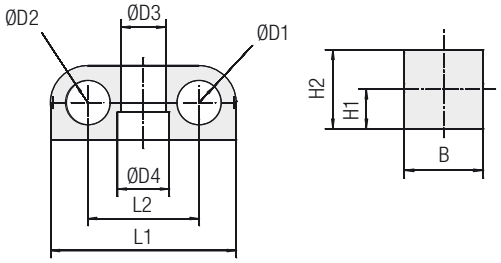
Clamp assembly consisting of:
- 1 Hexagon Head Bolt AS
- 1 Cover Plate LBBU-DP
- 1 Sleeve LBBU-HUE
- 1 Clamp Body LBBU

Order Code
LBBU-PM 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



Group STAUFF	Outside Diameters Pipe / Tube / Hose Ø D1 / Ø D2 (mm)	(in)	Nominal Bore Pipe (in)	Order Codes (1 Clamp Body)	Dimensions (mm/in) Ø D3	Ø D4	L1	L2	H1	H2	B
1D	4			LBBU 104/04 SA M8-U5/16							
	6			LBBU 106/06 SA M8-U5/16							
	6,4	1/4		LBBU 106,4/06,4 SA M8-U5/16							
	8	5/16		LBBU 108/08 SA M8-U5/16	12	14	50	30	10	20	20
	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							
	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							
2D	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							
	12,7	1/2		LBBU 212,7/12,7 SA M8-U5/16	12	14	59	35	12	24	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							
3D	21,3			LBBU 321,321,3 SA M8-U5/16							
	22	7/8		LBBU 322/22 SA M8-U5/16							
	23			LBBU 323/23 SA M8-U5/16							
	25			LBBU 325/25 SA M8-U5/16	12	14	86	47	20	40	30
	25,4	1		LBBU 325,4/25,4 SA M8-U5/16	.47	.55	3.39	1.85	.79	1.57	.79
	28			LBBU 328/28 SA M8-U5/16							
	30			LBBU 330/30 SA M8-U5/16							
	32	1-1/4		LBBU 332/32 SA M8-U5/16							

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

Order 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 A88 / A89 for material properties and technical information.

Alternative materials are available upon request.
Please consult 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

Please also ask for the **Anti-Twist Feature** to prevent turning of the components. Consult STAUFF for further information.

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

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

Order Code
LBBU-SP 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.

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 A14 for details)

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.

Type of Mounting PM
(for panel mounting without Weld Plate or Hexagon Rail Nut)

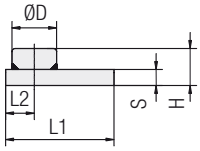
Clamp assembly consisting of:
- 1 Hexagon Head Bolt AS
- 1 Cover Plate LBBU-DP
- 1 Sleeve LBBU-HUE
- 1 Clamp Body LBBU

Order Code
LBBU-PM 216/16 SA DP-AS M8 W3

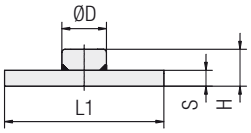
W3 (Metal parts made of Carbon Steel, zinc/nickel-plated) is the standard option for this type of installation.
For UNC threads / bolts, please replace M8 by U5/16.

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

Order Codes

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

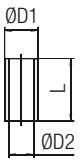
* Light Series LBBU		**LBBU**
* Weld Plate		**-SP**
* STAUFF Group		**1D**
* Thread code	Metric ISO thread: M8	**M8**
	UNC thread: 5/16–18 UNC	**U5/16**
* Material code	Carbon Steel, phosphated	**W2**

Group STAUFF	Dimensions (mm/in) Ø D	L1	L2	H	S	Thread G	Order Codes (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**
	.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**
	.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**
	.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**
	.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**
	.55	3.39		.41	.20	5/16–18 UNC	**LBBU-SP 3D U5/16 W2**

Please also ask for the **Anti-Twist Feature** to prevent turning of the components. Consult STAUFF for further information.

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 STAUFF	Dimensions (mm/in) ØD1	ØD2	L	Order Codes (Standard Options)
1	12	9	13,5	**LBBU-HUE 1/1D SP M8-U5/16 W3**
	.47	.35	.53	
2	12	9	17,5	**LBBU-HUE 2/2D SP M8-U5/16 W3**
	.47	.35	.69	
3	12	9	33,5	**LBBU-HUE 3/3D SP M8-U5/16 W3**
	.47	.35	1.32	
1D	12	9	13,5	**LBBU-HUE 1/1D SP M8-U5/16 W3**
	.47	.35	.53	
2D	12	9	17,5	**LBBU-HUE 2/2D SP M8-U5/16 W3**
	.47	.35	.69	
3D	12	9	33,5	**LBBU-HUE 3/3D SP M8-U5/16 W3**
	.47	.35	1.32	

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

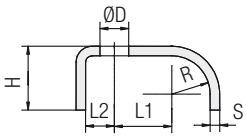
Group STAUFF	Dimensions (mm/in) ØD1	ØD2	L	Order Codes (Standard Options)
1	12	9	12,8	**LBBU-HUE 1/1D SM M8-U5/16 W3**
	.47	.35	.50	
2	12	9	16,8	**LBBU-HUE 2/2D SM M8-U5/16 W3**
	.47	.35	.66	
3	12	9	32,8	**LBBU-HUE 3/3D SM M8-U5/16 W3**
	.47	.35	1.29	
1D	12	9	12,8	**LBBU-HUE 1/1D SM M8-U5/16 W3**
	.47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

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

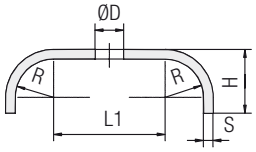
Group STAUFF	Dimensions (mm/in) ØD1	ØD2	L	Order Codes (Standard Options)
1	12	9	18,8	**LBBU-HUE 1/1D PM M8-U5/16 W3**
	.47	.35	.74	
2	12	9	22,7	**LBBU-HUE 2/2D PM M8-U5/16 W3**
	.47	.35	.89	
3	12	9	38,8	**LBBU-HUE 3/3D PM M8-U5/16 W3**
	.47	.35	1.53	
1D	12	9	18,8	**LBBU-HUE 1/1D PM M8-U5/16 W3**
	.47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

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

Cover Plate
Type LBBU-DP



STAUFF Group 1 to 3



STAUFF Group 1D to 3D

Group STAUFF	Dimensions (mm/in) Ø D	L1	L2	R	H	S	Order Codes (Standard Options)
1	9	15	9	10	16	3	LBBU-DP 1 M8-U5/16 W3
	.35	.59	.35	.39	.63	.12	
2	9	18	9	12	20	3	LBBU-DP 2 M8-U5/16 W3
	.35	.71	.35	.47	.79	.12	
3	9	23,5	15	19,5	28	3	LBBU-DP 3 M8-U5/16 W3
	.35	.93	.59	.77	1.10	.12	
1D	9	30		10	16	3	LBBU-DP 1D M8-U5/16 W3
	.35	1.18		.39	.63	.12	
2D	9	35		12	20	3	LBBU-DP 2D M8-U5/16 W3
	.35	1.38		.47	.79	.12	
3D	9	47		19,5	28	3	LBBU-DP 3D M8-U5/16 W3
	.35	1.85		.77	.63	.12	

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

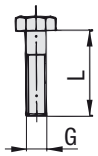
Order Codes

Cover Plate ***LBBU-DP*1D*M8-U5/16*W3**

* Light Series LBBU		**LBBU**
* Cover Plate		**-DP**
* STAUFF Group		**1D**
* Thread code (suitable for bolts M8 and U5/16)		**M8-U5/16**
* Material code	Carbon Steel, zinc/nickel-plated	**W3**

Please also ask for the **Anti-Twist Feature** to prevent turning of the components. Consult 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 Weld Plate LBBU-SP (**Type of Mounting SP**) or Hexagon Rail Nut SM 2-5D (**Type of Mounting SM**)

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

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

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

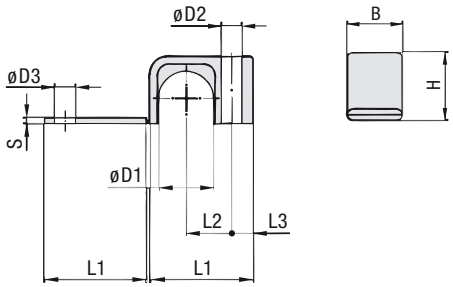
Order Codes

Hexagon Head Bolt ***AS*M8x25*W3**

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

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

Clamp Body ▪ Single Design



Order Codes

Clamp Body ***LB*1*03,2*PP**

* Light Series:	Clamp Body / Single Design	**LB**
* STAUFF Group		**1**
* Exact outside diameter Ø D1 (mm)		**03,2**
* Material code (see below)		**PP**

Standard Materials

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

Polyamide
Colour: Yellow
Material code: **PA**

See pages A88 / A89 for material properties and technical information.

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

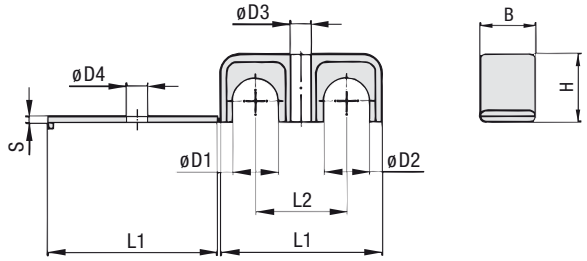
Applications

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

Group	Outside Diameter Pipe / Tube / Hose Ø D1		Nominal Bore Pipe	Order Codes (1 Clamp Body)	Dimensions (mm/in)							
STAUFF	(mm)	(in)	(in)	(** = Material)	L1	L2	L3	B	H	S	Ø D2	Ø D3
1	3,2	1/8		LB 103,2 **	22 .87	9 .35	6,5 .26	12 .47	10,5 .41	2 .08	6,8 .27	7 .28
	6			LB 106 **								
	6,4	1/4		LB 106,4 **								
	8			LB 108 **								
2	9,5	3/8		LB 209,5 **	27 1.06	11 .43	7 .28	16 .63	15 .59	2 .08	6,8 .27	7 .28
	10		1/8	LB 210 **								
	11,1			LB 211,1 **								
	12			LB 212 **								
3	12,7	1/2		LB 312,7 **	34 1.34	15 .59	7 .28	20 .79	22,5 .89	2 .08	6,8 .27	7 .28
	13,5		1/4	LB 313,5 **								
	14			LB 314 **								
	15			LB 315 **								
	16	5/8		LB 316 **								
	17,2		3/8	LB 317,2 **								
	18			LB 318 **								
4	19	3/4		LB 419 **	42 1.65	19 .75	7 .28	20 .79	30 1.18	2 .08	6,8 .27	7 .28
	20			LB 420 **								
	21,3		1/2	LB 421,3 **								
	22			LB 422 **								
	25			LB 425 **								
	25,4	1		LB 425,4 **								

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

Clamp Body ▪ Twin Design



Group	Outside Diameters Pipe / Tube / Hose Ø D1 / Ø D2		Nominal Bore Pipe	Order Codes (1 Clamp Body)	Dimensions (mm/in)						
STAUFF	(mm)	(in)	(in)	(✱✱ = Material)	L1	L2	B	H	S	Ø D3	Ø D4
1	3,2	1/8		LBG 103,2/03,2✱✱	31 1.22	18 .71	12 .47	10,5 .41	2 .08	6,8 .27	7 .28
	6			LBG 106/06✱✱							
	6,4	1/4		LBG 106,4/06,4✱✱							
	8			LBG 108/08✱✱							
2	9,5	3/8		LBG 209,5/09,5✱✱	39 1.54	22 .87	16 .63	15 .59	2 .08	6,8 .27	7 .28
	10		1/8	LBG 210/10✱✱							
	11,1			LBG 211,1/11,1✱✱							
	12			LBG 212/12✱✱							
3	12,7	1/2		LBG 312,7/12,7✱✱	53 2.09	30 1.18	20 .79	22,5 .89	2 .08	6,8 .27	7 .28
	13,5		1/4	LBG 313,5/13,5✱✱							
	14			LBG 314/14✱✱							
	15			LBG 315/15✱✱							
	16	5/8		LBG 316/16✱✱							
	17,2		3/8	LBG 317,2/17,2✱✱							
	18			LBG 318/18✱✱							
4	19	3/4		LBG 419/19✱✱	70 2.76	38 1.50	20 .79	30 1.18	2 .08	6,8 .27	7 .28
	20			LBG 420/20✱✱							
	21,3		1/2	LBG 421,3/21,3✱✱							
	22			LBG 422/22✱✱							
	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 consult STAUFF for further information.

Order Codes

Clamp Body ***LBG*1*03,2/03,2*PP**

* Light Series:	Clamp Body / Twin Design with identical diameters	**LBG**
	Clamp Body / Twin Design with different diameters	**LBU**
* STAUFF Group		**1**
* Exact outside diameters Ø D1 / Ø D2 (mm)		**03,2/03,2**
* Material code (see below)		**PP**

Standard Materials

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

Polyamide
Colour: Yellow
Material code: **PA**

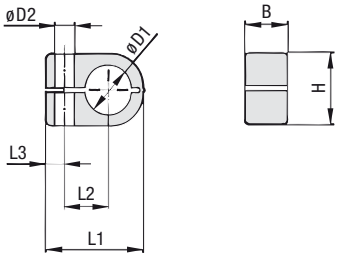
See pages A88 / A89 for material properties and technical information.

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

Applications

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

Clamp Body ▪ Single Design



Order Codes

Clamp Body ***LN*1*06*PP**

* Light Series:	Clamp Body / Single Design	**LN**
* STAUFF Group		**1**
* Exact outside diameter Ø D1 (mm)		**06**
* Material code (see below)		**PP**

Standard Materials

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

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

See pages A88 / A89 for material properties and technical information.

