



FLOW CONTROL

PIPE CLAMP

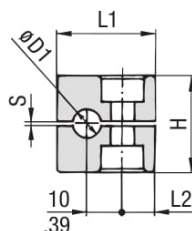
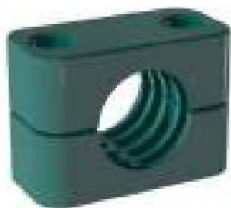


	Weld Plate SP	20		Cover Plate DP	26
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	Twin Weld Plate DSP	21		Safety Washer (DIN 93) SI	27
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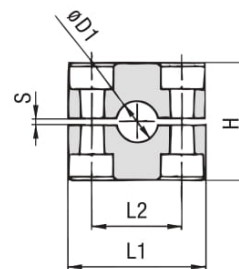
Clamp Body - Profiled Design

Profiled Inside Surface with Tension Clearance

A



STAUFF Group 1



STAUFF Group 1A to 8

Ordering Codes

Clamp Body

Clamp Body, STAUFF Group 1A

*1*06-*PP

*1*06A-*PP

One clamp body is consisting of two clamp halves.

* STAUFF Group

* Exact outside diameter Ø D1 (mm)

* Material code (see below)

1

06

PP

Standard Materials



Polypropylene

Colour: Green

Material code: **PP**



Polypropylene

Colour: Black

Material code: **PP-BK**



Polyamide

Colour: Black

Material code: **PA**



Thermoplastic Elastomer (87 Shore-A)

Colour: Black

Material code: **SA**



Aluminium

Colour: Self-Colour

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

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

Special Materials

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

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

Product Features

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

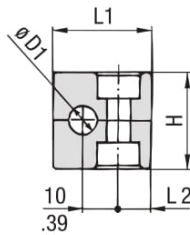
Group	STAUFF	DIN	Outside Diameter		Nominal Bore		Ordering Codes (2 Clamp Halves) (** = Material)	Dimensions (mm/in)				
			Pipe / Tube Ø D1 (mm)	(in)	Pipe (in)	Copper Tube ASTM B88 (in)		L1	L2	H	S min.	Width
1	0		6				106-**-*					
			6,4	1/4			106.4-**-*					
			8	5/16			108-**-*	28	9,5	27	0,4	30
			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-**-*					
3	3		18				218-**-*					
			19	3/4			319-**-*					
			20				320-**-*					
			21,3		1/2		321.3-**-*	50	33	36	0,6	30
			22	7/8		3/4	322-**-*	1.97	1.30	1.42	.02	1.18
			25				325-**-*					
4	4		25,4	1			325.4-**-*					
			26,9		3/4		426.9-**-*					
			28				428-**-*	59	40	42	0,6	30
			28,6			1	428.6-**-*	2.32	1.57	1.65	.02	1.18
			30				430-**-*					
			32				432-**-*					
5	5		32	1-1/4			532-**-*					
			33,7		1		533.7-**-*					
			35			1-1/4	535-**-*	71	52	58	0,8	30
			38	1-1/2			538-**-*	2.80	2.05	2.28	.03	1.18
			40				540-**-*					
			41,3		1-1/2		541.3-**-*					
6	6		42		1-1/4		542-**-*					
			44,5	1-3/4			644.5-**-*					
			48,3		1-1/2		648.3-**-*	86	66	66	0,8	30
			50,8	2			650.8-**-*	3.39	2.60	2.60	.03	1.18
			54			2	654-**-*					
			57,2	2-1/4			757.2-**-*					
7	7		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-**-*					
			88,9		3		888.9-**-*	147	120	118	0,8	30
8	8		102	4	3-1/2		8102L-**-*	5.79	4.72	4.65	.03	1.18

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

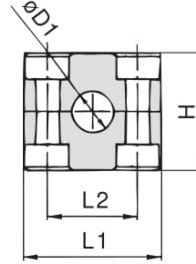
Dimensional drawings: All dimensions in mm (in).

Clamp Body - Type H

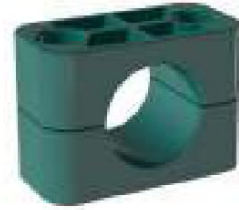
Smooth Inside Surface without Tension Clearance



STAUFF Group 1



STAUFF Group 1A to 8



A

Group	DIN	Outside Diameter		Ordering Codes (2 Clamp Halves)	Dimensions (mm/in)			
		Hose Ø D1 (mm)	(in)		L1	L2	H	Width
1	0	6		106-**-H				
		6,4	1/4	106.4-**-H				
		8	5/16	108-**-H	28	9,5	26	30
		9,5	3/8	109.5-**-H	1.10	.37	1.02	1.18
		10		110-**-H				
		12		112-**-H				
1A	1	6		106A-**-H				
		6,4	1/4	106.4A-**-H				
		8	5/16	108A-**-H	37	20	26	30
		9,5	3/8	109.5A-**-H	1.46	.79	1.02	1.18
		10		110A-**-H				
		12		112A-**-H				
2	2	12,7	1/2	212.7-**-H				
		13,5		213.5-**-H				
		14		214-**-H	42	26	32	30
		15		215-**-H	1.65	1.02	1.26	1.18
		16	5/8	216-**-H				
		17,2		217.2-**-H				
3	3	18		218-**-H				
		19	3/4	319-**-H				
		20		320-**-H				
		21,3		321.3-**-H	50	33	35,5	30
		22	7/8	322-**-H	1.97	1.30	1.40	1.18
		25		325-**-H				
4	4	25,4	1	325.4-**-H				
		26,9		426.9-**-H				
		28		428-**-H	59	40	41,5	30
		30		430-**-H	2.32	1.57	1.63	1.18
		32		432-**-H				
		32	1-1/4	532-**-H				
5	5	33,7		533.7-**-H				
		35		535-**-H	71	52	56,5	30
		38	1-1/2	538-**-H	2.80	2.05	2.22	1.18
		40		540-**-H				
		42		542-**-H				
		44,5	1-3/4	644.5-**-H				
6	6	48,3		648.3-**-H	86	66	64,5	30
		50,8	2	650.8-**-H	3.39	2.60	2.54	1.18
		54		654-**-H				
		57,2	2-1/4	757.2-**-H				
		60,3		760.3-**-H				
		63,5	2-1/2	763.5-**-H	121	94	92	30
7	7	70	2-3/4	770-**-H	4.76	3.70	3.62	1.18
		73		773-**-H				
		76,1	3	776.1-**-H				
8	8	88,9		888.9-**-H	147	120	116	30
		102	4	8102L-**-H	5.79	4.72	4.57	1.18

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

Ordering Codes

Clamp Body

Clamp Body, STAUFF Group 1A

*1*06-*PP-H

*1*06A-*PP-H

One clamp body is consisting of two clamp halves.

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

1
06
PP-H

Standard Materials



Polypropylene

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



Polypropylene

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



Polyamide

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



Thermoplastic Elastomer (87 Shore-A)

Colour: Black
Material code: **SA-H**

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

Special Materials

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

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

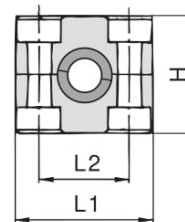
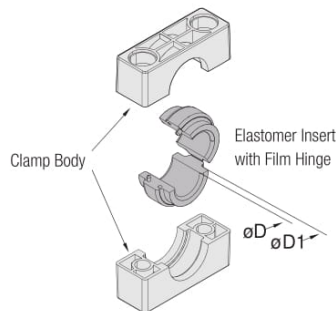
Product Features

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

Dimensional drawings: All dimensions in mm (in).

Clamp Body with Elastomer Insert Type RI

A



Ordering Codes

Clamp Assembly *4*06-*PP-R

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

- * STAUFF Group 4
- * Exact outside diameter $\varnothing D$ (mm) 06
- * Material code (see below) PP-R

Clamp Body *4-*PP-R

One clamp body is consisting of two clamp halves.

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

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

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

Standard Materials



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



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



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

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

Special Materials

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

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

Product Features

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

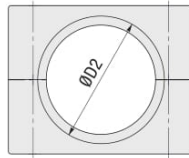
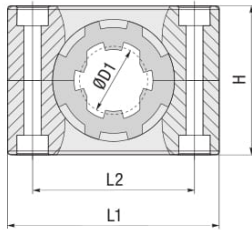
Group	STAUFF	DIN	Outside Diameter		Ordering Codes (**R = Clamp Body Material)			Dimensions				
			Pipe / Tube / Hose Ø D (mm)	(in)	Clamp Assembly (Clamp Body + Insert)	Clamp Body (2 Clamp Halves)	Insert *	Ø D1	L1	L2	H	Width
4	4	4	6		406-**-R	4-**-R	RI-06-4/4S	25 .98	59 2.32	40 1.57	41,2 1.62	30 1.18
			8	5/16	408-**-R		RI-08-4/4S					
			10		410-**-R		RI-10-4/4S					
			12		412-**-R		RI-12-4/4S					
			12,7	1/2	412.7-**-R		RI-12.7-4/4S					
			14		414-**-R		RI-14-4/4S					
			15		415-**-R		RI-15-4/4S					
			16	5/8	416-**-R		RI-16-4/4S					
			17,2		417.2-**-R		RI-17.2-4/4S					
			18		418-**-R		RI-18-4/4S					
19	3/4	419-**-R	RI-19-4/4S									
6	6	6	20		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					

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

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

Noise Reduction Clamp Type NRC

A



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

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

Product Features

- Designed for the noise and vibration reducing installation of pipes and tubes
- Suitable for the most common outside diameters from 6 to 42 mm and from ¼ to 1 ½ inch respectively
- Working principle based on a specially shaped, two-part elastomer insert, which mechanically absorbs vibration in the pipe or tube and as a result reduces noises arising to a minimum
- Elastomer insert is in particular distinguished by how little of its surface is in contact with the pipe or tube as well as with the clamp body
- Light tension of the elastomer insert in mounted condition provides the necessary clamping force
- Tongue-groove contour of the elastomer insert and the clamp body (which is reversed and thus diverges from standard DIN 3015 clamps with elastomer insert) enables the system to be used for the maximum range of outside diameters per clamp size, which contributes to flexibility, versatility and optimisation of the required installation space

Ordering Codes

Clamp Assembly *2*12-*PP-NRC

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

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

NRC Clamp Body *2-*PP-NRC

One NRC clamp body is consisting of two clamp halves.

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

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

One NRC elastomer insert is consisting of two insert halves.

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

Standard Materials



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



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

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

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

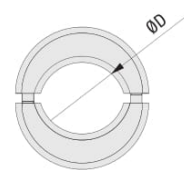
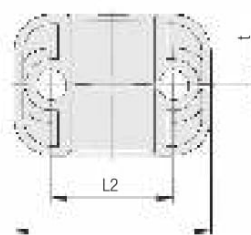
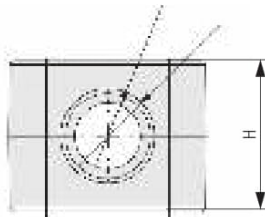
Special Materials

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

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

Clamp Body for Conduit Hoses and Cable Inserts Type CHC

A



Ordering Codes

Clamp Assembly

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

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

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

CHC Clamp Body

*3*17-*PA-CHC

One CHC Clamp Body is consisting of two clamp halves.

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

CHC Elastomer Insert

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

One CHC Elastomer Insert is consisting of two insert halves.

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

Group	STAUFF	DIN	Nominal Size Conduit Hose	Cable ØD (mm/in)	Ordering Codes (* = Material)			Dimensions (mm/in)						
					Clamp Assembly (Clamp Body + Insert)	Clamp Body (2 Halves)	CHC-Insert (2 Halves)	ØD1	ØD2	t	L1	L2	H	Width
2	2	10	12	6 ... 8		210-*		13	11	0,5	42	26	32	30
				.2431				.51	.43	.02	1.65	1.02	1.26	1.18
				8 ... 10		212-*		16	13,5	0,5	42	26	32	30
3	3	17	17	.3139				.63	.53	.02	1.65	1.02	1.26	1.18
				7 ... 10	317-7/10-*-*	317-*	RI-CHC-7/10-3-*	21,5	18	0,7	50	33	35,5	30
				.2839				.85	.71	.03	1.97	1.30	1.40	1.18
4	4	23	23	10 ... 14	317-10/14-*-*	317-*	RI-CHC-10/14-3-*							
				.3955										
				14 ... 18	423-14/18-*-*	423-*	RI-CHC-14/18-4-*	29	24,5	0,7	59	40	41,5	30
5	5	29	29	.5571		423-*		1.14	.96	.03	2.32	1.57	1.63	1.18
				18 ... 20										
				.7179										
6	6	48	48	20 ... 26,9		529-*		35	30,5	1,0	71	52	56,5	30
				.79 ... 1.06				1.38	1.20	.04	2.80	2.05	2.22	1.18
				26,9 ... 33,7		536-*		43	38,5	1,0	71	94	92	30
6	6	6	6	1.06 ... 1.33				1.69	1.52	.04	2.80	2.05	2.22	1.18
				33,7 ... 42		648-*		55	49,5	1,0	86	66	64,5	30
				1.33 ... 1.65				2.17	1.95	.51	3.39	2.60	2.54	1.18

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

Product Features

- Design of the inside surface of the clamp body prevents corrugated conduit hoses from sliding
- Elastomer Insert for the safe and damage-free installation of single cables as an option
- Chamfered edges avoid damaging of the conduit hoses
- Available for all commonly used nominal sizes
- Excellent weathering resistance, even under extreme conditions

Materials



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



fire-proof clamp body material made of Polyamide
Colour: Black
Material code: **PA-V0-CHC-BK**



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



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

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

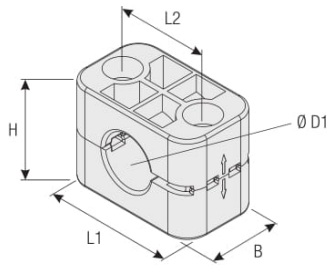
Alternative materials are available upon request. Please contact STAUFF for further information.

Recommended Bolt Lengths (Socket Cap Screw IS)

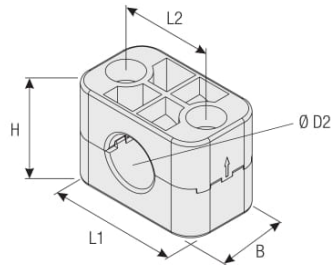
for use without Cover Plate DP, assembly with Weld Plate SP, Hexagon Rail Nut SM and Channel Rail Adaptor CRA.

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

See page 30 for further information on ordering.



For Use with Regular Hose


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

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

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

Product Features

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

Special Materials

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

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

Standard Materials

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

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

Clamp Body - Compact Design Type CC



A

Ordering Codes

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

One clamp body is consisting of two clamp halves.

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

Ordering Codes

One clamp body is consisting of two clamp halves.

Clamp Body **540-40-PP-VK**

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

Clamp Body **540-36-PP-VK**

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

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

Product Features

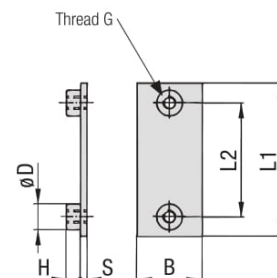
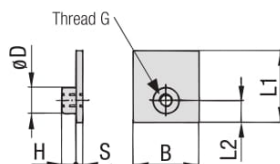
- Outer dimensions of clamp body according to Standard Series, STAUFF Group 5
- For proximity switches according to DIN EN 60947-5-2 or similar, rectangular construction, with a square of 40 mm x 40 mm / 1.57 in x 1.57 in or 40 mm x 36 mm / 1.57 in x 1.42 in
- For proximity switches according to DIN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

Clamp Body - Rectangular Design Type VK



Single Weld Plate Type SP

A



STAUFF Group 1

STAUFF Group 1A to 8

Ordering Codes

Weld Plate

*SP-*1-*M-*W2

* Single Weld Plate

SP

* STAUFF Group

1

* Thread code

Metric ISO thread

M

Unified coarse (UNC) thread

U

* Material code

Carbon Steel, phosphated

W2

Carbon Steel, zinc/nickel-plated

W3

Stainless Steel V2A

W4

1.4301 / 1.4305 (AISI 304 / 303)

W5

Stainless Steel V4A

W5

1.4401 / 1.4571 (AISI 316 / 316 Ti)

W5

Aluminium EN AW-6060

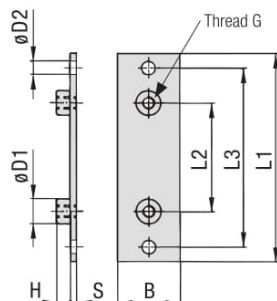
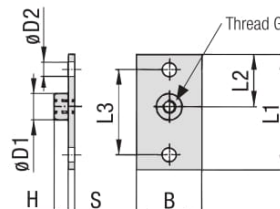
W85

(Dimension S: 5 mm / .20 in)

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

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

Elongated Weld Plate Type SPV



STAUFF Group 1

STAUFF Group 1A to 8

Ordering Codes

Weld Plate

*SPV-*1-*M-*W2

* Elongated Weld Plate

SPV

* STAUFF Group

1

* Thread code

Metric ISO thread

M

Unified coarse (UNC) thread

U

* Material code

Carbon Steel, phosphated

W2

Carbon Steel, zinc/nickel-plated

W3

Stainless Steel V2A

W4

1.4301 / 1.4305 (AISI 304 / 303)

W5

Stainless Steel V4A

W5

1.4401 / 1.4571 (AISI 316 / 316 Ti)

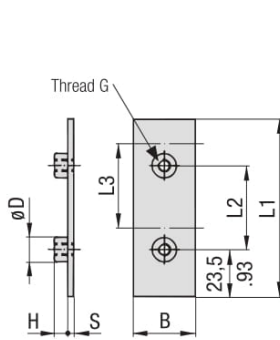
W5

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

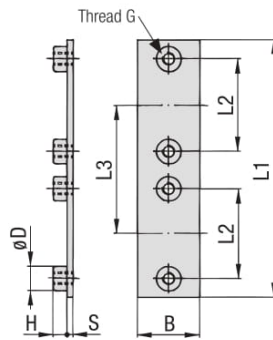
All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Twin Weld Plate for 2 Clamp Bodies Type DSP

A



STAUFF Group 1



STAUFF Group 1A to 8



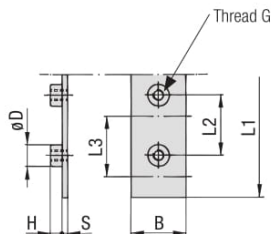
Group	STAUFF	DIN	Dimensions (mm/in)								Ordering Codes (Standard Options)
			Thread G	L1	L2	L3	B	S	H	ØD	
1	0	M6	87	40	40	30	3	6.5	12	DSP-1-40-M-W2	
		1/4-20 UNC	3.43	1.57	1.57	1.18	.12	.26	.47	DSP-1-40-U-W2	
1A	1	M6	77	20	37	30	3	6.5	12	DSP-1A-37-M-W2	
		1/4-20 UNC	3.03	.79	1.46	1.18	.12	.26	.47	DSP-1A-37-U-W2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

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

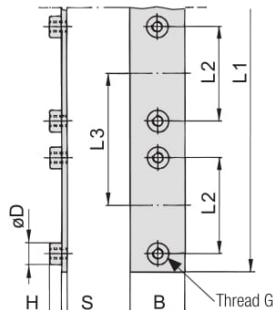
Ordering Codes

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

* Twin Weld Plate for 2 Clamp Bodies	DSP
* STAUFF Group	1
* Pipe center spacing L3 (mm)	40
* Thread code	Metric ISO thread M Unified coarse (UNC) thread U
* Material code	Carbon Steel, phosphated W2 Carbon Steel, zinc/nickel-plated W3 Stainless Steel V2A W4 1.4301 / 1.4305 (AISI 304 / 303) Stainless Steel V4A W5 1.4401 / 1.4571 (AISI 316 / 316 Ti)



STAUFF Group 1



STAUFF Group 1A to 8

Group Weld Plate for 5 or 10 Clamp Bodies Type RAP

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

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

Ordering Codes

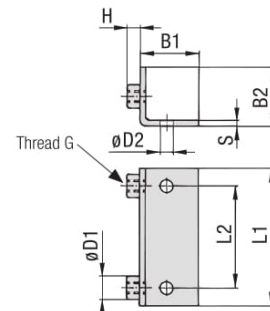
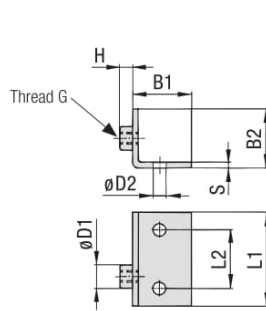
Weld Plate *RAP-*1-*31-*10-*M-*W1

* Group Weld Plate for 5 or 10 Clamp Bodies	RAP
* STAUFF Group	1
* Pipe center spacing L3 (mm)	31
* Number of clamps	10
* Thread code	Metric ISO thread M Unified coarse (UNC) thread U
* Material code	Carbon Steel, phosphated W2 Carbon Steel, zinc/nickel-plated W3 Stainless Steel V2A W4 1.4301 / 1.4305 (AISI 304 / 303) Stainless Steel V4A W5 1.4401 / 1.4571 (AISI 316 / 316 Ti)

Dimensional drawings: All dimensions in mm (in).

Angled Weld Plate Type WSP

A



STAUFF Group 1

STAUFF Group 1A to 6

Ordering Codes

Weld Plate

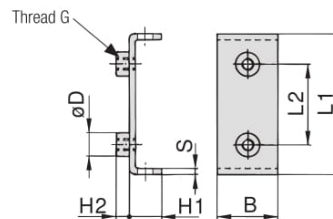
***WSP-*1-*M-*W1**

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

Group	STAUFF	DIN	Dimensions (mm/in)									Ordering Codes (Standard Options)	
			Thread G	L1	L2	B1	B2	S	H	ØD1	ØD2		
1	0	M6	30	14	30	30	3	6,5	12	6,5	WSP-1-M-W1		
		1/4-20 UNC	1.18	.55	1.18	1.18	.12	.26	.47	.26	WSP-1-U-W1		
1A	1	M6	36	20	30	30	3	6,5	12	6,5	WSP-1A-M-W1		
		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. Contact STAUFF for further information.

Bridge Weld Plate Type BSP



Ordering Codes

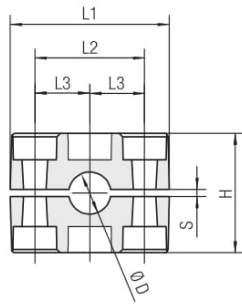
Weld Plate

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

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

Group	STAUFF	DIN	Dimensions (mm/in)	Thread G	L1	L2	B	S	H1	H2	ØD	Ordering Codes (Standard Options)
1A	1		M6	48	20	30	3	13	6,5	12	6,5	BSP-1A-M-W1
			1/4-20 UNC	1.89	.79	1.18	.12	.52	.26	.47	.26	BSP-1A-U-W1
2	2		M6	54	26	30	3	13	6,5	12	6,5	BSP-2-M-W1
			1/4-20 UNC	2.13	1.02	1.18	.12	.52	.26	.47	.26	BSP-2-U-W1
3	3		M6	62	33	30	3	13	6,5	12	6,5	BSP-3-M-W1
			1/4-20 UNC	2.44	1.30	1.18	.12	.52	.26	.47	.26	BSP-3-U-W1
4	4		M6	71	40	30	3	13	6,5	12	6,5	BSP-4-M-W1
			1/4-20 UNC	2.80	1.57	1.18	.12	.52	.26	.47	.26	BSP-4-U-W1
5	5		M6	85	52	30	3	13	6,5	12	6,5	BSP-5-M-W1
			1/4-20 UNC	3.35	2.05	1.18	.12	.52	.26	.47	.26	BSP-5-U-W1
6	6		M6	98	66	30	3	13	6,5	12	6,5	BSP-6-M-W1
			1/4-20 UNC	3.86	2.60	1.18	.12	.52	.26	.47	.26	BSP-6-U-W1

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

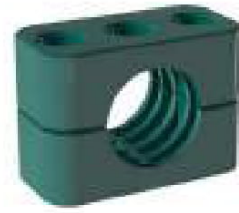


STAUFF Group 5

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

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

Clamp Body for Multi-Group Weld Plate Type MGR



A

Ordering Codes

Clamp Body *5*20-*PP-MGR

One clamp body is consisting of two clamp halves.

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

Standard Materials

Polypropylene
Colour: Green
Material code: PP-MGR

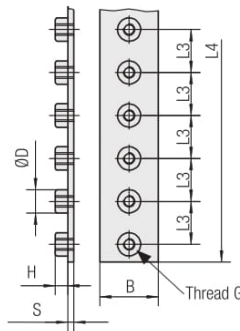
Polyamide
Colour: Black
Material code: PA-MGR

See pages 154 / 155 for properties and technical information.

Multi-Group Weld Plates (type RAP-MGR) are designed to be used in combination with Standard Series clamp bodies, STAUFF Group 2 (regular types, see pages 14 ff.) covering a diameter range from 8 mm / .31 in to 18 mm / .71 in, as well as Standard Series clamp bodies, STAUFF Group 5 (type MGR, see above) covering a diameter range from 20 mm / .79 in to 42 mm / 1.65 in. Thus, all Standard Series metal parts (bolts, cover plates) of these groups can be used.



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



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



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

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

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

Ordering Codes

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

* Multi Group Weld Plate RAP-MGR

* Suitable for STAUFF Group 2 and 5 (only type MGR) 25

* Length L4 (mm)

156 (with 6 weld nuts)	156
234 (with 9 weld nuts)	234
312 (with 12 weld nuts)	312
390 (with 15 weld nuts)	390
520 (with 20 weld nuts)	520
700 (with 27 weld nuts)	700

* Thread code

Metric ISO thread	M
Unified coarse (UNC) thread	U

* Material code

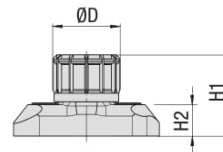
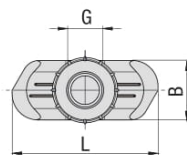
Carbon Steel, uncoated	W1
Stainless Steel V4A	W5
1.4401 / 1.4571 (AISI 316 / 316 Ti)	

Hexagon Rail Nut

(for Use with Mounting Rail TS)

Type SM / SMG

A



Ordering Codes

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

* Hexagon Rail Nut

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

* STAUFF Group 1 to 8 (DIN Group 0 to 8) **1-8/1D**

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

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

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

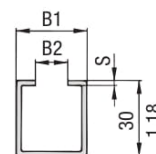
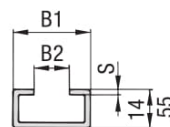
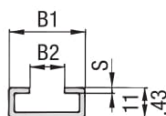
Hexagon Rail Nuts, type SM-1-8/1D are also suitable for Twin Series, STAUFF Group 1D.

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

Mounting Rail

(for Use with Hexagon Rail Nut SM / SMG)

Type TS



Mounting Rail TS-11

Mounting Rail TS-14

Mounting Rail TS-30

Ordering Codes

Mounting Rail *TS-11-1M-W1

* Mounting Rail

TS

* Height of rail 11 mm / .43 in **11**
14 mm / .55 in **14**
30 mm / 1.18 in **30**

* Length of rail 1 m / 3.28 ft **1M**
2 m / 6.56 ft **2M**
Alternative lengths available upon request.
Contact STAUFF for further information.

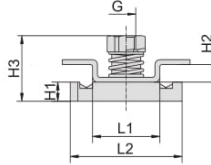
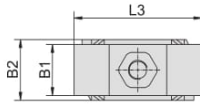
* Material code Carbon Steel, uncoated **W1**
Carbon Steel, hot-dip galvanised **W98**
Stainless Steel V2A **W4**
1.4301 / 1.4305 (AISI 304 / 303)
Stainless Steel V4A **W5**
1.4401 / 1.4571 (AISI 316 / 316 Ti)

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

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

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

A



Group	STAUFF	DIN	Dimensions (mm/in)	Thread G	L1	L2	L3	B1	B2	H1	H2	H3	Ordering 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												

Ordering Codes

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

* Channel Rail Adaptor CRA

* STAUFF Group 1 to 8 (DIN Group 0 to 8) 1-8/1D

* Thread code Metric ISO thread M

Unified coarse (UNC) thread U

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

Stainless Steel V4A W5

1.4401 / 1.4571 (AISI 316 / 316 Ti)

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

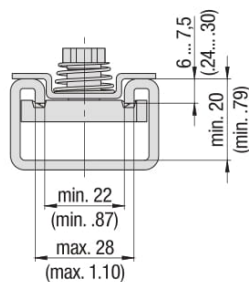
All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Compatibility with Channel Rails

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

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

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

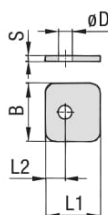


Basic dimensional requirements for channel rails
to be used with STAUFF Channel Rail Adaptors, type CRA

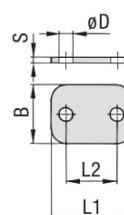
Dimensional drawings: All dimensions in mm (in).

Cover Plate Type DP

A



STAUFF Group 1



STAUFF Group 1A to 8

Ordering Codes

Cover Plate

*DP-*1-*W3

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

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

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

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


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

Ordering Codes

Hexagon Head Bolt

*AS-*M6x30-*W3

★ Type of bolt	Hexagon Head Bolt (according to DIN 931 / 933 or ANSI / ASME B18.2.1.)	AS
★ Thread type and size acc. to dimension table		M6x30
★ Material code	Carbon Steel, zinc/nickel-plated	W3
	Stainless Steel V2A	W4
	1.4301 / 1.4305 (AISI 304 / 303)	W4
	Stainless Steel V4A	W5
	1.4401 / 1.4571 (AISI 316 / 316 Ti)	W5

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

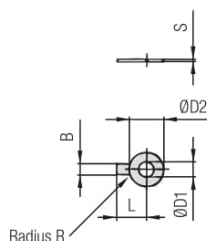
All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Safety Washer

(for Use with Hexagon Head Bolt AS)

Type SI (DIN 93)

A



Safety Washer SI

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

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

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

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

Ordering Codes

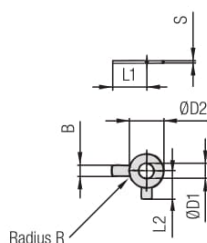
Safety Washer *SI-*6.4-*DIN93-*W3

* Type of washer	Safety washer with 1 tab (according to DIN 93)	SI-6.4-DIN93
* Material code	Carbon Steel, zinc/nickel-plated	W3
	Stainless Steel V4A	W5
	1.4401 / 1.4571 (AISI 316 / 316 Ti)	

Safety Washer

(for Use with Hexagon Head Bolt AS)

Type SI (DIN 463)



Safety Washer SI

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

Group	Dimensions (mm/in)							Ordering Codes
STAUFF	DIN	ØD1	B	ØD2	L1	L2	R	(Standard Options)
1 to 8	0 to 8	6,4 .25	7 .28	12 .47	18 .71	9 .35	4 .16	0,5 .02
								SI-6.4-DIN463-W3

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

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

Ordering Codes

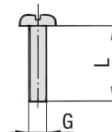
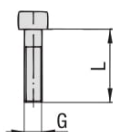
Safety Washer *SI-*6.4-*DIN463-*W3

* Type of washer	Safety washer with 2 tabs (according to DIN 463)	SI-6.4-DIN463
* Material code	Carbon Steel, zinc/nickel-plated	W3
	Stainless Steel V4A	W5
	1.4401 / 1.4571 (AISI 316 / 316 Ti)	

Socket Cap Screw Type IS

Slotted Head Screw Type LI

A



Socket Cap Screw IS

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

Dimensions applicable only when used without Cover Plate DP

Slotted Head Screw LI

(according to ISO 1207 or ANSI / ASME B18.6.3)

Dimensions applicable only when used without Cover Plate DP

Ordering Codes

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

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

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

* Thread type and size acc. to dimension table M6x30

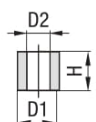
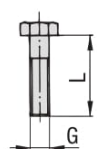
* Material code Carbon Steel, zinc/nickel-plated W3
 Stainless Steel V2A W4
 1.4301 / 1.4305 (AISI 304 / 303)
 Stainless Steel V4A W5
 1.4401 / 1.4571 (AISI 316 / 316 Ti)

Group STAUFF	DIN	Dimensions (mm/in) Thread G x L	Ordering Codes (Standard Options) Socket Cap Screws	Ordering Codes (Standard Options) Slotted Head Screws
1	0	M6 x 20 1/4-20 UNC x 3/4	IS-M6x20-W3 IS-1/4-20UNCx3/4-W3	LI-M6x20-W3 LI-1/4-20UNCx3/4-W3
1A	1	M6 x 20 1/4-20 UNC x 3/4	IS-M6x20-W3 IS-1/4-20UNCx3/4-W3	LI-M6x20-W3 LI-1/4-20UNCx3/4-W3
2	2	M6 x 25 1/4-20 UNC x 1	IS-M6x25-W3 IS-1/4-20UNCx1-W3	LI-M6x25-W3 LI-1/4-20UNCx1-W3
3	3	M6 x 30 1/4-20 UNC x 1-1/8	IS-M6x30-W3 IS-1/4-20UNCx1-1/8-W3	LI-M6x30-W3 LI-1/4-20UNCx1-1/8-W3
4	4	M6 x 35 1/4-20 UNC x 1-3/8	IS-M6x35-W3 IS-1/4-20UNCx1-3/8-W3	LI-M6x35-W3 LI-1/4-20UNCx1-3/8-W3
5	5	M6 x 50 1/4-20 UNC x 2	IS-M6x50-W3 IS-1/4-20UNCx2-W3	LI-M6x50-W3 LI-1/4-20UNCx2-W3
6	6	M6 x 60 1/4-20 UNC x 2-1/2	IS-M6x60-W3 IS-1/4-20UNCx2-1/2-W3	LI-M6x60-W3 LI-1/4-20UNCx2-1/2-W3
7	7	M6 x 90 1/4-20 UNC x 3-3/8	IS-M6x90-W3 IS-1/4-20UNCx3-3/8-W3	ON REQUEST ONLY
8	8	M6 x 110 1/4-20 UNC x 4-3/8	IS-M6x110-W3 IS-1/4-20UNCx4-3/8-W3	ON REQUEST ONLY

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

Hexagon Head Bolt Type AS

Insert Type ES / EP



Hexagon Head Bolt AS

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

Dimensions applicable only when used with Inserts EP / ES

Insert EP (Polypropylene)

Insert ES-W3 (Steel, zinc/nickel-plated)

Insert ES-W5 (Stainless Steel V4A)

Ordering Codes

Hexagon Head Bolt *AS-*M6x27-*W3

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

* Thread type and size acc. to dimension table M6x27

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

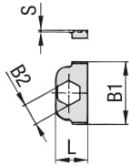
Group STAUFF	DIN	Dimensions (mm/in) Thread G x L	Ordering Codes (Standard Options)
1	0	M6 x 27 1/4-20 UNC x 1-1/8	AS-M6x27-W3 AS-1/4-20UNCx1-1/8-W3
1A	1	M6 x 27 1/4-20 UNC x 1-1/8	AS-M6x27-W3 AS-1/4-20UNCx1-1/8-W3
2	2	M6 x 32 1/4-20 UNC x 1-3/8	AS-M6x32-W3 AS-1/4-20UNCx1-3/8-W3
3	3	M6 x 35 1/4-20 UNC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

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

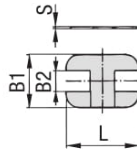
All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

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

A



STAUFF Group 1



STAUFF Group 1A to 8



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

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

Ordering Codes

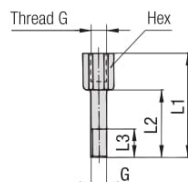
Safety Locking Plate

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

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

Stacking Bolt

(for Use with Safety Locking Plate SIG)
Type AF



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

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

Ordering Codes

Stacking Bolt

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

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

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	Outside Diameter	Availability of Clamp Body Materials & Designs			
STAUFF (DIN)	P / T / H (mm)	Profiled Design	Type H	Type RI	Code
1 (0)	6	●	●	○	106
	6,4	●	●	○	106.4
	8	●	●	○	108
	9,5	●	●	○	109.5
	10	●	●	○	110
1A (1)	12	●	●	○	112
	6	●	●	○	106A
	6,4	●	●	○	106.4A
	8	●	●	○	108A
	9,5	●	●	○	109.5A
2 (2)	10	●	●	○	110A
	12	●	●	○	112A
	12,7	●	●	○	212.7
	13,5	●	●	○	213.5
	14	●	●	○	214
3 (3)	15	●	●	○	215
	16	●	●	○	216
	17,2	●	●	○	217.2
	18	●	●	○	218
	19	●	●	○	319
4 (4)	20	●	●	○	320
	21,3	●	●	○	321.3
	22	●	●	○	322
	25	●	●	○	325
	25,4	●	●	○	325.4
	6	○	○	●	406
	8	○	○	●	408
	10	○	○	●	410
	12	○	○	●	412
	12,7	○	○	●	412.7
	14	○	○	●	414
	15	○	○	●	415
	16	○	○	●	416
	17,2	○	○	●	417.2
	18	○	○	●	418
	19	○	○	●	419
	26,9	●	●	○	426.9
	28	●	●	○	428
	28,6	●	○	○	428.6
	30	●	●	○	430
	32	●	●	○	432

Group	Outside Diameter	Availability of Clamp Body Materials & Designs			
STAUFF (DIN)	P / T / H (mm)	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
	20	○	○	●	620
	21,3	○	○	●	621.3
	22	○	○	●	622
6 (6)	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
	57,2	●	●	○	757.2
7 (7)	60,3	●	●	○	760.3
	63,5	●	●	○	763.5
	70	●	●	○	770
	73	●	●	○	773
	76,1	●	●	○	776.1
8 (8)	88,9	●	●	○	888.9
	102	●	●	○	8102L

● Standard Option

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

③ Clamp Body Design & Material

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

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

Profiled Design

-  Polypropylene
Code: **PP**
-  Polypropylene (Colour: Black)
Code: **PP-BK**
-  Polyamide
Code: **PA**
-  Thermoplastic Elastomer (87 Shore-A)
Code: **SA**
-  Aluminium
Code: **AL** (for STAUFF Group 1A to 6 only)

Type H (Smooth)

-  Polypropylene
Code: **PP-H**
-  Polypropylene (Colour: Black)
Code: **PP-H-BK**
-  Polyamide
Code: **PA-H**
-  Thermoplastic Elastomer (87 Shore-A)
Code: **SA-H**

Type RI (with Elastomer Insert)

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

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

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

④ Mounting & Fitting Combination

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

Installation with Cover Plate and Bolts

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

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

Installation with Locking Plate and Bolts

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

Installation with Inserts and Bolts

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

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

Installation with Bolts only

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

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

* Special lengths of Socket Cap Screws IS required. For exact lengths, please see details of Hexagon Head Bolt, type AS (for use with Cover Plates DP) on page 26.

