STAUFF ANGLIA

Pipeline Products for all Industries

Product Information

STAUFF®

STAUFF PIPE CLAMPS

Stauff Anglia Limited
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INDEX

according to **DIN 3015, Part 1**

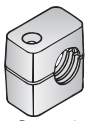
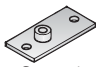
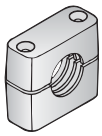
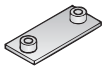
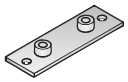
ALSO AVAILABLE

Extensive range of special clamping systems and accessories, e.g. for noise and vibration reducing installation, for electric applications and cables or for particular mounting purposes

see pages 28 to 32

Custom designed pipe clamps (machined and injection moulding versions) according to customer`s specifications or based on STAUFF developments

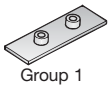
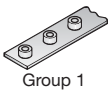
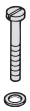
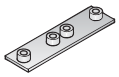
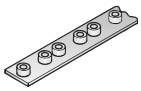
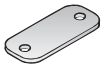
see pages 34 to 35

CLAMP BODY consisting of two clamp halves	SINGLE WELD PLATE **SP**	ELONGATED WELD PLATE **SPV**	CHANNEL RAIL ADAPTOR **CRA**
 Group 1	 Group 1	 Group 1	suitable for several types of channel rails, **see page 12**
 Group 1A -8	 Group 1A -8	 Group 1A -8	
MATERIAL & SURFACE FINISHING CODE (ALL DISPLAYED OPTIONS ARE STANDARD DELIVERY)	SEE COMPONENT PART IDENTIFICATION	**W2**	**W2**	**W3***

ORDERING INFORMATION					***,* ***	*SP* * * **	*SPV* * * **	*CRA 1-8* * **
STAUFF GROUP	DIN GROUP	OUTSIDE DIAMETER PIPE / TUBE / HOSE IN MM	OUTSIDE DIAMETER PIPE / TUBE / HOSE IN INCH	NOMINAL BORE PIPE IN INCH	STAUFF GROUP / OUTSIDE DIAMETER OF PIPE IN MM / MATERIAL & DESIGN OF CLAMP BODY	SINGLE WELD PLATE **SP** / STAUFF GROUP / TYPE OF THREAD / MATERIAL & SURFACE FINISHING	SINGLE WELD PLATE **SPV** / STAUFF GROUP / TYPE OF THREAD / MATERIAL & SURFACE FINISHING	CHANNEL RAIL ADAPTOR **CRA** / TYPE OF THREAD / MATERIAL & SURFACE FINISHING
1	0	6			*106 ******	*SP 1 * **	*SPV 1 * **	*CRA 1-8 * **
		6,4	1/4		*106,4 ******			
		8	5/16		*108 ******			
		9,5	3/8		*109,5 ******			
		10		1/8	*110 ******			
		12			*112 ******			
1A	1	6			*106A ******	*SP 1A * **	*SPV 1A * **	
		6,4	1/4		*106,4A ******			
		8	5/16		*108A ******			
		9,5	3/8		*109,5A ******			
		10		1/8	*110A ******			
		12			*112A ******			
2	2	12,7	1/2		*212,7 ******	*SP 2 * **	*SPV 2 * **	
		13,5		1/4	*213,5 ******			
		14			*214 ******			
		15			*215 ******			
		16	5/8		*216 ******			
		17,2		3/8	*217,2 ******			
		18			*218 ******			
3	3	19	3/4		*319 ******	*SP 3 * **	*SPV 3 * **	
		20			*320 ******			
		21,3		1/2	*321,3 ******			
		22	7/8		*322 ******			
		25			*325 ******			
		25,4	1		*325,4 ******			
4	4	26,9		3/4	*426,9 ******	*SP 4 * **	*SPV 4 * **	
		28			*428 ******			
		30			*430 ******			
5	5	32	1 1/4		*532 ******	*SP 5 * **	*SPV 5 * **	
		33,7		1	*533,7 ******			
		35			*535 ******			
		38	1 1/2		*538 ******			
		40			*540 ******			
		42		1 1/4	*542 ******			
6	6	44,5	1 3/4		*644,5 ******	*SP 6 * **	*SPV 6 * **	
		48,3		1 1/2	*648,3 ******			
		50,8	2		*650,8 ******			
7	7	57,2	2 1/4		*757,2 ******	*SP 7 * **	*SPV 7 * **	
		60,3		2	*760,3 ******			
		63,5	2 1/2		*763,5 ******			
		70	2 3/4		*770 ******			
		73		2 1/2 except DIN EN 10220	*773 ******			
		76,1	3	2 1/2 DIN EN 10220 only	*776,1 ******			
8	8	88,9	3 1/2	3	*888,9 ******	*SP 8 * **	*SPV 8 * **	
		102	4		*8102L ******			