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

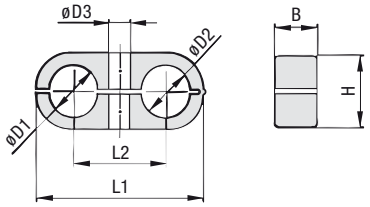
Applications

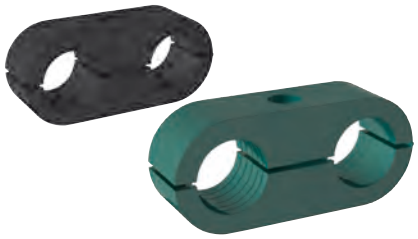
- Pneumatics, Instrumentation and Automotive Technology, Machine Tool Industry, Lubrication, Mechanical Engineering

Group	Outside Diameter Pipe / Tube / Hose Ø D1		Nominal Bore Pipe	Order Codes (1 Clamp Body)	Dimensions (mm/in)					
STAUFF	(mm)	(in)	(in)	(** = Material)	L1	L2	L3	B	H	Ø D2
1	6			LN 106 **	22	9	7	14,5	13,5	6,8
	6,4	1/4		LN 106,4 **	.87	.35	.28	.57	.53	.27
	8			LN 108 **						
2	8			LN 208 **	27	11	7	14,5	18,5	6,8
	9,5	3/8		LN 209,5 **	1.06	.43	.28	.57	.59	.27
	10		1/8	LN 210 **						
	12			LN 212 **						
	12,7	1/2		LN 212,7 **						
3	10		1/8	LN 310 **	33	15	7	14,5	23,5	6,8
	12			LN 312 **	1.30	.59	.28	.57	.93	.27
	12,7	1/2		LN 312,7 **						
	13,5		1/4	LN 313,5 **						
	14			LN 314 **						
	15			LN 315 **						
	16	5/8		LN 316 **						
4	14			LN 414 **	40	19	7	14,5	30,5	6,8
	15			LN 415 **	1.57	.75	.28	.57	1.20	.27
	16	5/8		LN 416 **						
	17,2		3/8	LN 417,2 **						
	18			LN 418 **						
	19	3/4		LN 419 **						
	20			LN 420 **						
	21,3		1/2	LN 421,3 **						
	22			LN 422 **						

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

Clamp Body ▪ Twin Design





Group STAUFF	Outside Diameters Pipe / Tube / Hose Ø D1 / Ø D2 (mm)	(in)	Nominal Bore Pipe (in)	Order Codes (1 Clamp Body) (✱✱ = Material)	Dimensions (mm/in) L1	L2	B	H	Ø D3
1	6			LNGF 106/06 ✱✱	32	18	14,5	13,5	6,8
	6,4	1/4		LNGF 106,4/06,4 ✱✱	1.26	.70	.57	.53	.27
	8			LNGF 108/08 ✱✱					
2	8			LNGF 208/08 ✱✱					
	9,5	3/8		LNGF 209,5/09,5 ✱✱	41	22	14,5	18,5	6,8
	10		1/8	LNGF 210/10 ✱✱	1.61	.86	.57	.73	.27
	12			LNGF 212/12 ✱✱					
	12,7	1/2		LNGF 212,7/12,7 ✱✱					
3	10		1/8	LNGF 310/10 ✱✱					
	12			LNGF 312/12 ✱✱					
	12,7	1/2		LNGF 312,7/12,7 ✱✱					
	13,5		1/4	LNGF 313,5/13,5 ✱✱	54	30	14,5	23,5	6,8
	14			LNGF 314/14 ✱✱	2.13	1.18	.57	.93	.27
	15			LNGF 315/15 ✱✱					
	16	5/8		LNGF 316/16 ✱✱					
4	14			LNGF 414/14 ✱✱					
	15			LNGF 415/15 ✱✱					
	16	5/8		LNGF 416/16 ✱✱					
	17,2		3/8	LNGF 417,2/17,2 ✱✱					
	18			LNGF 418/18 ✱✱	70	38	14,5	30,5	6,8
	19	3/4		LNGF 419/19 ✱✱	2.76	1.50	.57	1.20	.27
	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 consult STAUFF for further information.

Order Codes

Clamp Body ***LNGF*1*06/06*PP**

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

Standard Materials

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

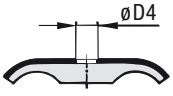
Polyamide
Colour: Black
Material code: **PA**

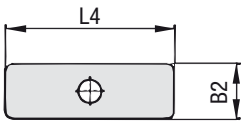
See pages A88 / A89 for material properties and technical information.
Alternative materials are available upon request.
Please consult STAUFF for further information.

Applications

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

Cover Plate Type DPL





Group STAUFF	Dimensions (mm/in) L4	B2	Ø D4	Order Codes (Standard Options)
1	29,5	15,5	6,8	DPL 1 W3
	1.16	.61	.27	
2	40	15,5	6,8	DPL 2 W3
	1.57	.61	.27	
3	51	16	6,8	DPL 3 W3
	2.01	.63	.27	
4	63,5	16	6,8	DPL 4 W3
	2.50	.63	.27	

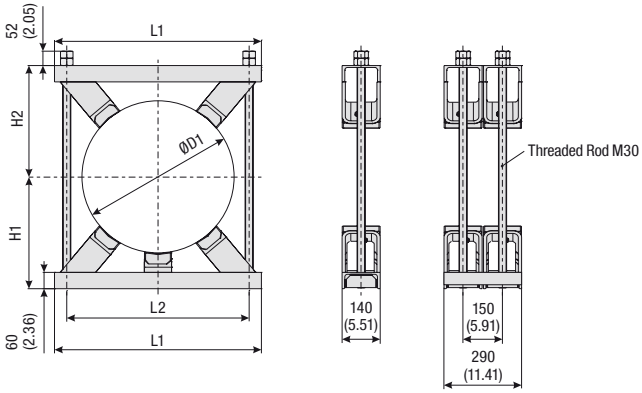
Order Codes

Cover Plate ***DPL*1*W3**

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

Alternative materials and surface finishings are available upon request. Consult STAUFF for further information.
Please note: The maximum tightening torque for bolts is 2,5 N·m (1.85 ft·lb).

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



Order Codes

Construction Series ***KS*220*W7*PA**

* Version	Single version	**KS**
	Double version	**DKS**
* Exact outside diameter ØD1 (mm)		**220**
* Material Code	Steel, prime coated	**W7**
	Steel, hot-dip galvanised	**W40**
* Material of Plastic Pads (see below)		**PA**

Please note: All items are supplied non-assembled.

Standard Materials for Plastic Pads

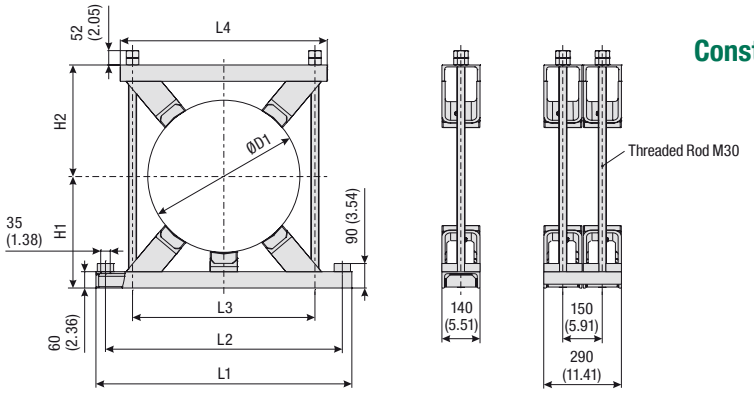
Polyamide
Colour: Black
Material Code: **PA**

See pages A88 / A89 for material properties and technical information.

Group	Outside Diameter ØD1 Pipe / Tube				Dimensions (mm/in)				No. of Plastic Pads
	Diameter Range		Standard Diameters						
STAUFF	(mm)	(in)	(mm)	(in)	L1	L2	H1	H2	
1	220 ... 275	8.66 ... 10.85	220	8.66	420	330	220	220	4
			247	9.72	16.54	12.99	8.66	8.66	
			267	10.51					
			273	10.75					
2	276 ... 325	10.87 ... 12.80	280	11.02	460	370	240	240	4
			300	11.81	18.11	14.57	9.45	9.45	
			318	12.52					
			323,9	12.75					
3	326 ... 370	12.83 ... 14.57	355,6	14.00	510	420	260	260	4
			368	14.49	20.08	16.53	10.23	10.23	
4	371 ... 425	14.61 ... 16.73	390	15.35	570	480	290	290	4
			406,4	16.00	22.44	18.89	11.42	11.42	
5	426 ... 485	16.77 ... 19.09	457,2	18.00	620	530	305	305	4
			470	18.50	24.41	20.87	12.01	12.01	
6	486 ... 550	19.13 ... 21.65	490	19.29	680	590	370	370	4
			508	20.00	26.77	23.23	14.57	14.57	
			521	20.51					
			546	21.50					
7	551 ... 630	21.69 ... 24.80	558,8	22.00	760	670	410	410	5
			609,6	24.00	29.92	26.38	16.14	16.14	
8	631 ... 715	24.84 ... 28.15	711	28.00	845	755	452	452	5
					33.27	29.72	17.80	17.80	
9	716 ... 800	28.19 ... 31.50	762	30.00	940	850	495	495	5
					37.00	33.46	19.49	19.49	
10			813	32.00	990	900	500	500	5
					38.97	35.43	19.69	19.69	
11			1000	39.37	1200	1100	591,5	593	5
					47.24	43.30	23.29	23.34	
12			1016	40.00	1200	1100	602	602	5
					47.24	43.30	23.70	23.70	

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

Dimensional drawings: All dimensions in mm (in).



Construction Series for Anchor Bolt Fastening Types KSV (Single) / DKSV (Double)

Group STAUFF	Outside Diameter ØD1 Pipe / Tube Diameter Range (mm)	(in)	Standard Diameters (mm)	(in)	Dimensions (mm/in) L1	L2	L3	L4	H1	H2	No. of Plastic Pads
1	220 ... 275	8.66 ... 10.85	220	8.66	580	330	490	420	220	220	4
			247	9.72	22.83	12.99	19.29	16.54	8.66	8.66	
			267	10.51							
			273	10.75							
2	276 ... 325	10.87 ... 12.80	280	11.02	620	370	530	460	240	240	4
			300	11.81	24.41	14.57	20.87	18.11	9.45	9.45	
			318	12.52							
			323,9	12.75							
3	326 ... 370	12.83 ... 14.57	355,6	14.00	670	420	580	510	260	260	4
			368	14.49	26.38	16.53	22.83	20.08	10.23	10.23	
4	371 ... 425	14.61 ... 16.73	390	15.35	750	480	640	570	290	290	4
			406,4	16.00	29.53	18.89	25.20	22.44	11.42	11.42	
5	426 ... 485	16.77 ... 19.09	457,2	18.00	800	530	730	620	305	305	4
			470	18.50	31.50	20.87	28.74	24.41	12.01	12.01	
6	486 ... 550	19.13 ... 21.65	490	19.29	860	590	790	680	370	370	4
			508	20.00	33.86	23.23	31.10	26.77	14.57	14.57	
			521	20.51							
			546	21.50							
7	551 ... 630	21.69 ... 24.80	558,8	22.00	940	670	870	760	410	410	5
			609,6	24.00	37.00	26.38	34.25	29.92	16.14	16.14	
8	631 ... 715	24.84 ... 28.15	711	28.00	1025	755	955	845	452	452	5
					40.31	29.72	37.60	33.27	17.80	17.80	
9	716 ... 800	28.19 ... 31.50	762	30.00	1120	850	1050	940	495	495	5
					44.09	33.46	41.33	37.00	19.49	19.49	
10			813	32.00	1170	900	1100	990	500	500	5
					46.06	35.43	43.30	38.97	19.69	19.69	
11			1000	39.37	1400	1100	1300	1200	591,5	593	5
					55.12	43.30	51.18	47.24	23.29	23.34	
12			1016	40.00	1400	1100	1300	1200	602	602	5
					55.12	43.30	51.18	47.24	23.70	23.70	

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

Order Codes

Construction Series ***KSV*220*W7*PA**

* Version	Single version	**KSV**
	Double version	**DKSV**
* Exact outside diameter ØD1 (mm)		**220**
* Material Code	Steel, prime coated	**W7**
	Steel, hot-dip galvanised	**W40**
* Material of Plastic Pads (see below)		**PA**

Please note: All items are supplied non-assembled.

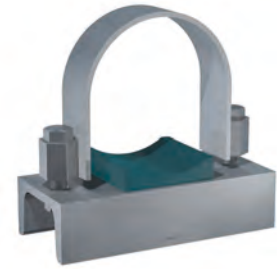
Standard Materials for Plastic Pads

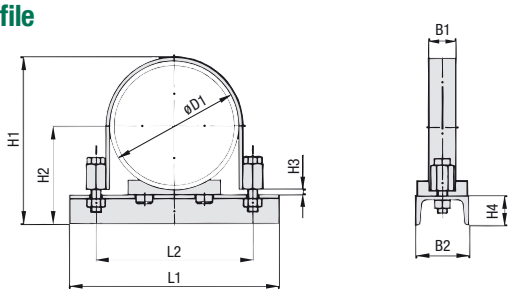
Polyamide
Colour: Black
Material Code: **PA**

See pages A88 / A89 for material properties and technical information.

Dimensional drawings: All dimensions in mm (in).

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





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

Order Codes

Clamp Assembly ***FB+RUK*PP*48,3*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**
* Material of Pipe Saddle (see below)		**PP**
* Exact outside diameter Ø D1 (mm)		**48,3**
* Material code	Carbon Steel, untreated	**W1**
	Carbon Steel, zinc-plated	**W3**
	Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)	**W5**
	Carbon Steel, Plastic coated	**W6**

Please note: The U-Profile (to DIN 1026) is made of Carbon Steel, untreated. All items are supplied non-assembled.

Standard Materials for Plastic Pipe Saddles

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

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

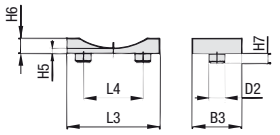
See pages A88 / A89 for material properties and technical information.