⑤ Thread Type

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

Metric ISO thread
Code: **M**

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

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

⑥ Material & Surface Finishing

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

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

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

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

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

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

⑦ Assembling & Kitting

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

Components supplied separately

Code: **none** (standard option)

Components assembled

Code: **A** (special option)

Components packed in kits

Code: **K** (special option)



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

Order Code

SP-212.7-PP-DP-AS-M-W10

W10 is the standard option for this type of installation.



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

Order Code

SP-212.7-PP-IS-M-W10

W10 is the standard option for this type of installation.



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

Order Code

SP-212.7-PP-LI-M-W10

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



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

Order Code

SPV-212.7-PP-DP-AS-M-W10

W10 is the standard option for this type of installation.



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

Order Code

SPV-212.7-PP-IS-M-W10

W10 is the standard option for this type of installation.



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

Order Code

SPV-212.7-PP-LI-M-W10

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



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

Order Code (Mounting Rail TS not included.)

SM-212.7-PP-DP-AS-M-W3

W3 is the standard option for this type of installation.



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

Order Code (Mounting Rail TS not included.)

SM-212.7-PP-IS-M-W3

W3 is the standard option for this type of installation.



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

Order Code (Mounting Rail TS not included.)

SM-212.7-PP-LI-M-W3

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



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

Order Code

212.7-PP-DP-AS-M-W3

W3 is the standard option for this type of installation.



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

Order Code

212.7-PP-IS-M-W3

W3 is the standard option for this type of installation.



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

Order Code

212.7-PP-LI-M-W3

W3 is the standard option for this type of installation.



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

Order Code

212.7-PP-SIG-AF-M-W3

W3 is the standard option for this type of installation.



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

Order Code*

SP-106-PP-IS-M-W10

W10 is the standard option for this type of installation.

Thread codes

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

Metric ISO thread
Unified coarse (UNC) thread

M
U

Material codes

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

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

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

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

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

Technical Notes

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



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

Order Code

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

W10 is the standard option for this type of installation.



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

Order Code

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

W10 is the standard option for this type of installation.



Clamp Body
Profiled Inside Surface with Tension Clearance

36



Clamp Body
Smooth Inside Surface without Tension Clearance

38



Clamp Body with Elastomer Insert

39



Weld Plate for Single Clamps

SPAL

40



Weld Plate for Double Clamps

SPAS

40



Elongated Weld Plate for Single Clamps

SPAL-DUEB

41



Elongated Weld Plate for Double Clamps

SPAS-DUEB

41



Mounting Rail Nut

GMV

42



Mounting Rail

STSV

42



Channel Rail Adaptor

CRA

43



Cover Plate for Single Clamps

DPAL

44



Cover Plate for Double Clamps

DPAL

44



Hexagon Head Bolt

AS

45



Socket Cap Screw

IS

45



Safety Washer (DIN 93)

SI

46



Safety Washer (DIN 463)

SI

46



Safety Locking Plate

SIP

47



Stacking Bolt

AF

47

Clamp Assemblies

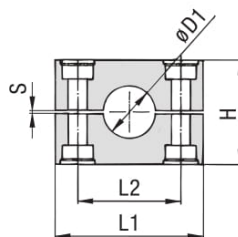
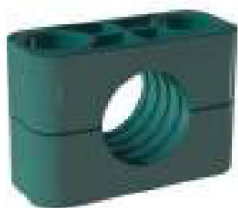
48

B

Clamp Body - Profiled Design

Profiled Inside Surface with Tension Clearance

B



Ordering Codes

Clamp Body

***3*006-*PP**

One clamp body is consisting of two clamp halves.

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

**3
006
PP**

Standard Materials



Polypropylene

Colour: Green
Material code: **PP**



Polypropylene

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



Polyamide

Colour: Black
Material code: **PA**



Thermoplastic Elastomer (87 Shore-A)

Colour: Black
Material code: **SA**



Aluminium

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

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

Special Materials

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

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

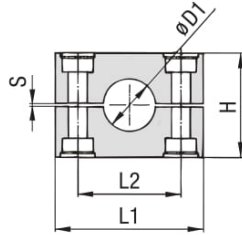
Product Features

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

Group	STAUFF	DIN	Outside Diameter		Nominal Bore		Ordering Codes (2 Clamp Halves) (** = Material)	Dimensions (mm/in)					
			Pipe / Tube Ø D1 (mm)	(in)	Pipe (in)	Copper Tube ASTM B88 (in)		L1 PP/PA/SA	L1 AL	L2	H	S min.	Width
3S	1		6				3006-**-**						
			6,4	1/4			3006.4-**-**						
			8	5/16			3008-**-**						
			9,5	3/8		1/4	3009.5-**-**						
			10		1/8		3010-**-**						
			12				3012-**-**						
			12,7	1/2		3/8	3012.7-**-**	55	56	33	32	0,6	30,5
			13,5		1/4		3013.5-**-**	2.16	2.20	1.30	1.26	.02	1.20
			14				3014-**-**						
			15				3015-**-**						
			16	5/8		1/2	3016-**-**						
			17,2		3/8		3017.2-**-**						
			18				3018-**-**						
			20				3020-**-**						
4S	2		19	3/4			4019-**-**						
			20				4020-**-**						
			21,3		1/2		4021.3-**-**						
			22	7/8		3/4	4022-**-**	70	70	45	48	0,6	30,5
			25				4025-**-**	2.76	2.76	1.77	1.89	.02	1.20
			25,4	1			4025.4-**-**						
			26,9		3/4		4026.9-**-**						
			28				4028-**-**						
			30				4030-**-**						
			30				5030-**-**						
5S	3		32	1-1/4			5032-**-**						
			33,7		1		5033.7-**-**						
			35			1-1/4	5035-**-**	85	85	60	60	0,6	30,5
			38	1-1/2			5038-**-**	3.35	3.35	2.36	2.36	.02	1.20
			40				5040-**-**						
			41,3		1-1/2		5041.3-**-**						
			42		1-1/4		5042-**-**						
6S	4		38	1-1/2			6038-**-**						
			42		1-1/4		6042-**-**						
			44,5	1-3/4			6044.5-**-**						
			48,3		1-1/2		6048.3-**-**						
			50,8	2			6050.8-**-**						
			54		2		6054-**-**	115	120	90	89	2	45
			55				6055-**-**	4.53	4.72	3.54	3.50	.08	1.77
			57				6057-**-**						
			57,2	2-1/4			6057.2-**-**						
			60,3		2		6060.3-**-**						
			63,5	2-1/2			6063.5-**-**						
			65				6065-**-**						
			70	2-3/4			6070-**-**						

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

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



Clamp Body ▪ Profiled Design

Profiled Inside Surface with Tension Clearance



B

Group	STAUFF	DIN	Outside Diameter		Nominal Bore	Ordering Codes (2 Clamp Halves) (** = Material)	Dimensions (mm/in)					
			Pipe / Tube Ø D1 (mm)	(in)	Pipe (in)		L1 PP/PA	L1 AL	L2	H	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-**-						
8S	6		88,9	3-1/2	3	7088.9-**-	206 8.11	208 8.19	168 6.61	168 6.61	2 .08	80 3.15
			88,9	3-1/2	3	8088.9-**-						
			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-**-						
			168		6	10168-**-						
10S	8		177,8			10177.8-**-	336 13.22	326 12.83	265 10.43	270 10.63	3 .12	120 4.72
			193,7			10193.7-**-						
			203	8		10203-**-						
			216			10216-**-						
			219		8	10219-**-						
			219		8	11219-**-						
11S	9		273		10	11273-**-	470 18.50	470 18.50	395 15.55	410 16.14	8 .31	162 6.38
			324		12	11324-**-						
12S	10		356		14	12356-**-	630 24.80	630 24.80	534 21.02	530 20.87	20 .79	182 7.16
			406		16	12406-**-						

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

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

Ordering Codes

Clamp Body

***7*060.3-*PP**

One clamp body is consisting of two clamp halves.

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

**7
060.3
PP**

Standard Materials



Polypropylene

Colour: Green

Material code: **PP**



Polypropylene

Colour: Black

Material code: **PP-BK**



Polyamide

Colour: Black

Material code: **PA**



Aluminium

Colour: Self-Colour

Material code: **AL**

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

Special Materials

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

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

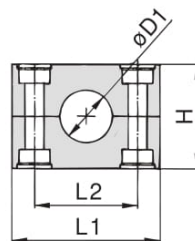
Product Features

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

Clamp Body - Type H

Smooth Inside Surface without Tension Clearance

B



Ordering Codes

Clamp Body

***3*006-*PP-H**

One clamp body is consisting of two clamp halves.

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

3
006
PP-H

Standard Materials



Polypropylene

Colour: Green

Material code: **PP-H**



Polypropylene

Colour: Green

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



Polyamide

Colour: Black

Material code: **PA-H**



Thermoplastic Elastomer (87 Shore-A)

Colour: Black

Material code: **SA-H**

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

Special Materials

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

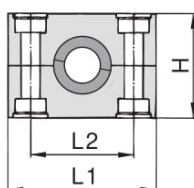
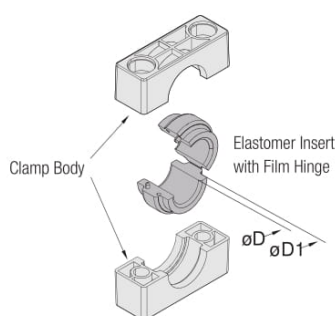
See pages 156 / 157 for material properties and technical information.

Product Features

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

Group	STAUFF	DIN	Outside Diameter		Ordering Codes (2 Clamp Halves) (*-*H = Material)	Dimensions (mm/in)			
			Hose Ø D1 (mm)	(in)		L1	L2	H	Width
3S	1		6		3006-**-H	55 2.16	33 1.30	30,5 1.20	30,5 1.20
			6,4	1/4	3006.4-**-H				
			8	5/16	3008-**-H				
			9,5	3/8	3009.5-**-H				
			10		3010-**-H				
			12		3012-**-H				
			12,7	1/2	3012.7-**-H				
			13,5		3013.5-**-H				
			14		3014-**-H				
			15		3015-**-H				
			16	5/8	3016-**-H				
			17,2		3017.2-**-H				
			18		3018-**-H				
4S	2		19	3/4	4019-**-H	70 2.76	45 1.77	46,5 1.83	30,5 1.20
			20		4020-**-H				
			21,3		4021.3-**-H				
			22	7/8	4022-**-H				
			25		4025-**-H				
			25,4	1	4025.4-**-H				
			26,9		4026.9-**-H				
			28		4028-**-H				
5S	3		30		4030-**-H	85 3.35	60 2.36	58 2.28	30,5 1.20
			32	1-1/4	5032-**-H				
			33,7		5033.7-**-H				
			35		5035-**-H				
			38	1-1/2	5038-**-H				
			40		5040-**-H				
			41,3		5041.3-**-H				
			42		5042-**-H				
6S	4		38	1-1/2	6038-**-H	115 4.53	90 3.54	87 3.43	45 1.77
			42		6042-**-H				
			44,5	1-3/4	6044.5-**-H				
			48,3		6048.3-**-H				
			50,8	2	6050.8-**-H				
			55		6055-**-H				
			57		6057-**-H				
			57,2	2-1/4	6057.2-**-H				
			60,3		6060.3-**-H				
			63,5	2-1/2	6063.5-**-H				
			65		6065-**-H				
			70	2-3/4	6070-**-H				

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



Clamp Body with Elastomer Insert Type RI



Group	STAUFF	DIN	Outside Diameter Pipe / Tube / Hose		Ordering Codes Clamp Assembly (Clamp Body + Insert)	Clamp Body (2 Clamp Halves)	Insert *	Dimensions (mm/in)				
			Ø D (mm)	(in)				Ø D1	L1	L2	H	Width
4S	2		6		4006-**-R	4S-**-R	RI-06-4/4S	25 .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					
5S	3		19	3/4	4019-**-R	5S-**-R	RI-19-4/4S	38 1.50	85 3.35	60 2.36	58 2.28	30,5 1.20
			20		5020-**-R		RI-20-6/5S					
			21,3		5021.3-**-R		RI-21.3-6/5S					
			22	7/8	5022-**-R		RI-22-6/5S					
			25		5025-**-R		RI-25-6/5S					
			26,9		5026.9-**-R		RI-26.9-6/5S					
			28		5028-**-R		RI-28-6/5S					
			30		5030-**-R		RI-30-6/5S					
			32	1-1/4	5032-**-R		RI-32-6/5S					
			32	1-1/4	6032-**-R		RI-32-6S					
6S	4		33,7		6033.7-**-R	6S-**-R	RI-33.7-6S	64 2.52	115 4.53	90 3.54	87 3.43	45 1.77
			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					

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

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

Ordering Codes

Clamp Assembly

***4*006-*PP-R**

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

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

Clamp Body

***4S-*PP-R**

One clamp body is consisting of two clamp halves.

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

Elastomer Insert

***RI-*06-*4/4S**

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

Standard Materials



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



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



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

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

Special Materials

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

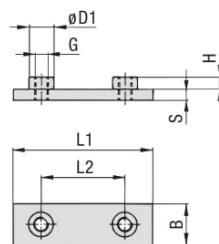
See pages 156 / 157 for material properties and technical information.

Product Features

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

Weld Plate for Single Clamps Type SPAL

B



Ordering Codes

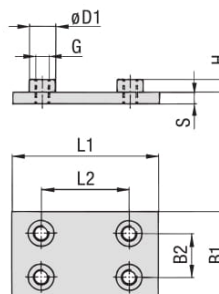
Weld Plate *SPAL-*3S-*M-*W2

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

Group STAUFF	DIN	Dimensions (mm/in)						Thread G	ØD1	Ordering 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. Contact STAUFF for further information.

Weld Plate for Double Clamps Type SPAS



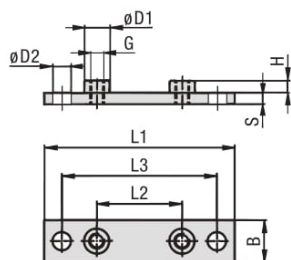
Ordering Codes

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

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

Group STAUFF	DIN	Dimensions (mm/in)						Thread G	ØD1	Ordering 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. Contact STAUFF for further information.



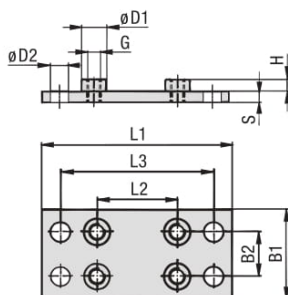
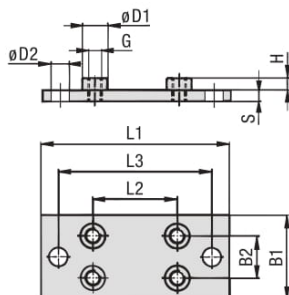
Elongated Weld Plate for Single Clamps Type SPAL-DUEB



B

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

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



Elongated Weld Plate for Double Clamps Type SPAS-DUEB



Design for STAUFF Group 10S to 12S

STAUFF Group 3S to 9S

STAUFF Group 10S to 12S

Group STAUFF	DIN	Dimensions (mm/in)										Ordering Codes (Standard Options)
		L1	L2	L3	B1	B2	S	H	Thread G	ØD1	ØD2	
3S	1	113	33	85	60	30.5	8	8	M10	18	13	SPAS-DUEB-3S-M-W2
		4.45	1.30	3.35	2.36	1.20	.31	.31	3/8-16 UNC	.71	.51	SPAS-DUEB-3S-U-W2
4S	2	125	45	97	60	30.5	8	8	M10	18	13	SPAS-DUEB-4S-M-W2
		4.92	1.77	3.82	2.36	1.20	.31	.31	3/8-16 UNC	.71	.51	SPAS-DUEB-4S-U-W2
5S	3	140	60	112	60	30.5	8	8	M10	18	13	SPAS-DUEB-5S-M-W2
		5.51	2.36	4.41	2.36	1.20	.31	.31	3/8-16 UNC	.71	.51	SPAS-DUEB-5S-U-W2
6S	4	187	90	155	90	46	10	8	M12	20	16	SPAS-DUEB-6S-M-W2
		7.36	3.54	6.10	3.54	1.81	.39	.31	7/16-14 UNC	.78	.62	SPAS-DUEB-6S-U-W2
7S	5	238	122	198	120	61	10	12	M16	24	21	SPAS-DUEB-7S-M-W2
		9.37	4.80	7.80	4.72	2.40	.39	.47	5/8-11 UNC	.94	.83	SPAS-DUEB-7S-U-W2
8S	6	309	168	259	160	81	15	18	M20	30	26	SPAS-DUEB-8S-M-W1
		12.17	6.61	10.20	6.61	3.19	.59	.71	3/4-10 UNC	1.18	1.02	SPAS-DUEB-8S-U-W1
9S	7	370	205	310	180	91	15	21	M24	35	31	SPAS-DUEB-9S-M-W1
		14.57	8.07	12.20	7.09	3.58	.59	.83	7/8-9 UNC	1.38	1.22	SPAS-DUEB-9S-U-W1
10S	8	460	265	400	240	121	25	21	M30	45	31	SPAS-DUEB-10S-M-W1
		18.11	10.43	15.75	9.45	4.78	.98	.83	1-1/8-7 UNC	1.77	1.22	SPAS-DUEB-10S-U-W1
11S	9	590	395	530	324	166	30	38	M30	50	31	SPAS-DUEB-11S-M-W1
		23.23	15.55	20.87	12.76	6.54	1.18	1.50	1-1/4-7 UNC	1.97	1.22	SPAS-DUEB-11S-U-W1
12S	10	750	534	690	364	186	30	38	M30	50	31	SPAS-DUEB-12S-M-W1
		29.53	21.02	27.17	14.33	7.32	1.18	1.50	1-1/4-7 UNC	1.97	1.22	SPAS-DUEB-12S-U-W1

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

Ordering Codes

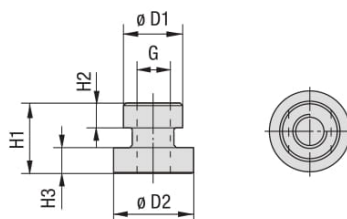
Weld Plate *SPAS-DUEB-*3S-*M-*W2

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

Mounting Rail Nut

(for Use with Mounting Rail STSV)
Type GMV

B



Ordering Codes

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

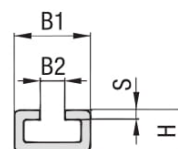
* Mounting Rail Nut		GMV
* STAUFF Group	3S to 5S (DIN Group 1 to 3) 6S (DIN Group 4)	3-5S 6S
* Thread code	Metric ISO thread Unified coarse (UNC) thread	M U
* Material code	Carbon Steel, zinc/nickel-plated Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303) Stainless Steel V4A 1.4401 / 1.4571 (AISI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

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

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

Mounting Rail

(for Use with Mounting Rail Nut GMV)
Type STSV



Ordering Codes

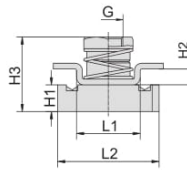
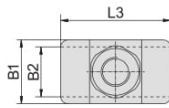
Mounting Rail *STSV-*1M-*W1

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

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

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

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



B

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

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

Ordering Codes

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

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

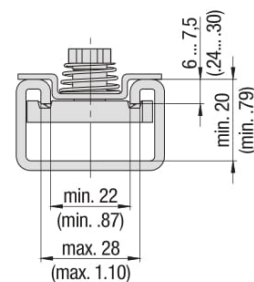
Compatibility with Channel Rails

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



HALFEN	HILTI	UNISTRUT®	STAUFF (Cushion Clamp Series)
HM 41/41	MQ-21, MQ-41, MQ-52, MQ-72	P1000, P1000T, P1000V, P1000VT, P1001	SCS-048-1-PL, SCS-048-1-GR
HZA 41/22	MQ-21U, MQ-41U, MQ-72U	P2000, P2000T	SCS-120-1-PL, SCS-120-1-GR
HZM 41/41	MQ-21D, MQ-41D, MQ-52-72D	P3003, P3003T, P3300V, P3300VT, P3301	See page 149 for technical information.
HZM 41/22		P4000, P4000T	
HL 41/41, HL 41/82		P5000, P5000T, P5001, P5500, P5500T, P5501	

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



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

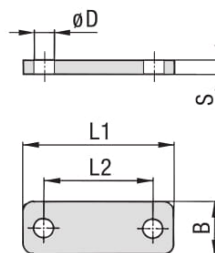
Recommended Bolt Lengths when using the Channel Rail Adaptor, Type CRA

Group STAUFF	DIN	Hexagon Head Bolts AS (used with Cover Plates DPAL or DPAS) 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 x 100	7/16-14 UNC x 3-3/4	M12 x 75	7/16-14 UNC x 3

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

Cover Plate for Single Clamps Type DPAL

B



Ordering Codes

Cover Plate

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

* Cover Plate for Single Clamps

DPAL

* STAUFF Group

3S

* Material code

Carbon Steel, uncoated

W1

Carbon Steel, phosphated

W2

Carbon Steel, zinc/nickel-plated

W3

Stainless Steel V2A

W4

1.4301 / 1.4305 (AISI 304 / 303)

W5

Stainless Steel V4A

1.4401 / 1.4571 (AISI 316 / 316 Ti)

Aluminium EN AW-6060

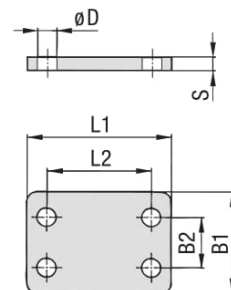
(for group sizes 3S to 5S only)

W85

Group	Dimensions (mm/in)					Ordering Codes	
STAUFF	DIN	L1	L2	B	S	ØD	(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. Contact STAUFF for further information.

Cover Plate for Double Clamps Type DPAS



Ordering Codes

Cover Plate

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

* Cover Plate for Double Clamps

DPAS

* STAUFF Group

3S

* Material code

Carbon Steel, uncoated

W1

Carbon Steel, phosphated

W2

Carbon Steel, zinc/nickel-plated

W3

Stainless Steel V2A

W4

1.4301 / 1.4305 (AISI 304 / 303)

W5

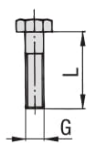
Stainless Steel V4A

1.4401 / 1.4571 (AISI 316 / 316 Ti)

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

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

Hexagon Head Bolt Type AS



Hexagon Head Bolt AS

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

Dimensions applicable only when used with Cover Plates DPAL or DPAS

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

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



B

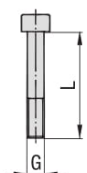
Ordering Codes

Hexagon Head Bolt *AS-*M10x70-*W1

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

* 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	Ordering Codes (Standard Options)
3S	1	M10 x 30	IS-M10x30-W1
		3/8-16 UNC x 1	IS-3/8-16UNCx1-W3*
4S	2	M10 x 40	IS-M10x40-W1
		3/8-16 UNC x 1-3/4	IS-3/8-16UNCx1-3/4-W3*
5S	3	M10 x 50	IS-M10x50-W1
		3/8-16 UNC x 2	IS-3/8-16UNCx2-W3*
6S	4	M12 x 80	ISM12x80-W1
		7/16-14 UNC x 3-1/4	IS-7/16-14UNCx3-1/4-W3*

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

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



Ordering Codes

Socket Cap Screw *IS-*M10x50-*W1

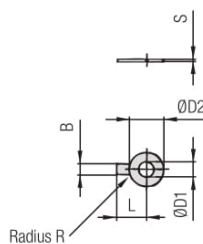
* Type of Bolt	Socket Cap Screw (according to ISO 4762 or ANSI / ASME B18.3)	IS
* Thread type and size acc. to dimension table		M10x50
* Material code	Carbon Steel, uncoated	W1
	Carbon Steel, zinc/nickel-plated	W3
	Stainless Steel V2A	W4
	1.4301 / 1.4305 (AISI 304 / 303)	
	Stainless Steel V4A	W5
	1.4401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

Safety Washer

(for Use with Hexagon Head Bolt AS)

Type SI (DIN 93)

B



Safety Washer SI

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

Ordering Codes

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

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

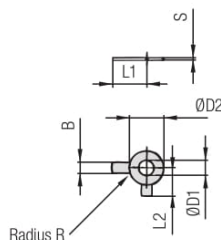
Group	STAUFF	DIN	Dimensions (mm/in)		ØD1	B	ØD2	L	R	S	Ordering Codes (Standard Options)
3S	1		10,5	10	26	22	4	0,75			SI-10.5-DIN93-W3
			.41	.39	1.02	.87	.16	.03			
4S	2		10,5	10	26	22	4	0,75			SI-10.5-DIN93-W3
			.41	.39	1.02	.87	.16	.03			
5S	3		10,5	10	26	22	4	0,75			SI-10.5-DIN93-W3
			.41	.39	1.02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

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

Safety Washer

(for Use with Hexagon Head Bolt AS)

Type SI (DIN 463)



Safety Washer SI

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

Ordering Codes

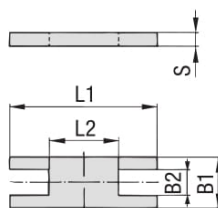
Safety Washer *SI-*10.5-*DIN463-*W3

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

Group	STAUFF	DIN	Dimensions (mm/in)		ØD1	B	ØD2	L1	L2	R	S	Ordering Codes (Standard Options)
3S	1		10,5	10	21	22	13	4	0,75			SI-10.5-DIN463-W3
			.41	.39	.83	.87	.51	.16	.03			
4S	2		10,5	10	21	22	13	4	1			SI-10.5-DIN463-W3
			.41	.39	.83	.87	.51	.16	.04			
5S	3		10,5	10	21	22	13	4	1			SI-10.5-DIN463-W3
			.41	.39	.83	.87	.51	.16	.04			
6S	4		13	12	24	28	15	6	1			SI-13-DIN463-W3
			.51	.47	.94	1.10	.59	.24	.04			
7S	5		17	15	30	32	18	6	1			SI-17-DIN463-W3
			.67	.59	1.18	1.26	.71	.24	.04			
8S	6		21	18	37	36	21	6	1			SI-21-DIN463-W3
			.83	.71	1.46	1.42	.83	.24	.04			
9S	7		25	20	44	42	25	6	1			SI-25-DIN463-W3
			.98	.79	1.73	1.65	.98	.24	.04			
10S	8		31	26	56	52	32	10	1,6			SI-31-DIN463-W3
			1.22	1.02	2.20	2.05	1.26	.39	.06			
11S	9		31	26	56	52	32	10	1,6			SI-31-DIN463-W3
			1.22	1.02	2.20	2.05	1.26	.39	.06			
12S	10		31	26	56	52	32	10	1,6			SI-31-DIN463-W3
			1.22	1.02	2.20	2.05	1.26	.39	.06			

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

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



B

Group STAUFF	DIN	Dimensions (mm/in)		B1	B2	S	Ordering Codes (Standard Options)
		L1	L2				
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	

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

Ordering Codes

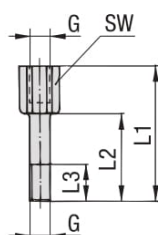
Safety Locking Plate

***SIP-*3S-*W2**

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

Stacking Bolt

(for Use with Safety Locking Plate SIP)
Type AF



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

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

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

Ordering Codes

Stacking Bolt

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

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

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

① ② ③ ④ ⑤ ⑥ ⑦

① Type of Installation

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



Without Installation Equipment

Code: **none**

Installation on Weld Plate



Weld Plate for Single Clamps

Code: **SPAL**



Weld Plate for Double Clamps

Code: **SPAS**



Elongated Weld Plate for Single Clamps

Code: **SPAL-DUEB**



Elongated Weld Plate for Double Clamps

Code: **SPAS-DUEB**

Installation on Mounting / Channel Rail



Mounting Rail Nut

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



Channel Rail Adaptor

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

② Group Size & Diameter

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

Group	Outside Diameter	Availability of Clamp Body Materials & Designs			
STAUFF (DIN)	P / T / H (mm)	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	Outside Diameter	Availability of Clamp Body Materials & Designs			
STAUFF (DIN)	P / T / H (mm)	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
5S (3)	21,3	●	●	○	4021.3
	22	●	●	○	4022
	25	●	●	○	4025
	25,4	●	●	○	4025.4
	26,9	●	●	○	4026.9
	28	●	●	○	4028
	30	●	●	○	4030
	20	○	○	●	5020
	21,3	○	○	●	5021.3
	22	○	○	●	5022
	25	○	○	●	5025
	26,9	○	○	●	5026.9
6S (4)	28	○	○	●	5028
	30	●	●	●	5030
	32	●	●	●	5032
	33,7	●	●	○	5033.7
	35	●	●	○	5035
	38	●	●	○	5038
	40	●	●	○	5040
	41,3	●	●	○	5041.3
	42	●	●	○	5042
	32	○	○	●	6032
	33,7	○	○	●	6033.7
	35	○	○	●	6035
7S (5)	38	●	●	○	6038
	38,7	○	○	●	6038.7
	40	○	○	●	6040
	42	●	●	●	6042
	44,5	●	●	○	6044.5
	45,5	○	○	●	6045.5
	48	○	○	●	6048
	48,3	●	●	○	6048.3
	50,8	●	●	○	6050.8
	51	○	○	●	6051
	53,4	○	○	●	6053.4
	54	●	○	○	6054

② Group Size & Diameter

CONTINUATION

Group	Outside Diameter	Availability of Clamp Body Materials & Designs			
STAUFF (DIN)	P / T / H (mm)	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
	55	○	○	●	7055
	57	○	○	●	7057
	60	○	○	●	7060
	60,3	●	○	○	7060.3
7S (5)	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
	80	○	○	●	8080
8S (6)	88,9	●	○	○	8088.9
	100	●	○	○	8100
	102	●	○	●	8102
	108	●	○	○	8108
	114	●	○	○	8114
	127	●	○	○	8127
	133	●	○	○	8133
	114	○	○	●	9114
	127	●	○	○	9127
	133	●	○	●	9133
	140	●	○	●	9140
	152	●	○	○	9152
9S (7)	159	●	○	○	9159
	165	●	○	○	9165
	168	●	○	○	9168
	150	○	○	●	10150
	165	○	○	●	10165
	168	●	○	●	10168
	172	○	○	●	10172
	177,8	●	○	○	10177.8
	193,7	●	○	○	10193.7
	203	●	○	○	10203
	216	●	○	○	10216
	219	●	○	○	10219
10S (8)	219	●	○	○	11219
	273	●	○	○	11273
	324	●	○	○	11324
11S (9)	356	●	○	○	12356
	406	●	○	○	12406

● Standard Option

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

③ Clamp Body Design & Material

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

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

Profiled Design



Polypropylene
Code: **PP**



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



Polyamide
Code: **PA**



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



Aluminium
Code: **AL**

Type H (Smooth)



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



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



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



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

Type RI (with Elastomer Insert)



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



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

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

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

④ Mounting & Fitting Combination

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

Installation with Cover Plate and Bolts

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

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

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

Installation with Locking Plate and Bolts

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

Installation with Bolts only

Socket Cap Screws IS
Code: **IS**

* Special lengths of Socket Cap Screws IS required. For exact lengths, please see details of Hexagon Head Bolt, type AS (for use with Cover Plates DPAL or DPAS) on page 45.

⑤ Thread Type

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

Metric ISO thread
Code: **M**

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

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

⑥ Material & Surface Finishing

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

⑦ Assembling & Kitting

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

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

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

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



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

Order Code

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

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



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

Order Code

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

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



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

Order Code

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

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



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

Order Code

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

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



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

Order Code

SPAL-3006-PP-IS-M-W12

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



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

Order Code

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

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



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

Order Code (Mounting Rail STSV not included.)