* zinc plated, blue chromated - Fe/Zn 8 B

according to **DIN 3015, Part 1**

TWIN WELD PLATE **DSP**	GROUP WELD PLATE **RAP**	COVER PLATE **DP**	HEXAGON HEAD BOLT **AS**	INSERT **E**	HEXAGON HEAD BOLT **ASE**	SOCKET CAP SCREW **IS**	SLOTTED HEAD SCREW **LI**	STACKING BOLT **AF**
 Group 1	 Group 1	 Group 1	DIN 931/933 for use with COVER PLATE **DP** 		**no cover plate** for use with INSERT **E** 	ISO 4762 	ISO 1207 	
 Group 1A -6	 Group 1A -6	 Group 1A -8						
W2	**W1**	**W3**	**W3**	**STEEL / PLASTIC**	**W3**	**W3**	**W3**	**W3**
DSP ✱/✱✱ ✱ ✱✱	***RAP ✱/✱✱/✱ ✱ ✱✱***	***DP ✱ ✱✱***	***AS ✱ ✱ ✱✱***	***E ✱***	***ASE ✱ ✱ ✱✱***	***IS ✱ ✱ ✱✱***	***LI ✱ ✱ ✱✱***	***AF ✱ ✱ ✱✱***
TWIN WELD PLATE **DSP** / STAUFF GROUP / PIPE CENTER SPACING / TYPE OF THREAD / MATERIAL & SURFACE FINISHING	GROUP WELD PLATE **RAP** / STAUFF GROUP / PIPE CENTER SPACING / NUMBER OF CLAMPS / TYPE OF THREAD / MATERIAL & SURFACE FINISHING	COVER PLATE **DP** / STAUFF GROUP / MATERIAL & SURFACE FINISHING	HEXAGON HEAD BOLT **AS** / STAUFF GROUP / TYPE OF THREAD / MATERIAL & SURFACE FINISHING	INSERT **E** / MATERIAL (S/P)	HEXAGON HEAD BOLT **ASE** / STAUFF GROUP / TYPE OF THREAD / MATERIAL & SURFACE FINISHING	SOCKET HEAD SCREW **IS** / STAUFF GROUP / TYPE OF THREAD / MATERIAL & SURFACE FINISHING	SLOTTED HEAD SCREW **LI** / STAUFF GROUP / TYPE OF THREAD / MATERIAL & SURFACE FINISHING	STACKING BOLT **AF** / STAUFF GROUP / TYPE OF THREAD / MATERIAL & SURFACE FINISHING
DSP 1/40 ✱ ✱✱	*RAP 1/31/10 ✱ ✱✱*	*DP 1 ✱✱*	*AS 1 M ✱✱* (M6 x 30)		*ASE 1 M ✱✱* (M6 x 27)	*IS 1 M ✱✱* (M6 x 20)	*LI 1 M ✱✱* (M6 x 20)	*AF 1 ✱ ✱✱*
DSP 1A/37 ✱ ✱✱	*RAP 1A/37/10 ✱ ✱✱*	*DP 1A ✱✱*	*AS 1A M ✱✱* (M6 x 30)		*ASE 1A M ✱✱* (M6 x 27)	*IS 1A M ✱✱* (M6 x 20)	*LI 1A M ✱✱* (M6 x 20)	*AF 1A ✱ ✱✱*
DSP 2/44 ✱ ✱✱	*RAP 2/44/10 ✱ ✱✱*	*DP 2 ✱✱*	*AS 2 M ✱✱* (M6 x 35)	*E ✱* **S** for Steel **P** for Plastic	*ASE 2 M ✱✱* (M6 x 32)	*IS 2 M ✱✱* (M6 x 25)	*LI 2 M ✱✱* (M6 x 25)	*AF 2 ✱ ✱✱*
DSP 3/52 ✱ ✱✱	*RAP 3/52/10✱ ✱✱*	*DP 3 ✱✱*	*AS 3 M ✱✱* (M6 x 40)		*ASE 3 M ✱✱* (M6 x 35)	*IS 3 M ✱✱* (M6 x 30)	*LI 3 M ✱✱* (M6 x 30)	*AF 3 ✱ ✱✱*
DSP 4/60 ✱ ✱✱	*RAP 4/60/5 ✱ ✱✱*	*DP 4 ✱✱*	*AS 4 M ✱✱* (M6 x 45)		*ASE 4 M ✱✱* (M6 x 42)	*IS 4 M ✱✱* (M6 x 35)	*LI 4 M ✱✱* (M6 x 35)	*AF 4 ✱ ✱✱*
DSP 5/75 ✱ ✱✱	*RAP 5/75/5 ✱ ✱✱*	*DP 5 ✱✱*	*AS 5 M ✱✱* (M6 x 60)		*ASE 5 M ✱✱* (M6 x 57)	*IS 5 M ✱✱* (M6 x 50)	*LI 5 M ✱✱* (M6 x 50)	*AF 5 ✱ ✱✱*
DSP 6/90 ✱ ✱✱	*RAP 6/90/5 ✱ ✱✱*	*DP 6 ✱✱*	*AS 6 M ✱✱* (M6 x 70)		*ASE 6 M ✱✱* (M6 x 65)	*IS 6 M ✱✱* (M6 x 60)	*LI 6 M ✱✱* (M6 x 60)	*AF 6 ✱ ✱✱*
- - -	- - -	*DP 7 ✱✱*	*AS 7 M ✱✱* (M6 x 100)	- - -	- - -	*IS 7 M ✱✱* (M6 x 90)	- - -	*AF 7 ✱ ✱✱*
- - -	- - -	*DP 8 ✱✱*	*AS 8 M ✱✱* (M6 x 125)	- - -	- - -	*IS 8 M ✱✱* (M6 x 110)	- - -	*AF 8 ✱ ✱✱*