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

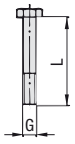
Diameter Nominal DN	Outside Diameter Pipe / Tube Ø D1 (mm)	(in)	Nominal Bore Pipe (in)	Dimensions (mm/in) Flat Steel U-Bolt (Type FB) L1	L2	H1	H2	H3	B1	U-Profile (DIN 1026) B2 x H4
40	**48,3**	1.93	1-1/2	100	76	95	67	5	20 x 3	50 x 38
				3.94	2.99	3.74	2.64	.20	.78 x .12	1.97 x 1.50
50	**57**	2.28		115	85	103	71,5	5	20 x 3	50 x 38
				4.53	3.35	4.06	2.81	.20	.78 x .12	1.97 x 1.50
	60,3	2.41	2	115	88	106	73,2	5	20 x 3	50 x 38
				4.53	3.46	4.17	2.88	.20	.78 x .12	1.97 x 1.50
65	**76,1**	3.04	2-1/2	132	104	122	81	5	20 x 3	50 x 38
				5.20	4.09	4.80	3.19	.20	.78 x .12	1.97 x 1.50
80	**88,9**	3.56	3	160	122	146	97,5	8	40 x 4	80 x 45
				6.30	4.80	5.75	3.84	.31	1.57 x .16	3.15 x 1.77
100	**108**	4.32		170	140	165	107	8	40 x 4	80 x 45
				6.69	5.51	6.50	4.21	.31	1.57 x .16	3.15 x 1.77
	114,3	4.57	4	180	147	171	110	8	40 x 4	80 x 45
				7.09	5.79	6.73	4.33	.31	1.57 x .16	3.15 x 1.77
125	**133**	5.32		210	165	190	119,5	8	40 x 4	80 x 45
				8.27	6.50	7.48	4.70	.31	1.57 x .16	3.15 x 1.77
	139,7	5.59	5	210	172	197	123	8	40 x 4	80 x 45
				8.27	6.77	7.76	4.84	.31	1.57 x .16	3.15 x 1.77
150	**159**	6.36		265	201	220	132,5	8	40 x 6	80 x 45
				1.43	7.91	8.66	5.22	.31	1.57 x .24	3.15 x 1.77
	168,3	6.73	6	275	211	230	137	8	40 x 6	80 x 45
				1.83	8.31	9.06	5.39	.31	1.57 x .24	3.15 x 1.77
175	**193,7**	7.75		305	236	255	150	8	40 x 6	80 x 45
				12.01	9.29	1.04	5.91	.31	1.57 x .24	3.15 x 1.77
200	**216**	8.64		320	260	277	161	8	40 x 6	80 x 45
				12.60	1.24	1.91	6.34	.31	1.57 x .24	3.15 x 1.77
	219,1	8.76	8	320	261	280	162,5	8	40 x 6	80 x 45
				12.60	1.28	11.02	6.40	.31	1.57 x .24	3.15 x 1.77
250	**267**	10.68		380	325	328	186,5	8	40 x 8	80 x 45
				14.96	12.80	12.91	7.34	.31	1.57 x .31	3.15 x 1.77
	273	10.92	10	385	330	334	189,5	8	40 x 8	80 x 45
				15.16	12.99	13.15	7.46	.31	1.57 x .31	3.15 x 1.77
300	**318**	12.72		440	375	382	212	8	40 x 8	80 x 45
				17.32	14.76	15.04	8.35	.31	1.57 x .31	3.15 x 1.77
	323,9	12.96	12	450	382	390	215	8	40 x 8	80 x 45
				17.72	15.04	15.35	8.46	.31	1.57 x .31	3.15 x 1.77
350	**355,6**	14.22	14	480	420	421	235	12	60 x 8	100 x 50
				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
400	**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
	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
500	**508**	20.32	20	630	570	574	312	12	60 x 8	100 x 50
				24.80	22.44	22.60	12.28	.47	2.36 x .31	3.94 x 1.97
	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

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

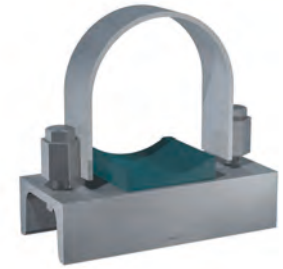
Flat Steel U-Bolt with Plastic Pipe Saddle (Short) and U-Profile
(To be used as Fixed Point Clamps only) **Type FB+RUK**



Plastic Pipe Saddle (type RUK)
(For size DN 40, dimension L4 is staggered by 90°)



Hexagon Head Bolt AS
(according to DIN EN ISO 4014 / 4017)



Diameter Nominal DN	Outside Diameter Pipe / Tube Ø D1 (mm)	(in)	Nominal Bore Pipe (in)	Dimensions (mm/in) Plastic Pipe Saddle (type RUK) L3	L4	B3	D2	H5	H6	H7	Hexagon Head Bolt (DIN EN ISO 4014 / 4017) Thread G x L
40	**48,3**	1.93	1-1/2	24	25	35	8	5	8	5	M10 x 40
				.94	.98	1.38	.31	.20	.31	.20	
50	**57**	2.28		38	25	50	10	5	10	6	M10 x 40
				1.50	.98	1.97	.39	.20	.39	.24	
	60,3	2.41	2	38	25	50	10	5	10	6	M10 x 40
				1.50	.98	1.97	.39	.20	.39	.24	
65	**76,1**	3.04	2-1/2	38	25	50	10	5	10	6	M10 x 40
				1.50	.98	1.97	.39	.20	.39	.24	
80	**88,9**	3.56	3	75	40	70	15	8	17	10	M 12 x 55
				2.95	1.57	2.76	.59	.31	.67	.39	
100	**108**	4.32		75	40	70	15	8	17	10	M 12 x 55
				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	
125	**133**	5.32		75	40	70	15	8	17	10	M 12 x 55
				2.95	1.57	2.76	.59	.31	.67	.39	
	139,7	5.59	5	75	40	70	15	8	17	10	M 12 x 55
				2.95	1.57	2.76	.59	.31	.67	.39	
150	**159**	6.36		140	90	75	25	8	26	10	M 16 x 75
				5.51	3.54	2.95	.98	.31	1.02	.39	
	168,3	6.73	6	140	90	75	25	8	26	10	M 16 x 75
				5.51	3.54	2.95	.98	.31	1.02	.39	
175	**193,7**	7.75		140	90	75	25	8	26	10	M 16 x 75
				5.51	3.54	2.95	.98	.31	1.02	.39	
200	**216**	8.64		140	90	75	25	8	26	10	M 16 x 75
				5.51	3.54	2.95	.98	.31	1.02	.39	
	219,1	8.76	8	140	90	75	25	8	26	10	M 16 x 75
				5.51	3.54	2.95	.98	.31	1.02	.39	
250	**267**	10.68		140	90	75	25	8	26	10	M 20 x 80
				5.51	3.54	2.95	.98	.31	1.02	.39	
	273	10.92	10	140	90	75	25	8	26	10	M 20 x 80
				5.51	3.54	2.95	.98	.31	1.02	.39	
300	**318**	12.72		220	150	75	30	8	32	10	M 20 x 80
				8.66	5.91	2.95	1.18	.31	1.26	.39	
	323,9	12.96	12	220	150	75	30	8	32	10	M 20 x 80
				8.66	5.91	2.95	1.18	.31	1.26	.39	
350	**355,6**	14.22	14	220	150	75	30	8	32	10	M 24 x 100
				8.66	5.91	2.95	1.18	.31	1.26	.39	
	368	14.72		220	150	75	30	8	32	10	M 24 x 100
				8.66	5.91	2.95	1.18	.31	1.26	.39	
400	**406,4**	16.26	16	220	150	75	30	8	32	10	M 24 x 100
				8.66	5.91	2.95	1.18	.31	1.26	.39	
	419	16.76		220	150	75	30	8	32	10	M 24 x 100
				8.66	5.91	2.95	1.18	.31	1.26	.39	
	457	18.28	18	220	150	75	30	8	32	10	M 24 x 100
				8.66	5.91	2.95	1.18	.31	1.26	.39	
500	**508**	20.32	20	220	150	75	30	8	32	10	M 24 x 100
				8.66	5.91	2.95	1.18	.31	1.26	.39	
	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	

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

Order Codes

only Flat Steel U-Bolt ***FB*A=48,3*W1**

* Flat Steel U-Bolt		**FB**
* Exact outside diameter Ø D1 (mm)		**A=48,3**
* Material code	Carbon Steel, untreated	**W1**
	Carbon Steel, zinc-plated	**W3**
	Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)	**W5**
	Carbon Steel, Plastic coated	**W6**

only Plastic Pipe Saddle ***RUK*48,3*PP**

* Plastic Pipe Saddle (Short)	**RUK**
* Exact outside diameter Ø D1 (mm)	**48,3**
* Material of Pipe Saddle (see below)	**PP**

Please note: All items are supplied non-assembled.

Standard Materials for Plastic Pipe Saddles

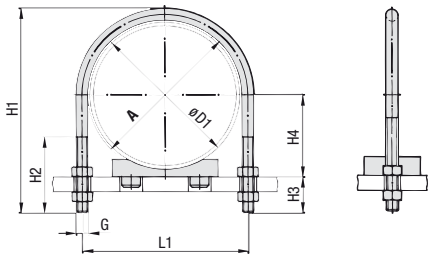
Polypropylene
Colour: Green
Material code: **PP**

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

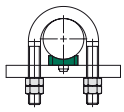
See pages A88 / A89 for material properties and technical information.

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

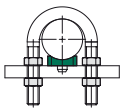
Round Steel U-Bolt with Plastic Pipe Saddle (Short) Type RB+RUK



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



Recommended Installation <DN25



Recommended Installation >DN25

Order Codes

Clamp Assembly ***RB*W1*RUK/*PP*48,3**

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).

* Round Steel U-Bolt		**RB**
* Material code	Carbon Steel, untreated	**W1**
	Carbon Steel, zinc-plated	**W3**
	Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)	**W5**
	Carbon Steel, Plastic coated	**W6**
* Plastic Pipe Saddle (Short)		**RUK/**
* Material of Pipe Saddle (see below)		**PP**
* Exact outside diameter Ø D1 (mm)		**48,3**

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**

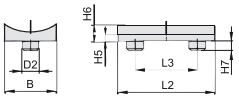
See pages A88 / A89 for material properties and technical information.

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

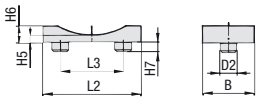
Diameter Nominal	Outside Diameter Pipe / Tube Ø D1		Nominal Bore Pipe	Dimensions (mm/in) Round Steel U-Bolt (Type RB)						
DN	(mm)	(in)	(in)	A	L1	H1	H2	H3	H4	Thread G
20	**25**	.98		**30**	40	73,5	41	30	17,5	M10
					1.57	2.89	1.61	1.18	.69	
	26,9	1.06	3/4	1.18	40	73,5	41	30	18,5	M10
					1.57	2.89	1.61	1.18	.73	
25	**30**	1.18		**38**	48	81	48	30	20	M10
					1.89	3.19	1.89	1.18	.79	
	33,7	1.33	1	1.50	48	81	48	30	22	M10
					1,89	3,19	1,89	1,18	.87	
32	**38**	1.50		**46**	56	89	48	30	24	M10
					2.20	3.50	1.89	1.18	.94	
	42,4	1.69	1-1/4	1.81	56	89	48	30	26,2	M10
					2.20	3.50	1.89	1.18	1.03	
40	**44,5**	1.76		**52**	62	100	55	35	27,2	M10
					2.44	3.94	2.17	1.38	1.07	
	48,3	1.90	1-1/2	2.05	62	100	55	35	29	M10
					2.44	3.94	2.17	1.38	1.14	
50	**57**	2.28		**64**	76	118	63	39	33,5	M12
					2.99	4.65	2.48	1.54	1.32	
	60,3	2.41	2	2.52	76	118	63	39	35,2	M12
					2.99	4.65	2.48	1.54	1.39	
65	**76,1**	3.04	2-1/2	**82**	94	135	77	39	43	M12
				3.23	3.70	5.31	3.03	1.54	1.69	
80	**88,9**	3.56	3	**94**	106	152	82	41	52,5	M12
				3.70	4.17	5.98	3.23	1.61	2.07	
100	**108**	4.32		**120**	136	190	105	49	62	M16
					5.35	7.48	4.13	1.93	2.44	
	114,3	4.57	4	4.72	136	190	105	49	65	M16
					5.35	7.48	4.13	1.93	2.56	
125	**133**	5.32		**148**	164	217	105	49	74,5	M16
					6.46	8.54	4.13	1.93	2.93	
	139,7	5.59	5	5.83	164	217	105	49	78	M16
					6.46	8.54	4.13	1.93	3.07	
150	**159**	6.36		**176**	192	247	105	51	87,5	M16
					7.56	9.72	4.13	2.01	3.44	
	168,3	6.73	6	6.93	192	217	105	51	92	M16
					7.56	8.54	4.13	2.01	3.62	
175	**193,7**	7.75		**202**	218	273	105	51	105	M16
				7.96	8.58	10.75	4.13	2.01	4.13	
200	**216**	8.64		**228**	248	311	125	59	116	M20
					9.76	12.24	4.92	2.32	4.57	
	219,1	8.76	8	8.98	248	311	125	59	117,5	M20
					9.76	12.24	4.92	2.32	4.63	
250	**267**	10.68		**282**	303	364	125	59	141,5	M20
					11.93	14.33	4.92	2.32	5.57	
	273	10.92	10	11.10	302	364	125	59	144,5	M20
					11.89	14.33	4.92	2.32	5.69	
300	**318**	12.72		**332**	352	418	125	62	167	M20
					13.86	16.46	4.92	2.44	6.57	
	323,9	12.96	12	13.07	352	418	125	62	170	M20
					13.86	16.46	4.92	2.44	6.69	
350	**355,6**	14.22	14	**378**	402	475	145	70	186	M24
					15.83	18.70	5.71	2.76	7.32	
	368	14.72		14.88	402	475	145	70	192	M24
					15.83	18.70	5.71	2.76	7.56	
400	**406,4**	16.26	16	**428**	452	526	145	70	211	M24
					17.80	20.71	5.71	2.76	8.31	
	419	16.76		16.85	452	526	145	70	217,5	M24
					17.80	20.71	5.71	2.76	8.56	
500	**508**	20.32	20	**530**	554	627	145	70	262	M24
					21.81	24.69	5.71	2.76	10.31	
	521	20.84		20.87	554	627	145	70	269	M24
					21.81	24.69	5.71	2.76	10.59	

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

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



Plastic Pipe Saddle (type RUK)
(For sizes DN 20 to DN 40)



Plastic Pipe Saddle (type RUK)
(From size DN 50 on)