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

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



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

Order Code (Mounting Rail STSV not included.)

GMV-3006-PP-IS-M-W13

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



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

Order Code

3006-PP-DPAL-AS-M-W19

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



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

Order Code

3006-PP-SIP-AF-M-W2

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

Thread codes

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

Metric ISO thread
Unified coarse (UNC) thread

M
U

Material codes

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

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



Clamp Body
Profiled Inside Surface with Tension Clearance

54



Clamp Body
Smooth Inside Surface without Tension Clearance

54



Single Weld Plate

SP

55



Group Weld Plate

RAP

55



Hexagon Rail Nut

SM / SMG

56



Mounting Rail

TS

56



Channel Rail Adaptor

CRA

57



Cover Plate

GD

58



Hexagon Head Bolt

AS

58



Socket Cap Screw

IS

59



Safety Locking Plate

SI

60



Safety Locking Plate

SIV

60



Stacking Bolt

AF

61

Clamp Assemblies

62

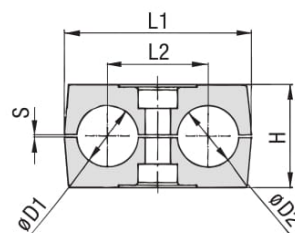
C

Clamp Body - Profiled Design

Profiled Inside Surface with Tension Clearance

Clamp Body - Type H

Smooth Inside Surface w/o Tension Clearance



C

Ordering Codes

Clamp Body

***1*06/06*-PP**

One clamp body is consisting of two clamp halves.

* 1st Part of STAUFF Group

1

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

06/06

* Material code (see below)

PP

Designs & Standard Materials



Polypropylene - Profiled Design

Profiled inside surface with tension clearance

Colour: Green

Material code: **PP**



Polypropylene - Profiled Design

Profiled inside surface with tension clearance

Colour: Black

Material code: **PP-BK**



Polypropylene - Type H

Smooth inside surface without tension clearance

Colour: Green

Material code: **PP-H**



Polypropylene - Type H

Smooth inside surface without tension clearance

Colour: Black

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



Polyamide - Profiled Design

Profiled inside surface with tension clearance

Colour: Black

Material code: **PA**



Polyamide - Type H

Smooth inside surface without tension clearance

Colour: Black

Material code: **PA-H**

See pages 154 / 155 for properties and technical information.

Special Materials

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

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

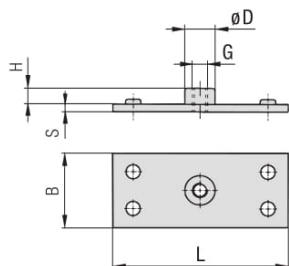
Product Features

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

Group	STAUFF	DIN	Outside Diameter		Nominal Bore		Ordering Codes (2 Clamp Halves) (**-* = Material)	Dimensions (mm/in)					
			Ø D1 / Ø D2 (mm)	(in)	Pipe (in)	Copper Tube ASTM B88 (in)		L1	L2	H	Profiled Design S min.	Type H H	Width
1D	1	1	6				106/06-**-*						
			6,4	1/4			106.4/06.4-**-*						
			8	5/16			108/08-**-*	36	20	27	0,6	26,5	30
			9,5	3/8		1/4	109.5/09.5-**-*	1.42	.79	1.06	.02	1.04	1.18
			10		1/8		110/10-**-*						
			12				112/12-**-*						
2D	2	2	12,7	1/2		3/8	212.7/12.7-**-*						
			13,5		1/4		213.5/13.5-**-*						
			14				214/14-**-*						
			15				215/15-**-*	53	29	27	0,7	26	30
			16	5/8		1/2	216/16-**-*	2.09	1.14	1.06	.03	1.02	1.18
			17,2		3/8		217.2/17.2-**-*						
3D	3	3	18				218/18-**-*						
			19	3/4			319/19-**-*						
			20				320/20-**-*						
			21,3		1/2		321.3/21.3-**-*	67	36	37	0,7	36,5	30
			22	7/8		3/4	322/22-**-*	2.64	1.42	1.46	.03	1.44	1.18
			25				325/25-**-*						
4D	4	4	25,4	1			325.4/25.4-**-*						
			26,9		3/4		426.9/26.9-**-*						
			28				428/28-**-*	80	45	40	0,7	38	30
			30				430/30-**-*	3.15	1.77	1.57	.03	1.46	1.18
5D	5	5	32	1-1/4			532/32-**-*						
			33,7		1		533.7/33.7-**-*						
			35			1-1/4	535/35-**-*	106	56	53	0,7	52	30
			38	1-1/2			538/38-**-*	4.17	2.20	2.09	.03	2.04	1.18
			40				540/40-**-*						
			42		1-1/4		542/42-**-*						

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

Single Weld Plate Type SP



C

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

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

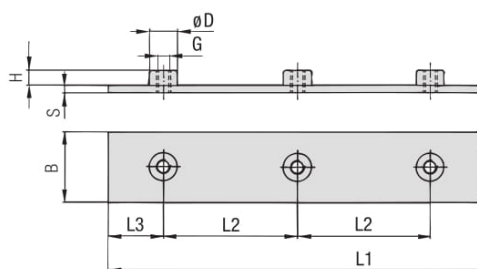
Ordering Codes

Weld Plate

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

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

Group Weld Plate for 5 Clamp Bodies Type RAP



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

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

Ordering Codes

Weld Plate

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

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

Hexagon Rail Nut

(for Use with Mounting Rail TS)

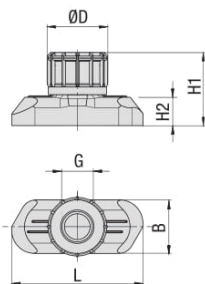
Type SM / SMG



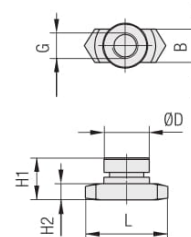
STAUFF Group 1D



STAUFF Group 2D to 5D



STAUFF Group 1D



STAUFF Group 2D to 5D

Ordering Codes

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

* Hexagon Rail Nut

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

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

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

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

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

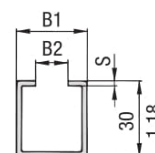
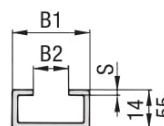
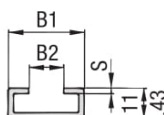
The Hexagon Rail Nut, type SM-1-8/1D is also suitable for Standard Series, STAUFF Group 1 to 8.

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

Mounting Rail

(for Use with Hexagon Rail Nut SM / SMG)

Type TS



Mounting Rail TS-11

Mounting Rail TS-14

Mounting Rail TS-30

Ordering Codes

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

* Mounting Rail **TS**

* Height of rail 11 mm / .43 in **11**
14 mm / .55 in **14**
30 mm / 1.18 in **30**

* Length of rail 1 m / 3.28 ft **1M**
2 m / 6.56 ft **2M**

Alternative lengths available upon request. Contact STAUFF for further information.

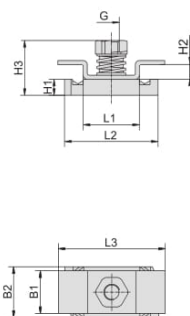
* Material code Carbon Steel, uncoated **W1**
Carbon Steel, hot-dip galvanised **W98**
Stainless Steel V2A **W4**
1.4301 / 1.4305 (AISI 304 / 303)
Stainless Steel V4A **W5**
1.4401 / 1.4571 (AISI 316 / 316 Ti)

Group	STAUFF	DIN	Dimensions (mm/in)	B1	B2	S	Ordering 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 1.10	11 .43	2 .08		Height 14 mm / .55 in TS-14-1M-W1		Height 14 mm / .55 in TS-14-2M-W1
4D	4								
5D	5						Height 30 mm / 1.18 in TS-30-1M-W1		Height 30 mm / 1.18 in TS-30-2M-W1

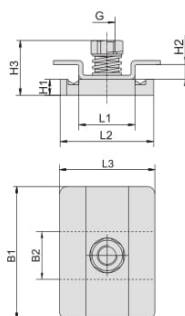
Mounting Rails, type TS-11/14/30 are suitable for all Twin Series and Standard Series group sizes.

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

Dimensional drawings: All dimensions in mm (in).



STAUFF Group 1D



STAUFF Group 2-3D / 4-5D

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



C

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

Ordering Codes

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

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

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

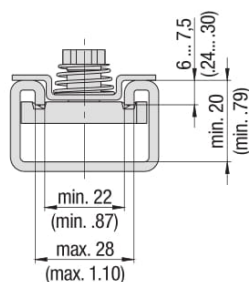
All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Compatibility with Channel Rails

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

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

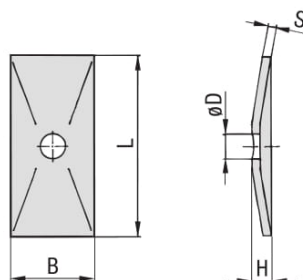
Contact STAUFF to check compatibility with additional types of channel rails.



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

Dimensional drawings: All dimensions in mm (in).

Cover Plate Type GD



C

Ordering Codes

Cover Plate

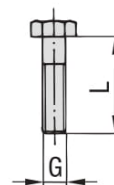
***GD-*1D-*W3**

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

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

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

Hexagon Head Bolt Type AS



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

Ordering Codes

Hexagon Head Bolt

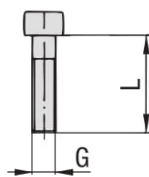
***AS-*M8x35-*W3**

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

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

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

Socket Cap Screw Type IS



Socket Cap Screw IS

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

Dimensions applicable only when used with Cover Plate GD



C

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

Ordering Codes

Socket Cap Screw *IS-*M8x35-*W3

* Type of bolt Socket Cap Screw
(according to ISO 4762 **IS**
or ANSI / ASME B18.3)

* Thread type and size acc. to dimension table **M8x35**

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

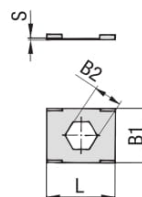
Stainless Steel V2A **W4**
1.4301 / 1.4305 (AISI 304 / 303)

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

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

Safety Locking Plate

Type SI (for Use with Stacking Bolt AF)



Safety Locking Plate SI
(Prevents Stacking Bolt from Loosening)

Ordering Codes

Safety Locking Plate

***SI-*1D-*W3**

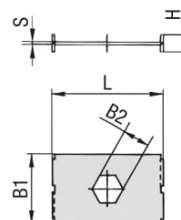
* Safety Locking Plate	SI
* STAUFF Group	1D (DIN Group 1) 2D to 5D (DIN Group 2 to 5)
	1D 2-5D
* Material code	Carbon Steel, zinc/nickel-plated W3 Stainless Steel V2A W4 1.4301 / 1.4305 (AISI 304 / 303) W4 Stainless Steel V4A W5 1.4401 / 1.4571 (AISI 316 / 316 Ti) W5

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

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

Safety Locking Plate

Type SIV (for Use with Stacking Bolt AF)



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

Ordering Codes

Safety Locking Plate

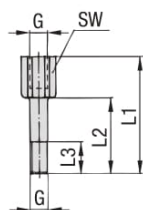
***SIV-*1D-*W3**

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

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

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

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



C

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

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

Ordering Codes

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

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

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

① ② ③ ④ ⑤ ⑥ ⑦

Please see page 63 with detailed order examples for some of the most popular Twin Series clamp assemblies.

C

① Type of Installation

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



Without Installation Equipment

Code: **none**

Installation on Weld Plate



Single Weld Plate

Code: **SP**



Group Weld Plate

Code: **RAP**

Installation on Mounting / Channel Rail



Mounting Rail Nut

Code: **SM** (Carbon Steel)

Code: **SMG** (Stainless Steel)



Channel Rail Adaptor

Code: **CRA**

② Group Size & Diameters

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

Group	Outside Diameter	Availability of Clamp Body Materials & Designs	
STAUFF (DIN)	P / T / H (mm)	Profiled Design	Type H
			Code
1D (1)	6	●	●
	6,4	●	●
	8	●	●
	9,5	●	●
	10	●	●
	12	●	●
2D (2)	12,7	●	●
	13,5	●	●
	14	●	●
	15	●	●
	16	●	●
	17,2	●	●
3D (3)	18	●	●
	19	●	●
	20	●	●
	21,3	●	●
	22	●	●
	25	●	●
4D (4)	25,4	●	●
	26,9	●	●
	28	●	●
	30	●	●
	32	●	●
	33,7	●	●
5D (5)	35	●	●
	38	●	●
	40	●	●
	42	●	●

③ Clamp Body Design & Material

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

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

Profiled Design



Polypropylene

Code: **PP**



Polypropylene (Colour: Black)

Code: **PP-BK**



Polyamide

Code: **PA**

Type H (Smooth)



Polypropylene

Code: **PP-H**



Polypropylene (Colour: Black)

Code: **PP-H-BK**



Polyamide

Code: **PA-H**

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

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

④ Mounting & Fitting Combination

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

Installation with Cover Plate and Bolt

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

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

Installation with Locking Plate and Bolt

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

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

⑤ Thread Type

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

Metric ISO thread

Code: **M**

Unified coarse (UNC) thread

Code: **U**

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

⑥ Material & Surface Finishing

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

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

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

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

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

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

⑦ Assembling & Kitting

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

Components supplied separately

Code: **none** (standard option)

Components assembled

Code: **A** (special option)

Components packed in kits

Code: **K** (special option)

● Standard Option



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

Order Code

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

W10 is the standard option for this type of installation.



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

Order Code

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

W3 is the standard option for this type of installation.



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

Order Code

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

W3 is the standard option for this type of installation.



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

Order Code

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

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



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

Order Code (Mounting Rail TS not included.)

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

W3 is the standard option for this type of installation.

Thread Codes

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

Metric ISO thread
Unified coarse (UNC) thread

M
U

Material Codes

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

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



Clamp Body
Profiled Inside Surface with Tension Clearance

66



Clamp Body with Elastomer Inserts

66



Weld Plate

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SPAD



Cover Plate

67

DPAD



Hexagon Head Bolt

68

AS



Mounting Rail Nut

68

GMV



Mounting Rail

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STSV



Channel Rail Adaptor

68

CRA



Socket Cap Screw

68

IS



Safety Locking Plate

68

SIP



Stacking Bolt

68

AF

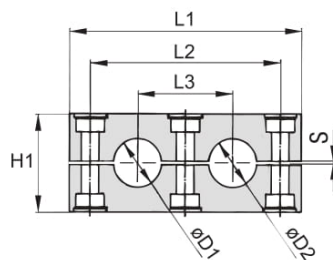
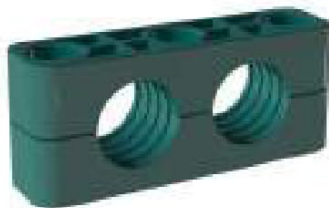
Clamp Assemblies

69

D

Clamp Body - Profiled Design

Profiled Inside Surface with Tension Clearance



D

Ordering Codes

Clamp Body *4*012.7/12.7-*PP

One clamp body is consisting of two clamp halves.

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

Standard Materials



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



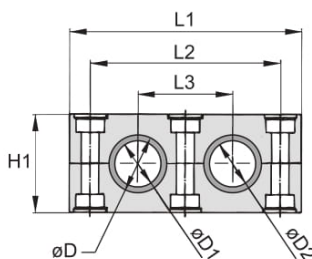
Polyamide
Colour: Black
Material code: **PA**

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

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

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

Clamp Body with Elastomer Inserts Type RI



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

Ordering Codes

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

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

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

Standard Materials



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



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



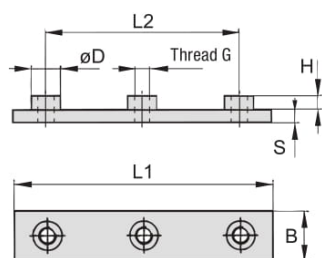
Elastomer Inserts
Thermoplastic Elastomer (73 Shore-A)
Colour: Black

Group	Outside Diameter Pipe / Tube / Hose Ø D1 / Ø D2		Ordering Codes (Clamp Assembly) (**R = Material)	Dimensions (mm/in)						
STAUFF	(mm)	(in)		Ø D	L1	L2	L3	H1	Width	
4S-D	6		4006/06-**R							
	8	5/16	4008/08-**R							
	10		4010/10-**R							
	12		4012/12-**R							
	12,7	1/2	4012.7/12.7-**R	25	115	90	45	48	30	
	14		4014/14-**R	.98	4.53	3.54	1.77	1.89	1.18	
	15		4015/15-**R							
	16	5/8	4016/16-**R							
	17,2		4017.2/17.2-**R							
	18		4018/18-**R							
5S-D	19	3/4	4019/19-**R							
	20		5020/20-**R							
	21,3		5021.3/21.3-**R							
	22	7/8	5022/22-**R							
	25		5025/25-**R	38	145	120	60	60	30	
	26,9		5026.9/26.9-**R	1.50	5.71	4.72	2.36	2.36	1.18	
	28		5028/28-**R							
	30		5030/30-**R							
	32	1-1/4	5032/32-**R							

See pages 154 / 155 for properties and technical information.

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

Weld Plate Type SPAD



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

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

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

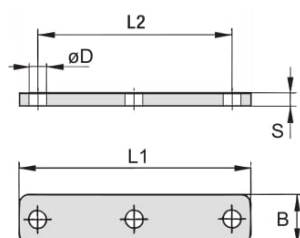
Ordering Codes

Weld Plate

***SPAD-*4S-*M-*W1**

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

D



Cover Plate Type DPAD

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

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

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

Ordering Codes

Cover Plate

***DPAD-*4S-*W1**

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

Hexagon Head Bolt Type AS



Hexagon Head Bolt AS

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

D

Ordering Codes

Hexagon Head Bolt *AS-*M10x70-*W1

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

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

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

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

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

Further Metal Hardware

For Use with the Heavy Twin Series



**Mounting Rail Nut
Type GMV**

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



**Mounting Rail
Type STSV**

Heavy Series
(See page 42 for details)



**Channel Rail Adaptor
Type CRA**

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



**Socket Cap Screw
Type IS**

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



**Safety Locking Plate
Type SIPD**

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



**Stacking Bolt
Type AF**

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

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

① ② ③ ④ ⑤ ⑥ ⑦

D

① Type of Installation

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



Without Installation Equipment
Code: **none**

Installation on Weld Plate



Single Weld Plate
Code: **SPAD**

Installation on Mounting / Channel Rail



Mounting Rail Nut
Code: **GMV**



Channel Rail Adaptor
Code: **CRA**

② Group Size & Diameters

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

Group	Outside Diameter P / T / H (mm)	Availability of Clamp Body Materials & Designs	Profiled Design	Type RI	Code
STAUFF					
4S-D	6	○	●	●	4006/06
	8	○	●	●	4008/08
	10	○	●	●	4010/10
	12	○	●	●	4012/12
	12,7	●	●	●	4012.7/12.7
	14	○	●	●	4014/14
	15	○	●	●	4015/15
	16	○	●	●	4016/16
	17,2	○	●	●	4017.2/17.2
	18	○	●	●	4018/18
	19	●	●	●	4019/19
	20	●	○	○	4020/20
	21,3	●	○	○	4021.3/21.3
	22	●	○	○	4022/22
	25,4	●	○	○	4025.4/25.4
	26,9	●	○	○	4026.9/26.9
5S-D	20	○	●	●	5020/20
	21,3	○	●	●	5021.3/21.3
	22	○	●	●	5022/22
	25	○	●	●	5025/25
	26,9	○	●	●	5026.9/26.9
	28	○	●	●	5028/28
	30	○	●	●	5030/30
	32	●	●	●	5032/32
	33,7	●	○	○	5033.7/33.7
	38	●	○	○	5038/38
	42	●	○	○	5042/42

● Standard Option

③ Clamp Body Design & Material

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

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

Profiled Design



Polypropylene
Code: **PP**



Polyamide
Code: **PA**

Type RI (with Elastomer Insert)



Polypropylene
Code: **PP-R**



Polyamide
Code: **PA-R**

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

④ Mounting & Fitting Combination

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

Installation with Cover Plate and Bolts

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

Installation with Locking Plate and Bolts

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

⑤ Thread Type

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

Metric ISO thread
Code: **M**

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

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

⑥ Material & Surface Finishing

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

⑦ Assembling & Kitting

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

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

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

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



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

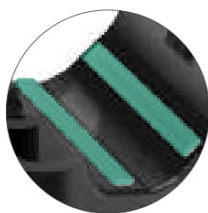
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Clamp Assemblies

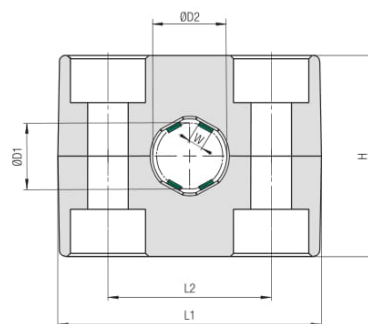
89

E

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



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



Ordering Codes

Clamp Body

Clamp Body, STAUFF Group 1A

***2-*12.7-*ACT**

***1-*06.4A-*ACT**

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

* STAUFF Group

* Exact outside diameter Ø D1 (mm)

* Material code

2

12.7

ACT

Group Size		Outside Diameter Ø D1		Ordering Code	Packaging Unit	Dimensions (mm/in)					
STAUFF	DIN	(mm)	(in)	(2 Clamp Halves)	(in pieces / bag)	ØD2	W	L1	L2	H	Width
1A	1	6		106A-ACT	25	9 .35	1,4 .06				
		6,4	1/4	106.4A-ACT	25	9,4 .37	1,5 .06				
		8		108A-ACT	25	11,0 .43	1,8 .07	37	20	26	30
		9,5	3/8	109.5A-ACT	25	12,5 .49	2,2 .09	1.46	.79	1.06	1.18
		10		110A-ACT	25	13 .51	2,3 .09				
		12		112A-ACT	25	15 .59	2,8 .11				
2	2	12,7	1/2	212.7-ACT	25	15,7 .62	3,5 .14				
		14		214-ACT	25	17 .67	3,5 .14				
		14,3	9/16	214.3-ACT	25	17,3 .68	3,5 .14	42	26	32	30
		15		215-ACT	25	18 .71	3,5 .14	1.65	1.02	1.30	1.18
		16	5/8	216-ACT	25	19 .74	3,5 .14				
		18		218-ACT	25	21 .83	3,5 .14				
3	3	19	3/4	319-ACT	25	22 .87	3,5 .14				
		20		320-ACT	25	23 .91	3,5 .14				
		21,3		321.3-ACT	25	24,3 .96	3,5 .14	50	33	35,5	30
		25		325-ACT	25	28 1.10	3,5 .14	1.97	1.30	1.42	1.18
		25,4	1	325.4-ACT	25	28,4 1.12	3,5 .14				
						31,1 1.22	6,0 .24				
4	4	26,9		426.9-ACT	25	32,2 1.27	6,0 .24	59	40	42	30
		28		428-ACT	25	34,2 1.35	6,0 .24	2.32	1.57	1,65	1.18
		30		430-ACT	25	36,2 1.43	7 .28				
5	5	32	1 1/4	532-ACT	25	39,2 1.54	7 .28	71	52	58	30
		35		535-ACT	25	42,2 1.66	8 .31	2.80	2.05	2.28	1.18
		38	1 1/2	538-ACT	25	46,2 1.82	8 .31				
		42		542-ACT	25						

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



ACT Mounting Hardware Installation on Single Weld Plates

Required components (for use with single weld plate):

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

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

Material Code
W55

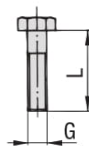
ACT Mounting Hardware Material Properties and Handling Instructions

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

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

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

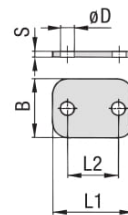
ACT Hexagon Head Bolt Type AS ... W55 (according to DIN 931 / 933)



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

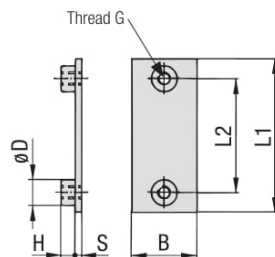
Group	Dimensions (mm/in)	Ordering Code	Packaging Unit
STAUFF	DIN	Thread G x L	(in pieces / bag)
1A	1	M6 x 30	AS-M6x30-W55
		M6 x 1.18	25
2	2	M6 x 35	AS-M6x35-W55
		M6 x 1.38	25
3	3	M6 x 40	AS-M6x40-W55
		M6 x 1.57	25
4	4	M6 x 45	AS-M6x45-W55
		M6 x 1.77	25
5	5	M6 x 60	AS-M6x60-W55
		M6 x 2.36	25

ACT Cover Plate Type DP ... W55



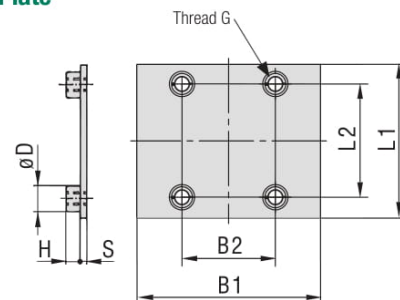
Group	Dimensions (mm/in)	Ordering Code	Packaging Unit
STAUFF	DIN	L1 L2 B S ØD	(in pieces / bag)
1A	1	34 20 30 3 7	DP-1A-W55
		1.34 .79 1.18 .12 .28	25
2	2	40.5 26 30 3 7	DP-2-W55
		1.59 1.02 1.18 .12 .28	25
3	3	48 33 30 3 7	DP-3-W55
		1.89 1.30 1.18 .12 .28	25
4	4	57 40 30 3 7	DP-4-W55
		2.24 1.57 1.18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

ACT Single Weld Plate Type SP ... W55



Group	Dimensions (mm/in)	Ordering Code	Packaging Unit
STAUFF	DIN	G L1 L2 B S H ØD	(in pieces / bag)
1A	1	M6 36 20 30 3 6.5 12	SP-1A-M-W55
		1.42 0.79 1.18 .12 .26 .47	25
2	2	M6 42 26 30 3 6.5 12	SP-2-M-W55
		1.65 1.02 1.18 .12 .26 .47	25
3	3	M6 50 33 30 3 6.5 12	SP-3-M-W55
		1.97 1.30 1.18 .12 .26 .47	25
4	4	M6 60 40 30 3 6.5 12	SP-4-M-W55
		2.36 1.57 1.18 .12 .26 .47	25
5	5	M6 71 52 30 3 6.5 12	SP-5-M-W55
		2.80 2.05 1.18 .12 .26 .47	25

ACT Double Weld Plate Type SPD ... W55



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



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



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

Required components for each level:

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

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

Material Code
W55

ACT Mounting Hardware Material Properties and Handling Instructions

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

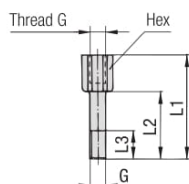
ACT Mounting Hardware is always delivered in hermetically-sealed quality storage bags with 25 pieces each to avoid contamination during transport.

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

Details: www.stauff.com/act/assembly

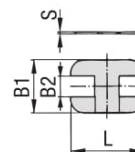
ACT Stacking Bolt Type AF ... W55

E



Group	STAUFF	DIN	Dimensions (mm/in)	Ordering Code	Packaging Unit
			G L1 L2 L3 min. Hex		(in pieces / bag)
1A	1	M6	34 20 12 11 1.34 .79 .47 .43	AF-1/1A/1D-M-W55	25
2	2	M6	40 26 12 11 1.57 1.24 .47 .43	AF-2-M-W55	25
3	3	M6	44 30 12 11 1.73 1.18 .47 .43	AF-3-M-W55	25
4	4	M6	49 35 12 11 1.93 1.38 .47 .43	AF-4-M-W55	25
5	5	M6	64 50 12 11 2.52 1.97 .47 .43	AF-5-M-W55	25

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



Group	STAUFF	DIN	Dimensions (mm/in)	Ordering Code	Packaging Unit
			L B1 B2 S		(in pieces / bag)
1A	1		33 28 11,2 2 1.30 1.10 .44 .08	SIG-1A-ACT-W55	25
2	2		39 28 11,2 2 1.54 1.10 .44 .08	SIG-2-ACT-W55	25
3	3		47 28 11,2 2 1.85 1.10 .44 .08	SIG-3-ACT-W55	25
4	4		56 28 11,2 2 2.20 1.10 .44 .08	SIG-4-ACT-W55	25
5	5		69 28 11,2 2 2.72 1.10 .44 .08	SIG-5-ACT-W55	25



ACT Mounting Hardware Installation with Channel Rail Adaptors

Required components:

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

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

Material Code
W55

ACT Mounting Hardware Material Properties and Handling Instructions

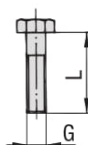
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

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

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

Details: www.stauff.com/act/assembly

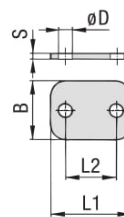
ACT Hexagon Head Bolt Type AS ... W55 (according to DIN 931 / 933)



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

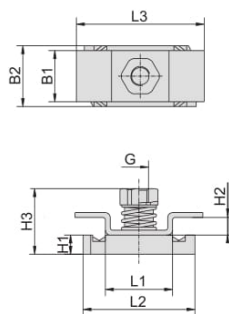
Group	Dimensions (mm/in)	Ordering Code	Packaging Unit
STAUFF	DIN		(in pieces / bag)
1A	1	M6 x 30	AS-M6x30-W55
		M6 x 1.18	
2	2	M6 x 35	AS-M6x35-W55
		M6 x 1.38	
3	3	M6 x 40	AS-M6x40-W55
		M6 x 1.57	
4	4	M6 x 45	AS-M6x45-W55
		M6 x 1.77	
5	5	M6 x 60	AS-M6x60-W55
		M6 x 2.36	

ACT Cover Plate Type DP ... W55



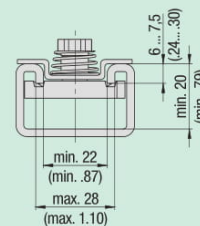
Group	Dimensions (mm/in)	Ordering Code	Packaging Unit
STAUFF	DIN		(in pieces / bag)
1A	1	34 20 30 3 7	DP-1A-W55
		1.34 .79 1.18 .12 .28	
2	2	40,5 26 30 3 7	DP-2-W55
		1.59 1.02 1.18 .12 .28	
3	3	48 33 30 3 7	DP-3-W55
		1.89 1.30 1.18 .12 .28	
4	4	57 40 30 3 7	DP-4-W55
		2.24 1.57 1.18 .12 .28	
5	5	70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

ACT Channel Rail Adaptor Type CRA ... W55



Suitability Chart for ACT Channel Rail Adaptors in the Standard Series

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



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

Group	Dimensions (mm/in)	Ordering Code	Packaging Unit
STAUFF	DIN		(in pieces / bag)
1A	1		
2	2		
3	3	M6	
		21 35 40 16 19 6 5,5 20,5	
		.83 1.38 1.57 .63 .75 .24 .22 .81	
4	4		
5	5		



ACT Mounting Hardware Installation in Field Trays / Cable Ladders

Required components:

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

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

Material Code
W55

ACT Mounting Hardware Material Properties and Handling Instructions

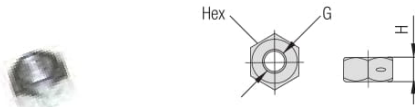
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

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

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

E

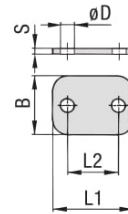
All-Metal Self-Locking ACT Nut Type MUS-HKS ... W55 (similar to DIN 980 / Bilco)



For use with ACT Hammerhead Bolts HKS ... W55

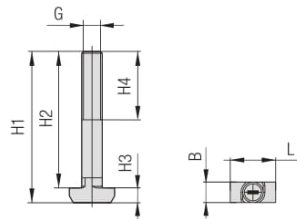
Group	STAUFF	DIN	Dimensions (mm/in)	Thread G	H	Hex	Ordering Code	Packaging Unit
								(in pieces / bag)
1A		1						
2		2						
3		3	M6	5	10		MUS-HKS-M6-W55	25
4		4		.20	.39			
5		5						

ACT Cover Plate Type DP ... W55



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

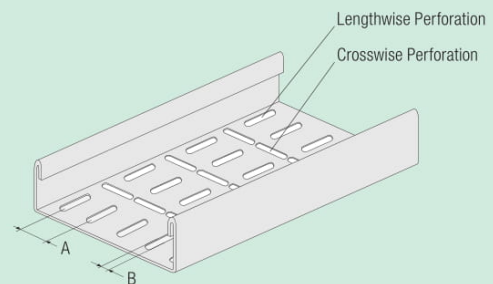
ACT Hammerhead Bolt Type HKS ... W55



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

Group	STAUFF	DIN	Dimensions (mm/in)	G	H1	H2	H3	H4 min	B	L	Ordering Code	Packaging Unit
												(in pcs. / bag)
1A		1	M6	44,3	40	4,3	20	6,1	13,3		HKS-M6x40-W55	25
				1.74	1.57	.17	.79	.24	.52			
2		2	M6	49,3	45	4,3	20	6,1	13,3		HKS-M6x45-W55	25
				1.94	1.77	.17	.79	.24	.52			
3		3	M6	54,3	50	4,3	20	6,1	13,3		HKS-M6x50-W55	25
				2.14	1.97	.17	.79	.24	.52			
4		4	M6	59,3	55	4,3	20	6,1	13,3		HKS-M6x55-W55	25
				2.33	2.17	.17	.79	.24	.52			
5		5	M6	74,3	70	4,3	20	6,1	13,3		HKS-M6x70-W55	25
				2.93	2.76	.17	.79	.24	.52			

Suitability Chart for ACT Hammerhead Bolts in the Standard Series



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

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

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



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

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

- 2 ACT Self-Locking Nuts MUS-HKS ... W55
- 1 ACT Cover Plate DP ... W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 ACT Safety Locking Plate SIG...ACT-W55
- 2 ACT Stacking Bolts AF-HSK...W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 2 ACT Hammerhead Bolts HSKS ... W55

Material Code
W55

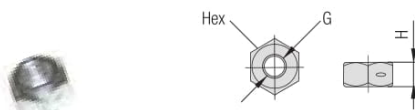
ACT Mounting Hardware Material Properties and Handling Instructions

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

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

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

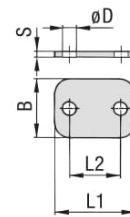
All-Metal Self-Locking ACT Nut Type MUS-HKS ... W55 (similar to DIN 980 / Biloc)



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

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

ACT Cover Plate Type DP ... W55



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

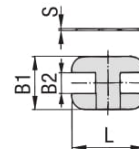
ACT Stacking Bolt Type AF-HSKS ... W55



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

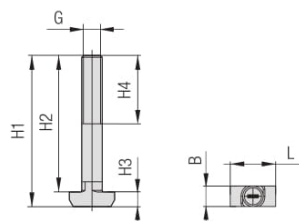
Group		Dimensions (mm/in)					Ordering Code	Packaging Unit (in pieces / bag)
STAUFF	DIN	G	L1	L2	L3 min.	Hex		
1A	1	M6	44 1.73	30 1.18	12 .47	11 .43	AF-HSKS-1A-M-W55	25
2	2	M6	54 2.13	40 1.57	12 .47	11 .43	AF-HSKS-2-M-W55	25
3	3	M6	54 2.13	40 1.57	12 .47	11 .43	AF-HSKS-3-M-W55	25

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



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

ACT Hammerhead Bolt Type HSKS ... W55



Group		Dimensions (mm/in)							Ordering Code	Packaging Unit (in pcs. / bag)
STAUFF	DIN	G	H1	H2	H3	H4 min	B	L		
1A	1	M6	29,3 1.15	25 .98	4,3 .17	20 .79	6,1 .24	13,3 .52	HKSK-M6x25-W55	25
2	2	M6	36,3 1.43	32 1.26	4,3 .17	20 .79	6,1 .24	13,3 .52	HKSK-M6x32-W55	25
3	3	M6	39,3 1.55	35 1.38	4,3 .17	20 .79	6,1 .24	13,3 .52	HKSK-M6x35-W55	25



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

ACT Mounting Hardware

Material Properties and Handling Instructions

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

ACT Cover Plate
Type DP ... W55



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

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



Installation on Weld Plate

Required components:

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

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

Order Code

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

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



Multi-Level Installation (with Weld Plate)

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

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

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

Order Code

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

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

E



Installation with Channel Rail Adaptors

Required components:

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

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

Order Code

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

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



Installation in Field Trays / Cable Ladders

Required components:

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

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

Order Code

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

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



Multi-Level Installation in Field Trays / Cable Ladders

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

- 2 Self-Locking Nuts MUS-HKS ... W55
- 1 Cover Plate DP ... W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 Safety Locking Plate SIG...ACT-W55
- 2 Stacking Bolts AF-HKSK...W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 2 Hammerhead Bolts HKSK ... W55

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

Order Codes

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

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



Multi-Level Installation in Field Trays / Cable Ladders

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

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

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

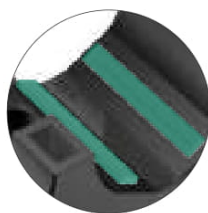
Order Codes

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

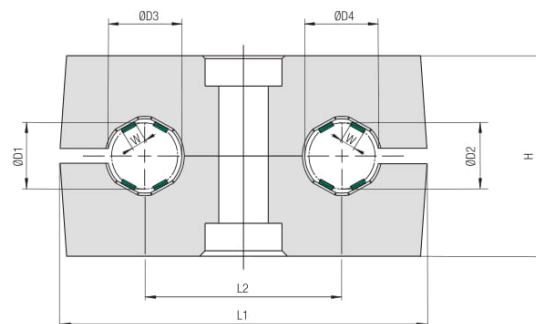
W55 is the recommended option for metal hardware to be used with STAUFF ACT Clamps.