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according to **DIN 3015, Part 1**

SAFETY WASHER **SI**	SAFETY LOCKING PLATE **SIG**	MOUNTING RAIL **TS**	HEXAGON RAIL NUT **SM**
DIN 93 for use with HEXAGON HEAD BOLT **AS**	Group 1 Group 1A -6		
W3	**W3**	**W1**	**W1**
SI 6,4 **	***SIG * *****	***TS **-* *****	***SM1-8/1D * *****
SAFETY WASHER **SI** MATERIAL & SURFACE FINISHING	SAFETY LOCKING PLATE **SIG** STAUFF GROUP MATERIAL & SURFACE FINISHING	MOUNTING RAIL **TS** HEIGHT OF RAIL IN MM LENGTH OF RAIL IN M MATERIAL & SURFACE FINISHING	HEXAGON RAIL NUT **SM** TYPE OF THREAD MATERIAL & SURFACE FINISHING
SI 6,4 **	***SIG 1 ****	***TS **-* **** available heigths: **11**, **14** and **30 mm** available lengths: **1m** and **2 m**	***SM1-8/1D * *****
	SIG 1A *		
	SIG 2 *		
	SIG 3 *		
	SIG 4 *		
	SIG 5 *		
	SIG 6 *		
	SIG 7 *		
	SIG 8 *		

COMPONENT PART IDENTIFICATION
FOR STANDARD SERIES CLAMP BODIES AND COMPONENTS

CLAMP BODY

MATERIAL	DESIGN	COLOUR	CODE
Polypropylene	profiled inside, with tension clearance	green	**PP**
Polypropylene	smooth inside, without tension clearance	green	**PPH**
Polyamide	profiled inside, with tension clearance	black	**PA**
Polyamide	smooth inside, without tension clearance	black	**PAH**
Santoprene	profiled inside, with tension clearance	black	**SA**
Santoprene	smooth inside, without tension clearance	black	**SAH**
Aluminium	profiled inside, with tension clearance	aluminium	**AL**

Aluminium is available up to STAUFF Group 6 only. Alternative materials, designs and colours in addition to the above stated standard are available upon request.

METAL PARTS

MATERIAL	SURFACE FINISHING	CODE
carbon steel St37	untreated	**W1**
carbon steel St37	phosphated	**W2**
carbon steel St 37	zinc/nickel coated	**W3**
stainless steel A2 - 1.4301 / 1.4305 (AISI 304/303)		**W4**
stainless steel A4 - 1.4401 / 1.4571 (AISI 316/316Ti)		**W5**