Diameter Nominal	Outside Diameter Pipe / Tube Ø D1		Nominal Bore Pipe	Dimensions (mm/in) Plastic Pipe Saddle (Type RUK)							
DN	(mm)	(in)	(in)	A	L2	L3	B	H5	H6	H7	D2
20	**25**	.98		**30**	35	25	24	5	8	5	8
					1.38	.98	.94	.20	.31	.20	.31
	26,9	1.06	3/4	1.18	35	25	24	5	8	5	8
					1.38	.98	.94	.20	.31	.20	.31
25	**30**	1.18		**38**	35	25	24	5	8	5	8
					1.38	.98	.94	.20	.31	.20	.31
	33,7	1.33	1	1.50	35	25	24	5	8	5	8
					1.38	.98	.94	.20	.31	.20	.31
32	**38**	1.50		**46**	35	25	24	5	8	5	8
					1.38	.98	.94	.20	.31	.20	.31
	42,4	1.69	1-1/4	1.81	35	25	24	5	8	5	8
					1.38	.98	.94	.20	.31	.20	.31
40	**44,5**	1.76		**52**	35	25	24	5	8	5	8
					1.38	.98	.94	.20	.31	.20	.31
	48,3	1.90	1-1/2	2.05	35	25	24	5	8	5	8
					1.38	.98	.94	.20	.31	.20	.31
50	**57**	2.28		**64**	38	25	50	5	10	6	10
					1.50	.98	1.97	.20	.39	.24	.39
	60,3	2.41	2	2.52	38	25	50	5	10	6	10
					1.50	.98	1.97	.20	.39	.24	.39
65	**76,1**	3.04	2-1/2	**82**	38	25	50	5	10	6	10
				3.23	1.50	.98	1.97	.20	.39	.24	.39
80	**88,9**	3.56	3	**94**	75	40	70	8	17	10	15
				3.70	2.95	1.57	2.76	.31	.67	.39	.59
100	**108**	4.32		**120**	75	40	70	8	17	10	15
					2.95	1.57	2.76	.31	.67	.39	.59
	114,3	4.57	4	4.72	75	40	70	8	17	10	15
					2.95	1.57	2.76	.31	.67	.39	.59
125	**133**	5.32		**148**	75	40	70	8	17	10	15
					2.95	1.57	2.76	.31	.67	.39	.59
	139,7	5.59	5	5.83	75	40	70	8	17	10	15
					2.95	1.57	2.76	.31	.67	.39	.59
150	**159**	6.36		**176**	140	90	75	8	26	10	25
					5.51	3.54	2.95	.31	1.02	.39	.98
	168,3	6.73	6	6.93	140	90	75	8	26	10	25
					5.51	3.54	2.95	.31	1.02	.39	.98
175	**193,7**	7.75		**202**	140	90	75	8	26	10	25
				7.96	5.51	3.54	2.95	.31	1.02	.39	.98
200	**216**	8.64		**228**	140	90	75	8	26	10	25
					5.51	3.54	2.95	.31	1.02	.39	.98
	219,1	8.76	8	8.98	140	90	75	8	26	10	25
					5.51	3.54	2.95	.31	1.02	.39	.98
250	**267**	1.68		**282**	140	90	75	8	26	10	25
					5.51	3.54	2.95	.31	1.02	.39	.98
	273	1.92	10	11.10	140	90	75	8	26	10	25
					5.51	3.54	2.95	.31	1.02	.39	.98
300	**318**	12.72		**332**	220	150	75	8	32	10	30
					8.66	5.91	2.95	.31	1.26	.39	1.18
	323,9	12.96	12	13.07	220	150	75	8	32	10	30
					8.66	5.91	2.95	.31	1.26	.39	1.18
350	**355,6**	14.22	14	**378**	220	150	75	8	32	10	30
					8.66	5.91	2.95	.31	1.26	.39	1.18
	368	14.72		14.88	220	150	75	8	32	10	30
					8.66	5.91	2.95	.31	1.26	.39	1.18
400	**406,4**	16.26	16	**428**	220	150	75	8	32	10	30
					8.66	5.91	2.95	.31	1.26	.39	1.18
	419	16.76		16.85	220	150	75	8	32	10	30
					8.66	5.91	2.95	.31	1.26	.39	1.18
500	**508**	2.32	20	**530**	220	150	75	8	32	10	30
					8.66	5.91	2.95	.31	1.26	.39	1.18
	521	2.84		2.87	220	150	75	8	32	10	30
					8.66	5.91	2.95	.31	1.26	.39	1.18

Order Codes

only Round Steel U-Bolt ***RB*W3*A 52*KOMPL**

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

* Round Steel U-Bolt		**RB**
* Material code	Carbon Steel, untreated	**W1**
	Carbon Steel, zinc-plated	**W3**
	Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)	**W5**
	Carbon Steel, Plastic coated	**W6**
* Dimension A (mm)		**A 52**

only Plastic Pipe Saddle ***RUK*48,3*PP**

* Plastic Pipe Saddle (Short)	**RUK**
* Exact outside diameter Ø D1 (mm)	**48,3**
* Material of Pipe Saddle (see below)	**PP**

Standard Materials for Plastic Pipe Saddles

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

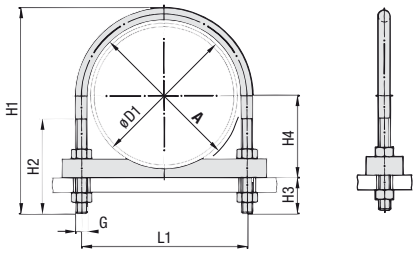
Polyamide
Colour: Black
Material code: **PA**

See pages A88 / A89 for material properties and technical information.

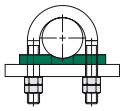
Alternative materials are available upon request. Please consult STAUFF for further information.

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

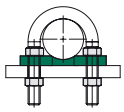
Round Steel U-Bolt with Plastic Pipe Saddle (Long) Type RB+RUL



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



Recommended Installation <DN50



Recommended Installation >DN50

Order Codes

Clamp Assembly ***RB*W1*RUL/*PP*48,3**

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).

* Round Steel U-Bolt		**RB**
* Material code	Carbon Steel, untreated	**W1**
	Carbon Steel, zinc-plated	**W3**
	Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)	**W5**
	Carbon Steel, Plastic coated	**W6**
* Plastic Pipe Saddle (Long)		**RUL/**
* Material of Pipe Saddle (see below)		**PP**
* Exact outside diameter Ø D1 (mm)		**48,3**

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**

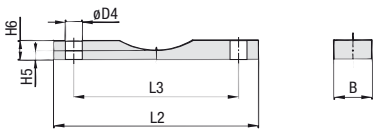
See pages A88 / A89 for material properties and technical information.

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

Diameter Nominal DN	Outside Diameter Pipe / Tube Ø D1 (mm)	(in)	Nominal Bore Pipe (in)	Dimensions (mm/in) Round Steel U-Bolt (Type RB) A	L1	H1	H2	H3	H4	Thread G
20	**25**	.98		**30**	40	73,5	41	30	17,5	M10
					1.57	2.89	1.61	1.18	.69	
	26,9	1.06	3/4	1.18	40	73,5	41	30	18.5	M10
					1.57	2.89	1.61	1.18	.73	
25	**30**	1.18		**38**	48	81	48	30	20	M10
					1.89	3.19	1.89	1.18	.79	
	33,7	1.33	1	1.50	48	81	48	30	22	M10
					1.89	3.19	1.89	1.18	.87	
32	**38**	1.50		**46**	56	89	48	30	24	M10
					2.20	3.50	1.89	1.18	.94	
	42,4	1.69	1-1/4	1.81	56	89	48	30	26,2	M10
					2.20	3.50	1.89	1.18	1.03	
40	**44,5**	1.76		**52**	62	100	55	35	27,2	M10
					2.44	3.94	2.17	1.38	1.07	
	48,3	1.90	1-1/2	2.05	62	100	55	35	29	M10
					2.44	3.94	2.17	1.38	1.14	
50	**57**	2.28		**64**	76	118	63	39	33,5	M12
					2.99	4.65	2.48	1.54	1.32	
	60,3	2.41	2	2.52	76	118	63	39	35,2	M12
					2.99	4.65	2.48	1.54	1.39	
65	**76,1**	3.04	2-1/2	**82**	94	135	77	39	43	M12
				3.23	3.70	5.31	3.03	1.54	1.69	
80	**88,9**	3.56	3	**94**	106	152	82	39	54,5	M12
				3.70	4.17	5.98	3.23	1.54	2.15	
100	**108**	4.32		**120**	136	190	105	47	64	M16
					5.35	7.48	4.13	1.85	2.52	
	114,3	4.57	4	4.72	136	190	105	47	67	M16
					5.35	7.48	4.13	1.85	2.64	
125	**133**	5.32		**148**	164	217	105	47	76,5	M16
					6.46	8.54	4.13	1.85	3.01	
	139,7	5.59	5	5.83	164	217	105	47	80	M16
					6.46	8.54	4.13	1.85	3.15	
150	**159**	6.36		**176**	192	247	105	47	91,5	M16
					7.56	9.72	4.13	1.85	3.60	
	168,3	6.73	6	6.93	192	217	105	47	96	M16
					7.56	8.54	4.13	1.85	3.78	
175	**193,7**	7.75		**202**	218	273	105	47	109	M16
				7.96	8.58	10.75	4.13	1.85	4.29	
200	**216**	8.64		**228**	248	311	125	55	120	M20
					9.76	12.24	4.92	2.17	4.72	
	219,1	8.76	8	8.98	248	311	125	55	121,5	M20
					9.76	12.24	4.92	2.17	4.78	
250	**267**	10.68		**282**	303	364	125	55	145,5	M20
					11.93	14.33	4.92	2.17	5.73	
	273	10.92	10	11.10	302	364	125	55	148,5	M20
					11.89	14.33	4.92	2.17	5.85	
300	**318**	12.72		**332**	352	418	125	55	174	M20
					13.86	16.46	4.92	2.17	6.85	
	323,9	12.96	12	13.07	352	418	125	55	177	M20
					13.86	16.46	4.92	2.17	6.97	
350	**355,6**	14.22	14	**378**	402	475	145	63	193	M24
					15.83	18.70	5.71	2.48	7.60	
	368	14.72		14.88	402	475	145	63	199	M24
					15.83	18.70	5.71	2.48	7.83	
400	**406,4**	16.26	16	**428**	452	526	145	63	218	M24
					17.80	20.71	5.71	2.48	8.58	
	419	16.76		16.85	452	526	145	63	224,5	M24
					17.80	20.71	5.71	2.48	8.84	
500	**508**	20.32	20	**530**	554	627	145	63	269	M24
					21.81	24.69	5.71	2.48	10.59	
	521	20.84		20.87	554	627	145	63	276	M24
					21.81	24.69	5.71	2.48	10.87	

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

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



Plastic Pipe Saddle (type RUL)

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

Order Codes

only Round Steel U-Bolt ***RB*W3*A 52*KOMPL**

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

* Round Steel U-Bolt		**RB**
* Material code	Carbon Steel, untreated	**W1**
	Carbon Steel, zinc-plated	**W3**
	Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)	**W5**
	Carbon Steel, Plastic coated	**W6**
* Dimension A (mm)		**A 52**

only Plastic Pipe Saddle ***RUL*48,3*PP**

* Plastic Pipe Saddle (Long)	**RUL**
* Exact outside diameter Ø D1 (mm)	**48,3**
* Material of Pipe Saddle (see below)	**PP**

Standard Materials for Plastic Pipe Saddles

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

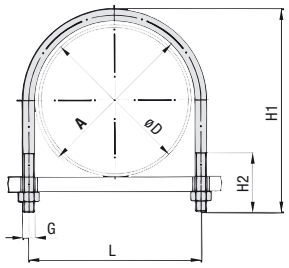
Polyamide
Colour: Black
Material code: **PA**

See pages A88 / A89 for material properties and technical information.

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

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

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



Round Steel U-Bolt (type RBD)

Order Codes

Clamp Assembly ***RBD*W3*A 30*KOMPL**

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

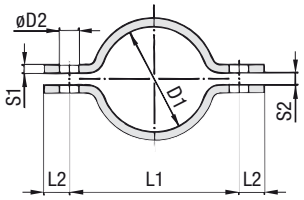
- * Clamp Assembly (as listed above) **RBD**
- * Material code Carbon Steel, untreated **W1**; Carbon Steel, zinc-plated **W3**
- * Dimension A (mm) **A 30**

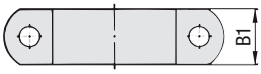
Please note: All items are supplied non-assembled.

Diameter Nominal DN	Outside Diameter Pipe / Tube Ø D1 (mm)	(in)	Nominal Bore Pipe (in)	Dimensions (mm/in) Round Steel U-Bolt (Type RBD) A	L	H1	H2	Thread G
20	**25**	.98		**30**	40	70	40	M10
					1.57	2.76	1.57	
	26,9	1.06	3/4	1.18	40	70	40	M10
					1.57	2.76	1.57	
25	**30**	1.18		**38**	48	76	40	M10
					1.89	2.99	1.57	
	33,7	1.33	1	1.50	48	76	40	M10
					1,89	2.99	1.57	
32	**38**	1.50		**46**	56	86	50	M10
					2.20	3.39	1.97	
	42,4	1.69	1-1/4	1.81	56	86	50	M10
					2.20	3.39	1.97	
40	**44,5**	1.76		**52**	62	92	50	M10
					2.44	3.62	1.97	
	48,3	1.90	1-1/2	2.05	62	92	50	M10
					2.44	3.62	1.97	
50	**57**	2.28		**64**	76	109	50	M12
					2.99	4.29	1.97	
	60,3	2.41	2	2.52	76	109	50	M12
					2.99	4.29	1.97	
65	**76,1**	3.04	2-1/2	**82**	94	125	50	M12
				3.23	3.70	4.92	1.97	
80	**88,9**	3.56	3	**94**	106	138	50	M12
				3.70	4.17	5.43	1.97	
100	**108**	4.32		**120**	136	171	60	M16
					5.35	6.73	2.36	
	114,3	4.57	4	4.72	136	171	60	M16
					5.35	6.73	2.36	
125	**133**	5.32		**148**	164	191	60	M16
					6.46	7.52	2.36	
	139,7	5.59	5	5.83	164	191	60	M16
					6.46	7.52	2.36	
150	**159**	6.36		**176**	192	217	60	M16
					7.56	8.54	2.36	
	168,3	6.73	6	6.93	192	217	60	M16
					7.56	8.54	2.36	
175	**193,7**	7.75		**202**	218	249	60	M16
				7.96	8.58	9.80	2.36	
200	**216**	8.64		**228**	248	283	70	M20
					9.76	11.14	2.76	
	219,1	8.76	8	8.98	248	283	70	M20
					9.76	11.14	2.76	
250	**267**	10.68		**282**	303	334	70	M20
					11.93	13.15	2.76	
	273	10.92	10	11.10	302	334	70	M20
					11.89	13.15	2.76	
300	**318**	12.72		**332**	352	385	70	M20
					13.86	15.16	2.76	
	323,9	12.96	12	13.07	352	385	70	M20
					13.86	15.16	2.76	
350	**355,6**	14.22	14	**378**	402	435	70	M24
					15.83	17.13	2.76	
	368	14.72		14.88	402	435	70	M24
					15.83	17.13	2.76	
400	**406,4**	16.26	16	**428**	452	487	70	M24
					17.80	19.17	2.76	
	419	16.76		16.85	452	487	70	M24
					17.80	19.17	2.76	
500	**508**	20.32	20	**530**	554	589	70	M24
					21.81	23.19	2.76	
	521	20.84		20.87	554	589	70	M24
					21.81	23.19	2.76	

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

Metal Pipe Clamp with Rounded Ends





Order Codes

Clamp Assembly ***DIN 3567 A*-20*W1**

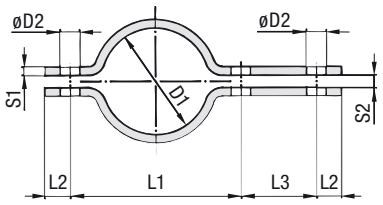
One clamp assembly is consisting of two clamp halves.
Hexagon head bolts and nuts are not included.