Twin Series according to DIN 3015, Part 3

ACT Clamp Body



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



Ordering Codes

Clamp Body *2*12.7/12.7-*ACT

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

* 1st Part of STAUFF Group

2

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

12.7/12.7

* Material code

ACT

Group Size		Outside Diameters Ø D1 / Ø D2 (mm) (in)		Ordering Code (2 Clamp Halves)	Packaging Unit (in pieces / bag)	Dimensions (mm/in)					
STAUFF	DIN					ØD3 / ØD4	W	L1	L2	H	Width
1D	1	6		106/06-ACT	25	9 .35	1,4 .06				
		6,4	1/4	106.4/06.4-ACT	25	9,4 .37	1,5 .06				
		9,5	3/8	109.5/09.5-ACT	25	12,5 .49	2,2 .09	36 1.42	20 .79	26,6 1.05	30 1.18
		10		110/10-ACT	25	13 .51	2,3 .09				
		12		112/12-ACT	25	15 .59	2,8 .11				
2D	2	12,7	1/2	212.7/12.7-ACT	25	15,7 .62	3,5 .14	53 2.09	29 1.14	26,6 1.05	30 1.18
		14		214/14-ACT	25	17 .67	3,5 .14				
3D	3	18		318/18-ACT	25	21 .83	3,5 .14				
		19	3/4	319/19-ACT	25	22 .87	3,5 .14				
		20		320/20-ACT	25	23 .91	3,5 .14	67 2.64	36 1.42	36,6 1.44	30 1.18
		21,3		321.3/21.3-ACT	25	24,3 .96	3,5 .14				
		25,4	1	325.4/25.4-ACT	25	28,4 1.12	3,5 .14				

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



ACT Mounting Hardware Installation on Single Weld Plates

Required components:

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

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

Material Code
W55

ACT Mounting Hardware Material Properties and Handling Instructions

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

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

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

Details: www.stauff.com/act/assembly

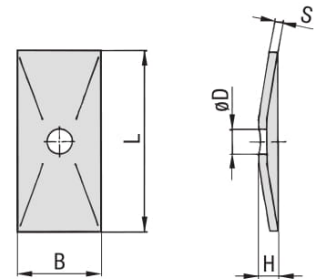
ACT Hexagon Head Bolt Type AS ... W55 (according to DIN 931 / 933)



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

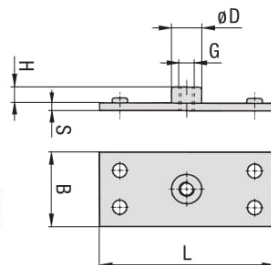
Group	Dimensions (mm/in)	Ordering Code	Packaging Unit
STAUFF	DIN		(in pieces / bag)
1D	1	M6 x 35	AS-M6x35-W55
		M6 x 1.38	
2D	2	M8 x 35	AS-M8x35-W55
		M8 x 1.38	
3D	3	M8 x 45	AS-M8x45-W55
		M8 x 1.77	

ACT Cover Plate Type GD ... W55



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

ACT Single Weld Plate Type SP ... W55



Group	Dimensions (mm/in)	Ordering Code	Packaging Unit
STAUFF	DIN		(in pieces / bag)
1D	1	G L B S H ØD	SP-1D-M-W55
		M6 37 30 3 6.5 12	
		1.46 1.18 .12 .26 .47	
2D	2	G L B S H ØD	SP-2D-M-W55
		M8 55 30 5 6 14	
		2.17 1.18 .20 .24 .55	
3D	3	G L B S H ØD	SP-3D-M-W55
		M8 70 30 5 6 14	
		2.76 1.18 .20 .24 .55	

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



Required components for each level:

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

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

Material Code
W55

ACT Mounting Hardware Material Properties and Handling Instructions

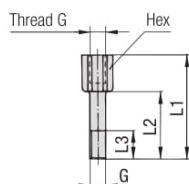
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

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

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

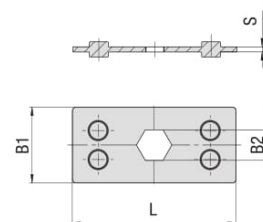
ACT Stacking Bolt Type AF ... W55

E



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

ACT Safety Locking Plate Type SIV ... ACT



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

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



ACT Mounting Hardware Installation with Channel Rail Adaptors

Required components:

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

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

Material Code
W55

ACT Mounting Hardware Material Properties and Handling Instructions

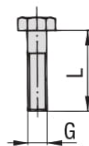
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

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

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

Details: www.stauff.com/act/assembly

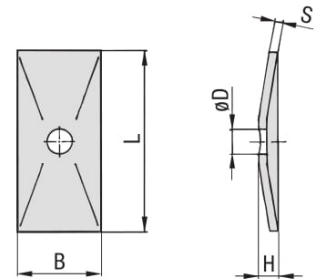
ACT Hexagon Head Bolt Type AS ... W55 (according to DIN 931 / 933)



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

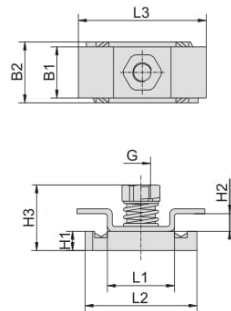
Group	Dimensions (mm/in)	Ordering Code	Packaging Unit
STAUFF	DIN		(in pieces / bag)
1D	1	M6 x 35	AS-M6x35-W55
		M6 x 1.38	25
2D	2	M8 x 35	AS-M8x35-W55
		M8 x 1.38	25
3D	3	M8 x 45	AS-M8x45-W55
		M8 x 1.77	25

ACT Cover Plate Type GD ... W55



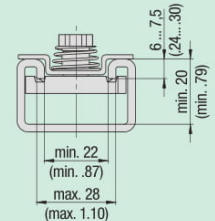
Group	Dimensions (mm/in)	Ordering Code	Packaging Unit
STAUFF	DIN		(in pieces / bag)
1D	1	34 30 7 3 7	GD-1D-W55
		1.34 1.18 .28 .12 .28	25
2D	2	52 30 7 3 9	GD-2D-W55
		2.05 1.18 .28 .12 .35	25
3D	3	65 30 7 3 9	GD-3D-W55
		2.56 1.18 .28 .12 .35	25

Channel Rail Adaptor Type CRA ... W55



Suitability Chart for ACT Channel Rail Adaptors in the Twin Series

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



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

Group	Dimensions (mm/in)	Order Code	Packaging Unit
STAUFF	DIN		(in pieces / bag)
1D	1	M6	CRA-1-8/1D-M-W55
		21 .83 35 1.38 40 1.57 16 .63 19 .75 6 .24 5,5 .22 20,5 .81	25
2D	2	M8	CRA-2-3D-M-W55
		21 .83 35 1.38 38 1.50 53 2.09 19 .75 9 .35 5,5 .22 23,5 .93	25
3D	3		

ACT Mounting Hardware Installation in Field Trays / Cable Ladders



Required components:

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

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

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

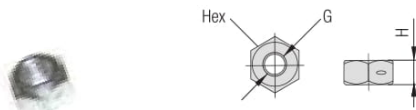
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

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

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

E

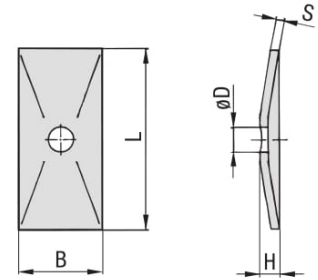
All-Metal Self-Locking ACT Nut Type MUS-HKS ... W55 (similar to DIN 980 / Biloc)



For use with ACT Hammerhead Bolts HKS ... W55

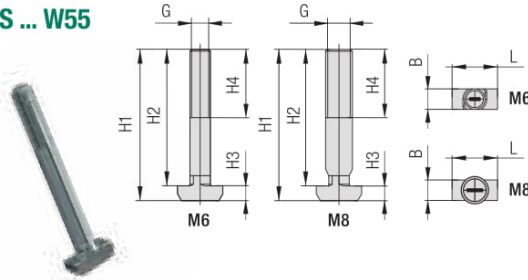
Group	Dimensions (mm/in)	Ordering Code	Packaging Unit
STAUFF DIN	Thread G H Hex		(in pieces / bag)
1D 1	M6 5 .20 10 .39	MUS-HKS-M6-W55	25
2D 2	M8 6,5 .26 13 .51	MUS-HKS-M8-W55	25
3D 3			

ACT Cover Plate Type GD ... W55



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

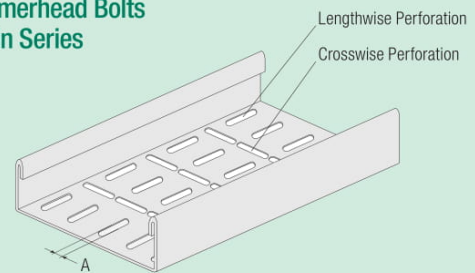
ACT Hammerhead Bolt Type HKS ... W55



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

Group	Dimensions (mm/in)	Ordering Code	Packaging Unit
STAUFF DIN	G H1 H2 H3 H4 min B L		(in pcs. / bag)
1D 1	M6 49,3 45 4,3 20 6,1 13,3	HKS-M6x45-W55	25
2D 2	M8 49,3 45 4,3 20 6 13,3	HKS-M8x45-W55	25
3D 3	M8 59,3 55 4,3 20 6 13,3	HKS-M8x55-W55	25

Suitability Chart for ACT Hammerhead Bolts in the Twin Series



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

- **Dimension A:** 6,2 mm ... 7,0 mm / .24 in28 in (Min ... Max)

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



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

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

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

Material Code
W55

ACT Mounting Hardware Material Properties and Handling Instructions

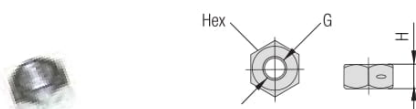
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

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

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

Details: www.stauff.com/act/assembly

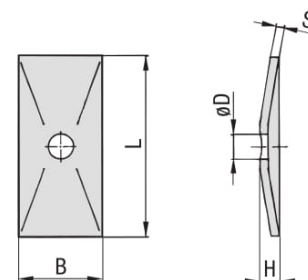
All-Metal Self-Locking ACT Nut Type MUS-HKS ... W55 (similar to DIN 980 / Biloc)



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

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

ACT Cover Plate Type GD ... W55



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

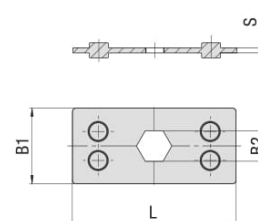
ACT Stacking Bolt Type AF-HKSK ... W55



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

Group	Dimensions (mm/in)	Order Code	Packaging Unit
STAUFF DIN	G L1 L2 L3 min. Hex		(in pieces / bag)
1D 1	M6 49 35 12 11 1.93 1.38 .47 .43	AF-HKSK-1D-M-W55	25
2D 2	M8 50 37 11 12 1.97 1.47 .43 .47	AF-HKSK-2D-M-W55	25
3D 3	M8 61 46 15 12 2.40 1.81 .59 .47	AF-HKSK-3D-M-W55	25

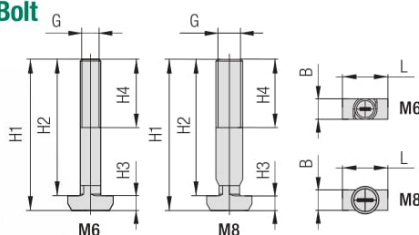
ACT Safety Locking Plate Type SIV ... ACT



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

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

ACT Hammerhead Bolt Type HKSK ... W55



Group	Dimensions (mm/in)	Ordering Code	Packaging Unit
STAUFF DIN	G H1 H2 H3 H4 min B L		(in pcs. / bag)
1D 1	M6 29,3 25 4,3 20 6,1 13,3 1.15 .98 .17 .79 .24 .52	HKSK-M6x25-W55	25
2D 2	M8 32,3 28 4,3 20 6 13,3 1.27 1.10 .17 .79 .24 .52	HKSK-M8x28-W55	25
3D 3	M8 42,3 38 4,3 20 6 13,3 1.67 1.50 .17 .79 .24 .52	HKSK-M8x38-W55	25



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

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

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

Material Code
W55

ACT Mounting Hardware Material Properties and Handling Instructions

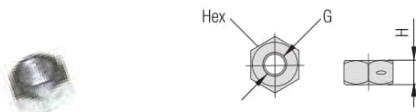
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

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

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

E

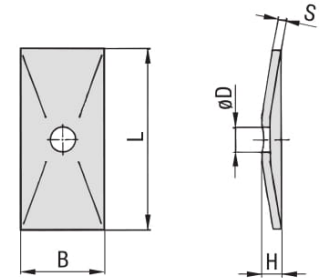
All-Metal Self-Locking ACT Nut Type MUS-HKS ... W55 (similar to DIN 980 / Biloc)



For use with ACT Hammerhead Bolts HKS ... W55

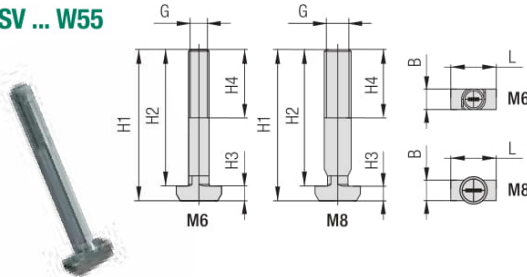
Group	Dimensions (mm/m)	Ordering Code	Packaging Unit
STAUFF DIN	Thread G H Hex		(in pieces / bag)
1D 1	M6 5 10 .20 .39	MUS-HKS-M6-W55	25
2D 2	M8 6,5 13 .26 .51	MUS-HKS-M8-W55	25
3D 3			

ACT Cover Plate Type GD ... W55



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

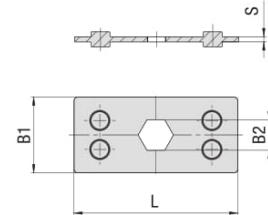
ACT Hammerhead Bolt Type HKS ... W55



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

Group	Dimensions (mm/m)	Ordering Code	Packaging Unit
STAUFF DIN	G H1 H2 H3 H4 min B L		(in pcs. / bag)
1D 1	M6 76,3 72 4,3 20 6,1 13,3	HKS-M6x72-W55	25
2D 2	M8 77,3 73 4,3 20 6 13,3	HKS-M8x73-W55	25
3D 3	M8 97,3 93 4,3 20 6 13,3	HKS-M8x93-W55	25

ACT Safety Locking Plate Type SIV ... ACT



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

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

Installation on Weld Plate



Required components:

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

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

Order Code

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

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

Multi-Level Installation (with Weld Plate)



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

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

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

Order Code

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

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

E

Installation with Channel Rail Adaptors



Required components:

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

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

Order Code

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

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

Installation in Field Trays / Cable Ladders



Required components:

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

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

Order Code

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

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

Multi-Level Installation in Field Trays / Cable Ladders



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

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

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

Order Codes

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

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



Multi-Level Installation in Field Trays / Cable Ladders

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

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

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

Order Codes

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

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

Introduction

92

**Weld Stud with Female Thread**

92

SWG-SF

**Distance Plate for DIN 3015 Clamps**

93

SWG-DIP

**Cable Tie Holder**

93

SWG-CTH-11-M6

**Cable Tie / Tension Belt Holder**

93

SWG-CTH-30-M6-1

**Cable Tie / Tension Belt Holder**

93

SWG-CTH-30-M6-2

**Starterkit**

94

SWG-WI06-Starterkit

**Weld Inverter**

94

SWG-WI06

**Weld Gun - Arc Ignition**

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SWG-WG

**Distance Adaptor**

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SWG-AGS

**Distance Tube**

95

DIT-SR6-SWG

**Stud Retainer**

95

SWG-SR6

Ground Cable

95

SWG-GC

F

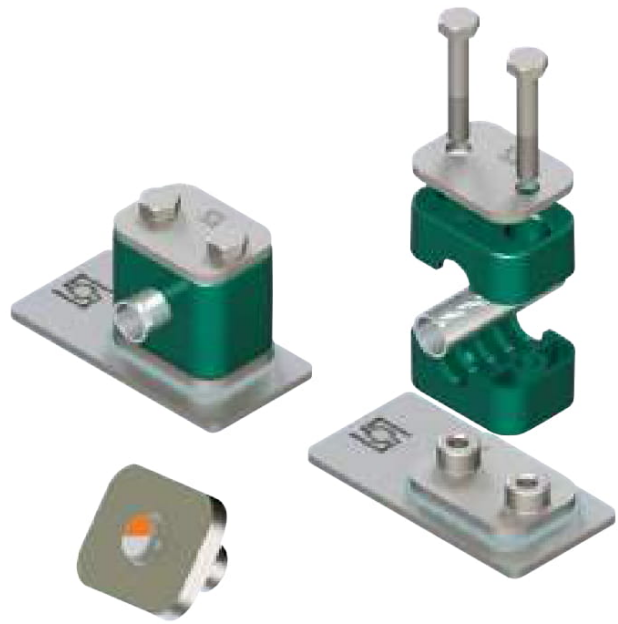
	Introduction	98
	STAUFF Bond Plate for DIN 3015 Clamps SBP	99
	Adhesive Cartridge CB420-50(E)	100
	Manual Adhesive Dispenser SBD	101
	Dispenser Slide SBDS-81	101
	Mixing Tip SBMT	101

STAUFF Bond Adhesive Bonded Fastening

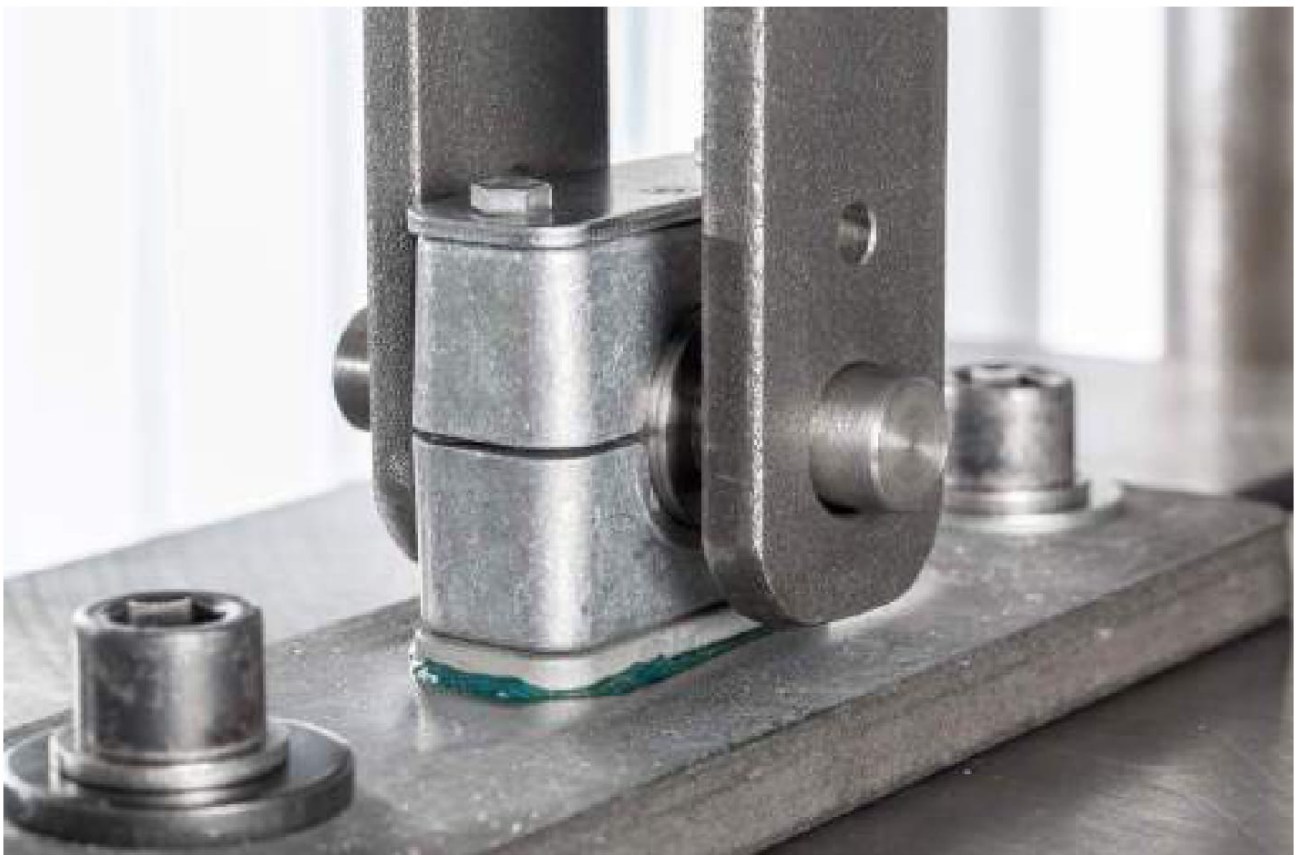
The innovative STAUFF Bond system allows for pipes, tubes, hoses, cables and other components with outside diameters up to 102 mm / 4.00 in to be adhesively bonded to almost any surface material, such as prepared or unprepared metals, thermoplastics and composites.

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

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

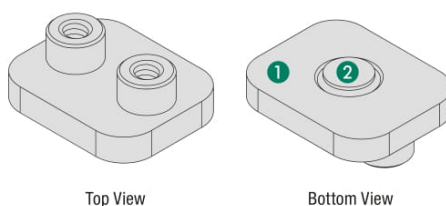
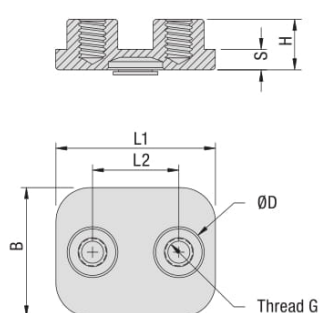


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Tensile testing of the STAUFF Bond Plate (type SBP) with STAUFF Bond Adhesive (type CB420-50E) in the STAUFF Technology Centre. Please contact STAUFF for detailed test reports.

STAUFF Bond Plate for DIN 3015 Clamps Type SBP



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



Group	DIN	Diameter (mm/in)	Dimensions (mm/in)	Order Codes	Packaging Unit
STAUFF		Clamp Body	Thread G	(Standard Options)	(in Pieces)
1A	1	6 ... 12	M6	SBP-1A-M-W5	25
		.2448	1/4-20 UNC	SBP-1A-U-W5	
2	2	12,7 ... 18	M6	SBP-2-M-W5	25
		.5071	1/4-20 UNC	SBP-2-U-W5	
3	3	19 ... 25,4	M6	SBP-3-M-W5	25
		.75 ... 1.00	1/4-20 UNC	SBP-3-U-W5	
4	4	26,9 ... 32	M6	SBP-4-M-W5	25
		1.06 ... 1.26	1/4-20 UNC	SBP-4-U-W5	
5	5	32 ... 42	M6	SBP-5-M-W5	25
		1.26 ... 1.65	1/4-20 UNC	SBP-5-U-W5	
6 ¹	6	44,5 ... 54	M6	SBP-6-M-W5	25
		1.75 ... 2.12	1/4-20 UNC	SBP-6-U-W5	

Ordering Codes

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

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

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

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

Adhesive Cartridge Type CB420-50(E)



Characteristics

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

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

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

Ordering Code

CB420	-	50E
①		②

① Type

Adhesive Cartridge	CB420
--------------------	--------------

② Execution

International	50
Europe (Delivery Standard Europe)	50E

Required Accessories

- Adhesive Dispenser, Dispenser Slide, Mixing Tip

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

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Processing instructions

Cure Time

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

Shelf Life

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

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

Do not freeze adhesive!

Temperature

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

Pay attention to the expiry dates printed on the cartridges.

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

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

Installation Guideline

Surface Preparation

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

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

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

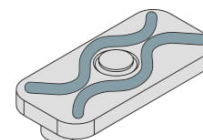
You may also want to clean the bottom of the bond plate prior to adhesive preparation. Use a clean cloth saturated with solvent to wipe the part with a single circular motion. Use caution not to disturb the internal fixture.

Safety note: Always wear gloves and protective glasses!

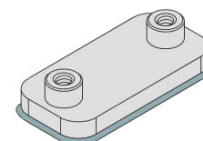
Dispensing Directions

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

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



Indication, where and what amount of adhesive has to be applied to the bonding surface of the bond plate.



Consistent bead of adhesive around the outside edges of the bond plate indicates the proper installation.

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

Manual Adhesive Dispenser Type SBD

Ordering Code



① Type

Manual Adhesive Dispenser

SBD

Required Accessories

- Dispenser Slide, Mixing Tip

Characteristics

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



Dispenser Slide Type SBDS-81

Ordering Code



① Type

Dispenser Slide

SBDS-81

Required Accessories

- Adhesive Dispenser, Mixing Tip

Characteristics

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



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Mixing Tip Type SBMT

Ordering Code



① Type

Mixing Tip

SBMT

Standard packaging unit: 50 pcs.

Required Accessories

- Adhesive Dispenser, Dispenser Slide

Characteristics

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

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





Machined Versions

104



Injection Moulded Version

106



Metal Versions and Accessories

107

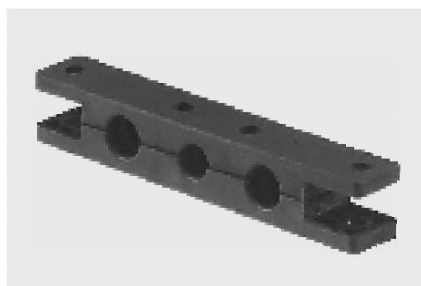
Enquiry Form for Custom-Designed Special Clamps

108

H

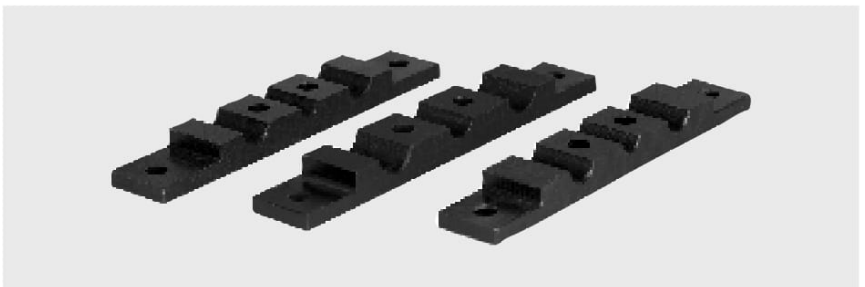
Machined Versions

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.



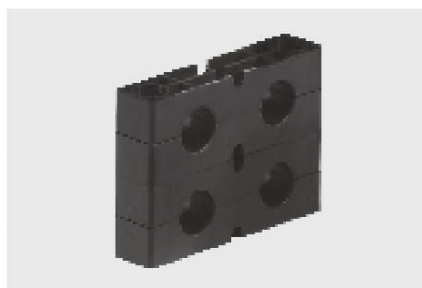


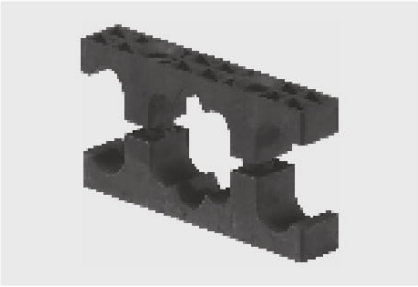
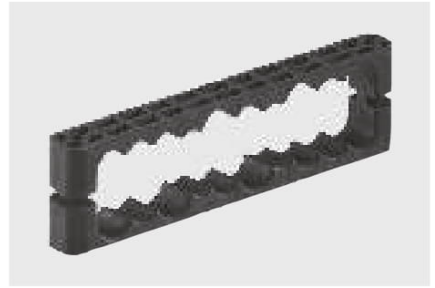
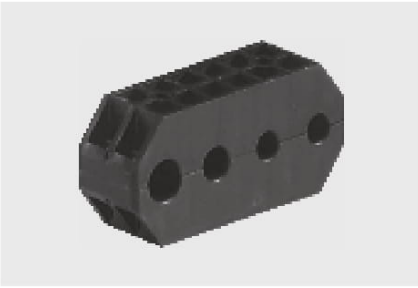
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Injection Moulded Versions (Flexi Clamps)

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





Metal Versions and Accessories

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



Enquiry Form for Custom-Designed Special Clamps

Please use the following form as a guideline when preparing an enquiry for a custom-designed special clamp. Scan or copy the page from the catalogue, print and complete it

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

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

Application Information

Area of use

☐ Indoor

☐ Outdoor

Ambient temperature

Lowest _____ ☐ °C / ☐ °F

Highest _____ ☐ °C / ☐ °F

Resistance against particular media

☐ No

☐ Yes

☐ Mineral oils

☐ Other oils _____

☐ Benzine

☐ Weak acids

☐ Solvents

☐ Alcohols

☐ Seawater

☐ Other media _____

Fire protection requirements

☐ No

☐ Yes

☐ UL94

☐ BS 6853

☐ Other standard _____

Material preference for the clamp body

☐ Polypropylene

☐ Aluminium

☐ Stainless Steel ☐ V2A ☐ V4A

☐ Polyamide

☐ Steel

☐ Other material _____

H

Design Information

Type of line

☐ Pipe / tube (fixed installation)

☐ Hose

☐ Cable

☐ Other components _____

☐ Pipe / tube (sliding installation)

☐ Conduit Hose

☐ Mix of different types of lines

Maximum dimensions of clamp body

Length _____ x Width _____ x Height _____ ☐ mm / ☐ inch

Total number of lines

Diameters per line

Line 1 _____ ☐ mm / ☐ inch

Line 2 _____ ☐ mm / ☐ inch

Line 3 _____ ☐ mm / ☐ inch

Line 4 _____ ☐ mm / ☐ inch

Line 5 _____ ☐ mm / ☐ inch

Line 6 _____ ☐ mm / ☐ inch

Line 7 _____ ☐ mm / ☐ inch

Line 8 _____ ☐ mm / ☐ inch

Further comments _____

Further comments _____

Further comments _____

Further comments _____

Further comments _____

Further comments _____

Further comments _____

Further comments _____

Preferred centre distance of the lines

_____ ☐ mm / ☐ inch

Preferred number of screw holes

Information on Mounting Hardware

Preferred type of bolts

☐ Hexagon head bolts (with cover plate)

☐ Socket cap crews (with cover plate)

☐ Socket cap crews (w/o cover plate)

☐ with metric threads

☐ with UNC threads

☐ with metric threads

☐ with UNC threads

☐ with metric threads

☐ with UNC threads

Preferred type of installation

☐ Welding (using a weld plate)

☐ Direct screw-fastening

☐ Mounting rail (using a rail nut / adaptor)

☐ Welding (using weld studs)

☐ Adhesive bonded fastening

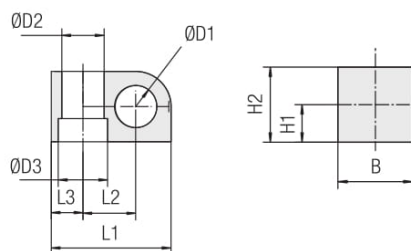
Material preference for the hardware

☐ Steel

☐ Stainless Steel ☐ V2A ☐ V4A

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

Clamp Body - Single Design Type LBBU



Ordering Codes

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

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

Standard Materials



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

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

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

Product Features

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

Group	Outside Diameter Pipe / Tube / Hose Ø D1 (mm) (in)	Nominal Bore Pipe (in)	Ordering Codes (1 Clamp Body)	Dimensions (mm/in)							
STAUFF	Ø D1 (mm) (in)			Ø D2	Ø D3	L1	L2	L3	H1	H2	B
1	6		LBBU-106-SA-M8/U5/16								
	6,4	1/4	LBBU-106.4-SA-M8/U5/16								
	8	5/16	LBBU-108-SA-M8/U5/16								
	9,5	3/8	LBBU-109.5-SA-M8/U5/16	12	14	34	15	9	10	20	20
	10		LBBU-110-SA-M8/U5/16	.47	.55	1.34	.59	.35	.39	.79	.79
	11		LBBU-111-SA-M8/U5/16								
	12	1/8	LBBU-112-SA-M8/U5/16								
	12,7	1/2	LBBU-112.7-SA-M8/U5/16								
	4		LBBU-204-SA-M8/U5/16								
	6		LBBU-206-SA-M8/U5/16								
2	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		LBBU-210-SA-M8/U5/16								
	11	1/8	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 contact STAUFF for further information.