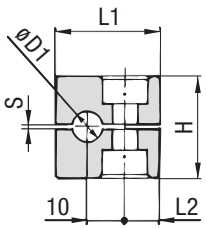
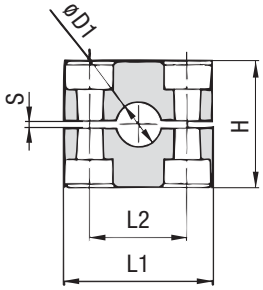
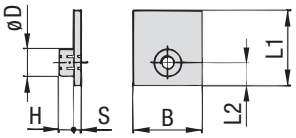
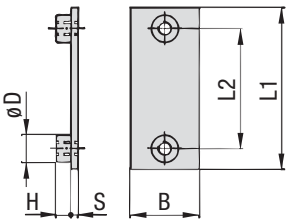
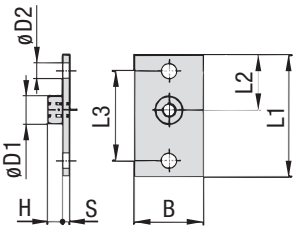
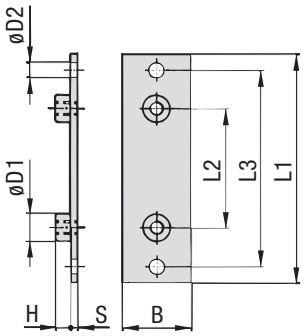
Alternative materials and surface finishings in addition to the above stated standard are available upon request.

THREADED PARTS

TYPE OF THREAD	CODE
Metric Thread	**M**
UNC Thread	**U**

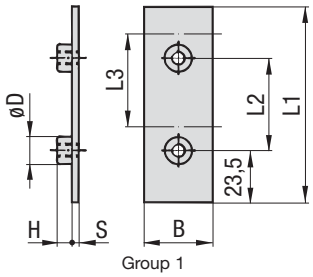
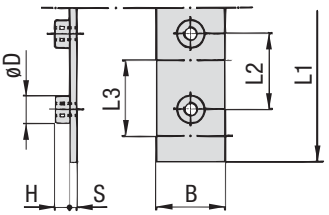
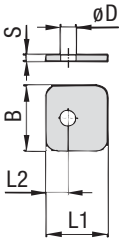
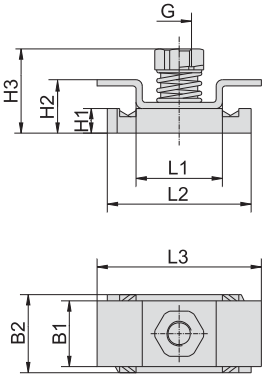
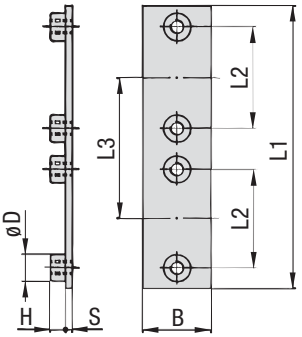
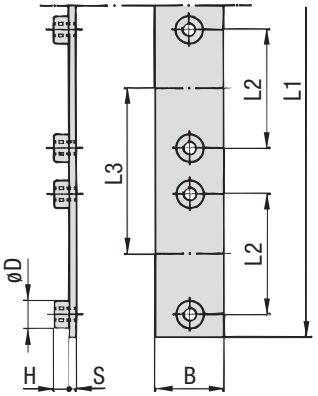
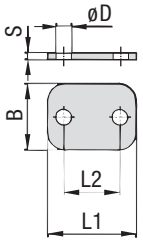
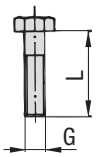
All threaded parts are available with Metric or UNC Thread on request.

according to **DIN 3015, Part 1**

MATERIAL & SURFACE FINISHING OF METAL PARTS	CLAMP BODY consisting of two clamp halves	SINGLE WELD PLATE **SP**	ELONGATED WELD PLATE **SPV**
carbon steel St37, untreated **W1** carbon steel St37, phosphated **W2** carbon steel St37, zinc/nickel coated **W3** stainless steel A2 - 1.4301/1.4305 (AISI304/303) **W4** stainless steel A4 - 1.4401/1.4571 (AISI316/316Ti) **W5** Alternative materials and surface finishings in addition to the above stated standard are available upon request.	 Group 1  Group 1A -8	 Group 1  Group 1A -8	 Group 1  Group 1A -8