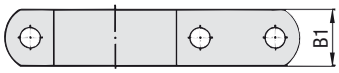
- * Clamp Assembly to DIN 3567, type A — **DIN 3567 A**
- * STAUFF Group (Ø D1) — **-20**
- * Material code Carbon Steel, untreated — **W1**

STAUFF Group Ø D1	Nominal Size (mm)	Nominal Size Pipe (in)	Dimensions (mm/in) L1	L2	S1	S2	D2	B1	Accessories Hexagon Head Bolts (Hexagon Head Nuts)
20	15		57	15	5	7	11.5	30	M10 x 30 (M10) 3/8–16 UNC x 1-1/4 (3/8–16 UNC)
			2.24	.59	.20	.28	.45	1.18	
22			59	15	5	7	11.5	30	
			2.32	.59	.20	.28	.45	1.18	
25	20		62	15	5	7	11.5	30	
			2.44	.59	.20	.28	.45	1.18	
27		3/4	66	15	5	7	11.5	30	
			2.60	.59	.20	.28	.45	1.18	
30	25		68	15	5	7	11.5	30	
			2.68	.59	.20	.28	.45	1.18	
34		1	72	15	5	7	11.5	30	
			2.83	.59	.20	.28	.45	1.18	
38	32		76	15	5	7	11.5	30	
			2.99	.59	.20	.28	.45	1.18	
43		1-1/4	82	15	5	7	11.5	30	
			3.23	.59	.20	.28	.45	1.18	
45	40		84	15	5	7	11.5	30	
			3.31	.59	.20	.28	.45	1.18	
49		1-1/2	88	15	5	7	11.5	30	
			3.46	.59	.20	.28	.45	1.18	
57	50		104	18	6	9	14	40	M12 x 35 (M12) 7/16–14 UNC x 1-3/8 (7/16–14 UNC)
			4.09	.71	.24	.35	.55	1.57	
61	50	2	108	18	6	9	14	40	
			4.25	.71	.24	.35	.55	1.57	
77	65	2-1/2	122	18	6	9	14	40	
			4.80	.71	.24	.35	.55	1.57	
89	80	3	136	18	6	9	14	40	
			5.35	.71	.24	.35	.55	1.57	
108	100		172	24	8	11	18	50	M16 x 45 (M16) 5/8–11 UNC x 1-3/4 (5/8–11 UNC)
			6.77	.94	.31	.43	.71	1.97	
115		4	178	24	8	11	18	50	
			7.01	.94	.31	.43	.71	1.97	
133	125		196	24	8	11	18	50	
			7.72	.94	.31	.43	.71	1.97	
140			204	24	8	11	18	50	
			8.03	.94	.31	.43	.71	1.97	
159	150		222	24	8	11	18	50	
			8.74	.94	.31	.43	.71	1.97	
169			232	24	8	11	18	50	
			9.13	.94	.31	.43	.71	1.97	
194	175		258	24	8	11	18	50	
			10.16	.94	.31	.43	.71	1.97	
216	200		280	24	8	11	18	50	
			11.02	.94	.31	.43	.71	1.97	
220			284	24	8	11	18	50	
			11.18	.94	.31	.43	.71	1.97	
267	250		342	30	8	14	23	60	M20 x 50 (M20) 3/4–10 UNC x 2 (3/4–10 UNC)
			13.46	1.18	.31	.55	.91	2.36	
273			348	30	8	14	23	60	
			13.70	1.18	.31	.55	.91	2.36	
318	300		392	30	8	14	23	60	
			15.43	1.18	.31	.55	.91	2.36	
324			398	30	8	14	23	60	
			15.67	1.18	.31	.55	.91	2.36	
368	350		444	30	8	14	23	60	
			17.48	1.18	.31	.55	.91	2.36	
407	400		498	36	10	18	27	70	M24 x 60 (M24) 7/8–9 UNC 2-3/8 (7/8–9 UNC)
			19.61	1.42	.39	.71	1.06	2.76	
419			510	36	10	18	27	70	
			10.08	1.42	.39	.71	1.06	2.76	
521	500		614	36	10	18	27	70	
			24.17	1.42	.39	.71	1.06	2.76	

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

Metal Pipe Clamp with Rounded Ends and One-Side Elongated Shaft





STAUFF Group Ø D1	Nominal Size (mm)	Nominal Size Pipe (in)	Dimensions (mm/in) L1	L2	L3	S1	S2	D2	B1	Accessories Hexagon Head Bolts (Hexagon Head Nuts)
20	15		57	15	46	5	7	11.5	30	
			2.24	.59	1.81	.20	.28	.45	1.18	
22			59	15	46	5	7	11.5	30	
			2.32	.59	1.81	.20	.28	.45	1.18	
25	20		62	15	46	5	7	11.5	30	
			2.44	.59	1.81	.20	.28	.45	1.18	
27		3/4	66	15	46	5	7	11.5	30	
			2.60	.59	1.81	.20	.28	.45	1.18	
30	25		68	15	46	5	7	11.5	30	M10 x 30 (M10)
			2.68	.59	1.81	.20	.28	.45	1.18	
34		1	72	15	46	5	7	11.5	30	3/8–16 UNC x 1-1/4 (3/8–16 UNC)
			2.83	.59	1.81	.20	.28	.45	1.18	
38	32		76	15	46	5	7	11.5	30	
			2.99	.59	1.81	.20	.28	.45	1.18	
43		1-1/4	82	15	46	5	7	11.5	30	
			3.23	.59	1.81	.20	.28	.45	1.18	
45	40		84	15	46	5	7	11.5	30	
			3.31	.59	1.81	.20	.28	.45	1.18	
49		1-1/2	88	15	46	5	7	11.5	30	
			3.46	.59	1.81	.20	.28	.45	1.18	
57	50		104	18	54	6	9	14	40	
			4.09	.71	2.13	.24	.35	.55	1.57	
61	50	2	108	18	54	6	9	14	40	M12 x 35 (M12)
			4.25	.71	2.13	.24	.35	.55	1.57	
77	65	2-1/2	122	18	54	6	9	14	40	7/16–14 UNC x 1-3/8 (7/16–14 UNC)
			4.80	.71	2.13	.24	.35	.55	1.57	
89	80	3	136	18	54	6	9	14	40	
			5.35	.71	2.13	.24	.35	.55	1.57	
108	100		172	24	70	8	11	18	50	
			6.77	.94	2.76	.31	.43	.71	1.97	
115		4	178	24	70	8	11	18	50	
			7.01	.94	2.76	.31	.43	.71	1.97	
133	125		196	24	70	8	11	18	50	
			7.72	.94	2.76	.31	.43	.71	1.97	
140			204	24	70	8	11	18	50	
			8.03	.94	2.76	.31	.43	.71	1.97	
159	150		222	24	70	8	11	18	50	M16 x 45 (M16)
			8.74	.94	2.76	.31	.43	.71	1.97	5/8–11 UNC x 1-3/4 (5/8–11 UNC)
169			232	24	70	8	11	18	50	
			9.13	.94	2.76	.31	.43	.71	1.97	
194	175		258	24	70	8	11	18	50	
			10.16	.94	2.76	.31	.43	.71	1.97	
216	200		280	24	70	8	11	18	50	
			11.02	.94	2.76	.31	.43	.71	1.97	
220			284	24	70	8	11	18	50	
			11.18	.94	2.76	.31	.43	.71	1.97	
267	250		342	30	86	8	14	23	60	
			13.46	1.18	3.39	.31	.55	.91	2.36	
273			348	30	86	8	14	23	60	
			13.70	1.18	3.39	.31	.55	.91	2.36	M20 x 50 (M20)
318	300		392	30	86	8	14	23	60	3/4–10 UNC x 2 (3/4–10 UNC)
			15.43	1.18	3.39	.31	.55	.91	2.36	
324			398	30	86	8	14	23	60	
			15.67	1.18	3.39	.31	.55	.91	2.36	
368	350		444	30	86	8	14	23	60	
			17.48	1.18	3.39	.31	.55	.91	2.36	
407	400		498	36	104	10	18	27	70	
			19.61	1.42	4.09	.39	.71	1.06	2.76	M24 x 60 (M24)
419			510	36	104	10	18	27	70	7/8–9 UNC 2-3/8 (7/8–9 UNC)
			10.08	1.42	4.09	.39	.71	1.06	2.76	
521	500		614	36	104	10	18	27	70	
			24.17	1.42	4.09	.39	.71	1.06	2.76	

Order Codes

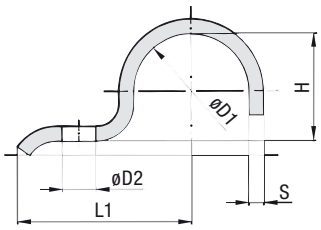
Clamp Assembly ***DIN 3567 B*-20*W1**

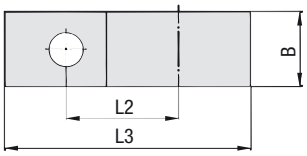
One clamp assembly is consisting of two clamp halves. Hexagon head bolts and nuts are not included.

* Clamp Assembly to DIN 3567, type B		**DIN 3567 B**
* STAUFF Group (Ø D1)		**-20**
* Material code	Carbon Steel, untreated	**W1**

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

Heavy Saddle ▪ Single-Ended Design





Order Codes

Heavy Saddle ***DIN 1592*-7*W66**

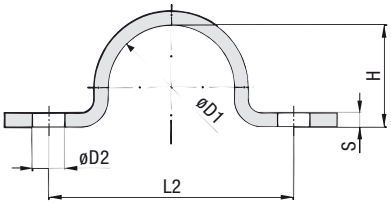
* Heavy Saddle to DIN 1592		**DIN 1592**
* STAUFF Group (Ø D1)		**-7**
* Material code	Carbon Steel, untreated	**W1**
	Carbon Steel, zinc-plated and thick-film passivated	**W66**

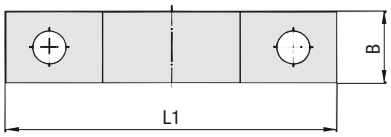
STAUFF Group	Diameter Range		Dimensions (mm/in)						
Ø D1	(mm)	(in)	L1	L2	L3	H	D2	B	S
7	5,5 ... 7	.22 ... .28	22	14	27,5	5	6,6	16	2
			.87	.55	1.08	.20	.26	.63	.08
9	7 ... 9	.28 ... .35	27	18	33,5	6	6,6	20	2
			1.06	.71	1.32	.24	.26	.79	.08
13	9,5 ... 13	.39 ... .51	40	25	49,5	9	11	25	3
			1.57	.98	1.95	.35	.43	.98	.12
15,5	13 ... 15,5	.51 ... .61	41	26	52	12	11	25	3
			1.61	1.02	2.05	.47	.43	.98	.12
19	15,5 ... 19	.61 ... .75	43	28	55,5	15	11	25	3
			1.69	1.10	2.19	.59	.43	.98	.12
23	20 ... 23	.79 ... .91	51	35	67	19	14	30	5
			2.01	1.38	2.64	.75	.55	1.18	.20
26	23 ... 26	.91 ... 1.02	52	36	70	22	14	30	5
			2.05	1.42	2.76	.87	.55	1.18	.20
28,5	26 ... 28,5	1.02 ... 1.12	53	37	73	24	14	30	5
			2.09	1.46	2.87	.94	.55	1.18	.20
31	28,5 ... 31	1.12 ... 1.22	55	39	75,5	27	14	30	5
			2.17	1.54	2.97	1.06	.55	1.18	.20
36	33 ... 36	1.30 ... 1.42	57	41	81	32	14	40	5
			2.24	1.61	3.19	1.26	.55	1.57	.20
39	36 ... 39	1.42 ... 1.54	59	43	83,5	34	14	40	5
			2.32	1.69	3.29	1.34	.55	1.57	.20
43	39 ... 43	1.54 ... 1.69	68	48	94,5	38	18	40	5
			2.68	1.89	3.72	1.50	.71	1.57	.20
46	43 ... 46	1.69 ... 1.81	70	50	98	41	18	40	5
			2.76	1.97	3.86	1.61	.71	1.57	.20
49	46 ... 49	1.81 ... 1.93	73	53	105,5	44	18	40	8
			2.87	2.09	4.15	1.73	.71	1.57	.31
52 *	49 ... 52	1.93 ... 2.05	76	56	110	47	18	40	8
			2.99	2.20	4.33	1.85	.71	1.57	.31
58	53 ... 58	2.09 ... 2.28	78	58	115	52	18	40	8
			3.07	2.28	4.53	2.05	.71	1.57	.31
61	58 ... 61	2.28 ... 2.40	80	60	118,5	57	18	40	8
			3.15	2.36	4.67	2.24	.71	1.57	.31

* Similar to DIN 1592.

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

Heavy Saddle ▪ Double-Ended Design





STAUFF Group	Diameter Range		Dimensions (mm/in)					
Ø D1	(mm)	(in)	L1	L2	H	D2	B	S
7	5,5 ... 7	.22 ... .28	44	28	5	6,6	16	2
			1.73	1.10	.20	.26	.63	.08
9	7 ... 9	.28 ... .35	48	32	6	6,6	20	2
			1.89	1.26	.24	.26	.79	.08
13	9,5 ... 13	.39 ... .51	52	36	9	6,6	20	2
			2.05	1.42	.35	.26	.79	.08
15,5	13 ... 15,5	.51 ... .61	56	40	12	6,6	20	2
			2.20	1.57	.47	.26	.79	.08
19	15,5 ... 19	.61 ... .75	60	44	15	6,6	20	2
			2.36	1.73	.59	.26	.79	.08
23	20 ... 23	.79 ... .91	82	56	19	11	25	3
			3.23	2.20	.75	.43	.98	.12
26	23 ... 26	.91 ... 1.02	84	58	22	11	25	3
			3.31	2.28	.87	.43	.98	.12
28,5	26 ... 28,5	1.02 ... 1.12	90	64	24	11	25	3
			3.54	2.52	.94	.43	.98	.12
31	28,5 ... 31	1.12 ... 1.22	90	64	27	11	25	3
			3.54	2.52	1.06	.43	.98	.12
36	33 ... 36	1.30 ... 1.42	106	80	32	11	30	5
			4.17	3.15	1.26	.43	1.18	.20
39	36 ... 39	1.42 ... 1.54	110	84	34	11	30	5
			4.33	3.31	1.34	.43	1.18	.20
43	39 ... 43	1.54 ... 1.69	120	88	38	14	30	5
			4.72	3.46	1.50	.55	1.18	.20
46	43 ... 46	1.69 ... 1.81	122	90	41	14	30	5
			4.80	3.54	1.61	.55	1.18	.20
49	46 ... 49	1.81 ... 1.93	122	90	44	14	30	5
			4.80	3.54	1.73	.55	1.18	.20
58	53 ... 58	2.09 ... 2.28	142	110	52	14	40	5
			5.59	4.33	2.05	.55	1.57	.20
61	58 ... 61	2.28 ... 2.40	142	110	57	14	40	5
			5.59	4.33	2.24	.55	1.57	.20
71	67 ... 71	2.64 ... 2.80	152	120	66	14	40	5
			5.98	4.72	2.60	.55	1.57	.20
77	73 ... 77	2.87 ... 3.03	176	136	72	18	40	5
			6.93	5.35	2.83	.71	1.57	.20
81	77 ... 81	3.03 ... 3.19	184	144	76	18	40	5
			7.24	5.67	2.99	.71	1.57	.20
91	88 ... 91	3.39 ... 3.58	198	158	85	18	40	8
			7.80	6.22	3.35	.71	1.57	.31
103	99 ... 103	3.90 ... 4.06	214	174	98	18	40	8
			8.43	6.85	3.86	.71	1.57	.31
109	105 ... 109	4.13 ... 4.29	220	180	104	18	40	8
			8.66	7.09	4.09	.71	1.57	.31
115	110 ... 115	4.33 ... 4.53	226	186	109	18	40	8
			8.90	7.32	4.29	.71	1.57	.31

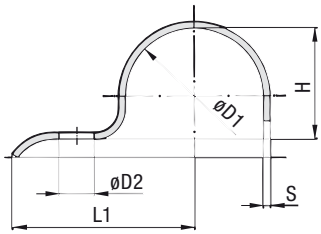
Alternative materials and surface finishings are available upon request. Consult STAUFF for further information.