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

Clamp assembly consisting of:

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

Order Code

LBBU-SP-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 24 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:

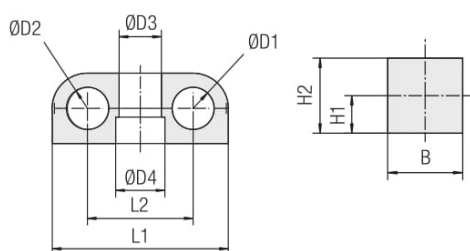
- 1 Hexagon Head Bolt AS
- 1 Cover Plate LBBU-DP
- 1 Sleeve LBBU-HUE
- 1 Clamp Body LBBU

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 Type LBBU



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

Ordering Codes

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

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

Standard Materials

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

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

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

Product Features

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

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



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

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

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 24 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

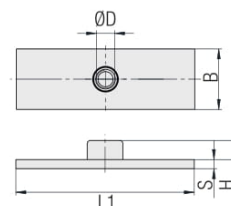
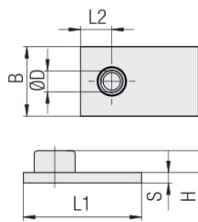
Order Code

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

Ordering Codes

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

* Light Series LBBU **LBBU**

* Weld Plate **-SP**

* STAUFF Group **1D**

* Thread code Metric ISO thread: M8 **M8**
UNC thread: 5/16–18 UNC **U5/16**

* Material code Carbon Steel, phosphated **W2**

Group STAUFF	Dimensions (mm/in)						Thread G	Ordering Codes (Standard Options)
Ø D	L1	L2	H	B	S			
1	14	34	9	10,3	20	5	M8	LBBU-SP-1-M8-W2
	.55	1.34	.35	.41	.79	.20	5/16–18 UNC	LBBU-SP-1-U5/16-W2
2	14	39	9	10,3	20	5	M8	LBBU-SP-2-M8-W2
	.55	1.54	.35	.41	.79	.20	5/16–18 UNC	LBBU-SP-2-U5/16-W2
3	14	57,5	15	10,3	30	5	M8	LBBU-SP-3-M8-W2
	.55	2.26	.59	.41	1.18	.20	5/16–18 UNC	LBBU-SP-3-U5/16-W2
1D	14	50	X	10,3	20	5	M8	LBBU-SP-1D-M8-W2
	.55	1.97		.41	.79	.20	5/16–18 UNC	LBBU-SP-1D-U5/16-W2
2D	14	59		10,3	20	5	M8	LBBU-SP-2D-M8-W2
	.55	2.32		.41	.79	.20	5/16–18 UNC	LBBU-SP-2D-U5/16-W2
3D	14	86		10,3	30	5	M8	LBBU-SP-3D-M8-W2
	.55	3.39		.41	1.18	.20	5/16–18 UNC	LBBU-SP-3D-U5/16-W2

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

Sleeve Type LBBU-HUE



Dimensions applicable only when used with
Weld Plate LBBU-SP (**Type of Mounting SP**)

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

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

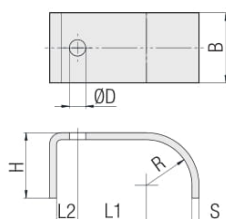
Group STAUFF	Dimensions (mm/in)			Ordering Codes (Standard Options)
ØD1	ØD2	L		
1	12	9	12,8	LBBU-HUE-1/1D-SM-M8/U5/16-W3
	.47	.35	.50	
2	12	9	16,8	LBBU-HUE-2/2D-SM-M8/U5/16-W3
	.47	.35	.66	
3	12	9	32,8	LBBU-HUE-3/3D-SM-M8/U5/16-W3
	.47	.35	1.29	
1D	12	9	12,8	LBBU-HUE-1/1D-SM-M8/U5/16-W3
	.47	.35	.50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

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

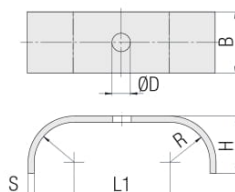
Group STAUFF	Dimensions (mm/in)			Ordering Codes (Standard Options)
ØD1	ØD2	L		
1	12	9	18,8	LBBU-HUE-1/1D-PM-M8/U5/16-W3
	.47	.35	.74	
2	12	9	22,7	LBBU-HUE-2/2D-PM-M8/U5/16-W3
	.47	.35	.89	
3	12	9	38,8	LBBU-HUE-3/3D-PM-M8/U5/16-W3
	.47	.35	1.53	
1D	12	9	18,8	LBBU-HUE-1/1D-PM-M8/U5/16-W3
	.47	.35	.74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

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

Cover Plate Type LBBU-DP



STAUFF Group 1 to 3



STAUFF Group 1D to 3D



Group STAUFF	Dimensions (mm/in)							Ordering Codes (Standard Options)
	Ø D	L1	L2	R	H	B	S	
1	9	15	9	10	16	20	3	LBBU-DP-1-M8/U5/16-W3
	.35	.59	.35	.39	.63	.79	.12	
2	9	18	9	12	20	20	3	LBBU-DP-2-M8/U5/16-W3
	.35	.71	.35	.47	.79	.79	.12	
3	9	23.5	15	19.5	28	30	3	LBBU-DP-3-M8/U5/16-W3
	.35	.93	.59	.77	1.10	1.18	.12	
1D	9	30		10	16	20	3	LBBU-DP-1D-M8/U5/16-W3
	.35	1.18		.39	.63	.79	.12	
2D	9	35		12	20	20	3	LBBU-DP-2D-M8/U5/16-W3
	.35	1.38		.47	.79	.79	.12	
3D	9	47		19.5	28	20	3	LBBU-DP-3D-M8/U5/16-W3
	.35	1.85		.77	.63	.79	.12	

Ordering Codes

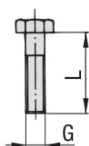
Cover Plate *LBBU-DP-*1D-*M8/U5/16-*W3

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

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

I

Hexagon Head Bolt Type AS



Hexagon Head Bolt AS

(according to DIN 931 / 933 or ANSI / ASME B18.2.1.)
Dimensions applicable only when used with
Weld Plate LBBU-SP (Type of Mounting SP)
or Hexagon Rail Nut SM-2-5D (Type of Mounting SM)

Hexagon Head Bolt AS

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



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

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

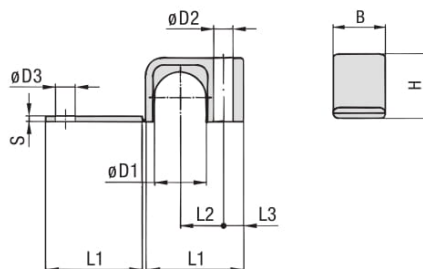
Ordering Codes

Hexagon Head Bolt *AS-*M8x25-*W3

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

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

Clamp Body - Single Design Type LB



Ordering Codes

Clamp Body *LB-*1*03.2-*PP

- * Light Series: Clamp Body / Single Design **LB**
- * STAUFF Group **1**
- * Exact outside diameter Ø D1 (mm) **03.2**
- * Material code (see below) **PP**

Standard Materials



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



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

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

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

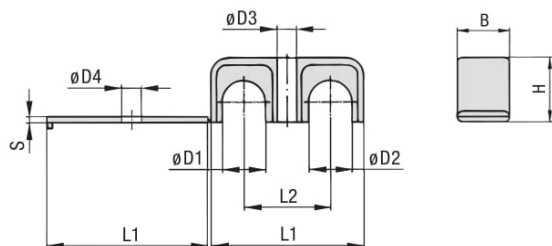
Applications

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

Group	Outside Diameter Pipe / Tube / Hose Ø D1		Nominal Bore Pipe (in)	Ordering Codes (1 Clamp Body) (** = Material)	Dimensions (mm/in)							
					L1	L2	L3	B	H	S	Ø D2	Ø D3
1	STAUFF	3,2	1/8	LB-103.2-**-								
		6		LB-106-**-	22	9	6,5	12	10,5	2	6,8	7
		6,4	1/4	LB-106.4-**-	.87	.35	.26	.47	.41	.08	.27	.28
		8		LB-108-**-								
2		9,5	3/8	LB-209.5-**-								
		10	1/8	LB-210-**-	27	11	7	16	15	2	6,8	7
		11,1		LB-211.1-**-	1.06	.43	.28	.63	.59	.08	.27	.28
		12		LB-212-**-								
3		12,7	1/2	LB-312.7-**-								
		13,5	1/4	LB-313.5-**-								
		14		LB-314-**-								
		15		LB-315-**-	34	15	7	20	22,5	2	6,8	7
		16	5/8	LB-316-**-	1.34	.59	.28	.79	.89	.08	.27	.28
		17,2	3/8	LB-317.2-**-								
		18		LB-318-**-								
4		19	3/4	LB-419-**-								
		20		LB-420-**-								
		21,3	1/2	LB-421.3-**-	42	19	7	20	30	2	6,8	7
		22		LB-422-**-	1.65	.75	.28	.79	1.18	.08	.27	.28
		25		LB-425-**-								
		25,4	1	LB-425.4-**-								

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

Clamp Body - Twin Design Types LBG / LBU



Group	Outside Diameters Pipe / Tube / Hose Ø D1 / Ø D2	Nominal Bore Pipe	Ordering Codes (1 Clamp Body)	Dimensions (mm/in)						
STAUFF	(mm)	(in)	(** = Material)	L1	L2	B	H	S	Ø D3	Ø D4
1	3,2	1/8	LBG-103.2/03.2-**-**							
	6		LBG-106/06-**-**	31	18	12	10,5	2	6,8	7
	6,4	1/4	LBG-106.4/06.4-**-**	1.22	.71	.47	.41	.08	.27	.28
	8		LBG-108/08-**-**							
2	9,5	3/8	LBG-209.5/09.5-**-**							
	10	1/8	LBG-210/10-**-**	39	22	16	15	2	6,8	7
	11,1		LBG-211.1/11.1-**-**	1.54	.87	.63	.59	.08	.27	.28
	12		LBG-212/12-**-**							
3	12,7	1/2	LBG-312.7/12.7-**-**							
	13,5	1/4	LBG-313.5/13.5-**-**							
	14		LBG-314/14-**-**							
	15		LBG-315/15-**-**	53	30	20	22,5	2	6,8	7
	16	5/8	LBG-316/16-**-**	2.09	1.18	.79	.89	.08	.27	.28
	17,2	3/8	LBG-317.2/17.2-**-**							
4	18		LBG-318/18-**-**							
	19	3/4	LBG-419/19-**-**							
	20		LBG-420/20-**-**							
	21,3	1/2	LBG-421.3/21.3-**-**	70	38	20	30	2	6,8	7
	22		LBG-422/22-**-**	2.76	1.50	.79	1.18	.08	.27	.28
	25		LBG-425/25-**-**							
	25,4	1	LBG-425.4/25.4-**-**							

Additional outside diameters and combinations of different outside diameters (Clamp Body, Type LBU) are available upon request.
Please contact STAUFF for further information.

Ordering Codes

Clamp Body *LBG-*1*03.2/03.2-*PP

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

Standard Materials



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



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

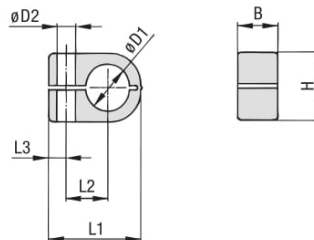
See pages 154 / 155 for material properties and technical information.

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

Applications

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

Clamp Body - Single Design Type LN



Ordering Codes

Clamp Body

***LN-*1*06-*PP**

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

Standard Materials



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



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

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

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

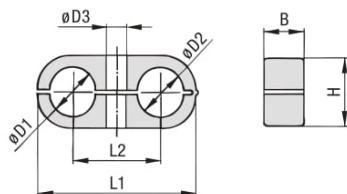
Applications

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

Group	Outside Diameter Pipe / Tube / Hose Ø D1		Nominal Bore Pipe (in)	Ordering Codes (1 Clamp Body) (** = Material)	Dimensions (mm/in)					
STAUFF	(mm)	(in)	(in)		L1	L2	L3	B	H	Ø D2
1	6			LN-106-***						
	6,4	1/4		LN-106.4-***	22	9	7	14,5	13,5	6,8
	8			LN-108-***	.87	.35	.28	.57	.53	.27
2	8			LN-208-***						
	9,5	3/8		LN-209.5-***						
	10		1/8	LN-210-***	27	11	7	14,5	18,5	6,8
	12			LN-212-***	1.06	.43	.28	.57	.59	.27
	12,7	1/2		LN-212.7-***						
3	10		1/8	LN-310-***						
	12			LN-312-***						
	12,7	1/2		LN-312.7-***						
	13,5		1/4	LN-313.5-***	33	15	7	14,5	23,5	6,8
	14			LN-314-***	1.30	.59	.28	.57	.93	.27
	15			LN-315-***						
	16	5/8		LN-316-***						
4	14			LN-414-***						
	15			LN-415-***						
	16	5/8		LN-416-***						
	17,2		3/8	LN-417.2-***	40	19	7	14,5	30,5	6,8
	18			LN-418-***	1.57	.75	.28	.57	1.20	.27
	19	3/4		LN-419-***						
	20			LN-420-***						
	21,3		1/2	LN-421.3-***						
	22			LN-422-***						

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

Clamp Body • Twin Design Type LNGF / LNUF



Group	Outside Diameters Pipe / Tube / Hose Ø D1 / Ø D2	Nominal Bore Pipe	Ordering Codes (1 Clamp Body)	Dimensions (mm/in)				
STAUFF	(mm)	(in)	(** = Material)	L1	L2	B	H	Ø D3
1	6		LNGF-106/06-**-**	32	18	14,5	13,5	6,8
	6,4	1/4	LNGF-106.4/06.4-**-**	1.26	.70	.57	.53	.27
	8		LNGF-108/08-**-**					
2	8		LNGF-208/08-**-**					
	9,5	3/8	LNGF-209.5/09.5-**-**					
	10	1/8	LNGF-210/10-**-**	41	22	14,5	18,5	6,8
	12		LNGF-212/12-**-**	1.61	.86	.57	.73	.27
	12,7	1/2	LNGF-212.7/12.7-**-**					
3	10	1/8	LNGF-310/10-**-**					
	12		LNGF-312/12-**-**					
	12,7	1/2	LNGF-312.7/12.7-**-**					
	13,5	1/4	LNGF-313.5/13.5-**-**	54	30	14,5	23,5	6,8
	14		LNGF-314/14-**-**	2.13	1.18	.57	.93	.27
	15		LNGF-315/15-**-**					
	16	5/8	LNGF-316/16-**-**					
4	14		LNGF-414/14-**-**					
	15		LNGF-415/15-**-**					
	16	5/8	LNGF-416/16-**-**					
	17,2	3/8	LNGF-417.2/17.2-**-**	70	38	14,5	30,5	6,8
	18		LNGF-418/18-**-**	2.76	1.50	.57	1.20	.27
	19	3/4	LNGF-419/19-**-**					
	20		LNGF-420/20-**-**					
	21,3	1/2	LNGF-421.3/21.3-**-**					
	22		LNGF-422/22-**-**					

Additional outside diameters and combinations of different outside diameters (Clamp Body, type LNUF) are available upon request. Please contact STAUFF for further information.

Ordering Codes

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

- * Light Series: Clamp Body / Twin Design with identical diameters LNGF
- Clamp Body / Twin Design with different diameters LNUF
- * STAUFF Group 1
- * Exact outside diameters Ø D1 / Ø D2 (mm) 06/06
- * Material code (see below) PP

Standard Materials

Polypropylene
Colour: Green
Material code: PP

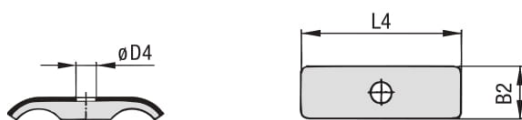
Polyamide
Colour: Black
Material code: PA

See pages 154 / 155 for material properties and technical information. Alternative materials are available upon request. Please contact STAUFF for further information.

Applications

- Pneumatics, Instrumentation and Automotive Technology, Machine Tool Industry, Lubrication, Mechanical Engineering

Cover Plate Type DPL



Group	Dimensions (mm/in)	Ordering Codes (Standard Options)
STAUFF	L4 B2 Ø D4	
1	29,5 15,5 6,8	DPL-1-W3
	1.16 .61 .27	
2	40 15,5 6,8	DPL-2-W3
	1.57 .61 .27	
3	51 16 6,8	DPL-3-W3
	2.01 .63 .27	
4	63,5 16 6,8	DPL-4-W3
	2.50 .63 .27	

Ordering Codes

Cover Plate *DPL-*1-*W3

- * Cover Plate for Clamp Body / Twin Design DPL
- * STAUFF Group 1
- * Material code Carbon Steel, zinc/nickel-plated W3

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information. Please note: The maximum tightening torque for bolts is 2,5 N-m (1.85 ft-lb).



Saddle / Piggyback Clamp

ZR-518

122

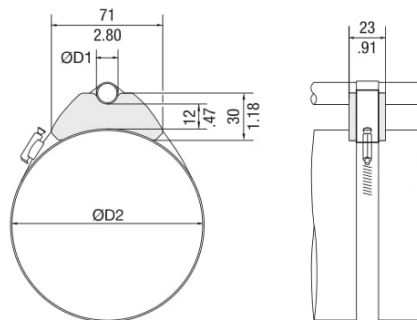


Custom-Designed Saddle / Piggyback Clamps

122

J

Saddle / Piggyback Clamps Type ZR



Order Code

Saddle Clamp

ZR-518-SA73-BK

Standard Material



Thermoplastic Elastomer (73 Shore-A)
Colour: Black

See pages 154 / 155 for properties and technical information.

Min/Max Outside Diameters *				Tightening Strap Dimensions (Not Included in Scope of Delivery)			
Pipe / Tube Ø D1		Ø D2		Length		Width	
(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
10 ... 22	.3987	50 ... 70	1.96 ... 2.76	196 ... 254	7.71 ... 10.00	13	.51
		60 ... 80	2.36 ... 3.15	225 ... 284	8.86 ... 11.18		
		70 ... 90	2.76 ... 3.54	254 ... 314	10.00 ... 12.36		
		80 ... 105	3.15 ... 4.13	284 ... 359	11.18 ... 14.13		
		90 ... 120	3.54 ... 4.72	314 ... 404	12.36 ... 15.90		
		105 ... 140	4.13 ... 5.51	359 ... 464	14.13 ... 18.27		
		125 ... 160	4.92 ... 6.30	419 ... 525	16.50 ... 20.66		
		145 ... 180	5.71 ... 7.09	479 ... 586	18.86 ... 23.07		
		165 ... 200	6.50 ... 7.87	540 ... 647	21.26 ... 25.47		

* Ø D1 depending on Ø D2!

J

Saddle / Piggyback Clamps

Type ZR saddle clamps from STAUFF allow direct fixing and safe guiding of pipes, tubes and hoses on hydraulic cylinders and other round or oval structures, without causing damage to their strength or integrity as with screw-fixing or welding and without preparation or reworking of the surface coating. The simple system also allows a pipe, tube or hose with a small outer diameter to be installed on top of a significantly larger one.

The position can be adjusted at any time thanks to free axial and radial positioning of the clamps on the structure. This also makes the system suitable for retrofitting.

The standard version ZR-518 made of thermoplastic elastomer material covers diameters in a range from 50 to 200 mm / 1.96 to 7.87 in for the cylinder and from 10 to 22 mm / .39 to .87 inch for the attached tube or hose. The diameters to be covered are used to calculate the overall length of the required tightening straps or the dimensions of the steel strap or worm drive hose clamp, e.g. according to DIN 3017.

STAUFF meets deviating requirements with numerous other variants which were implemented in the past and can be manufactured again at any time.

If required, customised clamps can be developed for specific requirements or manufactured based on drawings and models provided.

Please contact STAUFF for further information.



Dimensional drawings: All dimensions in mm (in).



**Flat Steel U-Bolt
with Plastic Pipe Saddle (Short) and U-Profile**
FB / RUK

126



**Round Steel U-Bolt
with Plastic Pipe Saddle (Short)**
RB / RUK

128



**Round Steel U-Bolt
with Plastic Pipe Saddle (Long)**
RB / RUL

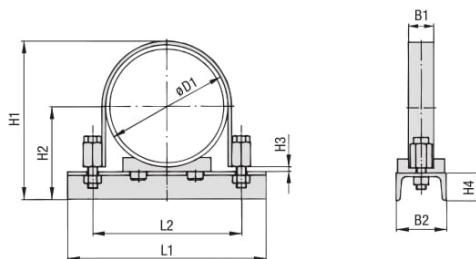
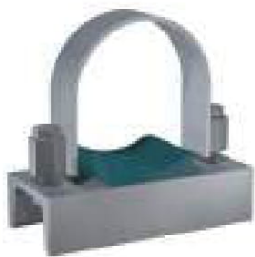
130



**Round Steel U-Bolt (DIN 3570, Type A)
without Plastic Pipe Saddle**
RBD

132

Flat Steel U-Bolt with Plastic Pipe Saddle (Short) and U-Profile Type FB+RUK (To be used as Fixed Point Clamps only)



Flat Steel U-Bolt (type FB) with Plastic Pipe Saddle
(type RUK), U-Profile and Hexagon Head Bolts

Ordering Codes

Clamp Assembly *FB+RUK-*48.3-*PP-*W1

One clamp assembly is consisting of one Flat Steel U-Bolt (type FB), one Plastic Pipe Saddle (type RUK), one U-Profile (to DIN 1026) with two Nuts (to DIN EN ISO 4032) and two Hexagon Head Bolts (to DIN EN ISO 4014 / 4017).

* Clamp Assembly (as listed above) **FB+RUK**

* Exact outside diameter Ø D1 (mm) **48.3**

* Material of Pipe Saddle (see below) **PP**

* Material code Carbon Steel, uncoated **W1**
Carbon Steel, zinc-plated,
blue-chromated **W33**

Stainless Steel V4A **W5**
1.4401 / 1.4571 (AISI 316 / 316 Ti)

Please note: The U-Profile (to DIN 1026) is made of Carbon Steel, uncoated. All items are supplied non-assembled.

Standard Materials for Plastic Pipe Saddles



Polypropylene
Colour: Green
Material code: **PP**



Polyamide
Colour: Black
Material code: **PA**

See pages 154 / 155 for material properties and technical information.

Alternative materials are available upon request.
Please contact STAUFF for further information.

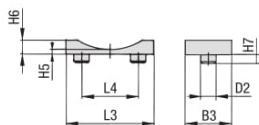
Applications

- Standing or hanging installation of pipes and tubes on beams, profiles and consoles
- Design with two threaded ends allows for ideal adaptation to suit the exact outer diameter of the pipe or tube

Diameter Nominal	Outside Diameter Pipe / Tube Ø D1		Nominal Bore Pipe (in)	Dimensions (mm /in)							U-Profile (DIN 1026) B2 x H4
DN	(mm)	(in)		Flat Steel U-Bolt (Type FB)							
				L1	L2	H1	H2	H3	B1		
40	48,3	1.93	1-1/2	100	76	95	67	5	20 x 3	50 x 38	
				3.94	2.99	3.74	2.64	.20	.78 x .12	1.97 x 1.50	
50	57	2.28		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	121	146	97,5	8	40 x 4	80 x 45	
				6.30	4.76	5.75	3.84	.31	1.57 x .16	3.15 x 1.77	
100	108	4.32		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	
	216	8.64		320	258	277	161	8	40 x 6	80 x 45	
				12.60	10.16	1.91	6.34	.31	1.57 x .24	3.15 x 1.77	
200	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	
	267	10.68		380	324	328	186,5	8	40 x 8	80 x 45	
				14.96	12.76	12.91	7.34	.31	1.57 x .31	3.15 x 1.77	
250	273	10.92	10	385	330	334	189,5	8	40 x 8	80 x 45	
				15.16	12.99	13.15	7.46	.31	1.57 x .31	3.15 x 1.77	
	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	
300	323,9	12.96	12	450	381	390	215	8	40 x 8	80 x 45	
				17.72	15.00	15.35	8.46	.31	1.57 x .31	3.15 x 1.77	
	355,6	14.22	14	480	417,5	421	235	12	60 x 8	100 x 50	
				18.90	16.44	16.57	9.25	.47	2.36 x .31	3.94 x 1.97	
350	368	14.72		490	430	434	242	12	60 x 8	100 x 50	
				19.29	16.93	17.09	9.53	.47	2.36 x .31	3.94 x 1.97	
	406,4	16.26	16	550	468,5	472	261	12	60 x 8	100 x 50	
				21.65	18.44	18.58	10.28	.47	2.36 x .31	3.94 x 1.97	
400	419	16.76		550	481	485	267,5	12	60 x 8	100 x 50	
				21.65	18.94	19.09	10.53	.47	2.36 x .31	3.94 x 1.97	
	457	18.28	18	585	519	523	286,5	12	60 x 8	100 x 50	
				23.03	20.43	20.59	11.28	.47	2.36 x .31	3.94 x 1.97	
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	583	587	319	12	60 x 8	100 x 50	
				25.20	22.96	23.11	12.56	.47	2.36 x .31	3.94 x 1.97	

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Flat Steel U-Bolt with Plastic Pipe Saddle (Short) and U-Profile (To be used as Fixed Point Clamps only) Type FB+RUK



Plastic Pipe Saddle (type RUK)
(For size DN 40, dimension L4 is staggered by 90°)



Hexagon Head Bolt AS
(according to DIN EN ISO 4014 / 4017)



Diameter Nominal	Outside Diameter Pipe / Tube Ø D1		Nominal Bore Pipe	Dimensions (mm /in)							Hexagon Head Bolt (DIN EN ISO 4014 / 4017)
DN	(mm)	(in)	(in)	Plastic Pipe Saddle (type RUK)							Thread G x L
				L3	L4	B3	D2	H5	H6	H7	
40	48,3	1.93	1-1/2	24 .94	25 .98	35 1.38	8 .31	5 .20	8 .31	5 .20	M10 x 40
50	57	2.28		38 1.50	25 .98	50 1.97	10 .39	5 .20	10 .39	6 .24	M10 x 40
	60,3	2.41	2	38 1.50	25 .98	50 1.97	10 .39	5 .20	10 .39	6 .24	M10 x 40
65	76,1	3.04	2-1/2	38 1.50	25 .98	50 1.97	10 .39	5 .20	10 .39	6 .24	M10 x 40
80	88,9	3.56	3	75 2.95	40 1.57	70 2.76	15 .59	8 .31	17 .67	10 .39	M 12 x 55
100	108	4.32		75 2.95	40 1.57	70 2.76	15 .59	8 .31	17 .67	10 .39	M 12 x 55
	114,3	4.57	4	75 2.95	40 1.57	70 2.76	15 .59	8 .31	17 .67	10 .39	M 12 x 55
125	133	5.32		75 2.95	40 1.57	70 2.76	15 .59	8 .31	17 .67	10 .39	M 12 x 55
	139,7	5.59	5	75 2.95	40 1.57	70 2.76	15 .59	8 .31	17 .67	10 .39	M 12 x 55
150	159	6.36		140 5.51	90 3.54	75 2.95	25 .98	8 .31	26 1.02	10 .39	M 16 x 75
	168,3	6.73	6	140 5.51	90 3.54	75 2.95	25 .98	8 .31	26 1.02	10 .39	M 16 x 75
175	193,7	7.75		140 5.51	90 3.54	75 2.95	25 .98	8 .31	26 1.02	10 .39	M 16 x 75
200	216	8.64		140 5.51	90 3.54	75 2.95	25 .98	8 .31	26 1.02	10 .39	M 16 x 75
	219,1	8.76	8	140 5.51	90 3.54	75 2.95	25 .98	8 .31	26 1.02	10 .39	M 16 x 75
250	267	10.68		140 5.51	90 3.54	75 2.95	25 .98	8 .31	26 1.02	10 .39	M 20 x 80
	273	10.92	10	140 5.51	90 3.54	75 2.95	25 .98	8 .31	26 1.02	10 .39	M 20 x 80
300	318	12.72		220 8.66	150 5.91	75 2.95	30 1.18	8 .31	32 1.26	10 .39	M 20 x 80
	323,9	12.96	12	220 8.66	150 5.91	75 2.95	30 1.18	8 .31	32 1.26	10 .39	M 20 x 80
350	355,6	14.22	14	220 8.66	150 5.91	75 2.95	30 1.18	8 .31	32 1.26	10 .39	M 24 x 100
	368	14.72		220 8.66	150 5.91	75 2.95	30 1.18	8 .31	32 1.26	10 .39	M 24 x 100
400	406,4	16.26	16	220 8.66	150 5.91	75 2.95	30 1.18	8 .31	32 1.26	10 .39	M 24 x 100
	419	16.76		220 8.66	150 5.91	75 2.95	30 1.18	8 .31	32 1.26	10 .39	M 24 x 100
500	457	18.28	18	220 8.66	150 5.91	75 2.95	30 1.18	8 .31	32 1.26	10 .39	M 24 x 100
	508	20.32	20	220 8.66	150 5.91	75 2.95	30 1.18	8 .31	32 1.26	10 .39	M 24 x 100
	521	20.84		220 8.66	150 5.91	75 2.95	30 1.18	8 .31	32 1.26	10 .39	M 24 x 100

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Ordering Codes

Flat Steel U-Bolt

***FB-*A-48.3-*W1**

- * Flat Steel U-Bolt **FB**
- * Exact outside diameter Ø D1 (mm) **A-48.3**
- * Material code Carbon Steel, uncoated **W1**
Carbon Steel, zinc-plated, blue-chromated **W32**
Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti) **W5**

only Plastic Pipe Saddle

***RUK-*48.3-*PP**

- * Plastic Pipe Saddle (Short) **RUK**
- * Exact outside diameter Ø D1 (mm) **48.3**
- * Material of Pipe Saddle (see below) **PP**

Please note: All items are supplied non-assembled.

Standard Materials for Plastic Pipe Saddles

Polypropylene
Colour: Green
Material code: **PP**

Polyamide
Colour: Black
Material code: **PA**

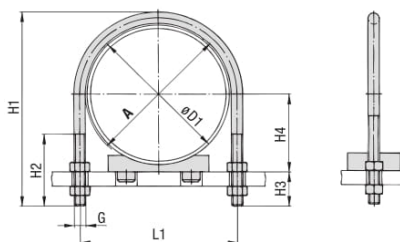
See pages 154 / 155 for material properties and technical information.

Alternative materials are available upon request.
Please contact STAUFF for further information.

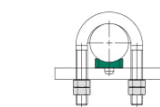
Applications

- Standing or hanging installation of pipes and tubes on beams, profiles and consoles
- Design with two threaded ends allows for ideal adaptation to suit the exact outer diameter of the pipe or tube

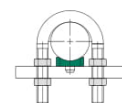
Round Steel U-Bolt with Plastic Pipe Saddle (Short) Type RB+RUK



Round Steel U-Bolt (type RB) with Plastic Pipe Saddle (type RUK)



Recommended Installation
<DN25



Recommended Installation
>DN25

Ordering Codes

Clamp Assembly *RB+RUK-*48.3-*PP-*W1

One clamp assembly is consisting of one Round Steel U-Bolt (type RB), one Plastic Pipe Saddle (type RUK) and four Nuts (to DIN EN ISO 4032).

* Clamp Assembly (as listed above) **RB+RUK**

* Exact outside diameter Ø D1 (mm) **48.3**

* Material of Pipe Saddle (see below) **PP**

* Material code Carbon Steel, uncoated **W1**
Carbon Steel, zinc-plated, blue-chromated **W32**
Stainless Steel V4A **W5**
1.4401 / 1.4571 (AISI 316 / 316 Ti)

Please note: All items are supplied non-assembled.

Standard Materials for Plastic Pipe Saddles



Polypropylene

Colour: Green

Material code: **PP**



Polyamide

Colour: Black

Material code: **PA**

See pages 154 / 155 for material properties and technical information.

Alternative materials are available upon request.
Please contact STAUFF for further information.

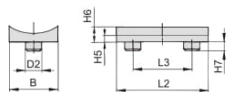
Applications

- Standing or hanging installation of pipes and tubes on beams, profiles and consoles
- Design with two threaded ends allows for ideal adaptation to suit the exact outer diameter of the pipe or tube

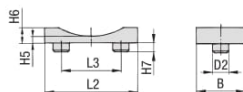
Diameter Nominal DN	Outside Diameter Pipe / Tube Ø D1		Nominal Bore Pipe (in)	Dimensions (mm /in)							
	(mm)	(in)		Round Steel U-Bolt (Type RB)						Thread G	
				A	L1	H1	H2	H3	H4		
20	25	.98			40	73,5	41	30	17,5		
				30	1.57	2.89	1.61	1.18	.69	M10	
	26,9	1.06	3/4	1.18	40	73,5	41	30	18,5	M10	
25	30	1.18			48	81	48	30	20		
				38	1.89	3.19	1.89	1.18	.79	M10	
	33,7	1.33	1	1.50	48	81	48	30	22	M10	
32	38	1.50			56	89	48	30	24		
				46	2.20	3.50	1.89	1.18	.94	M10	
	42,4	1.69	1-1/4	1.81	56	89	48	30	26,2	M10	
40	44,5	1.76			62	100	55	35	27,2		
				52	2.44	3.94	2.17	1.38	1.07	M10	
	48,3	1.90	1-1/2	2.05	62	100	55	35	29	M10	
50	57	2.28			76	118	63	39	33,5		
				64	2.99	4.65	2.48	1.54	1.32	M12	
	60,3	2.41	2	2.52	76	118	63	39	35,2	M12	
65	76,1	3.04	2-1/2		2.99	4.65	2.48	1.54	1.39		
80	88,9	3.56	3	82	94	135	77	39	43	M12	
				3.23	3.70	5.31	3.03	1.54	1.69		
				94	106	152	82	41	52,5	M12	
100	108	4.32			3.70	4.17	5.98	3.23	1.61	2.07	M12
				120	136	190	105	49	62	M16	
	114,3	4.57	4	4.72	5.35	7.48	4.13	1.93	2.44	M16	
125	133	5.32			5.35	7.48	4.13	1.93	2.56		
				148	164	217	105	49	74,5	M16	
	139,7	5.59	5	5.83	6.46	8.54	4.13	1.93	2.93	M16	
150	159	6.36			6.46	8.54	4.13	1.93	3.07	M16	
				176	192	247	105	51	87,5	M16	
	168,3	6.73	6	6.93	7.56	9.72	4.13	2.01	3.44	M16	
175	193,7	7.75			7.56	9.72	4.13	2.01	3.62	M16	
200	216	8.64		202	218	273	105	51	105	M16	
				7.96	8.58	10.75	4.13	2.01	4.13		
	219,1	8.76	8	8.98	248	311	125	59	116	M20	
250	267	10.68		228	9.76	12.24	4.92	2.32	4.57	M20	
					9.76	12.24	4.92	2.32	4.63		
	273	10.92	10	11.10	303	364	125	59	141,5	M20	
300	318	12.72		282	11.93	14.33	4.92	2.32	5.57	M20	
					302	364	125	59	144,5	M20	
	323,9	12.96	12	13.07	11.89	14.33	4.92	2.32	5.69	M20	
350	355,6	14.22	14	332	352	418	125	62	167	M20	
					13.86	16.46	4.92	2.44	6.57	M20	
	368	14.72		378	352	418	125	62	170	M20	
400	406,4	16.26	16	428	13.86	16.46	4.92	2.44	6.69	M20	
					402	475	145	70	186	M24	
	419	16.76		14.88	15.83	18.70	5.71	2.76	7.32	M24	
500	508	20.32	20	530	402	475	145	70	192	M24	
					15.83	18.70	5.71	2.76	7.56		
	521	20.84		16.85	452	526	145	70	211	M24	
					17.80	20.71	5.71	2.76	8.31	M24	
					452	526	145	70	217,5	M24	
					17.80	20.71	5.71	2.76	8.56		
	508	20.32	20	530	554	627	145	70	262	M24	
					21.81	24.69	5.71	2.76	10.31	M24	
	521	20.84		20.87	554	627	145	70	269	M24	
					21.81	24.69	5.71	2.76	10.59	M24	

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Round Steel U-Bolt with Plastic Pipe Saddle (Short) Type RB+RUK



Plastic Pipe Saddle (type RUK)
(For sizes DN 20 to DN 40)



Plastic Pipe Saddle (type RUK)
(From size DN 50 on)



Diameter Nominal	Outside Diameter Pipe / Tube Ø D1		Nominal Bore Pipe	Dimensions (mm/in)								
DN	(mm)	(in)	(in)	Plastic Pipe Saddle (Type RUK)								
				A	L2	L3	B	H5	H6	H7	D2	
20	25	.98			35	25	24	5	8	5	8	
				30	1.38	.98	.94	.20	.31	.20	.31	
	26,9	1.06	3/4	1.18	35	25	24	5	8	5	8	
25					1.38	.98	.94	.20	.31	.20	.31	
	30	1.18		38	35	25	24	5	8	5	8	
				1.50	35	25	24	5	8	5	8	
32					1.38	.98	.94	.20	.31	.20	.31	
	38	1.50		46	35	25	24	5	8	5	8	
				1.81	1.38	.98	.94	.20	.31	.20	.31	
40	42,4	1.69	1-1/4		35	25	24	5	8	5	8	
					1.38	.98	.94	.20	.31	.20	.31	
	44,5	1.76		52	35	25	24	5	8	5	8	
50					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	
65					38	25	50	5	10	6	10	
	57	2.28		64	1.50	.98	1.97	.20	.39	.24	.39	
				2.52	38	25	50	5	10	6	10	
80					1.50	.98	1.97	.20	.39	.24	.39	
	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
100	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
						75	40	70	8	17	10	15
125	108	4.32		120	2.95	1.57	2.76	.31	.67	.39	.59	
				4.72	75	40	70	8	17	10	15	
	114,3	4.57	4		2.95	1.57	2.76	.31	.67	.39	.59	
150					75	40	70	8	17	10	15	
	133	5.32		148	2.95	1.57	2.76	.31	.67	.39	.59	
				5.83	75	40	70	8	17	10	15	
175	139,7	5.59	5		2.95	1.57	2.76	.31	.67	.39	.59	
					140	90	75	8	26	10	25	
	159	6.36		176	5.51	3.54	2.95	.31	1.02	.39	.98	
200					140	90	75	8	26	10	25	
	168,3	6.73	6	6.93	5.51	3.54	2.95	.31	1.02	.39	.98	
250	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	
	216	8.64		228	140	90	75	8	26	10	25	
300					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	
350	267	10.68			140	90	75	8	26	10	25	
				282	5.51	3.54	2.95	.31	1.02	.39	.98	
	273	10.92	10	11.10	140	90	75	8	26	10	25	
400					5.51	3.54	2.95	.31	1.02	.39	.98	
	318	12.72		332	8.66	5.91	2.95	.31	1.26	.39	1.18	
450				13.07	220	150	75	8	32	10	30	
	323,9	12.96	12		8.66	5.91	2.95	.31	1.26	.39	1.18	
500	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	
550					8.66	5.91	2.95	.31	1.26	.39	1.18	
	406,4	16.26	16	428	220	150	75	8	32	10	30	
				16.85	8.66	5.91	2.95	.31	1.26	.39	1.18	
600	419	16.76			8.66	5.91	2.95	.31	1.26	.39	1.18	
	508	2.32	20	530	220	150	75	8	32	10	30	
650				2.87	8.66	5.91	2.95	.31	1.26	.39	1.18	
	521	2.84			220	150	75	8	32	10	30	
					8.66	5.91	2.95	.31	1.26	.39	1.18	

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Ordering Codes

Round Steel U-Bolt *RB-*A-52-*W1-*COMPL

One Round Steel U-Bolt (type RB) includes
four Nuts (to DIN EN ISO 4032).

* Round Steel U-Bolt	RB
* Dimension A (mm)	A-52
* Material code	Carbon Steel, uncoated Carbon Steel, zinc-plated, blue-chromated Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti)
	W1 W32 W5

only Plastic Pipe Saddle *RUK-*48.3-*PP

* Plastic Pipe Saddle (Short)	RUK
* Exact outside diameter Ø D1 (mm)	48.3
* Material of Pipe Saddle (see below)	PP

Standard Materials for Plastic Pipe Saddles

Polypropylene
Colour: Green
Material code: **PP**

Polyamide
Colour: Black
Material code: **PA**

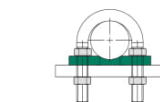
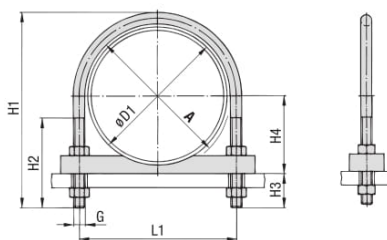
See pages 154 / 155 for material properties and technical information.

Alternative materials are available upon request.
Please contact STAUFF for further information.

Applications

- Standing or hanging installation of pipes and tubes on beams, profiles and consoles
- Design with two threaded ends allows for ideal adaptation to suit the exact outer diameter of the pipe or tube

Round Steel U-Bolt with Plastic Pipe Saddle (Long) Type RB+RUL



Round Steel U-Bolt (type RB) with Plastic Pipe Saddle (type RUL)

Recommended Installation
>DN50

Ordering Codes

Clamp Assembly *RB+RUL-*48.3-*PP-*W1

One clamp assembly is consisting of one Round Steel U-Bolt (type RB), one Plastic Pipe Saddle (type RUL) and four Nuts (to DIN EN ISO 4032).

* Clamp Assembly (as listed above) **RB+RUL**

* Exact outside diameter Ø D1 (mm) **48.3**

* Material of Pipe Saddle (see below) **PP**

* Material code Carbon Steel, uncoated **W1**

Carbon Steel, zinc-plated, blue-chromated **W32**

Stainless Steel V4A **W5**

1.4401 / 1.4571 (AISI 316 / 316 Ti)

Please note: All items are supplied non-assembled.

Standard Materials for Plastic Pipe Saddles

Polypropylene
Colour: Green
Material code: **PP**

Polyamide
Colour: Black
Material code: **PA**

See pages 154 / 155 for material properties and technical information.

Alternative materials are available upon request.
Please contact STAUFF for further information.

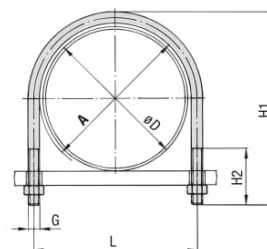
Applications

- Standing or hanging installation of pipes and tubes on beams, profiles and consoles
- Design with two threaded ends allows for ideal adaptation to suit the exact outer diameter of the pipe or tube

Diameter Nominal	Outside Diameter Pipe / Tube Ø D1		Nominal Bore Pipe	Dimensions (mm/in)						
DN	(mm)	(in)	(in)	Round Steel U-Bolt (Type RB)						
				A	L1	H1	H2	H3	H4	Thread G
20	25	.98			40	73,5	41	30	17,5	
				30	1.57	2.89	1.61	1.18	.69	M10
	26,9	1.06	3/4	1.18	40	73,5	41	30	18.5	M10
25					1.57	2.89	1.61	1.18	.73	
	30	1.18			48	81	48	30	20	M10
				38	1.89	3.19	1.89	1.18	.79	M10
32	33,7	1.33	1	1.50	48	81	48	30	22	M10
					1.89	3.19	1.89	1.18	.87	
	38	1.50			56	89	48	30	24	M10
40				46	2.20	3.50	1.89	1.18	.94	M10
	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	
50	44,5	1.76			62	100	55	35	27,2	
				52	2.44	3.94	2.17	1.38	1.07	M10
	48,3	1.90	1-1/2	2.05	62	100	55	35	29	M10
65					2.44	3.94	2.17	1.38	1.14	
	57	2.28			76	118	63	39	33,5	
				64	2.99	4.65	2.48	1.54	1.32	M12
80	60,3	2.41	2	2.52	76	118	63	39	35,2	M12
					2.99	4.65	2.48	1.54	1.39	
	76,1	3.04	2-1/2	82	94	135	77	39	43	M12
100					3.23	3.70	5.31	3.03	1.54	1.69
	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
125	108	4.32			136	190	105	47	64	M16
				120	5.35	7.48	4.13	1.85	2.52	
	114,3	4.57	4	4.72	136	190	105	47	67	M16
150					5.35	7.48	4.13	1.85	2.64	
	133	5.32			164	217	105	47	76,5	
				148	6.46	8.54	4.13	1.85	3.01	M16
175	139,7	5.59	5	5.83	164	217	105	47	80	M16
					6.46	8.54	4.13	1.85	3.15	
	159	6.36			192	247	105	47	91,5	M16
200				176	7.56	9.72	4.13	1.85	3.60	
	168,3	6.73	6	6.93	192	247	105	47	96	M16
					7.56	9.72	4.13	1.85	3.78	
250	193,7	7.75		202	218	273	105	47	109	
					7.96	8.58	10.75	4.13	1.85	4.29
	216	8.64			248	311	125	55	120	M16
300				228	9.76	12.24	4.92	2.17	4.72	M20
	219,1	8.76	8	8.98	248	311	125	55	121,5	M20
					9.76	12.24	4.92	2.17	4.78	
350	267	10.68			303	364	125	55	145,5	
				282	11.93	14.33	4.92	2.17	5.73	M20
	273	10.92	10	11.10	302	364	125	55	148,5	M20
400					11.89	14.33	4.92	2.17	5.85	
	318	12.72			352	418	125	55	174	
				332	13.86	16.46	4.92	2.17	6.85	M20
450	323,9	12.96	12	13.07	352	418	125	55	177	M20
					13.86	16.46	4.92	2.17	6.97	
	355,6	14.22	14		402	475	145	63	193	M20
500				378	15.83	18.70	5.71	2.48	7.60	M24
	368	14.72		428	402	475	145	63	199	M24
					15.83	18.70	5.71	2.48	7.83	
550	406,4	16.26	16		452	526	145	63	218	
				428	17.80	20.71	5.71	2.48	8.58	M24
	419	16.76		16.85	452	526	145	63	224,5	M24
600					17.80	20.71	5.71	2.48	8.84	
	508	20.32	20		554	627	145	63	269	
				530	21.81	24.69	5.71	2.48	10.59	M24
650	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. Contact STAUFF for further information.

Round Steel U-Bolt (without Plastic Pipe Saddle) Type RBD (DIN 3570, Type A)



Round Steel U-Bolt (type RBD)

Ordering Codes

Clamp Assembly *RBD-*A-30-*W1-*COMPL

One clamp assembly is consisting of one Round Steel U-Bolt (type RBD according to DIN 3570, Type A) and two Nuts (to DIN EN ISO 4032).

* Clamp Assembly (as listed above) **RBD**

* Dimension A (mm) **A-30**

* Material code Carbon Steel, uncoated **W1**
Carbon Steel, zinc-plated, blue-chromated **W32**

Stainless Steel V4A **W5**
1.4401 / 1.4571 (AISI 316 / 316 Ti)

Please note: All items are supplied non-assembled.

Applications

- Standing or hanging installation of pipes and tubes on beams, profiles and consoles
- Design with two threaded ends allows for ideal adaptation to suit the exact outer diameter of the pipe or tube

Diameter Nominal DN	Outside Diameter Pipe / Tube Ø D1		Nominal Bore Pipe (in)	Dimensions (mm/m)				
	(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
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
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
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
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
65	76,1	3.04	2-1/2	82	94	125	50	M12
					3.23	3.70	1.97	
80	88,9	3.56	3	94	106	138	50	M12
					3.70	4.17	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
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
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
175	193,7	7.75		202	218	249	60	M16
					7.96	8.58	2.36	
	216	8.64		228	248	283	70	M20
200					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
300					11.89	13.15	2.76	
	318	12.72		332	352	385	70	M20
					13.86	15.16	2.76	
350	323,9	12.96	12	13.07	352	385	70	M20
					13.86	15.16	2.76	
	355,6	14.22	14	378	402	435	70	M24
400					15.83	17.13	2.76	
	368	14.72		428	402	435	70	M24
					15.83	17.13	2.76	
450	406,4	16.26	16	428	452	487	70	M24
					17.80	19.17	2.76	
	419	16.76		428	452	487	70	M24
500					17.80	19.17	2.76	
	508	20.32	20	530	554	589	70	M24
					21.81	23.19	2.76	
	521	20.84		530	554	589	70	M24
					21.81	23.19	2.76	

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



**Metal Pipe Clamp with Tension Clearance
Two-Bolt Design**
DIN 3567-A

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**Metal Pipe Clamp with Tension Clearance
Three-Bolt Design (Extended to One Side)**
DIN 3567-B

137



**Heavy Saddle with Tension Clearance
Single-Bolt Design**
DIN 1592

138



**Heavy Saddle with Tension Clearance
Two-Bolt Design**
DIN 1593

139



**Light Saddle with Tension Clearance
Single-Bolt Design**
DIN 1596

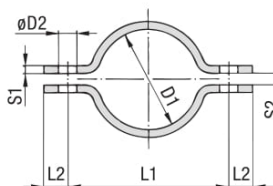
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**Light Saddle with Tension Clearance
Two-Bolt Design**
DIN 1597

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Metal Pipe Clamp with Tension Clearance (DIN 3567-A) Two-Bolt Design



Ordering Codes

Metal Pipe Clamp *DIN3567-A*-20*W1

One metal pipe clamp is consisting of two clamp halves.
Hexagon head bolts and nuts are not included.

* Metal Pipe Clamp to DIN 3567, type A **DIN3567-A**

* STAUFF Group (Ø D1) **-20**

* Material code Carbon Steel, uncoated **W1**

Carbon Steel, hot-dip galvanised **W40**

Stainless Steel V4A **W5**

1.4401 / 1.4571 (AISI 316 / 316 Ti)

Clamp Assembly *DIN3567-A*-20*W1*COMPL

One clamp assembly is consisting of two clamp halves,
two hexagon head bolts and two hexagon head nuts.

* Metal Pipe Clamp to DIN 3567, type A **DIN3567-A**

* STAUFF Group (Ø D1) **-20**

* Material code Carbon Steel, uncoated **W1**

Carbon Steel, hot-dip galvanised **W40**

Stainless Steel V4A **W5**

1.4401 / 1.4571 (AISI 316 / 316 Ti)

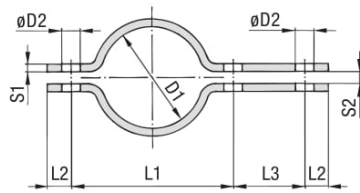
* Clamp assembly with bolts and nuts **COMPL**

Please note: All items are supplied non-assembled.

STAUFF Group	Nominal Size	Dimensions (mm/in)							Accessories
Ø D1	Pipe (mm)	L1	L2	S1	S2	D2	B1	Hexagon Head Bolts (Hexagon Head Nuts)	
20	15	57	15	5	7	11.5	30	M10 x 30 (M10)	3/8-16 UNC x 1-1/4 (3/8-16 UNC)
		2.24	.59	.20	.28	.45	1.18		
22	15	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	M12 x 35 (M12)	7/16-14 UNC x 1-3/8 (7/16-14 UNC)
		2.99	.59	.20	.28	.45	1.18		
43	1-1/4	82	15	5	7	11.5	30		
		3.23	.59	.20	.28	.45	1.18		
45	40	84	15	5	7	11.5	30		
		3.31	.59	.20	.28	.45	1.18		
49	1-1/2	88	15	5	7	11.5	30		
		3.46	.59	.20	.28	.45	1.18		
57	50	104	18	6	9	14	40		
		4.09	.71	.24	.35	.55	1.57		
61	2	108	18	6	9	14	40		
		4.25	.71	.24	.35	.55	1.57		
77	65	122	18	6	9	14	40	M16 x 45 (M16)	5/8-11 UNC x 1-3/4 (5/8-11 UNC)
		4.80	.71	.24	.35	.55	1.57		
89	80	136	18	6	9	14	40		
		5.35	.71	.24	.35	.55	1.57		
108	100	172	24	8	11	18	50		
		6.77	.94	.31	.43	.71	1.97		
115	4	178	24	8	11	18	50		
		7.01	.94	.31	.43	.71	1.97		
133	125	196	24	8	11	18	50		
		7.72	.94	.31	.43	.71	1.97		
140	150	204	24	8	11	18	50		
		8.03	.94	.31	.43	.71	1.97		
159	150	222	24	8	11	18	50	M20 x 50 (M20)	3/4-10 UNC x 2 (3/4-10 UNC)
		8.74	.94	.31	.43	.71	1.97		
169	150	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	200	284	24	8	11	18	50		
		11.18	.94	.31	.43	.71	1.97		
267	250	342	30	8	14	23	60	M24 x 60 (M24)	7/8-9 UNC 2-3/8 (7/8-9 UNC)
		13.46	1.18	.31	.55	.91	2.36		
273	250	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	300	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	400	510	36	10	18	27	70		
		10.08	1.42	.39	.71	1.06	2.76		
521	500	614	36	10	18	27	70		
		24.17	1.42	.39	.71	1.06	2.76		

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Metal Pipe Clamp with Tension Clearance (DIN 3567-B) Three-Bolt Design (Extended to One Side)



STAUFF Group	Nominal Size	Dimensions (mm/in)								Accessories
Ø D1	Pipe (mm)	Pipe (in)	L1	L2	L3	S1	S2	D2	B1	Hexagon Head Bolts (Hexagon Head Nuts)
20	15		57	15	46	5	7	11.5	30	M10 x 30 (M10) 3/8-16 UNC x 1-1/4 (3/8-16 UNC)
			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	
			2.68	.59	1.81	.20	.28	.45	1.18	
34		1	72	15	46	5	7	11.5	30	M12 x 35 (M12) 7/16-14 UNC x 1-3/8 (7/16-14 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	M16 x 45 (M16) 5/8-11 UNC x 1-3/4 (5/8-11 UNC)
			4.09	.71	2.13	.24	.35	.55	1.57	
61		2	108	18	54	6	9	14	40	
			4.25	.71	2.13	.24	.35	.55	1.57	
77	65	2-1/2	122	18	54	6	9	14	40	
			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	M20 x 50 (M20) 3/4-10 UNC x 2 (3/4-10 UNC)
			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	
			8.74	.94	2.76	.31	.43	.71	1.97	
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	M24 x 60 (M24) 7/8-9 UNC 2-3/8 (7/8-9 UNC)
			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	
318	300		392	30	86	8	14	23	60	M24 x 60 (M24) 7/8-9 UNC 2-3/8 (7/8-9 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	
419			510	36	104	10	18	27	70	
			10.08	1.42	4.09	.39	.71	1.06	2.76	
521	500		614	36	104	10	18	27	70	M24 x 60 (M24) 7/8-9 UNC 2-3/8 (7/8-9 UNC)
			24.17	1.42	4.09	.39	.71	1.06	2.76	

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Ordering Codes

Metal Pipe Clamp *DIN3567-B*-20*W1

One metal pipe clamp is consisting of two clamp halves.
Hexagon head bolts and nuts are not included.

- * Metal Pipe Clamp to DIN 3567, type B **DIN3567-B**
- * STAUFF Group (Ø D1) **-20**
- * Material code Carbon Steel, uncoated **W1**
- Carbon Steel, hot-dip galvanised **W40**
- Stainless Steel V4A **W5**
- 1.4401 / 1.4571 (AISI 316 / 316 Ti)

Clamp Assembly *DIN3567-B*-20*W1*COMPL

One clamp assembly is consisting of two clamp halves,
three hexagon head bolts and three hexagon head nuts.

- * Metal Pipe Clamp to DIN 3567, type B **DIN3567-B**
- * STAUFF Group (Ø D1) **-20**
- * Material code Carbon Steel, uncoated **W1**
- Carbon Steel, hot-dip galvanised **W40**
- Stainless Steel V4A **W5**
- 1.4401 / 1.4571 (AISI 316 / 316 Ti)

* Clamp assembly with bolts and nuts **COMPL**

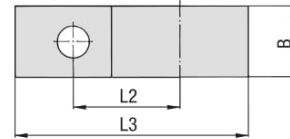
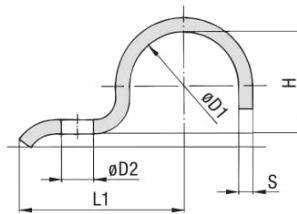
Please note: All items are supplied non-assembled.

Applications

- Installation of pipes, tubes and other construction elements on beams, profiles and consoles

Heavy Saddle with Tension Clearance (DIN 1592)

Single-Bolt Design



Ordering Codes

Heavy Saddle

*DIN1592-*7-*W66

* Heavy Saddle to DIN 1592

DIN1592

* STAUFF Group (Ø D1)

7

* Material code Carbon Steel, uncoated

W1

Carbon Steel, zinc-plated
and thick-film passivated

W66

Stainless Steel V4A

1.4401 / 1.4571 (AISI 316 / 316 Ti)

W5

Applications

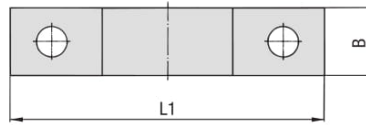
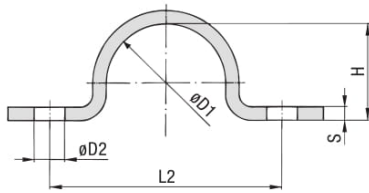
- Installation of pipes, tubes, poles and other round components directly on the substrate (floor, wall or ceiling)

STAUFF Group	Diameter Range		Dimensions (mm/in)							
	Ø D1	(mm)	(in)	L1	L2	L3	H	D2	B	S
7	5,5 ... 7	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 ... 102		52	36	70	22	14	30	5
				2.05	1.42	2.76	.87	.55	1.18	.20
28,5	26 ... 28,5	102 ... 112		53	37	73	24	14	30	5
				2.09	1.46	2.87	.94	.55	1.18	.20
31	28,5 ... 31	112 ... 122		55	39	75,5	27	14	30	5
				2.17	1.54	2.97	1.06	.55	1.18	.20
36	33 ... 36	130 ... 142		57	41	81	32	14	40	5
				2.24	1.61	3.19	1.26	.55	1.57	.20
39	36 ... 39	142 ... 154		59	43	83,5	34	14	40	5
				2.32	1.69	3.29	1.34	.55	1.57	.20
43	39 ... 43	154 ... 169		68	48	94,5	38	18	40	5
				2.68	1.89	3.72	1.50	.71	1.57	.20
46	43 ... 46	169 ... 181		70	50	98	41	18	40	5
				2.76	1.97	3.86	1.61	.71	1.57	.20
49	46 ... 49	181 ... 193		73	53	105,5	44	18	40	8
				2.87	2.09	4.15	1.73	.71	1.57	.31
52 *	49 ... 52	193 ... 205		76	56	110	47	18	40	8
				2.99	2.20	4.33	1.85	.71	1.57	.31
58	53 ... 58	209 ... 228		78	58	115	52	18	40	8
				3.07	2.28	4.53	2.05	.71	1.57	.31
61	58 ... 61	228 ... 240		80	60	118,5	57	18	40	8
				3.15	2.36	4.67	2.24	.71	1.57	.31

* Similar to DIN 1592.

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Heavy Saddle with Tension Clearance (DIN 1593) Two-Bolt Design



STAUFF Group	Diameter Range		Dimensions (mm/in)					
Ø D1	(mm)	(in)	L1	L2	H	D2	B	S
7	5,5 ... 7	.2228	44	28	5	6,6	16	2
			1.73	1.10	.20	.26	.63	.08
9	7 ... 9	.2835	48	32	6	6,6	20	2
			1.89	1.26	.24	.26	.79	.08
13	9,5 ... 13	.3951	52	36	9	6,6	20	2
			2.05	1.42	.35	.26	.79	.08
15,5	13 ... 15,5	.5161	56	40	12	6,6	20	2
			2.20	1.57	.47	.26	.79	.08
19	15,5 ... 19	.6175	60	44	15	6,6	20	2
			2.36	1.73	.59	.26	.79	.08
23	20 ... 23	.7991	82	56	19	11	25	3
			3.23	2.20	.75	.43	.98	.12
26	23 ... 26	.91 ... 1.02	84	58	22	11	25	3
			3.31	2.28	.87	.43	.98	.12
28,5	26 ... 28,5	1.02 ... 1.12	90	64	24	11	25	3
			3.54	2.52	.94	.43	.98	.12
31	28,5 ... 31	1.12 ... 1.22	90	64	27	11	25	3
			3.54	2.52	1.06	.43	.98	.12
36	33 ... 36	1.30 ... 1.42	106	80	32	11	30	5
			4.17	3.15	1.26	.43	1.18	.20
39	36 ... 39	1.42 ... 1.54	110	84	34	11	30	5
			4.33	3.31	1.34	.43	1.18	.20
43	39 ... 43	1.54 ... 1.69	120	88	38	14	30	5
			4.72	3.46	1.50	.55	1.18	.20
46	43 ... 46	1.69 ... 1.81	122	90	41	14	30	5
			4.80	3.54	1.61	.55	1.18	.20
49	46 ... 49	1.81 ... 1.93	122	90	44	14	30	5
			4.80	3.54	1.73	.55	1.18	.20
58	53 ... 58	2.09 ... 2.28	142	110	52	14	40	5
			5.59	4.33	2.05	.55	1.57	.20
61	58 ... 61	2.28 ... 2.40	142	110	57	14	40	5
			5.59	4.33	2.24	.55	1.57	.20
71	67 ... 71	2.64 ... 2.80	152	120	66	14	40	5
			5.98	4.72	2.60	.55	1.57	.20
77	73 ... 77	2.87 ... 3.03	176	136	72	18	40	5
			6.93	5.35	2.83	.71	1.57	.20
81	77 ... 81	3.03 ... 3.19	184	144	76	18	40	5
			7.24	5.67	2.99	.71	1.57	.20
91	88 ... 91	3.39 ... 3.58	198	158	85	18	40	8
			7.80	6.22	3.35	.71	1.57	.31
103	99 ... 103	3.90 ... 4.06	214	174	98	18	40	8
			8.43	6.85	3.86	.71	1.57	.31
109	105 ... 109	4.13 ... 4.29	220	180	104	18	40	8
			8.66	7.09	4.09	.71	1.57	.31
115	110 ... 115	4.33 ... 4.53	226	186	109	18	40	8
			8.90	7.32	4.29	.71	1.57	.31

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Ordering Codes

Heavy Saddle ***DIN1593-*7-*W66**

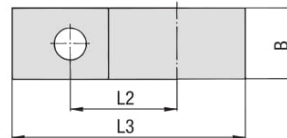
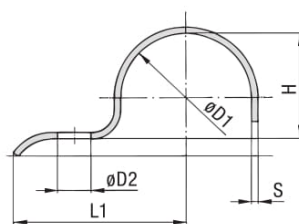
* Heavy Saddle to DIN 1593	DIN1593
* STAUFF Group (Ø D1)	7
* Material code	Carbon Steel, uncoated W1
	Carbon Steel, zinc-plated and thick-film passivated W66
	Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti) W5

Applications

- Installation of pipes, tubes, poles and other round components directly on the substrate (floor, wall or ceiling)

Light Saddle with Tension Clearance (DIN 1596)

Single-Bolt Design



Ordering Codes

Light Saddle

*DIN1596-*7-*W66

* Light Saddle to DIN 1596

DIN1596

* STAUFF Group (Ø D1)

7

* Material code Carbon Steel, uncoated
Carbon Steel, zinc-plated
and thick-film passivated

W1

W66

Stainless Steel V4A

1.4401 / 1.4571 (AISI 316 / 316 Ti)

W5

Applications

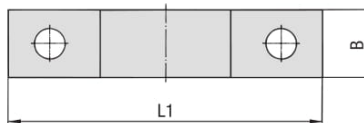
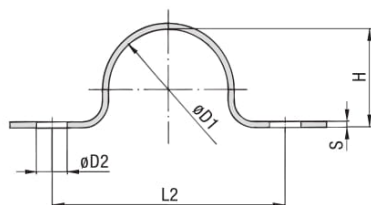
- Installation of pipes, tubes, poles and other round components directly on the substrate (floor, wall or ceiling)

STAUFF Group	Diameter Range		Dimensions (mm/in)						
Ø D1	(mm)	(in)	L1	L2	L3	H	D2	B	S
7	5,5 ... 7	.2228	26	14	31,5	5	6,6	16	2
			1.02	.55	1.24	.20	.26	.63	.08
9	7 ... 9	.2835	28	16	34,5	6	6,6	16	2
			1.10	.63	1.36	.24	.26	.63	.08
13	9,5 ... 13	.3951	30	18	38,5	9	6,6	20	2
			1.18	.71	1.52	.35	.26	.79	.08
15,5	13 ... 15,5	.5161	32	20	41,75	12	6,6	20	2
			1.26	.79	1.64	.47	.26	.79	.08
19	15,5 ... 19	.6175	34	22	45,5	15	6,6	20	2
			1.34	.87	1.79	.59	.26	.79	.08
23	20 ... 23	.7991	43	28	57,5	19	9	25	3
			1.69	1.10	2.26	.75	.35	.98	.12
26	23 ... 26	.91 ... 1.02	44	29	60	22	9	25	3
			1.73	1.14	2.36	.87	.35	.98	.12
28,5	26 ... 28,5	1.02 ... 1.12	47	32	64,25	24	9	25	3
			1.85	1.26	2.53	.94	.35	.98	.12
31	28,5 ... 31	1.12 ... 1.22	47	32	65,5	27	9	25	3
			1.85	1.26	2.58	1.06	.35	.98	.12
33 *	31 ... 33	1.22 ... 1.30	56	36	75,5	29	9	25	3
			2.20	1.42	2.97	1.14	.35	.98	.12
36	33 ... 36	1.30 ... 1.42	57	40	78	32	11	30	3
			2.24	1.57	3.07	1.26	.43	1.18	.12
39	36 ... 39	1.42 ... 1.54	59	42	81,5	34	11	30	3
			2.32	1.65	3.21	1.34	.43	1.18	.12
43	39 ... 43	1.54 ... 1.69	61	44	85,5	38	11	30	3
			2.40	1.73	3.37	1.50	.43	1.18	.12
46	43 ... 46	1.69 ... 1.81	62	45	88	41	11	30	3
			2.44	1.77	3.46	1.61	.43	1.18	.12
49	46 ... 49	1.81 ... 1.93	67	48	95,5	44	14	40	4
			2.64	1.89	3.76	1.73	.55	1.57	.16
52 *	49 ... 52	1.93 ... 2.05	72	53	102	47	14	40	4
			2.83	2.09	4.02	1.85	.55	1.57	.16
58	53 ... 58	2.09 ... 2.28	76	55	107	52	14	40	4
			2.99	2.17	4.21	2.05	.55	1.57	.16
61	58 ... 61	2.28 ... 2.40	77	58	111,5	56	14	40	4
			3.03	2.28	4.39	2.20	.55	1.57	.16

* Similar to DIN 1596.

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Light Saddle with Tension Clearance (DIN 1597) Two-Bolt Design



STAUFF Group	Diameter Range		Dimensions (mm /in)					
	Ø D1	(mm)	(in)	L1	L2	H	D2	B
7	5,5 ... 7	.2228	44	28	5	5,5	16	1,5
			1.73	1.10	.20	.22	.63	.06
9	7 ... 9	.2835	48	32	6	5,5	16	1,5
			1.89	1.26	.24	.22	.63	.06
13	9,5 ... 13	.3951	52	36	9	5,5	16	1,5
			2.05	1.42	.35	.22	.63	.06
15,5	13 ... 15,5	.5161	56	40	12	5,5	16	1,5
			2.20	1.57	.47	.22	.63	.06
19	15,5 ... 19	.6175	60	44	15	5,5	16	1,5
			2.36	1.73	.59	.22	.63	.06
23	20 ... 23	.7991	76	56	19	6,6	20	2
			2.99	2.20	.75	.26	.79	.08
26	23 ... 26	.91 ... 1.02	78	58	22	6,6	20	2
			3.07	2.28	.87	.26	.79	.08
28,5	26 ... 28,5	1.02 ... 1.12	84	64	24	6,6	20	2
			3.31	2.52	.94	.26	.79	.08
31	28,5 ... 31	1.12 ... 1.22	84	64	27	6,6	20	2
			3.31	2.52	1.06	.26	.79	.08
33 *	31 ... 33	1.22 ... 1.30	92	72	29	6,6	20	2
			3.62	2.83	1.14	.26	.79	.08
36	33 ... 36	1.30 ... 1.42	104	80	32	9	25	3
			4.09	3.15	1.26	.35	.98	.12
39	36 ... 39	1.42 ... 1.54	108	84	34	9	25	3
			4.25	3.31	1.34	.35	.98	.12
43	39 ... 43	1.54 ... 1.69	112	88	38	9	25	3
			4.41	3.46	1.50	.35	.98	.12
46	43 ... 46	1.69 ... 1.81	114	90	41	9	25	3
			4.49	3.54	1.61	.35	.98	.12
49	46 ... 49	1.81 ... 1.93	118	90	44	11	30	3
			4.65	3.54	1.73	.43	1.18	.12
52 *	49 ... 52	1.93 ... 2.05	134	106	47	11	30	3
			5.28	4.17	1.85	.43	1.18	.12
58	53 ... 58	2.09 ... 2.28	138	110	52	11	30	3
			5.43	4.33	2.05	.43	1.18	.12
61	58 ... 61	2.28 ... 2.40	138	110	56	11	30	3
			5.43	4.33	2.20	.43	1.18	.12

* Similar to DIN 1597.

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Ordering Codes

Light Saddle

*DIN1597-*7-*W66

* Light Saddle to DIN 1597

DIN 1597

* STAUFF Group (Ø D1)

7

* Material code Carbon Steel, uncoated
Carbon Steel, zinc-plated
and thick-film passivated

W1

W66

Stainless Steel V4A

1.4401 / 1.4571 (AISI 316 / 316 Ti)

W5

Applications

- Installation of pipes, tubes, poles and other round components directly on the substrate (floor, wall or ceiling)

**Construction Series**

KS / DKS

144

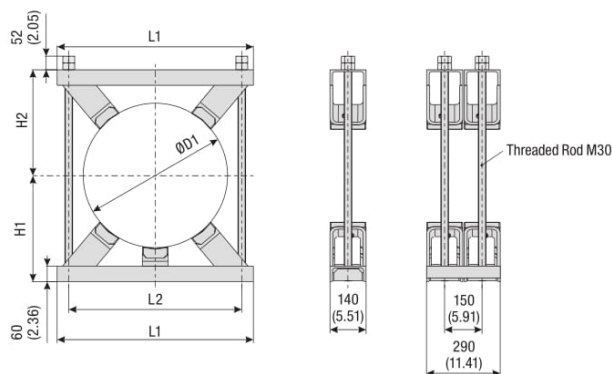
**Construction Series
(for Anchor Bolt Fastening)**

KSV / DKSV

145

M

Construction Series Types KS (Single Version) / DKS (Double Version)



Ordering Codes

Construction Series *KS-*220-*PA-*W8

★ Version Single version **KS**
 Double version **DKS**

★ Exact outside diameter ØD1 (mm) **220**

★ Material of Plastic Pads (see below) **PA**

★ Material Code Steel, prime coated (grey, RAL 7035) **W8**

Please note: All items are supplied non-assembled.