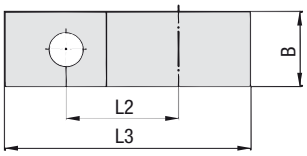
Order Codes

Heavy Saddle ***DIN 1593*-7*W66**

* Heavy Saddle to DIN 1593		**DIN 1593**
* STAUFF Group (Ø D1)		**-7**
* Material code	Carbon Steel, untreated	**W1**
	Carbon Steel, zinc-plated and thick-film passivated	**W66**

Light Saddle ▪ Single-Ended Design





Order Codes

Light Saddle ***DIN 1596*-7*W66**

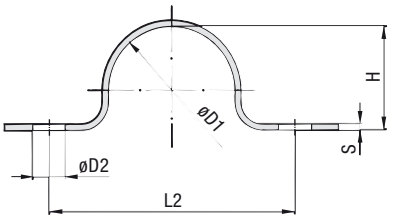
* Light Saddle to DIN 1596		**DIN 1596**
* STAUFF Group (Ø D1)		**-7**
* Material code	Carbon Steel, zinc-plated and thick-film passivated	**W66**

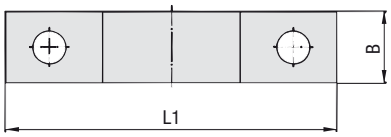
STAUFF Group Ø D1	Diameter Range (mm)	(in)	Dimensions (mm/in) L1	L2	L3	H	D2	B	S
7	5,5 ... 7	.22 ... .28	26	14	31,5	5	6,6	16	2
			1.02	.55	1.24	.20	.26	.63	.08
9	7 ... 9	.28 ... .35	28	16	34,5	6	6,6	16	2
			1.10	.63	1.36	.24	.26	.63	.08
13	9,5 ... 13	.39 ... .51	30	18	38,5	9	6,6	20	2
			1.18	.71	1.52	.35	.26	.79	.08
15,5	13 ... 15,5	.51 ... .61	32	20	41,75	12	6,6	20	2
			1.26	.79	1.64	.47	.26	.79	.08
19	15,5 ... 19	.61 ... .75	34	22	45,5	15	6,6	20	2
			1.34	.87	1.79	.59	.26	.79	.08
23	20 ... 23	.79 ... .91	43	28	57,5	19	9	25	3
			1.69	1.10	2.26	.75	.35	.98	.12
26	23 ... 26	.91 ... 1.02	44	29	60	22	9	25	3
			1.73	1.14	2.36	.87	.35	.98	.12
28,5	26 ... 28,5	1.02 ... 1.12	47	32	64,25	24	9	25	3
			1.85	1.26	2.53	.94	.35	.98	.12
31	28,5 ... 31	1.12 ... 1.22	47	32	65,5	27	9	25	3
			1.85	1.26	2.58	1.06	.35	.98	.12
33 *	31 ... 33	1.22 ...1.30	56	36	75,5	29	9	25	3
			2.20	1.42	2.97	1.14	.35	.98	.12
36	33 ... 36	1.30 ... 1.42	57	40	78	32	11	30	3
			2.24	1.57	3.07	1.26	.43	1.18	.12
39	36 ... 39	1.42 ... 1.54	59	42	81,5	34	11	30	3
			2.32	1.65	3.21	1.34	.43	1.18	.12
43	39 ... 43	1.54 ... 1.69	61	44	85,5	38	11	30	3
			2.40	1.73	3.37	1.50	.43	1.18	.12
46	43 ... 46	1.69 ... 1.81	62	45	88	41	11	30	3
			2.44	1.77	3.46	1.61	.43	1.18	.12
49	46 ... 49	1.81 ... 1.93	67	48	95,5	44	14	40	4
			2.64	1.89	3.76	1.73	.55	1.57	.16
52 *	49 ... 52	1.93 ... 2.05	72	53	102	47	14	40	4
			2.83	2.09	4.02	1.85	.55	1.57	.16
58	53 ... 58	2.09 ... 2.28	76	55	107	52	14	40	4
			2.99	2.17	4.21	2.05	.55	1.57	.16
61	58 ... 61	2.28 ... 2.40	77	58	111,5	56	14	40	4
			3.03	2.28	4.39	2.20	.55	1.57	.16

* Similar to DIN 1596.

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

Light Saddle ▪ Double-Ended Design





STAUFF Group	Diameter Range		Dimensions (mm/in)					
Ø D1	(mm)	(in)	L1	L2	H	D2	B	S
7	5,5 ... 7	.22 ... .28	44	28	5	5,5	16	1,5
			1.73	1.10	.20	.22	.63	.06
9	7 ... 9	.28 ... .35	48	32	6	5,5	16	1,5
			1.89	1.26	.24	.22	.63	.06
13	9,5 ... 13	.39 ... .51	52	36	9	5,5	16	1,5
			2.05	1.42	.35	.22	.63	.06
15,5	13 ... 15,5	.51 ... .61	56	40	12	5,5	16	1.5
			2.20	1.57	.47	.22	.63	.06
19	15,5 ... 19	.61 ... .75	60	44	15	5,5	16	.5
			2.36	1.73	.59	.22	.63	.02
23	20 ... 23	.79 ... .91	76	44	19	6,6	20	2
			2.99	1.73	.75	.26	.79	.08
26	23 ... 26	.91 ... 1.02	78	56	22	6,6	20	2
			3.07	2.20	.87	.26	.79	.08
28,5	26 ... 28,5	1.02 ... 1.12	84	58	24	6,6	20	2
			3.31	2.28	.94	.26	.79	.08
31	28,5 ... 31	1.12 ... 1.22	84	64	27	6,6	20	2
			3.31	2.52	1.06	.26	.79	.08
33 *	31 ... 33	1.22 ...1.30	92	72	29	6,6	20	2
			3.62	2.83	1.14	.26	.79	.08
36	33 ... 36	1.30 ... 1.42	104	80	32	9	25	3
			4.09	3.15	1.26	.35	.98	.12
39	36 ... 39	1.42 ... 1.54	108	84	34	9	25	3
			4.25	3.31	1.34	.35	.98	.12
43	39 ... 43	1.54 ... 1.69	112	88	38	9	25	3
			4.41	3.46	1.50	.35	.98	.12
46	43 ... 46	1.69 ... 1.81	114	90	41	9	25	3
			4.49	3.54	1.61	.35	.98	.12
49	46 ... 49	1.81 ... 1.93	118	90	44	11	30	3
			4.65	3.54	1.73	.43	1.18	.12
52 *	49 ... 52	1.93 ... 2.05	134	106	47	11	30	3
			5.28	4.17	1.85	.43	1.18	.12
58	53 ... 58	2.09 ... 2.28	138	110	52	11	30	3
			5.43	4.33	2.05	.43	1.18	.12
61	58 ... 61	2.28 ... 2.40	138	110	56	11	30	3
			5.43	4.33	2.20	.43	1.18	.12

Order Codes

Light Saddle ***DIN 1597*-7*W66**

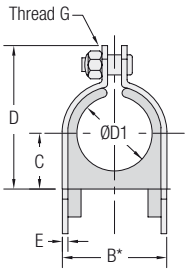
* Light Saddle to DIN 1597		**DIN 1597**
* STAUFF Group (Ø D1)		**-7**
* Material code	Carbon Steel, zinc-plated and thick-film passivated	**W66**

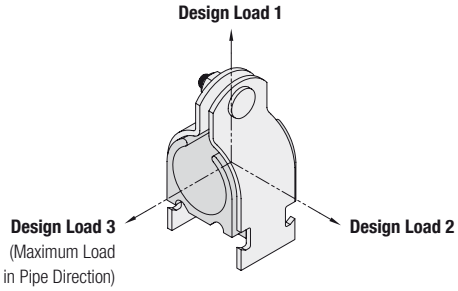
* Similar to DIN 1597.

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

Clamp Assembly ▪ Types STC / SPC

(for Use with Channel Rail SCS)





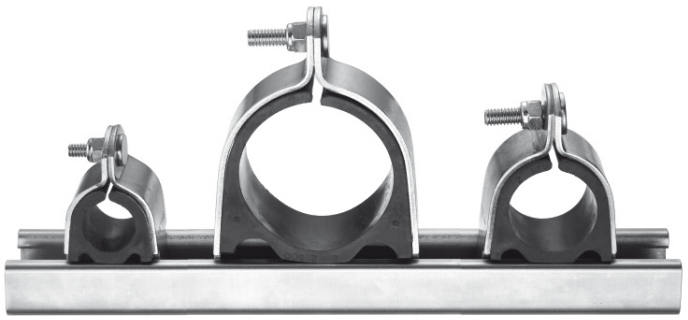
Outside Diameter Pipe / Tube / Hose Ø D1		Nominal Bore Pipe	Order Codes (1 Clamp Assembly)	Dimensions (mm/in)					Design Loads (kN/lbf)		
(mm)	(in)	(in)	(✱✱ = Material Code)	B*	C	D	E	Thread G	1	2	3
6,4	1/4		STC 025 ✱✱ #K	15,7	5,6	28,2	2	1/4–20 UNC	1,78	0,22	0,22
				.62	.22	1.11	.08		400	50	50
8	3/8		STC 037 ✱✱ #K	19,1	7,1	31,5	2	1/4–20 UNC	1,78	0,22	0,22
				.75	.28	1.24	.08		400	50	50
12,7	1/2		STC 050 ✱✱ #K	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	23,1	9,1	35,8	2	1/4–20 UNC	1,78	0,22	0,22
				.91	.36	1.41	.08		400	50	50
16	5/8		STC 062 ✱✱ #K	25,4	10,4	38,1	2	1/4–20 UNC	1,78	0,22	0,22
				1.00	.41	1.50	.08		400	50	50
17,2		3/8	SPC 037 ✱✱ #K	27,2	11,4	40,4	2	1/4–20 UNC	2,67	0,33	0,33
				1.07	.45	1.59	.08		600	75	75
19	3/4		STC 075 ✱✱ #K	33,8	13,5	45,2	2	1/4–20 UNC	2,67	0,33	0,33
				1.33	.53	1.78	.08		600	75	75
21,3		1/2	SPC 050 ✱✱ #K	36,8	15,0	48,5	2	1/4–20 UNC	2,67	0,33	0,33
				1.45	.59	1.91	.08		600	75	75
22,2	7/8		STC 087 ✱✱ #K	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	42,2	16,8	51,6	2,8	1/4–20 UNC	2,67	0,33	0,33
				1.66	.66	2.03	.11		600	75	75
26,9		3/4	SPC 075 ✱✱ #K	45,5	18,3	54,9	2,8	1/4–20 UNC	2,67	0,33	0,33
				1.79	.72	2.16	.11		600	75	75
32	1-1/4		STC 125 ✱✱ #K	48,8	19,8	58,4	2,8	1/4–20 UNC	2,67	0,33	0,33
				1.92	.78	2.30	.11		600	75	75
33,7		1	SPC 100 ✱✱ #K	56,4	23,1	69,9	3	5/16–18 UNC	2,67	0,33	0,33
				2.22	.91	2.75	.12		600	75	75
38	1-1/2		STC 150 ✱✱ #K	56,4	23,1	69,9	3	5/16–18 UNC	2,67	0,33	0,33
				2.22	.91	2.75	.12		600	75	75
42		1-1/4	SPC 125 ✱✱ #K	62,7	26,2	77,0	3	5/16–18 UNC	3,56	0,56	0,56
				2.47	1.03	3.03	.12		800	125	125
48,3		1-1/2	SPC 150 ✱✱ #K	62,7	29,5	83,3	3	5/16–18 UNC	3,56	0,56	0,56
				2.47	1.16	3.28	.12		800	125	125
50,8	2		STC 200 ✱✱ #K	69,1	29,5	83,3	3	5/16–18 UNC	3,56	0,56	0,56
				2.72	1.16	3.28	.12		800	125	125
60,3		2	SPC 200 ✱✱ #K	69,1	35,8	96,0	3	5/16–18 UNC	3,56	0,56	0,56
				3.22	1.41	3.78	.12		800	125	125
63,5	2-1/2		STC 250 ✱✱ #K	88,1	38,9	102,4	3	5/16–18 UNC	3,56	0,56	0,56
				3.47	1.53	4.03	.12		800	125	125
66,7	2-5/8		STC 262 ✱✱ #K	88,1	38,9	102,4	3	5/16–18 UNC	3,56	0,56	0,56
				3.47	1.53	4.03	.12		800	125	125
73		2-1/2	SPC 250 ✱✱ #K	94,5	42,2	108,5	3	5/16–18 UNC	3,56	0,56	0,56
				3.72	1.66	4.27	.12		800	125	125
76,2	3		STC 300 ✱✱ #K	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	110,7	50,0	124,7	3	3/8–16 UNC	4,45	0,89	0,67
				4.36	1.97	4.91	.12		1 000	200	150
102		3-1/2	SPC 350 ✱✱ #K	126,2	57,9	140,5	3	3/8–16 UNC	4,45	0,89	0,67
				4.97	2.28	5.53	.12		1 000	200	150
114		4	SPC 400 ✱✱ #K	138,9	64,3	153,2	3	3/8–16 UNC	4,45	0,89	0,67
				5.47	2.53	6.03	.12		1 000	200	150
140		5	SPC 500 ✱✱ #K	164,3	77,0	178,6	3,6	3/8–16 UNC	4,45	0,89	0,67
				6.47	3.03	7.03	.14		1 000	200	150
168		6	SPC 600 ✱✱ #K	189,7	89,7	204,0	3,6	3/8–16 UNC	4,45	0,89	0,67
				7.47	3.53	8.03	.14		1 000	200	150

* Minimum required for installation.

One clamp assembly is consisting of two carbon steel clamp halves (one with threaded stud), one thermoplastic cushion insert and one lock nut with Nylon insert. Channel rail not included. All threaded parts are only available with unified coarse (UNC) thread. Alternative materials and surface finishings are available upon request. Consult STAUFF for further information.

Clamp Assembly ▪ Types STC / SPC

(for Use with Channel Rail SCS)



Standard Materials

Cushion Insert
Thermoplastic Elastomer (80 Shore-A)
Colour: Black

The cushion material is compatible with most oils, chemicals and cleaning solvents and suitable for applications within a temperature range of -50 °C ... +125 °C (-58 °F ... +257 °F).