Standard Materials for Plastic Pads



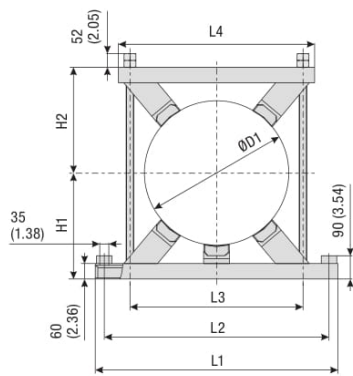
Polyamide
Colour: Black
Material Code: **PA**

See pages 154 / 155 for material properties and technical information.

Group STAUFF	Outside Diameter ØD1 Pipe / Tube Diameter Range		Standard Diameters		Dimensions (mm/in)				No. of Plastic Pads
	(mm)	(in)	(mm)	(in)	L1	L2	H1	H2	
1	220 ... 275	8.66 ... 10.85	220	8.66	420 16.54	330 12.99	220 8.66	220 8.66	4
			247	9.72					
			267	10.51					
			273	10.75					
			280	11.02					
2	276 ... 325	10.87 ... 12.80	300	11.81	460 18.11	370 14.57	240 9.45	240 9.45	4
			318	12.52					
			323,9	12.75					
3	326 ... 370	12.83 ... 14.57	355,6	14.00	510 20.08	420 16.53	260 10.23	260 10.23	4
			368	14.49					
4	371 ... 425	14.61 ... 16.73	390	15.35	570 22.44	480 18.89	290 11.42	290 11.42	4
			406,4	16.00					
5	426 ... 485	16.77 ... 19.09	457,2	18.00	620 24.41	530 20.87	305 12.01	305 12.01	4
			470	18.50					
6	486 ... 550	19.13 ... 21.65	490	19.29	680 26.77	590 23.23	370 14.57	370 14.57	4
			508	20.00					
			521	20.51					
			546	21.50					
7	551 ... 630	21.69 ... 24.80	558,8	22.00	760 29.92	670 26.38	410 16.14	410 16.14	5
			609,6	24.00					
8	631 ... 715	24.84 ... 28.15	711	28.00	845 33.27	755 29.72	452 17.80	452 17.80	5
9	716 ... 800	28.19 ... 31.50	762	30.00	940 37.00	850 33.46	495 19.49	495 19.49	5
10			813	32.00	990 38.97	900 35.43	500 19.69	500 19.69	5
11			1000	39.37	1200 47.24	1100 43.30	591,5 23.29	593 23.34	5
12			1016	40.00	1200 47.24	1100 43.30	602 23.70	602 23.70	5

Alternative outside diameters, materials and surface finishings are available upon request. Contact STAUFF for further information.

Dimensional drawings: All dimensions in mm (in).



Construction Series for Anchor Bolt Fastening Types KSV (Single) / DKS (Double)



Group	Outside Diameter ØD1 Pipe / Tube				Dimensions (^{mm} / _{in})						No. of Plastic Pads
STAUFF	Diameter Range		Standard Diameters		L1	L2	L3	L4	H1	H2	
	(mm)	(in)	(mm)	(in)							
1	220 ... 275	8.66 ... 10.85	220	8.66	580	490	330	420	220	220	4
			247	9.72							
			267	10.51							
			273	10.75							
2	276 ... 325	10.87 ... 12.80	280	11.02	620	530	370	460	240	240	4
			300	11.81							
			318	12.52							
			323,9	12.75							
3	326 ... 370	12.83 ... 14.57	355,6	14.00	670	580	420	510	260	260	4
			368	14.49							
4	371 ... 425	14.61 ... 16.73	390	15.35	750	640	480	570	290	290	4
			406,4	16.00							
5	426 ... 485	16.77 ... 19.09	457,2	18.00	800	730	530	620	305	305	4
			470	18.50							
6	486 ... 550	19.13 ... 21.65	490	19.29	860	790	590	680	370	370	4
			508	20.00							
			521	20.51							
			546	21.50							
7	551 ... 630	21.69 ... 24.80	558,8	22.00	940	870	670	760	410	410	5
			609,6	24.00							
8	631 ... 715	24.84 ... 28.15	711	28.00	1025	955	755	845	452	452	5
9	716 ... 800	28.19 ... 31.50	762	30.00	1120	1050	850	940	495	495	5
10			813	32.00	1170	1100	900	990	500	500	5
11			1000	39.37	1400	1300	1100	1200	591,5	593	5
12			1016	40.00	1400	1300	1100	1200	602	602	5

Alternative outside diameters, materials and surface finishings are available upon request. Contact STAUFF for further information.

Ordering Codes

Construction Series *KSV-*220-*PA-*W8

* Version Single version **KSV**
 Double version **DKSV**

* Exact outside diameter ØD1 (mm) **220**

* Material of Plastic Pads (see below) **PA**

* Material Code Steel, prime coated (grey, RAL 7035) **W8**

Please note: All items are supplied non-assembled.

Standard Materials for Plastic Pads

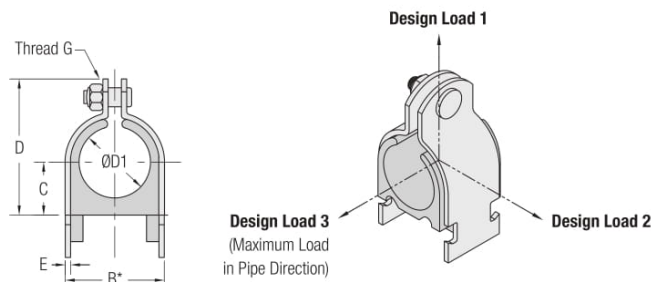
Polyamide
Colour: Black
Material Code: **PA**

See pages 154 / 155 for material properties and technical information.

	Cushion Clamp Series STC / SPC	148
	Channel Rail SCS	149
	Compact Twin Series DS	150
	Agriculture Twin Series AG	150
	Pipe / Tube Bushing RF	151

Clamp Assembly ▪ Types STC / SPC

(for Use with Channel Rail SCS)



Outside Diameter Pipe / Tube / Hose Ø D1 (mm) (in)		Nominal Bore Pipe (in)	Ordering Codes (1 Clamp Assembly) (** = Material Code)	Standard Packaging Units pcs.	Dimensions (mm/in)					Design Loads (^{kN} /lbf)		
					B*	C	D	E	Thread G	1	2	3
6,4	1/4		STC-025-**-K	24 / box	15,7 .62	5,6 .22	28,2 1.11	2 .08	1/4-20 UNC	1,78 400	0,22 50	0,22 50
8	3/8		STC-037-**-K	24 / box	19,1 .75	7,1 .28	31,5 1.24	2 .08	1/4-20 UNC	1,78 400	0,22 50	0,22 50
12,7	1/2		STC-050-**-K	24 / box	22,1 .87	8,6 .34	34,5 1.36	2 .08	1/4-20 UNC	1,78 400	0,22 50	0,22 50
13,5		1/4	SPC-025-**-K	24 / box	23,1 .91	9,1 .36	35,8 1.41	2 .08	1/4-20 UNC	1,78 400	0,22 50	0,22 50
16	5/8		STC-062-**-K	24 / box	25,4 1.00	10,4 .41	38,1 1.50	2 .08	1/4-20 UNC	1,78 400	0,22 50	0,22 50
17,2		3/8	SPC-037-**-K	24 / box	27,2 1.07	11,4 .45	40,4 1.59	2 .08	1/4-20 UNC	2,67 600	0,33 75	0,33 75
19	3/4		STC-075-**-K	24 / box	33,8 1.33	13,5 .53	45,2 1.78	2 .08	1/4-20 UNC	2,67 600	0,33 75	0,33 75
21,3		1/2	SPC-050-**-K	24 / box	36,8 1.45	15,0 .59	48,5 1.91	2 .08	1/4-20 UNC	2,67 600	0,33 75	0,33 75
22,2	7/8		STC-087-**-K	24 / box	36,8 1.45	14,7 .58	48,5 1.91	2 .08	1/4-20 UNC	2,67 600	0,33 75	0,33 75
25,4	1		STC-100-**-K	12 / box	42,2 1.66	16,8 .66	51,6 2.03	2,8 .11	1/4-20 UNC	2,67 600	0,33 75	0,33 75
26,9		3/4	SPC-075-**-K	12 / box	45,5 1.79	18,3 .72	54,9 2.16	2,8 .11	1/4-20 UNC	2,67 600	0,33 75	0,33 75
32	1-1/4		STC-125-**-K	12 / box	48,8 1.92	19,8 .78	58,4 2.30	2,8 .11	1/4-20 UNC	2,67 600	0,33 75	0,33 75
33,7		1	SPC-100-**-K	12 / box	56,4 2.22	23,1 .91	69,9 2.75	3 .12	5/16-18 UNC	2,67 600	0,33 75	0,33 75
38	1-1/2		STC-150-**-K	12 / box	56,4 2.22	23,1 .91	69,9 2.75	3 .12	5/16-18 UNC	2,67 600	0,33 75	0,33 75
42		1-1/4	SPC-125-**-K	12 / box	62,7 2.47	26,2 1.03	77,0 3.03	3 .12	5/16-18 UNC	3,56 800	0,56 125	0,56 125
48,3		1-1/2	SPC-150-**-K	12 / box	62,7 2.47	29,5 1.16	83,3 3.28	3 .12	5/16-18 UNC	3,56 800	0,56 125	0,56 125
50,8	2		STC-200-**-K	12 / box	69,1 2.72	29,5 1.16	83,3 3.28	3 .12	5/16-18 UNC	3,56 800	0,56 125	0,56 125
60,3		2	SPC-200-**-K	1 / bag	69,1 3.22	35,8 1.41	96,0 3.78	3 .12	5/16-18 UNC	3,56 800	0,56 125	0,56 125
63,5	2-1/2		STC-250-**-K	1 / bag	88,1 3.47	38,9 1.53	102,4 4.03	3 .12	5/16-18 UNC	3,56 800	0,56 125	0,56 125
66,7	2-5/8		STC-262-**-K	1 / bag	88,1 3.47	38,9 1.53	102,4 4.03	3 .12	5/16-18 UNC	3,56 800	0,56 125	0,56 125
73		2-1/2	SPC-250-**-K	1 / bag	94,5 3.72	42,2 1.66	108,5 4.27	3 .12	5/16-18 UNC	3,56 800	0,56 125	0,56 125
76,2	3		STC-300-**-K	1 / bag	100,8 3.97	45,2 1.78	114,8 4.52	3 .12	5/16-18 UNC	4,45 1 000	0,89 200	0,67 150
88,9		3	SPC-300-**-K	1 / bag	110,7 4.36	50,0 1.97	124,7 4.91	3 .12	3/8-16 UNC	4,45 1 000	0,89 200	0,67 150
102		3-1/2	SPC-350-**-K	1 / bag	126,2 4.97	57,9 2.28	140,5 5.53	3 .12	3/8-16 UNC	4,45 1 000	0,89 200	0,67 150
114	4		SPC-400-**-K	1 / bag	138,9 5.47	64,3 2.53	153,2 6.03	3 .12	3/8-16 UNC	4,45 1 000	0,89 200	0,67 150
140		5	SPC-500-**-K	1 / bag	164,3 6.47	77,0 3.03	178,6 7.03	3,6 .14	3/8-16 UNC	4,45 1 000	0,89 200	0,67 150
168		6	SPC-600-**-K	1 / bag	189,7 7.47	89,7 3.53	204,0 8.03	3,6 .14	3/8-16 UNC	4,45 1 000	0,89 200	0,67 150

* Minimum required for installation.

One clamp assembly is consisting of two carbon steel clamp halves (one with threaded stud), one thermoplastic cushion insert and one lock nut with Nylon insert. Channel rail not included. All threaded parts are only available with unified coarse (UNC) thread. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



Clamp Assembly ▪ Types STC / SPC (for Use with Channel Rail SCS)



Standard Materials



Cushion Insert
Thermoplastic Elastomer (80 Shore-A)
Colour: Black

The cushion material is compatible with most oils, chemicals and cleaning solvents and suitable for applications within a temperature range of -50 °C ... +125 °C (-58 °F ... +257 °F).

Alternative materials are available upon request.
Please contact STAUFF for further information.

Product Features

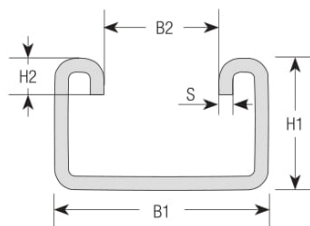
- Clamp assemblies designed to mount directly to 41,3 mm / 1-5/8 in wide strut channels, such as the STAUFF Channel Rail, type SCS
- Suitable for most Fluid Power applications ranging from mobile equipment to industrial machinery
- Reduced horizontal mounting space
- Easy installation and retro fit capability
- Reduces shock and vibration while preventing galvanic corrosion

Ordering Codes

Clamp Assembly

***STC-*125-*W4-*K**

* Type of clamp	STC (Tube diameters) SPC (Pipe diameters)	STC SPC
* Pipe / Tube O.D. (according to dimension table)		125
* Material code	Carbon Steel, zinc-plated, blue-chromated Stainless Steel V2A 1.4301 (AISI 304) Stainless Steel V4A 1.4401 (AISI 316)	W32 W4 W5
Assembling	Components packed in kits	K



Channel Rail ▪ Type SCS



N

Dimensions (mm/in)				
B1	B2	H1	H2	S
41,3	22,2	25,4	7	2,7
1.63 (1-5/8)	.88 (7/8)	1.00	.28	.11

Alternative rail profiles, materials and surface finishings are available upon request. Contact STAUFF for further information.

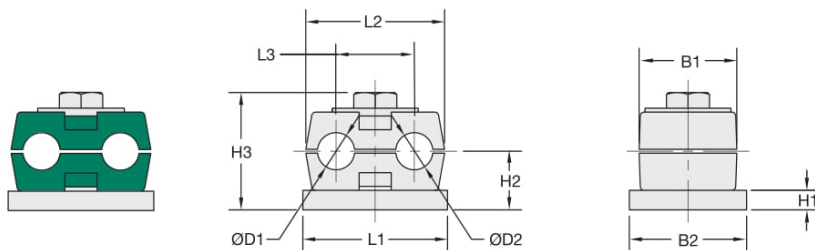
Ordering Codes

Strut Channel

***SCS-*048-*1-*PL**

* Strut Channel		SCS
* Length of Rail	1,22 m / 4.00 ft / 48 in 3,05 m / 10.00 ft / 120 in	048 120
* Height of Rail	25,4 mm / 1.00 in	1
* Material code	Carbon Steel, uncoated Carbon Steel, green painted	PL GR

Compact Twin Series: Clamp Body Type DS



Ordering Codes

Clamp Body *1-*06/06-*PP-*DS

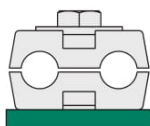
One clamp body is consisting of two clamp halves.

* STAUFF Group DS 1	1
* Exact outside diameters Ø D1 / Ø D2 (mm)	06/06
* Clamp Body Material (Polypropylene)	PP
* Compact Twin Series	DS

Group	Outside Diameter Pipe / Tube Ø D1 / Ø D2 (mm) (in)	Nominal Bore Pipe (in)	Copper Tube ASTM B88 (in)	Ordering Codes (2 Clamp Halves)	Dimensions (mm/in)							
STAUFF					L1	L2	L3	H1	H2	H3	B1	B2
DS 1	6			106/06-PP-DS								
	6,4	1/4		106.4/06.4-PP-DS	37	35,5	20	5	15	30	25	30
	8	5/16		108/08-PP-DS	1.46	1.40	.79	.20	.59	1.18	.98	1.18
	9,5	3/8	1/4	109.5/09.5-PP-DS								
	10		1/8	110/110-PP-DS								

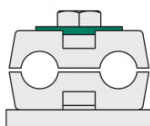
Additional outside diameters are available upon request. Please contact STAUFF for further information.

Compact Twin Series: Metal Hardware



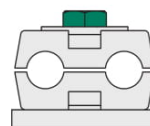
Weld Plate, Type SP-DS

SP-DS-1-U-W2
Thread size: 1/4-20 UNC
Carbon Steel, phosphated



Cover Plate, Type US-DS

US-DS-1-W3
Carbon Steel, zinc/nickel-plated

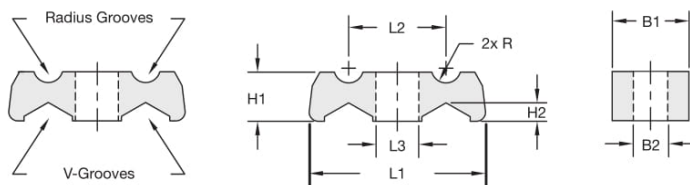


Hexagon Bolt, Type AS

AS-1/4-20UNCx1-W3
Thread size: 1/4-20 UNC
Carbon Steel, zinc/nickel-plated

All threaded parts are only available with unified coarse (UNC) thread. Rail mount and stacking assemblies as well as alternative materials and surface finishings are available upon request.

Agriculture Twin Series: Clamp Body Type AG



Group	Min/Max Outside Diameters Pipe / Tube Radius Grooves (mm) (in)				V-Grooves (mm) (in)	Ordering Codes (1 Clamp Body)	Dimensions (mm/in)						
STAUFF							L1	L2	L3	H1	H2	B1	B2
2	3 ... 10	.1239	4 ... 15	.2659		215.8/09.6-PP-AG-BK-HV	57,5	31,7	14,0	16,0	7,1	25,0	11,0
							2.26	1.25	.55	.63	.24	.98	.43
3	4 ... 25	.1698	7 ... 20	.2879		324.8/19.5-PP-AG-BK-HV	62,0	34,5	14,0	19,0	7,1	32,0	11,0
							2.48	1.36	.55	.75	.28	1.26	.43

Standard Material



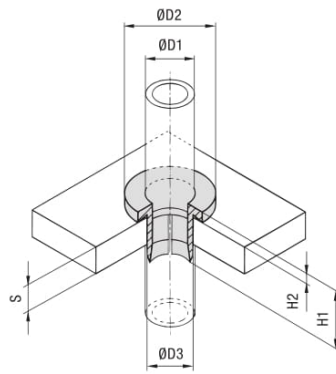
Polypropylene
Colour: Black

See pages 154 / 155 for properties and technical information.

Product Features

- Flip the clamp body to choose between the radius grooved or the v-grooved design (suitable for a range of diameters)
- Use M10 or 3/8-16 UNC bolts or screws (preferably with washers) to fasten clamp bodies directly to the machine
- Clamp bodies can be stacked for multi-level assembly

Additional outside diameters are available upon request. Please contact STAUFF for further information.



Pipe / Tube Bushing - Type SRF



Outside Diameter ØD1		Nominal Bore	Dimensions			Wall Thickness	Mounting Bore
(mm)	(in)	(in)	ØD2	H1	H2	S	ØD3
6	1/4		18	22	4	4 ... 12	10
			.71	.87	.16	.1647	.39
8	5/16		20	22	4	4 ... 12	12
			.79	.87	.16	.1647	.47
10	3/8	1/8 Pipe 1/4 Copper Tube (ASTM B88)	22	22	4	4 ... 12	14
			.87	.87	.16	.1647	.55
12	1/2	3/8 Copper Tube (ASTM B88)	24	22	4	4 ... 12	16
			.94	.87	.16	.1647	.63
14		1/4 Pipe	26	22	4	4 ... 12	18
			1.02	.87	.16	.1647	.71
15			28	22	4	4 ... 12	20
			1.10	.87	.16	.1647	.79
16	5/8	1/2 Copper Tube (ASTM B88)	28	22	4	4 ... 12	20
			1.10	.87	.16	.1647	.79
18			30	22	4	4 ... 12	22
			1.18	.87	.16	.1647	.87
20	3/4		32	22	4	4 ... 12	24
			1.26	.87	.16	.1647	.94
22	7/8	3/4 Copper Tube (ASTM B88)	34	22	4	4 ... 12	26
			1.34	.87	.16	.1647	1.02
25	1		38	22	4	4 ... 12	30
			1.50	.87	.16	.1647	1.18
28		1 Copper Tube (ASTM B88)	41	22	4	4 ... 12	33
			1.61	.87	.16	.1647	1.30
30			43	22	4	4 ... 12	34
			1.69	.87	.16	.1647	1.39
35		1-1/4 Copper Tube (ASTM B88)	48	22	4	4 ... 12	40
			1.89	.87	.16	.1647	1.57
38	1-1/2		51	22	4	4 ... 12	43
			2.01	.87	.16	.1647	1.70
42		1-1/4 Pipe 1-1/2 Copper Tube (ASTM B88)	55	22	4	4 ... 12	47
			2.17	.87	.16	.1647	1.85

Ordering Codes

Pipe / Tube Bushing

***SRF-*20-*PP**

* Pipe / Tube Bushing	SRF
* Exact outside diameter Ø D1 (mm)	20
* Material code (see below)	PP

Standard Materials



Polypropylene
Colour: Natural colour
Material code: **PP**



Thermoplastic Elastomer (87 Shore-A)
Colour: Black
Material code: **SA**

See pages 154 / 155 for material properties and technical information.

Product Features

- Designed to centre the pipe or tube in a through-hole (e.g. for return lines entering the hydraulic reservoir)
- Vibration and noise absorbing element
- Available for all commonly used Metric and imperial pipe and tube diameters from 6 ... 42 mm and 1/4 ... 1-1/2 in
- Easy plug-in installation

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Standard Clamp Body Materials



Material Code	PP	PA	AL	SA
Basic Material	Copolymeric Polypropylene	Polyamide	Aluminium AISi12	Thermoplastic Elastomer
Standard Colour	Green	Black	Natural	Black

Mechanical Properties				
Tensile E-Module	1073 N/mm ² (ISO 527)	> 1400 N/mm ² (ISO 527)	> 65000 N/mm ²	113 N/mm ² at +23 °C / +73.4 °F (ASTM D412)
Notch Impact Strength	8 kJ/m ² at +23 °C / +73.4 °F (acc. to Charpy / ISO 179 / 1eU)	> 15 kJ/m ² at 23 °C / +73.4 °F (acc. to Charpy / ISO 179 / 1eU)		
Low Temperature Notch Impact Strength	3 kJ/m ² at -20 °C / -4.0 °F (acc. to Charpy / ISO 179 / 1eU)	> 3 kJ/m ² at -30 °C / -22.0 °F (acc. to Charpy / ISO 179 / 1eU)		
Tensile Strength at Yield (Tensile Strength)	26 MPa (ISO 527-2)	> 55 MPa (ISO 527)	> 240 MPa (ISO EN 10002)	15,9 MPa (ASTM D412)
Ball Indentation Hardness (Brinell Hardness)	45,4 MPa (ISO 2039-1)	> 65 MPa (ISO 2039-1)	> 70 HBS	
Shore Hardness				87 A (ISO 868) Alternative hardnesses are available upon request! Contact STAUFF for details.

Thermal Properties				
Temperature Resistance (Min ... Max)	-30 °C ... +90 °C / -22 °F ... +194 °F	-40 °C ... +120 °C / -40 °F ... +248 °F (Brief exposure up to +140 °C / +284 °F)	up to +300 °C / up to +572 °F	-40 °C ... +125 °C / -40 °F ... +257 °F

Chemical Properties				
Weak Acids	conditionally consistent	conditionally consistent	conditionally consistent	consistent
Solvents	conditionally consistent	conditionally consistent	conditionally consistent	conditionally consistent
Benzine	conditionally consistent	consistent	consistent	conditionally consistent
Mineral Oils	conditionally consistent	consistent	consistent	conditionally consistent
Other Oils	consistent	consistent	consistent	consistent
Alcohols	consistent	consistent	consistent	consistent
Seawater	consistent	consistent	consistent	consistent



Special Clamp Body Materials

Please contact STAUFF for further details on fire-proof clamp body materials, tested and approved according to several international fire-protection standards (such as BS 6853, EN 45545-2, UL 94 and many more).

See pages 156 / 157 for material properties and technical information.

The information for the Polyamide material PA have been determined in a conditioned state according to ISO 1110.

For Aluminium, the tensile strength (under reversed bending stress) and impact bending strength both rise constantly at decreasing temperatures whilst the value for breaking elongation decreases.

STAUFF preserves the right to supply products made from alternative, but comparable materials with matching technical characteristics.

Standard Clamp Insert Materials



STAUFF Group 4 and 6 (Standard Series)
STAUFF Group 4S to 6S (Heavy Series)



STAUFF Group 7S to 10S (Heavy Series)

SA	EPDM	Material Code
Thermoplastic Elastomer	Ethylene Propylene Diene Monomer	Basic Material
Black	Black	Standard Colour

Mechanical Properties		
16 N/mm ² at +23 °C / +73.4 °F (ASTM D412)		Tensile E-Module
		Notch Impact Strength
		Low Temperature Notch Impact Strength
8,3 MPa (ASTM D412)	9,0 MPa (DIN 53504)	Tensile Strength at Yield (Tensile Strength)
		Ball Indentation Hardness (Brinell Hardness)
73 A (ISO 868)	70 A (DIN 53505)	Shore Hardness

Thermal Properties		
-40 °C ... +125 °C / -40 °F ... +257 °F	-50 °C ... +120 °C / -58 °F ... +248 °F	Temperature Resistance (Min ... Max)

Chemical Properties		
consistent	consistent	Weak Acids
conditionally consistent	consistent	Solvents
conditionally consistent	conditionally consistent	Benzine
conditionally consistent	conditionally consistent	Mineral Oils
consistent	conditionally consistent	Other Oils
consistent	consistent	Alcohols
consistent	consistent	Seawater



Special Clamp Insert Materials

Please contact STAUFF for further details on fire-proof clamp body materials, tested and approved according to several international fire-protection standards (such as BS 6853, EN 45545-2, UL 94 and many more).

See pages 156 / 157 for material properties and technical information.

STAUFF preserves the right to supply products made from alternative, but comparable materials with matching technical characteristics.

Special Clamp Body Materials (Selection)

Preventive Fire Protection



Material Code	PA-V0	PP-DA	PA-GF30-USR
Basic Material	Polyamide	Polypropylene	Polyamide
Standard Colour	Grey / Black	Weiss	Black

Mechanical Properties			
Tensile E-Module	1500 MPa (ISO 527-2)	1614 N/mm ² (ISO 527) bei +23 °C / +73.4 °F: 50 mm/min	8274 MPa (ASTM D638)
Notch Impact Strength	35 kJ/m ² at +23 °C / +73.4 °F (acc. to Charpy / ISO 179 / 1eU)	13 kJ/m ² at +23 °C / +73.4 °F (acc. to IZOD / ISO 179 / 1eA)	15 kJ/m ² (ASTM D256)
Low Temperature Notch Impact Strength		1,5 kJ/m ² at -25 °C / -13.0 °F (acc. to IZOD / ISO 179 / 1eA)	
Tensile Strength at Yield (Tensile Strength)	45 MPa (ISO 527-2)	12,4 MPa (ISO 527) at +23 °C / +73.4 °F: 50 mm/min	131 MPa (ASTM D638)
Ball Indentation Hardness (Brinell Hardness)	100 N/mm ² (ISO 2039-1)		
Shore Hardness			

Thermal Properties			
Temperature Resistance (Min ... Max)	-30 °C ... +120 °C / -22 °F ... +248 °F	-25 °C ... +90 °C / -13 °F ... +194 °F	-30 °C ... +120 °C / -22 °F ... +248 °F

Features			
Approvals / Properties	Tested and approved acc. to UL94 ¹ (material thickness: 3 mm) - Classification: V-0 (Vertical Burning Test) Tested and approved acc. to EN 45545-2 (material thickness: 3,5 mm) - Requirements set R22 / R23 / R24 / R26 - Hazard level HL1 - HL3 Tested and approved acc. to DIN 5510, Part 2 (material thickness: 3 mm) - Combustibility classification: S4 - Smoke development classification: SR2 - Dripping classification: ST2 Tested and approved acc. to NF F 16-101 (material thickness: 3 mm) - Classification: I3 / F2 Low Smoke Zero Halogen (LSZH)	Tested and approved acc. to UL94 ¹ (material thickness: 3 mm) - Classification: V-0 (Vertical Burning Test) Tested and approved acc. to Def Stan 07-247 - Assessment: category B Approved by the UK Ministry of Defence (MoD) Low Smoke Zero Halogen (LSZH)	Tested and approved acc. to ASTM D638 (material thickness: 1,5 mm) - Classification: V-0 (Vertical Burning Test) Tested and approved acc. to NFPA 130 (material thickness: 3 mm) - no burning dripping Halogen Free Flame Retardant (HFFR)

¹ Successful testing and approval according to UL94 (classification V-0) is equivalent to EN 45545-2 (requirements set R26; hazard level HL3).
The information for PA-V0 has been determined in a conditioned state according to ISO 1110.

STAUFF preserves the right to supply products made from alternative, but comparable materials with matching technical characteristics.

Special Clamp Body Materials (Selection)

Preventive Fire Protection



PP6853	PP-V0	SA-V0	Material Code
Polypropylene	Polypropylene	Thermoplastic Elastomer	Basic Material
White	Black	Natural	Standard Colour

			Mechanical Properties
1264 MPa (ICE 60811-1-1)		113 N/mm ² at +23 °C / +73.4 °F (ASTM D412)	Tensile E-Module
17 kJ/m ² at +23 °C / +73.4 °F (acc. to IZOD / ISO 179 / 1eA)	5 kJ/m ² at +23 °C / +73.4 °F (acc. to ISO 180/A)		Notch Impact Strength
			Low Temperature Notch Impact Strength
25 MPa (ICE 60811-1-1)	24 MPa (ISO 527)	15,9 MPa (ASTM D412)	Tensile Strength at Yield (Tensile Strength)
			Ball Indentation Hardness (Brinell Hardness)
		86 A (ISO 868)	Shore Hardness

			Thermal Properties
-25 °C ... +90 °C / -13 °F ... +194 °F	-25 °C ... +90 °C / -13 °F ... +194 °F	-55 °C ... +90 °C / -67 °F ... +194 °F	Temperature Resistance (Min ... Max)

			Features
Tested and approved acc. to EN 45545-2 (material thickness: 3 mm) - Requirements set R22 / R23 / R24 / R26 - Hazard level HL1 - HL3 Tested and approved acc. to BS 6853 (Code of practice for fire precautions in the design/construction of passenger carrying trains) - Assessment: category 1a Compliant to the requirements of London Underground / Metronet (standard 2-01001-002: Fire Safety Performance of Materials) Tested and approved acc. to DIN 5510, Part 2 (material thickness: 25 mm) - Combustibility classification: S4 - Smoke development classification: SR2 - Dripping classification: ST2 Tested and approved acc. to Def Stan 07-247 - Assessment: category B Compliant to the requirements of JRMA (Japan Railway Rollingstock & Machinery Association) - Classification: extremely incombustible Low Smoke Zero Halogen (LSZH)	Tested and approved acc. to UL94¹ (material thickness: 3 mm) Classification: V-0 (Vertical Burning Test)	Tested and approved acc. to UL94¹ (material thickness: 3 mm) Classification: V-0 (Vertical Burning Test)	Approvals / Properties

¹ Successful testing and approval according to UL94 (classification V-0) is equivalent to EN 45545-2 (requirements set R26; hazard level HL3).

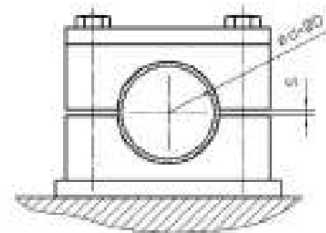
Standard Clamp Body Designs



Profiled Design

Profiled Inside Surface with Tension Clearance

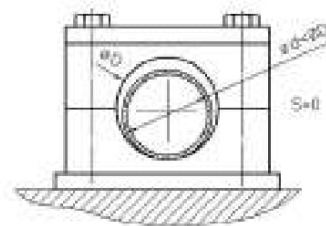
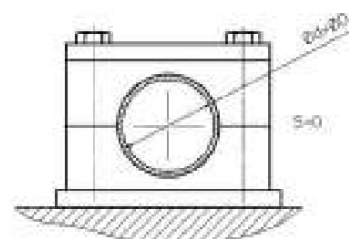
- Available in the Standard, Heavy, Twin and Heavy Twin Series
- Recommended for the safe installation of rigid pipes or tubes
- Available for all commonly used outside diameters and nominal sizes
- Vibration/noise reducing and impact absorbing effect towards the direction of the line provided by the grooves on the inside of the clamp bodies
- Clearance S between the clamp halves provides tension of the tube or pipe
- To be used as fixed point clamp preventing the line from sliding (see page 161 for Maximum Loads in Pipe Direction)



Type H (Smooth)

Smooth Inside Surface w/o Tension Clearance

- Available in the Standard, Heavy and Twin Series
 - Recommended for the safe installation of hoses or cables
 - Available for all commonly used outside diameters and nominal sizes
 - Smooth inside surface and chamfered edges avoid damaging of the hose or cable
- Choose the diameter ØD of the clamp body slightly larger (in accordance to your specific requirements) than the outside diameter Ød of the pipe, tube, hose or cable in order to use it as a longitudinal guide allowing the line to slide



Type RI (with Elastomer Insert)

- Available in the Standard, Heavy and Heavy Twin Series
- Recommended for the extra-gentle installation of pipes, tubes, hoses or cables
- Available for all commonly used outside diameters and nominal sizes
- Elastomer insert made of Thermoplastic Elastomer with a hardness of 73 Shore-A provides most effective reduction of vibration and noise caused by vibration

Rectangular Design ▪ Type VK



- Available in the Standard Series (STAUFF Group 5)
- Recommended for the safe installation of proximity switches according to DIN EN 60947-5-2 or similar, rectangular construction, with a square of 40 mm x 40 mm (1.57 in x 1.57 in) or 40 mm x 36 mm (1.57 in x 1.42 in)

Materials

Unless otherwise stated, all metal parts (e.g. weld plates, cover plates, bolts, rail nuts etc.) are made of **Carbon Steel** (surface finishing according to material code).

Besides that, all metal parts are also available **ex stock** in two different stainless steel qualities:

Stainless Steel V2A

- 1.4301 / 1.4305 (AISI 304 / 303)
- Material code: W4



Stainless Steel V4A

- 1.4401 / 1.4571 (AISI 316 / 316 Ti)
- Material code: W5

Aluminium

- Aluminium EN AW-6060
- Material code: W85

Alternative materials (e.g. Aluminium) are available upon request. Contact STAUFF for further information.