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

Product Features

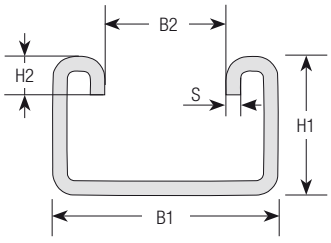
- Clamp assemblies designed to mount directly to 41,3 mm / 1-5/8 in wide strut channels, such as the STAUFF Channel Rail, type SCS
- Suitable for most Fluid Power applications ranging from mobile equipment to industrial machinery
- Reduced horizontal mounting space
- Easy installation and retro fit capability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

Order Codes

Clamp Assembly ***STC-*125-*W4-*#K**

* Type of clamp	STC (Tube diameters) SPC (Pipe diameters)	**STC** **SPC**
* Pipe / Tube O.D.	(according to dimension table)	**125**
* Material code	Carbon Steel, zinc-plated, trivalent blue chromated Stainless Steel V2A 1.4301 (AISI 304) Stainless Steel V4A 1.4401 (AISI 316)	**W3** **W4** **W5**
Assembling	Components packed in kits	**#K**

Channel Rail ▪ Type SCS



Dimensions (mm/in)				
B1	B2	H1	H2	S
41,3	22,2	25,4	7	2,7
1.63 (1-5/8)	.88 (7/8)	1.00	.28	.11

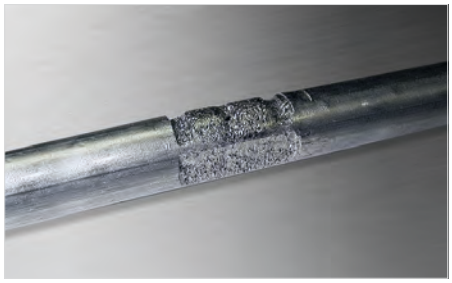
Alternative rail profiles, materials and surface finishings are available upon request. Consult STAUFF for further information.

Order 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, untreated Carbon Steel, green painted	**PL** **GR**

The Issue: Pipework Corrosion



Crevice corrosion formed under a regular plastic clamp

Stainless Steel Pipework

Stainless steel pipework on offshore oil and gas platforms 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 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.

And this is where the STAUFF ACT Clamp comes into play ...

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.

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

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

Conformity

Using flame-retardant PPV0 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), API RP 552 and NACE SP 0108-2008 (section 13).

Field test in the Dutch sector of the North Sea

Norsok Standard Z-010

The Norsok standard Z-010 (Revision 3, published in October 2000 on Electrical, instrumentation and telecommunication installation states the following in section 7.3:

"Tubing clamps shall be made of non-corrosive material, stainless steel AISI 316 and/or flame retardant plastic. Galvanic corrosion between tubing and tubing support system shall be avoided.

The tubing clamp shall, when installed, not allow for water / seawater to be accumulated between tubing and tubing clamp on wall, this is to avoid crevice corrosion."

Corrosion Facts

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

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

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

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

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

The Solution: STAUFF ACT Clamps

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 25,4 mm (from 1/4 inch to 1 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

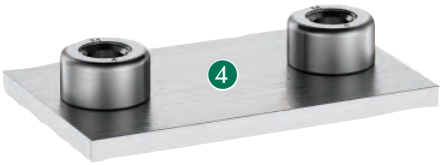
Innovative Design and Materials

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)

❶ Clamp body made of flame-retardant PPV0 plastic material; tested and V0 classified according to UL 94

❷ Integrated ACE anti-corrosion elastomer strips avoid the accumulation of seawater between clamp body and pipe

❸ Drainage channels aid the dispersal of seawater



❹ 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 (only delivered in complete packaging units of 25 pieces per bag to avoid contamination during transport)

High UV stability of the clamp body material; resistant against seawater, rain and oil

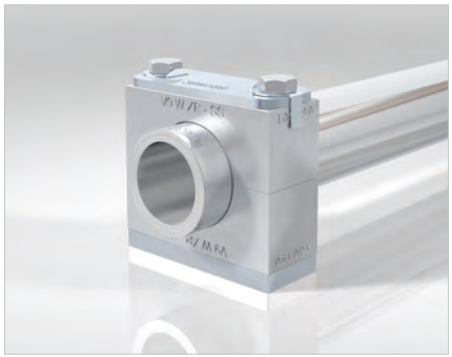
Suitable for continuous exposure to temperatures from -25 °C to +80 °C (from -13 °F to +176 °F)

To be used in sub-sea and top-side environments; alleviating the requirement for two different products

In case that you would like to receive further information on STAUFF ACT Clamps or want to get access to the latest technical literature, please do not hesitate to contact STAUFF by email to **act@stauff.com**.

In order to keep up to date with all the latest related product information and innovations, feel free to visit our website dedicated product website at **www.stauff.com/act**.

Industry-Specific Solutions



Power Plants

STAUFF offers a complete range of Plastic, Aluminium, Steel and Stainless Steel fastening elements for pipes, tubes and hoses in all temperature and pressure ranges, as well as for cables and other components in conventional power plants (lignite, hard coal, gas, water and others) and nuclear facilities.

With many years of experience and numerous references in equipping power plants and nuclear facilities both domestically and abroad, our portfolio ranges from the planning of individual fastening concepts, based on customer or industry-specific requirements, up to multi-stage logistics services.

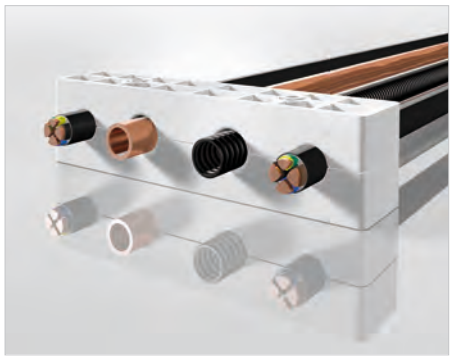
- Fastening of pipes both as pipe slides, longitudinal guides or three-way stops
- Approvals and qualifications of KTA, RCC-M and ASME
- Suitability tested by the TÜV according to technical specifications and KTA 3205.3
- Identification of the products via a unique type-code
- Full tracing of all components and/or materials
- Provided with inspection documents 3.1 as per EN 10204

Wind Power Stations

In addition to the well-known, tried and tested STAUFF clamps for fastening all kind of industrial lines, we also offer industry-specific solutions for the orderly vertical installation of cables in wind power stations. When fastening these lines, special requirements are placed on the components, because the high weight of the cables must be held securely.

With many years of experience and numerous references in equipping wind power stations both domestically and abroad, our portfolio ranges from the planning of individual fastening concepts, based on customer or industry-specific requirements, up to multi-stage logistics services.

- Triangular design of the internal contours of the basic clamp body
- Accommodation of three cables with only a single cable support
- Additional adaptors can be optionally used to the extent that only two cables or lines with smaller external diameters can be fastened
- Fully flexible by always using an identical basic clamp body
- Installation in multiple layers and combination with other components and profiles
- Made of high-quality Plastics, also available in various custom
- materials in order to comply with international fire protection standards (e.g. with UL 94)



Rail Technology

In addition to the well-known, tried and tested STAUFF clamps for fastening all kind of industrial lines, we also offer industry-specific solutions for vibration and noise reducing and impact absorbing installations in rail technology related facilities.

With many years of experience and numerous references in the field of railway transportation system both domestically and abroad, our portfolio ranges from the planning of individual fastening concepts, based on customer or industry-specific requirements, up to multi-stage logistics services.

- Complete solution for all types of industrial lines
- Development in close collaboration with the customers
- Made of high-quality Plastics, also available in various custom materials in order to comply with international fire protection standards
- Amongst others, approvals based on several guidelines received, such as BS 6853, DIN 5510 - Part 2, NF F 16-101 or UL 94
- Depending on the quantities and the respective areas of application, mechanical or injection-moulded manufacturing
- Various fastening accessories made of steel and stainless steel

Process Technology

STAUFF Stainless Steel pipe clamps of the so-called Hi-Clean series were developed specifically for use in industrial clean rooms with the highest demands regarding hygiene and design. They are primarily used in the fields of process engineering and in the food, beverage and pharmaceuticals industry.

Our range of products for process technology applications is completed by the Hi-Clean pipe clamps of the Plastic series.

- Innovative, patent approved design
- Designed to comply with the specifications as defined by ASME-BPE, the American Society of Mechanical Engineers
- Suitable for pipes, tubes and other lines with outer diameters between 6,4 mm and 168,4 mm
- Rounded-off edges and corners to prevent dirt adhesion; no exposed threads or threads covered with acorn nuts
- All Plastic components comply with the specifications of the FDA (Food and Drug Administration of the United States)
- All metal components manufactured from corrosion-resistant stainless steel, upon request with electrolytically high-gloss polished material surfaces

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	10 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	3,8 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! Consult STAUFF for details.

Thermal Properties				
Temperature Resistance (Continuous Exposure, 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 consult STAUFF for further details on fire-proof clamp body materials, tested and approved according to several international fire-protection standards.

See pages A90 / A91 for properties and technical information.

The information for the Polyamide material PA have been determined in a conditioned state according to ISO 1110.
For Aluminium, the tensile strength (under reversed bending stress) and impact bending strength both rise constantly at decreasing temperatures whilst the value for breaking elongation decreases.
STAUFF preserve the right to supply products made from different, but comparable materials with matching technical characteristics.

Standard Clamp Insert Materials

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

STAUFF Group 7S to 10S (Heavy Series)

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

		Mechanical Properties
16 N/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 (Continuous Exposure, 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 consult STAUFF for further details on fire-proof clamp body materials, tested and approved according to several international fire-protection standards.

See pages A90 / A91 for properties and technical information.

Special Clamp Body Materials (Selection)

Preventive Fire Protection



Material Code	PAV0	PA-FF	PPDA
Basic Material	Polyamide	Polyamide	Polypropylene
Standard Colour	Grey	Black	White

Mechanical Properties			
Tensile E-Module	1500 MPa (ISO 527-2)	1100 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)	20 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)	50 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)	100 N/mm² (ISO 2039-1)	
Shore Hardness			

Thermal Properties			
Temperature Resistance (Continuous Exposure, Min ... Max)	-30 °C ... +120 °C / -22 °F ... +248 °F	-30 °C ... +120 °C / -22 °F ... +248 °F	-25 °C ... +90 °C / -13 °F ... +194 °F

Features			
Approvals / Properties	**Tested and approved acc. to UL94** (material thickness: 3 mm) ▪ Classification: V-0 (Vertical Burning Test) **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 CEN/TS 45545-2** (material thickness: 3 mm) ▪ Requirement set: R23 HL1 ▪ complies with requirement set R22 HL1 acc. to DIN EN 45545 **Tested and approved acc. to NF F 16-101** (material thickness: 3 mm) ▪ Classification: I3 / F2	**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 NF F 16-101** (material thickness: 3 mm) ▪ Einstufung: I4 / F1	**Tested and approved acc. to UL94** (material thickness: 3 mm) ▪ Classification: V-0 (Vertical Burning Test) **Tested and approved acc. to Def Stan 07-247** ▪ Assessment: category B **Approved by the UK Ministry of Defence (MoD)**

The information for PAV0 and PA-FF have been determined in a conditioned state according to ISO 1110.

Special Clamp Body Materials (Selection)

Preventive Fire Protection

PP6853	PPV0	SAV0	Material Code
Polypropylene	Polypropylene	Thermoplastic Elastomer	**Basic Material**
White	Black	Natural	**Standard Colour**

			Mechanical Properties
1264 MPa (ICE 60811-1-1)		113 N/mm² 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		**Temperature Resistance (Continuous Exposure, Min ... Max)**

			Features
Tested and approved according 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 according to Def Stan 07-247** ▪ Assessment: category B	**Tested and approved acc. to UL94** (material thickness: 3 mm) ▪ Classification: V-0 (Vertical Burning Test)	**Tested and approved acc. to UL94** (material thickness: 3 mm) ▪ Classification: V-0 (Vertical Burning Test)	Approvals / Properties

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
- To be used as fixed point clamp preventing the line from sliding (see page A95 for Maximum Loads in Pipe Direction)
- Clearance between the clamp halves provides tension of the tube or pipe

Type H (Smooth)

Smooth Inside Surface w/o Tension Clearance

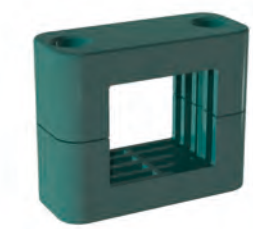
- Available in the Standard, Heavy and Twin Series
- Recommended for the safe installation of hoses or cables
- Available for all commonly used outside diameters and nominal sizes
- Smooth inside surface and chamfered edges avoid damaging of the hose or cable
- To be used as guide allowing the line to slide
- Choose internal diameter of the clamp body slightly smaller than the outside diameter of the hose or cable to use it as fixed point clamp preventing the line from sliding

Type RI (with Rubber 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
- Rubber insert made of Thermoplastic Elastomer with a hardness of 73 Shore-A provides most effective reduction of vibration and noise caused by vibration

Oval Design

- Available in the Standard and Heavy Series
- Recommended for the safe installation of electric cables with diameters between 20 mm (.79 in) and 72 mm (2.83 in)



Rectangular Design ▪ Type VK

- Available in the Standard Series (STAUFF Group 5)
- Recommended for the safe installation of proximity switches according to DIN EN 60947-5-2 or similar, rectangular construction, with a square of 40 mm x 40 mm (1.57 in x 1.57 in) or 40 mm x 36 mm (1.57 in x 1.42 in)

Materials and Surface Finishings of Metal Parts

Materials

Unless otherwise stated, all metal parts (e.g. weld plates, cover plates, bolts, rail nuts etc.) are made of **Carbon Steel** (surface finishing according to material code).

Besides that, all metal parts are also available **ex stock** in two different stainless steel qualities:

Stainless Steel V2A
- 1.4301 / 1.4305 (AISI 304 / 303)
- Material code: W4

Stainless Steel V4A
- 1.4401 / 1.4571 (AISI 316 / 316 Ti)
- Material code: W5

Alternative materials are available upon request.
Consult 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, untreated
- Material code: W1

Carbon Steel, phosphated
- Fe/Znph r 10 according to DIN EN 12476
- Material code: W2

Carbon Steel, zinc/nickel-plated
- Fe/ZnNi (12...16) 6+6//A//T2 according to DIN 50962
- More than 720 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.
Consult STAUFF for further information.

Original STAUFF Cover Plate with Zinc/Nickel-Coating:
No signs of corrosion after 528 hours in the salt spray chamber!

Original STAUFF Cover Plates with alternative surface finishings widely-used by competitors in the market (from left to right):

- Galvanisation and blue-chromating after 96 hours
- Galvanisation and yellow-chromating after 192 hours
- Zinc-coating, thick-film passivation and sealing after 192 hours

In all three cases, signs of corrosion are quite clearly visible!

Consult STAUFF and ask for a detailed report.