Surface Finishings

Unless otherwise stated, all metal parts made of Carbon Steel are available with the following standard surface finishings:

Carbon Steel, uncoated

- Material code: W1

Carbon Steel, phosphated

- Fe/Znph r 10 according to DIN EN 12476
- Material code: W2

Carbon Steel, zinc/nickel-plated

- More than 1200 hours resistance against red rust / base metal corrosion in the salt spray test to DIN EN ISO 9227
- Free of hexavalent chromium Cr(VI)
- RoHS compliant according to 2002/95/EC (Restrictions of the Use of Hazardous Substances)
- ELV compliant according to 2000/53/EC (End of Life Vehicles Directive)
- Material code: W3

Alternative surface finishings are available upon request. Contact STAUFF for further information.



Original STAUFF Cover Plate with Zinc/Nickel-Coating:
No signs of corrosion after 1200 hours in the salt spray chamber!



Original STAUFF Cover Plates with alternative surface finishings widely-used by competitors in the market (from left to right):

- Galvanisation and blue-chromating after 96 hours
- Galvanisation and yellow-chromating after 192 hours
- Zinc-coating, thick-film passivation and sealing after 192 hours

In all three cases, signs of white and red rust / base metal corrosion are quite clearly visible! Please do not hesitate to contact STAUFF and ask for a detailed report.

Thread Conversion Chart

Metric ISO vs. Unified Coarse (UNC) Thread

Unless otherwise stated, all threaded parts available with Metric ISO thread or unified coarse (UNC) thread.

Standard Series (DIN 3015, Part 1)

Group STAUFF	DIN	Thread Metric ISO	Unified Coarse
1 to 8	0 to 8	M6	1/4–20 UNC

Heavy Series (DIN 3015, Part 2)

Group STAUFF	DIN	Thread Metric ISO	Unified Coarse
3S to 5S	1 to 3	M10	3/8–16 UNC
6S	4	M12	7/16–14 UNC
7S	5	M16	5/8–11 UNC
8S	6	M20	3/4–10 UNC
9S	7	M24	7/8–9 UNC
10S	8	M30	1-1/8–7 UNC
11S to 12S	9 to 10	M30	1-1/4–7 UNC

Twin Series (DIN 3015, Part 3)

Group STAUFF	DIN	Thread Metric ISO	Unified Coarse
1D	1	M6	1/4–20 UNC
2D to 5D	2 to 5	M8	5/16–18 UNC

Property Classes / Grades of Bolts and Screws



Hexagon Head Bolt



Socket Cap Screw



Slotted Head Screw

Bolt / Screw Type	Material Code	Property Class / Grade	
		Metric ISO Threaded Bolts / Screws	Unified Coarse Threaded Bolts / Screws
Hexagon Head Bolt Type AS	W1, W2, W3	8.8 (according to DIN EN ISO 898)	5 (according to SAE J429)
	W4	A2-70 (according to DIN EN ISO 3506)	AISI 304 / B8 (according to ASTM A193)
	W5	A4-70 (according to DIN EN ISO 3506)	AISI 316 / B8M (according to ASTM A193)
Socket Cap Screw Type IS	W1, W2, W3	8.8 (according to DIN EN ISO 898)	5 (according to SAE J429)
	W4	A2-70 (according to DIN EN ISO 3506)	AISI 304 / B8 (according to ASTM A193)
	W5	A4-70 (according to DIN EN ISO 3506)	AISI 316 / B8M (according to ASTM A193)
Slotted Head Screw Type LI	W1, W2, W3	4.8 (according to DIN EN ISO 898)	2 (according to SAE J429)
	W4	A2-70 (according to DIN EN ISO 3506)	AISI 304 / B8 (according to ASTM A193)
	W5	A4-70 (according to DIN EN ISO 3506)	AISI 316 / B8M (according to ASTM A193)

Unless otherwise stated, the above mentioned property classes / grades apply as standards for bolts and screws supplied by STAUFF. The information indicate the minimum requirements; higher property classes are available upon request. Contact STAUFF for details.

Basic Installation Instructions



Installation on Weld Plate

Different types of weld plates are available for all STAUFF Clamps according to DIN 3015 as well as for most of the other series and many custom-designed special clamps.

- Place weld plates in their designated positions. Please make sure these positions are suitable for the expected loads.
- Mark the positions of the weld plates to ensure best alignment.
- Weld the weld plates into position. Elongated weld plates can also be mounted to their positions by using screws or bolts.
- Push bottom clamp half onto weld plate.
- Insert pipe, tube, hose, cable or any other type of line.
- Place second clamp half and cover plate (optional) on top and mount clamp assembly by using screws or bolts.

Unless otherwise stated, the bolt lengths indicated for clamps according to DIN 3015 refer to the installation on weld plates and mounting rails as well as multi-level (stacking) installation. For direct installation, different lengths may be required.



Installation on Mounting Rail

STAUFF Mounting Rails are available in different heights. STAUFF Rail Nuts are available for all STAUFF Clamps according to DIN 3015 (Heavy Series up to STAUFF Group 6S only) as well as for many custom-designed special clamps.

- Place mounting rails in their designated positions. Please make sure these bases are suitable for the expected loads.
- Mark the positions of the mounting rails to ensure best alignment.
- Weld the mounting rails into position. Mounting rails can also be mounted to their positions by using side-mounting brackets with screws or bolts.
- Insert rail nuts into mounting rail and turn until stop to lock (Standard and Twin Series) or slide in rail nut (Heavy Series).
- Push bottom clamp half onto rail nuts.
- Insert pipe, tube, hose, cable or any other type of line.
- Place second clamp half and cover plate (optional) on top and mount clamp assembly by using screws or bolts.

The exact positions of the clamp assemblies can still be adjusted before being firmly bolted.



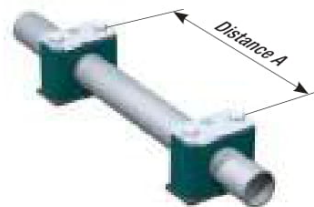
Multi-Level (Stacking) Installation

Stacking bolts permit the multi-level assembly of clamps of identical group sizes. Safety locking plates inserted between the levels prevent the stacking bolts from turning. The Twin Series also allows stacking of different group sizes (STAUFF Groups 2D to 5D).

- Push bottom clamp half onto weld plate or rail nuts.
- Insert pipe, tube, hose, cable or any other type of line.
- Place second clamp half.
- Insert stacking bolts into the clamp assembly and tighten using the following tightening torques (or in a way that the clamp halves are in contact with the line over the entire internal contact surface):
 - Standard Series** 1 ... 2 N-m / .75 ... 1.5 ft-lb (hand-tightened)
 - Heavy Series** 5 N-m / 3.75 ft-lb
 - Twin Series** 1 ... 2 N-m / .75 ... 1.5 ft-lb (hand-tightened)
- Place safety locking plate on top of clamp assembly.
- Proceed with next levels. Top level to be assembled with cover plate and hexagon head bolts using the tightening torques as indicated on page 161.

STAUFF multi-level clamp assemblies can be mounted both to weld plates or to mounting rails (with rail nuts).

Recommended Distance between Clamps



Please note: The recommended distances between clamps stated below are standard values and valid for static loads only.

Outside Diameter (mm)	(in)	Distance A (m)	(ft)
6,0 ... 12,7	.2350	1,00	3,28
12,7 ... 22,0	.5086	1,20	3,94
22,0 ... 32,0	.86 ... 1.25	1,50	4,92
32,0 ... 38,0	1.25 ... 1.50	2,00	6,56
38,0 ... 57,0	1.5 ... 2.25	2,70	8,86
57,0 ... 75,0	2.25 ... 2.95	3,00	9,84
75,0 ... 76,1	2.95 ... 3.00	3,50	11,48
76,1 ... 88,9	3.00 ... 3.50	3,70	12,14
88,9 ... 102,0	3.50 ... 4.00	4,00	13,12
102,0 ... 114,0	4.00 ... 4.50	4,50	14,76

Outside Diameter (mm)	(in)	Distance A (m)	(ft)
114,0 ... 168,0	4.50 ... 6.60	5,00	16,40
168,0 ... 219,0	6.60 ... 8.60	6,00	19,68
219,0 ... 324,0	8.60 ... 12.70	6,70	21,98
324,0 ... 356,0	12.70 ... 14.00	7,00	22,96
356,0 ... 406,0	14.00 ... 16.00	7,50	24,60
406,0 ... 419,0	16.00 ... 16.50	8,20	26,90
419,0 ... 508,0	16.50 ... 20.00	8,50	27,88
508,0 ... 521,0	20.00 ... 20.50	9,00	29,52
521,0 ... 558,0	20.50 ... 22.00	10,00	32,80
558,0 ... 800,0	22.00 ... 31.50	12,50	41,00

Installation next to Pipe Bends, Connectors / Couplings and Valves



Please note the following information on the installation of STAUFF Clamps next to pipe bends, connectors / couplings and valves:

Pipe Bends

Pipe bends should be supported by STAUFF Clamps as close to the bends as possible. Furthermore, it is recommended to design these clamps as fixed point clamps.

Connections / Couplings

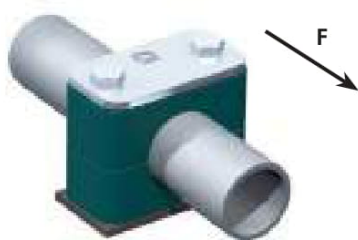
The first clamp should be placed directly next to the connector / coupling. This protects the connector / coupling from vibrations.

Valves

If valves are incorporated in the pipelines, it is recommended that support is provided in front of and behind these valves.

Contact STAUFF for further information.

Tightening Torques and Maximum Loads In Pipe Direction



All tightening torques and maximum loads in pipe direction refer to STAUFF Clamp Bodies (profiled inside surface with tension clearance) with Cover Plates, Weld Plates and Hexagon Head Bolts according to DIN EN ISO 4014/4017 (DIN 931/933).

The max. load in pipe direction (according to DIN 3015-10:1999) is an average value, determined by three tests at +23 °C / +73.4 °F with a steel pipe according to DIN EN 10220, St37 – rolled surface – taking static friction into consideration.

Sliding starts when the shown values (F) are reached.

Standard Series (DIN 3015-1:1999)

Group		Hexagon Head Bolt DIN EN ISO 4014/4017 (DIN 931/933)		Polypropylene (PP)				Polyamide (PA)				Aluminium (AL)			
STAUFF	DIN	Metric ISO Thread	Unified Coarse (UNC) Thread	Tightening Torque (N-m) (ft-lb)		Maximum Load in Pipe Direction F (kN) (lbf)		Tightening Torque (N-m) (ft-lb)		Maximum Load in Pipe Direction F (kN) (lbf)		Tightening Torque (N-m) (ft-lb)		Maximum Load in Pipe Direction F (kN) (lbf)	
1	0	M6	1/4-20 UNC	8	6	0,6	135	10	7	0,6	135	12	9	3,5	787
1A	1	M6	1/4-20 UNC	8	6	1,1	247	10	7	0,7	157	12	9	4,2	944
2	2	M6	1/4-20 UNC	8	6	1,3	292	10	7	0,8	180	12	9	4,3	967
3	3	M6	1/4-20 UNC	8	6	1,4	315	10	7	1,6	360	12	9	4,9	1101
4	4	M6	1/4-20 UNC	8	6	1,5	337	10	7	1,7	382	12	9	5,0	1124
5	5	M6	1/4-20 UNC	8	6	1,9	427	10	7	2,0	450	12	9	7,3	1641
6	6	M6	1/4-20 UNC	8	6	2,0	450	10	7	2,5	562	12	9	8,9	2000
7	7	M6	1/4-20 UNC	8	6	2,3	517	10	7	3,2	719				
8	8	M6	1/4-20 UNC	8	6	2,6	585	10	7	3,5	787				

Heavy Series (DIN 3015-2:1999)

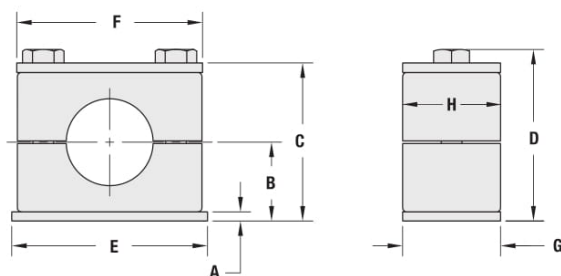
Group		Hexagon Head Bolt DIN EN ISO 4014/4017 (DIN 931/933)		Polypropylene (PP)				Polyamide (PA)				Aluminium (AL)			
STAUFF	DIN	Metric ISO Thread	Unified Coarse (UNC) Thread	Tightening Torque (N-m) (ft-lb)		Maximum Load in Pipe Direction F (kN) (lbf)		Tightening Torque (N-m) (ft-lb)		Maximum Load in Pipe Direction F (kN) (lbf)		Tightening Torque (N-m) (ft-lb)		Maximum Load in Pipe Direction F (kN) (lbf)	
3S	1	M10	3/8-16 UNC	12	9	1,6	360	20	15	4,2	944	30	22	12,1	2720
4S	2	M10	3/8-16 UNC	12	9	2,9	652	20	15	4,5	1044	30	22	15,1	3395
5S	3	M10	3/8-16 UNC	15	11	3,3	742	25	18	5,1	1146	35	26	15,5	3485
6S	4	M12	7/16-14 UNC	30	22	8,2	1843	40	30	9,3	2090	55	41	29,5	6609
7S	5	M16	5/8-11 UNC	45	33	11,0	2472	55	41	15,8	3551	120	86	34,9	7845
8S	6	M20	3/4-10 UNC	80	59	14,0	3147	150	111	21,0	4720	220	162	50,0	11240
9S	7	M24	7/8-9 UNC	110	81	28,0	6300	200	148	32,0	7193	250	184	70,6	15871
10S	8	M30	1-1/8-7 UNC	180	133	40,0	8992	350	258	48,0	10790	500	369	84,5	18996
11S	9	M30	1-1/4-7 UNC	200	148	119,0	26752	370	273	125,0	27650	500	369	181,5	40802
12S	10	M30	1-1/4-7 UNC	270	199	168,0	37767	450	332	180,0	40465	600	443	244,5	54965

Twin Series (DIN 3015-2:1999)

Group		Hexagon Head Bolt DIN EN ISO 4014/4017 (DIN 931/933)		Polypropylene (PP)				Polyamide (PA)			
STAUFF	DIN	Metric ISO Thread	Unified Coarse (UNC) Thread	Tightening Torque (N-m) (ft-lb)		Maximum Load in Pipe Direction F (kN) (lbf)		Tightening Torque (N-m) (ft-lb)		Maximum Load in Pipe Direction F (kN) (lbf)	
1D	1	M6	1/4-20 UNC	5	4	0,9	202	5	4	0,9	202
2D	2	M8	5/16-18 UNC	12	9	2,1	472	12	9	2,2	495
3D	3	M8	5/16-18 UNC	12	9	1,9	427	12	9	2,0	450
4D	4	M8	5/16-18 UNC	12	9	2,7	607	12	9	2,9	652
5D	5	M8	5/16-18 UNC	8	6	1,7	382	8	6	2,5	562

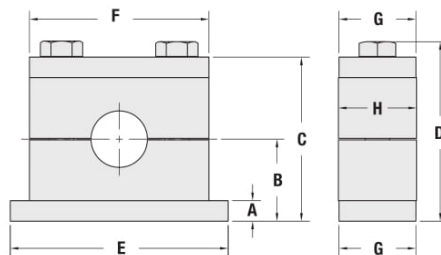
Only for the standard clamp body materials which are listed on page 154. In case of doubt, please contact STAUFF in advance.

Dimensions and Weights of Clamp Assemblies



Standard Series (DIN 3015, Part 1)

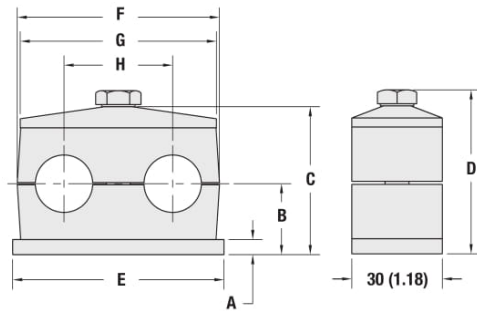
Group		Dimensions (mm /in)											Weight per 100 Pcs.
STAUFF	DIN	B			C		D		E	F	G	H	SP-**-PP-DP-AS (kg/lbs)
		A	Profiled Design	Type H (Smooth)	Profiled Design	Type H (Smooth)	Profiled Design	Type H (Smooth)					
1	0	3	16,5	16	33	32	37	36	31,5	28	30	30	6,20
		.12	.65	.63	1.30	1.26	1.46	1.42	1.24	1.10	1.18	1.18	13,64
1A	1	3	16,5	16	33	32	37	36	36	34	30	30	8,10
		.12	.65	.63	1.30	1.26	1.46	1.42	1.41	1.33	1.18	1.18	17,82
2	2	3	19,5	19	39	38	43	42	42	40,5	30	30	9,40
		.12	.77	0.75	1.54	1.50	1.69	1.65	1.65	1.59	1.18	1.18	20,68
3	3	3	21	20,75	42	41,5	46	45,5	50	48	30	30	11,20
		.12	.83	.82	1.65	1.64	1.81	1.80	1.96	1.88	1.18	1.18	24,64
4	4	3	24	23,75	48	47,5	52	51,5	60	57	30	30	13,70
		.12	.94	.94	1.89	1.87	2.05	2.03	2.36	2.24	1.18	1.18	30,14
5	5	3	32	31,25	64	62,5	68	66,5	71	70	30	30	17,10
		.12	1.26	1.23	2.52	2.46	2.68	2.62	2.79	2.75	1.18	1.18	37,62
6	6	3	36	35,25	72	70,5	76	74,5	88	86	30	30	21,30
		.12	1.42	1.39	2.83	2.78	2.99	2.94	3.46	3.38	1.18	1.18	46,86
7	7	5	51,5	51	103	102	107	106	122	118	30	30	42,10
		.20	2.03	2.01	4.06	4.02	4.21	4.17	4.81	4.65	1.18	1.18	92,62
8	8	5	64	63	128	126	132	130	148	144	30	30	44,00
		.20	2.52	2.48	5.04	4.96	5.20	5.12	5.83	5.67	1.18	1.18	96,80



Heavy Series (DIN 3015, Part 2)

Group	STAUFF DIN	Dimensions (mm/in)								F PP / PA/SA	AL	G	H	Weight per 1 Pc. SPAL-**-PP-DPAL-AS (kg/lbs)
		A	B Profiled Design	Type H (Smooth)	C Profiled Design	Type H (Smooth)	D Profiled Design	Type H (Smooth)	E					
3S	1	8	24	23,25	48	46,5	54,4	52,9	74	55	56	30	30,5	0,32
		.31	.94	.92	1.89	1.83	2.14	2.09	2.91	2.16	2.20	1.18	1.20	.70
4S	2	8	32	31,25	64	62,5	70,4	68,9	86	70	70	30	30,5	0,40
		.31	1.26	1.23	2.52	2.46	2.77	2.72	3.39	2.76	2.76	1.18	1.20	.88
5S	3	8	38	37	76	74	82,4	80,4	100	85	85	30	30,5	0,49
		.31	1.50	1.46	2.99	2.91	3.24	3.17	3.94	3.35	3.35	1.18	1.20	1.08
6S	4	10	54,5	53,5	109	107	116,5	114,5	140	115	120	45	45	1,21
		.39	2.15	2.11	4.29	4.21	4.59	4.51	5.51	4.53	4.72	1.77	1,77	2,66
7S	5	10	70		140		150		180	154	152	60	60	2,30
		.39	2.76		5.51		5.91		7.09	6.06	5.98	2.36	2,36	5.06
8S	6	15	99		198		210,5		226	206	208	80	80	5,56
		.59	3.90		7.80		8.29		8.90	8.11	8.19	3.15	3.15	12,26
9S	7	15	115		230		245		270	251	255	90	91	7,97
		.59	4.53		9.06		9.65		10.63	9.88	10.04	3.54	3.58	17.58
10S	8	25	160		320		338,7		340	336	326	120	120	22,16
		.98	6.30		12.60		13.33		13.39	13.22	12.83	4.72	4.72	48.75
11S	9	30	235		470		488,7		520	470	470	160	162	54,11
		1.18	9.25		18.50		19.24		20.47	18.50	18.50	6.30	6.38	119.04
12S	10	30	295		590		608,7		680	630	630	180	182	77,40
		1.18	11.61		23.23		23.96		26.77	24.80	24.80	7.09	7.16	170.28

Dimensions & Weights of Clamp Assemblies



Twin Series (DIN 3015, Part 3)

Group	STAUFF	DIN	Dimensions (mm/in)								Weight per 100 Pcs. SP-**-**-PP-GD-AS (kg/lbs)
			A	B Profiled Design	C Type H (Smooth)	D Profiled Design	E Type H (Smooth)	F Profiled Design	G Type H (Smooth)	H	
1D	1		3	16,5	16,25	37	36,5	41	40,5	37	7,60
			.12	.65	.64	1.46	1.44	1.61	1.59	1.46	16.72
2D	2		5	18,5	18,25	39	38,5	44	43,5	55	13,50
			.20	.73	.72	1.54	1.52	1.73	1.71	2.17	29.70
3D	3		5	23,5	23,25	49	48,5	54	53,5	70	17,70
			.20	.93	.92	1.93	1.91	2.13	2.11	2.76	38.94
4D	4		5	25	24	52	50	57	55	85	20,40
			.20	.98	.94	2.05	1.97	2.24	2.17	3.35	44.88
5D	5		5	31,5	31	65	64	70	69	110	27,70
			.20	1.24	1.22	2.56	2.52	2.76	2.72	4.33	60.94

Packaging Units (Selection)

Standard Series (DIN 3015, Part 1)

Clamp Bodies (Polypropylene / Polyamide)

Group		Quantity per Bag (in Pcs.)
STAUFF	DIN	
1 - 6	0 - 6	25
7 + 8	7 + 8	10

Heavy Series (DIN 3015, Part 2)

Clamp Bodies (Polypropylene / Polyamide)

Group		Quantity per Bag (in Pcs.)
STAUFF	DIN	
3S - 6S	1 - 4	20
7S	5	10
8S - 12S	6 - 10	1

Twin Series (DIN 3015, Part 3)

Clamp Bodies (Polypropylene / Polyamide)

Group	STAUFF	DIN	Quantity per Bag (in Pcs.)
1D - 4D	1 - 4	25	
5D	5	10	

Clamp Bodies (Aluminium)

Group		Quantity per Bag
STAUFF	DIN	(in Pcs.)
1 - 5	0 - 5	25
6	6	10

Clamp Bodies (Aluminium)

Group		Quantity per Bag
STAUFF	DIN	(in Pcs.)
3S - 6S	1 - 4	20
7S	5	10
8S - 12S	6 - 10	1

Weld Plates (Type SP)

Cover Plates (Type GD)

Group	STAUFF	DIN	Quantity per Bag (in Pcs.)
1D - 4D	1 - 4	25	
5D	5	10	

Weld Plates (Type SP)

Cover Plates (Type DP)

Group		Quantity per Bag
STAUFF	DIN	(in Pcs.)
1 - 6	0 - 6	25
7 + 8	7 + 8	10

Weld Plates (Type SPAL)

Cover Plates (Type DPAL)

Group		Quantity per Bag
STAUFF	DIN	(in Pcs.)
3S - 6S	1 - 4	20
7S	5	10
8S - 12S	6 - 10	1

Hexagon Rail Nut (Type SM)

Channel Rail Adaptor (Type CRA)

Group	STAUFF	DIN	Quantity per Bag (in Pcs.)
1D	1	50	
2D - 5D	2 - 5	25	

Hexagon Rail Nut (Type SM)

Channel Rail Adaptor (Type CRA)

Group		Quantity per Bag
STAUFF	DIN	(in Pcs.)
1 - 8	0 - 8	50

Mounting Rail Nut (Type GMV)

Channel Rail Adaptor (Type CRA)

Group		Quantity per Bag (in Pcs.)
STAUFF	DIN	
3S - 6S	1 - 4	40

Contact STAUFF and ask for standard packaging units for further components or special packaging options.

Product-Specific Abbreviations	168
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Global Contact Directory	170
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Product-Specific Abbreviations

Abbreviation	Product Category	Product Description	Page
ACT	STAUFF ACT Clamps: Anti-Corrosion Technology	Clamp Body - Standard Series	74
ACT	STAUFF ACT Clamps: Anti-Corrosion Technology	Clamp Body - Twin Series	82
AF	Standard Series according to DIN 3015, Part 1	Stacking Bolt	29
AF	Heavy Series according to DIN 3015, Part 2	Stacking Bolt	47
AF	Twin Series according to DIN 3015, Part 3	Stacking Bolt	61
AF	Heavy Twin Series	Stacking Bolt	68
AG	Other Types of Clamps	Agriculture Twin Series	150
AL	Technical Appendix	Standard Clamp Body Material	154
AS	Standard Series according to DIN 3015, Part 1	Hexagon Head Bolt	26
AS	Heavy Series according to DIN 3015, Part 2	Hexagon Head Bolt	45
AS	Twin Series according to DIN 3015, Part 3	Hexagon Head Bolt	59
AS	Heavy Twin Series	Hexagon Head Bolt	68
AS	Light Series	Hexagon Head Bolt	115
BSP	Standard Series according to DIN 3015, Part 1	Bridge Weld Plate	22
CB420-50	STAUFF Bond: Adhesive Bonded Fastening	Adhesive Cartridge	100
CB420-50E	STAUFF Bond: Adhesive Bonded Fastening	Adhesive Cartridge	100
CC	Standard Series according to DIN 3015, Part 1	Clamp Body - Compact Design	19
CHC	Standard Series according to DIN 3015, Part 1	Clamp Body for Conduit Hoses	18
CRA	Standard Series according to DIN 3015, Part 1	Channel Rail Adaptor	25
CRA	Heavy Series according to DIN 3015, Part 2	Channel Rail Adaptor	43
CRA	Twin Series according to DIN 3015, Part 3	Channel Rail Adaptor	58
CRA	Heavy Twin Series	Channel Rail Adaptor	68
DIN1592	Metal DIN Clamps	Heavy Saddle with Tension Clearance - Single-Bolt Design	138
DIN1593	Metal DIN Clamps	Heavy Saddle with Tension Clearance - Two-Bolt Design	139
DIN1596	Metal DIN Clamps	Light Saddle with Tension Clearance - Single-Bolt Design	140
DIN1597	Metal DIN Clamps	Light Saddle with Tension Clearance - Two-Bolt Design	141
DIN3567-A	Metal DIN Clamps	Metal Pipe Clamp with Tension Clearance	136
DIN3567-B	Metal DIN Clamps	Metal Pipe Clamp with Tension Clearance (Extended to One Side)	137
DIT-SR6-SWG	STAUFF SWG: Stud Welding System	Distance Tube	95
DKS	Construction Series	Construction Series Clamp	144
DKSV	Construction Series	Construction Series Clamp (for Anchor Bolt Fastening)	145
DP	Standard Series according to DIN 3015, Part 1	Cover Plate	26
DPAL	Heavy Series according to DIN 3015, Part 2	Cover Plate for Single Clamps	44
DPAS	Heavy Series according to DIN 3015, Part 2	Cover Plate for Double Clamps	44
DPAS	Heavy Twin Series	Cover Plate	67
DPL	Light Series	Cover Plate	119
DS	Other Types of Clamps	Compact Twin Series	150
DSP	Standard Series according to DIN 3015, Part 1	Twin Weld Plate	21
EP	Standard Series according to DIN 3015, Part 1	Insert	28
EPDM	Technical Appendix	Standard Clamp Insert Materials	155
ES	Standard Series according to DIN 3015, Part 1	Insert	28
FB	Flat Steel and Round Steel U-Bolt Clamps	Flat Steel U-Bolt	126
GD	Twin Series according to DIN 3015, Part 3	Cover Plate	58
GMV	Heavy Series according to DIN 3015, Part 2	Mounting Rail Nut	42
GMV	Heavy Twin Series	Mounting Rail Nut	68
IS	Standard Series according to DIN 3015, Part 1	Socket Cap Screw	28
IS	Heavy Series according to DIN 3015, Part 2	Socket Cap Screw	45
IS	Twin Series according to DIN 3015, Part 3	Socket Cap Screw	59
KS	Construction Series	Construction Series Clamp	144
KSV	Construction Series	Construction Series Clamp (for Anchor Bolt Fastening)	145
LBBU	Light Series	Clamp Body - Single Design	112
LBBU	Light Series	Clamp Body - Twin Design	113
LBBU-DP	Light Series	Cover Plate	115
LBBU-HUE	Light Series	Sleeve	114
LBBU-SP	Light Series	Weld Plate	114
LB	Light Series	Clamp Body - Single Design	116
LBG	Light Series	Clamp Body - Twin Design	117
LBU	Light Series	Clamp Body - Twin Design	117
LI	Standard Series according to DIN 3015, Part 1	Slotted Head Screw	28
LN	Light Series	Clamp Body - Single Design	118
LNGF	Light Series	Clamp Body - Twin Design	119
LNUF	Light Series	Clamp Body - Twin Design	119
NRC	Standard Series according to DIN 3015, Part 1	Noise Reduction Clamp	17

Product-Specific Abbreviations

Abbreviation	Product Category	Product Description	Page
PA	Technical Appendix	Standard Clamp Body Material	154
PA-V0	Technical Appendix	Special Clamp Body Material	156
PP	Technical Appendix	Standard Clamp Body Material	154
PP6853	Technical Appendix	Special Clamp Body Material	156
PP-DA	Technical Appendix	Special Clamp Body Material	156
PP-V0	Technical Appendix	Special Clamp Body Material	156
RAP	Standard Series according to DIN 3015, Part 1	Group Weld Plate	21
RAP	Twin Series according to DIN 3015, Part 3	Group Weld Plate	55
RAP-MGR	Standard Series according to DIN 3015, Part 1	Multi-Group Weld Plate	23
RB	Flat Steel and Round Steel U-Bolt Clamps	Round Steel U-Bolt	128
RBD	Flat Steel and Round Steel U-Bolt Clamps	Round Steel U-Bolt (DIN 3570, Type A)	132
RF	Other Types of Clamps	Pipe / Tube Bushing	151
RI	Standard Series according to DIN 3015, Part 1	Elastomer Insert	16
RI	Heavy Series according to DIN 3015, Part 2	Elastomer Insert	39
RI	Heavy Twin Series	Clamp Body with Elastomer Inserts	66
RUK	Flat Steel and Round Steel U-Bolt Clamps	Plastic Pipe Saddle (Short) for Flat Steel U-Bolts	126
RUK	Flat Steel and Round Steel U-Bolt Clamps	Plastic Pipe Saddle (Short) for Round Steel U-Bolts	128
RUL	Flat Steel and Round Steel U-Bolt Clamps	Plastic Pipe Saddle (Long) for Round Steel U-Bolts	130
SA	Technical Appendix	Standard Clamp Body Material	154
SA	Technical Appendix	Standard Clamp Insert Materials	155
SA-V0	Technical Appendix	Special Clamp Body Material	156
SBD	STAUFF Bond: Adhesive Bonded Fastening	Manual Adhesive Dispenser	101
SBDS-81	STAUFF Bond: Adhesive Bonded Fastening	Dispenser Slide	101
SBMT	STAUFF Bond: Adhesive Bonded Fastening	Mixing Tip	101
SBP	STAUFF Bond: Adhesive Bonded Fastening	STAUFF Bond Plate for DIN 3015 Clamps	99
SCS	Other Types of Clamps	Channel Rail	149
SI	Standard Series according to DIN 3015, Part 1	Safety Washer	27
SI	Heavy Series according to DIN 3015, Part 2	Safety Washer	46
SI	Twin Series according to DIN 3015, Part 3	Safety Locking Plate	60
SI	Heavy Twin Series	Socket Cap Screw	68
SIG	Standard Series according to DIN 3015, Part 1	Safety Locking Plate	29
SIP	Heavy Series according to DIN 3015, Part 2	Safety Locking Plate	47
SIP	Heavy Twin Series	Safety Locking Plate	68
SIV	Twin Series according to DIN 3015, Part 3	Safety Locking Plate	60
SM	Standard Series according to DIN 3015, Part 1	Hexagon Rail Nut	24
SM	Twin Series according to DIN 3015, Part 3	Hexagon Rail Nut	56
SMG	Standard Series according to DIN 3015, Part 1	Hexagon Rail Nut	24
SMG	Twin Series according to DIN 3015, Part 3	Hexagon Rail Nut	56
SP	Standard Series according to DIN 3015, Part 1	Weld Plate	20
SP	Twin Series according to DIN 3015, Part 3	Single Weld Plate	55
SPAD	Heavy Twin Series	Weld Plate	67
SPAL	Heavy Series according to DIN 3015, Part 2	Weld Plate for Single Clamps	40
SPAL-DUEB	Heavy Series according to DIN 3015, Part 2	Elongated Weld Plate for Single Clamps	41
SPAS-DUEB	Heavy Series according to DIN 3015, Part 2	Weld Plate for Double Clamps	40
SPAS-DUEB	Heavy Series according to DIN 3015, Part 2	Elongated Weld Plate for Double Clamps	41
SPC	Other Types of Clamps	Cushion Clamp	148
SPV	Standard Series according to DIN 3015, Part 1	Elongated Weld Plate	20
STC	Other Types of Clamps	Cushion Clamp	148
STSV	Heavy Series according to DIN 3015, Part 2	Mounting Rail	42
STSV	Heavy Twin Series	Mounting Rail	68
SWG-AGS	STAUFF SWG: Stud Welding System	Distance Adaptor	95
SWG-CTH-11-M6	STAUFF SWG: Stud Welding System	Cable Tie Holder	93
SWG-CTH-30-M6-1	STAUFF SWG: Stud Welding System	Cable Tie / Tension Belt Holder	93
SWG-CTH-30-M6-2	STAUFF SWG: Stud Welding System	Cable Tie / Tension Belt Holder	93
SWG-DIP	STAUFF SWG: Stud Welding System	Distance Plate for DIN 3015 Clamps	93
SWG-GC	STAUFF SWG: Stud Welding System	Ground Cable	95
SWG-SF	STAUFF SWG: Stud Welding System	Weld Stud with Female Thread	92
SWG-SR6	STAUFF SWG: Stud Welding System	Stud Retainer	95
SWG-WG	STAUFF SWG: Stud Welding System	Weld Gun - Arc Ignition	94
SWG-WI06	STAUFF SWG: Stud Welding System	Weld Inverter	94
SWG-WI06-Starterkit	STAUFF SWG: Stud Welding System	Starterkit	94
TS	Standard Series according to DIN 3015, Part 1	Mounting Rail	24
TS	Twin Series according to DIN 3015, Part 3	Mounting Rail	57
VK	Standard Series according to DIN 3015, Part 1	Clamp Body - Rectangular Design for Proximity Switches	19
WSP	Standard Series according to DIN 3015, Part 1	Angled Weld Plate	22
ZR	Saddle / Piggyback Clamps	Custom-Designed Saddle / Piggyback Clamps	122
ZR-518	Saddle / Piggyback Clamps	Saddle / Piggyback Clamp	122