Thread Conversion Chart

Metric ISO vs. Unified Coarse (UNC) Thread

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

Standard Series (DIN 3015, Part 1)

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

Heavy Series (DIN 3015, Part 2)

Group		Thread	
STAUFF	DIN	Metric ISO	Unified Coarse
3S to 5S	1 to 3	M10	3/8–16 UNC
6S	4	M12	7/16–14 UNC
7S	5	M16	5/8–11 UNC
8S	6	M20	3/4–10 UNC
9S	7	M24	7/8–9 UNC
10S	8	M30	1-1/8–7 UNC
11S to 12S	9 to 10	M30	1-1/4–7 UNC

Twin Series (DIN 3015, Part 3)

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

Property Classes / Grades of Bolts and Screws

Hexagon Head Bolt

Socket Cap Screw

Slotted Head Screw

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

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

Basic Installation Instructions

Installation on Weld Plate

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

- Place weld plates in their designated positions. Please make sure these positions are suitable for the expected loads.
- Mark the locations of the weld plates to ensure best alignment.
- Weld the weld plates into position. Elongated weld plates can also be mounted to their positions by using screws or bolts.
- Push bottom clamp half onto weld plate.
- Insert pipe, tube, hose, cable or any other line type.
- 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 locations 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 line type.
- 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

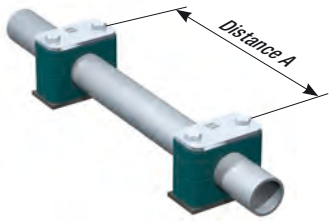
The multi-level installation of STAUFF Clamps permits easy stacking of several pipes, tubes, hoses, cables or any other line types, even with different outside diameters. The Twin Series also allows stacking of different group sizes (STAUFF Groups 2D to 5D).

The clamps are connected by stacking bolts. Safety locking plates inserted between the clamps prevent stacking bolts from turning.

- Push bottom clamp half onto weld plate or rail nuts.
- Insert pipe, tube, hose, cable or any other line type.
- Place second clamp half mount clamp assembly by using stacking bolts.
- Place safety locking plate on top of clamp assembly to prevent stacking bolts from turning.
- Proceed with next level as explained before.

STAUFF multi-level clamp assemblies can be mounted both to weld plates or to mounting rails.

Recommended Distance between Clamps



Installation next to Pipe Bends, Connectors / Couplings and Valves

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

Outside Diameter (mm)	(in)	Distance A (m)	(ft)
6,0 ... 12,7	.23 ... .50	1,00	3,28
12,7 ... 22,0	.50 ... .86	1,20	3,94
22,0 ... 32,0	.86 ... 1.25	1,50	4,92
32,0 ... 38,0	1.25 ... 1.50	2,00	6,56
38,0 ... 57,0	1.5 ... 2.25	2,70	8,86
57,0 ... 75,0	2.25 ... 2.95	3,00	9,84
75,0 ... 76,1	2.95 ... 3.00	3,50	11,48
76,1 ... 88,9	3.00 ... 3.50	3,70	12,14
88,9 ... 102,0	3.50 ... 4.00	4,00	13,12
102,0 ... 114,0	4.00 ... 4.50	4,50	14,76

Outside Diameter (mm)	(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

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

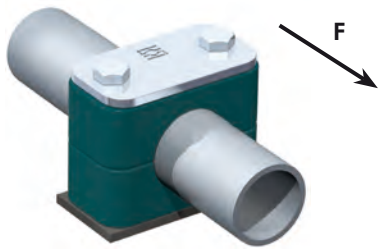
The first clamp should be placed directly next to the connector / coupling. This protects the connector / coupling from vibrations.

Valves

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

Consult 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, Part 10) 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, Part 1)

Group		Hexagon Head Bolt DIN EN ISO 4014/4017 (DIN 931/933)		Polypropylene				Polyamide				Aluminium			
		Metric	Unified Coarse	Tightening Torque		Maximum Load in Pipe Direction F		Tightening Torque		Maximum Load in Pipe Direction F		Tightening Torque		Maximum Load in Pipe Direction F	
STAUFF	DIN	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	NOT AVAILABLE!			
8	8	M6	1/4–20 UNC	8	6	2,6	585	10	7	3,5	787				

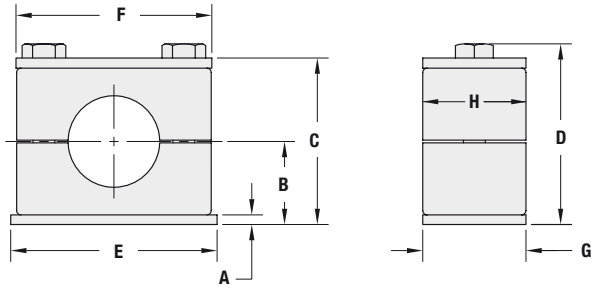
Heavy Series (DIN 3015, Part 2)

Group		Hexagon Head Bolt DIN EN ISO 4014/4017 (DIN 931/933)		Polypropylene				Polyamide				Aluminium			
		Metric	Unified Coarse	Tightening Torque		Maximum Load in Pipe Direction F		Tightening Torque		Maximum Load in Pipe Direction F		Tightening Torque		Maximum Load in Pipe Direction F	
STAUFF	DIN	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
8S	6	M20	3/4–10 UNC	80	59	14,0	3147	150	111	21,0	4720	220	162	50,0	11240
9S	7	M24	7/8–9 UNC	110	81	28,0	6300	200	148	32,0	7193	250	184	70,6	15871
10S	8	M30	1-1/8–7 UNC	180	133	40,0	8992	350	258	48,0	10790	500	369	84,5	18996
11S	9	M30	1-1/4–7 UNC	200	148	119,0	26752	370	273	125,0	27650	500	369	181,5	40802
12S	10	M30	1-1/4–7 UNC	270	199	168,0	37767	450	332	180,0	40465	600	443	244,5	54965

Twin Series (DIN 3015, Part 3)

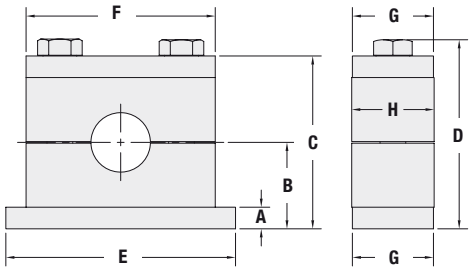
Group		Hexagon Head Bolt DIN EN ISO 4014/4017 (DIN 931/933)		Polypropylene				Polyamide			
		Metric	Unified Coarse	Tightening Torque		Maximum Load in Pipe Direction F		Tightening Torque		Maximum Load in Pipe Direction F	
STAUFF	DIN	ISO Thread	(UNC) Thread	(N·m)	(ft·lb)	(kN)	(lbf)	(N·m)	(ft·lb)	(kN)	(lbf)
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)

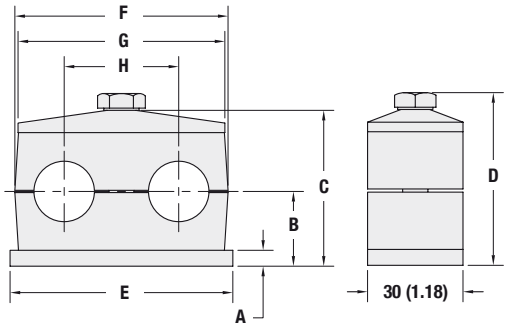
Group		Dimensions (mm/in)											Weight per 100 Pcs.
			B		C		D						SP ✱✱ PP-DP-AS ✱✱✱
STAUFF	DIN	A	Profiled Design	Type H (Smooth)	Profiled Design	Type H (Smooth)	Profiled Design	Type H (Smooth)	E	F	G	H	(kg/lbs)
1	0	3	16,5	16	33	32	37	36	31,5	28	30	30	6,20
		.12	.65	.63	1.30	1.26	1.46	1.42	1.24	1.10	1.18	1.18	13,64
1A	1	3	16,5	16	33	32	37	36	36	34	30	30	8,10
		.12	.65	.63	1.30	1.26	1.46	1.42	1.41	1.33	1.18	1.18	17.82
2	2	3	19,5	19	39	38	43	42	42	40,5	30	30	9,40
		.12	.77	0.75	1.54	1.50	1.69	1.65	1.65	1.59	1.18	1.18	20.68
3	3	3	21	20,75	42	41,5	46	45,5	50	48	30	30	11,20
		.12	.83	.82	1.65	1.64	1.81	1.80	1.96	1.88	1.18	1.18	24.64
4	4	3	24	23,75	48	47,5	52	51,5	60	57	30	30	13,70
		.12	.94	.94	1.89	1.87	2.05	2.03	2.36	2.24	1.18	1.18	30.14
5	5	3	32	31,25	64	62,5	68	66,5	71	70	30	30	17,10
		.12	1.26	1.23	2.52	2.46	2.68	2.62	2.79	2.75	1.18	1.18	37.62
6	6	3	36	35,25	72	70,5	76	74,5	88	86	30	30	21,30
		.12	1.42	1.39	2.83	2.78	2.99	2.94	3.46	3.38	1.18	1.18	46.86
7	7	5	51,5	51	103	102	107	106	122	118	30	30	42,10
		.20	2.03	2.01	4.06	4.02	4.21	4.17	4.81	4.65	1.18	1.18	92.62
8	8	5	64	63	128	126	132	130	148	144	30	30	44,00
		.20	2.52	2.48	5.04	4.96	5.20	5.12	5.83	5.67	1.18	1.18	96.80



Heavy Series (DIN 3015, Part 2)

Group		Dimensions (mm/in)												Weight per 1 Pc.
			B		C		D			F				SPAL✱✱PP-DPAL-AS✱✱✱
STAUFF	DIN	A	Profiled Design	Type H (Smooth)	Profiled Design	Type H (Smooth)	Profiled Design	Type H (Smooth)	E	PP/ PA/SA	AL	G	H	(kg/lbs)
3S	1	8	24	23,25	48	46,5	54,4	52,9	74	55	56	30	30,5	0,32
		.31	.94	.92	1.89	1.83	2.14	2.09	2.91	2.16	2.20	1.18	1.20	.70
4S	2	8	32	31,25	64	62,5	70,4	68,9	86	70	70	30	30,5	0,40
		.31	1.26	1.23	2.52	2.46	2.77	2.72	3.39	2.76	2.76	1.18	1.20	.88
5S	3	8	38	37	76	74	82,4	80,4	100	85	85	30	30,5	0,49
		.31	1.50	1.46	2.99	2.91	3.24	3.17	3.94	3.35	3.35	1.18	1.20	1.08
6S	4	10	54,5	53,5	109	107	116,5	114,5	140	115	120	45	45	1,21
		.39	2.15	2.11	4.29	4.21	4.59	4.51	5.51	4.53	4.72	1.77	1,77	2.66
7S	5	10	70	NOT AVAILABLE!	140	NOT AVAILABLE!	150	NOT AVAILABLE!	180	154	152	60	60	2,30
		.39	2.76		5.51		5.91		7.09	6.06	5.98	2.36	2,36	5.06
8S	6	15	99		198		210,5		226	206	208	80	80	5,56
		.59	3.90		7.80		8.29		8.90	8.11	8.19	3.15	3.15	12.26
9S	7	15	115		230		245		270	251	255	90	91	7,97
		.59	4.53		9.06		9.65		10.63	9.88	10.04	3.54	3.58	17.58
10S	8	25	160		320		338,7		340	336	326	120	120	22,16
		.98	6.30		12.60		13.33		13.39	13.22	12.83	4.72	4.72	48.75
11S	9	30	235		470		488,7		520	470	470	160	162	54,11
		1.18	9.25		18.50		19.24		20.47	18.50	18.50	6.30	6.38	119.04
12S	10	30	295		590		608,7		680	630	630	180	182	77,40
		1.18	11.61		23.23		23.96		26.77	24.80	24.80	7.09	7.16	170.28

Dimensions & Weights of Clamp Assemblies



Twin Series (DIN 3015, Part 3)

Group STAUFF	Group DIN	Dimensions (mm/in) A	B Profiled Design	B Type H (Smooth)	C Profiled Design	C Type H (Smooth)	D Profiled Design	D Type H (Smooth)	E	F	G	H	Weight per 100 Pcs. SP**/**PP-GD-AS*** (kg/lbs)
1D	1	3	16,5	16,25	37	36,5	41	40,5	37	36	34	20	7,60
		.12	.65	.64	1.46	1.44	1.61	1.59	1.46	1.42	1.34	.79	16.72
2D	2	5	18,5	18,25	39	38,5	44	43,5	55	53	52	29	13,50
		.20	.73	.72	1.54	1.52	1.73	1.71	2.17	2.09	2.05	1.14	29.70
3D	3	5	23,5	23,25	49	48,5	54	53,5	70	67	65	36	17,70
		.20	.93	.92	1.93	1.91	2.13	2.11	2.76	2.64	2.56	1.42	38.94
4D	4	5	25	24	52	50	57	55	85	80	79	45	20,40
		.20	.98	.94	2.05	1.97	2.24	2.17	3.35	3.15	3.11	1.77	44.88
5D	5	5	31,5	31	65	64	70	69	110	106	102	56	27,70
		.20	1.24	1.22	2.56	2.52	2.76	2.72	4.33	4.17	4.02	2.20	60.94

Packaging Units (Selection)

Standard Series (DIN 3015, Part 1)

Clamp Bodies (Polypropylene / Polyamide)

Group STAUFF	Group DIN	Quantity per Bag (in Pcs.)
1 - 6	0 - 6	25
7 + 8	7 + 8	10

Clamp Bodies (Aluminium)

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

Weld Plates (Type SP)
Cover Plates (Type DP)

Group STAUFF	Group DIN	Quantity per Bag (in Pcs.)
1 - 6	0 - 6	25
7 + 8	7 + 8	10

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

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

Heavy Series (DIN 3015, Part 2)

Clamp Bodies (Polypropylene / Polyamide)

Group STAUFF	Group DIN	Quantity per Bag (in Pcs.)
3S - 6S	1 - 4	20
7S	5	10
8S - 12S	6 - 10	1

Clamp Bodies (Aluminium)

Group STAUFF	Group DIN	Quantity per Bag (in Pcs.)
3S - 7S	1 - 5	10
8S - 12S	6 - 10	1

Weld Plates (Type SPAL)
Cover Plates (Type DPAL)

Group STAUFF	Group DIN	Quantity per Bag (in Pcs.)
3S - 6S	1 - 4	20
7S	5	10
8S - 12S	6 - 10	1

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

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

Twin Series (DIN 3015, Part 3)

Clamp Bodies (Polypropylene / Polyamide)

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

Weld Plates (Type SP)
Cover Plates (Type GD)

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

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

Group STAUFF	Group DIN	Quantity per Bag (in Pcs.)
1D	1	50
2D - 5D	2 - 5	25

Consult STAUFF and ask for standard packaging units for further components or special packaging options.