MATERIAL & SURFACE FINISHING CODE			SEE COMPONENT PART IDENTIFICATION						**W2**						**W2**							
STAUFF GROUP	**DIN GROUP**	**OUTSIDE DIAMETER PIPE IN MM**			Inside Surface																	
					profiled		smooth															
		ØD1	L1	L2	H	S	H	Width	L1	L2	B	S	H	ØD	L1	L2	L3	B	S	H	ØD1	ØD2
1	**0**	6 6,4 8 9,5 10 12	28	9,5	27	0,4 min.	26	30	31,5	10	30	3	6,5	12	58	24,5	44	30	3	6,5	12	6,5
1A	**1**	6 6,4 8 9,5 10 12	37	20	27	0,4 min.	26	30	36	20	30	3	6,5	12	64	20	50	30	3	6,5	12	6,5
2	**2**	12,7 13,5 14 15 16 17,2 18	42	26	33	0,6 min.	32	30	42	26	30	3	6,5	12	70	26	56	30	3	6,5	12	6,5
3	**3**	19 20 21,3 22 25 25,4	50	33	36	0,6 min.	35,5	30	50	33	30	3	6,5	12	78	33	64	30	3	6,5	12	6,5
4	**4**	26,9 28 30	59	40	42	0,6 min.	41,5	30	60	40	30	3	6,5	12	87	40	73	30	3	6,5	12	6,5
5	**5**	32 33,7 35 38 40 42	71	52	58	0,8 min.	56,5	30	71	52	30	3	6,5	12	100	52	86	30	3	6,5	12	6,5
6	**6**	44,5 48,3 50,8	86	66	66	0,8 min.	64,5	30	88	66	30	3	6,5	12	115	66	100	30	3	6,5	12	6,5
7	**7**	57,2 60,3 63,5 70 73 76,1	121	94	93	0,8 min.	92	30	122	94	30	5	6,5	12	150	94	136	30	5	6,5	12	6,5
8	**8**	88,9 102	147	120	118	0,8 min.	116	30	148	120	30	5	6,5	12	178	120	162	30	5	6,5	12	6,5

according to **DIN 3015, Part 1**

CHANNEL RAIL ADAPTOR **CRA**	TWIN WELD PLATE **DSP**	GROUP WELD PLATE **RAP**	COVER PLATE **DP**	HEXAGON HEAD BOLT **AS**
suitable for several types of channel rails, **see page 12**	 Group 1	 Group 1	 Group 1	DIN 931/933
	 Group 1A -6	 Group 1A -6	 Group 1A -8	for use with COVERPLATE **DP** 

W3*									**W2**							**W1**							**W3**					**W3**
G	L1	L2	L3	B1	B2	H1	H2	H3	L1	L2	L3	B	S	H	ØD	L1	L2	L3	B	S	H	ØD	L1	L2	B	S	ØD	G x L
M6	21	35	40	16	19	6	13	20,5	87	40	40	30	3	6,5	12	314	31	31	30	4	6,5	12	28	9,5	30	3	7	M6 x 30
									77	20	37	30	3	6,5	12	373	20	37	30	4	6,5	12	34	20	30	3	7	M6 x 30
									86	26	44	30	3	6,5	12	442	26	44	30	4	6,5	12	40,5	26	30	3	7	M6 x 35
									102	33	52	30	3	6,5	12	521	33	52	30	4	6,5	12	48	33	30	3	7	M6 x 40
									120	40	60	30	3	6,5	12	300	40	60	30	4	6,5	12	57	40	30	3	7	M6 x 45
									145	52	75	30	3	6,5	12	378	52	75	30	4	6,5	12	70	52	30	3	7	M6 x 60
									178	66	90	30	3	6,5	12	450	66	90	30	4	6,5	12	86	66	30	3	7	M6 x 70
									- - -							- - -							118	94	30	5	7	M6 x 100
									- - -							- - -							144	120	30	5	7	M6 x 125

*zinc plated, blue chromated - Fe/Zn 8 B

according to **DIN 3015, Part 1**

INSERT **E**	HEXAGON HEAD BOLT **ASE**	SOCKET CAP SCREW **IS**	SLOTTED HEAD SCREW **LI**	STACKING BOLT **AF**	SAFETY WASHER **SI**	SAFETY LOCKING PLATE **SIG**	MOUNTING RAIL **TS**	HEXAGON RAIL NUT **SM**
		ISO 4762	ISO 1207					
	no cover plate for use with INSERT **E**					Group 1	TS 11	
							TS 14	
						Group 1A -8	TS 30	
STEEL / PLASTIC	**W3**	**W3**	**W3**	**W3**	**W3**	**W3**	**W1**	**W1**

D1	D2	H	G x L	G x L	D	S	G x L	D	S	G	L1	L2	L3	SW	ØD	L	B1	B2	S	B1	B2	S	L	B	H1	H2	ØD
11,8	6,5	7,8 (S) 8,6 (P)	M6 x 27	M6 x 20	11	0,8	M6 x 20	11	0,8	M6	34	20	12 min.	11	6,4	16	32	11,2	1	28	11	2	25,5	10,2	13,5	5,5	12
			M6 x 27	M6 x 20	11	0,8	M6 x 20	11	0,8	M6	34	20	12 min.	11		33	28	11,2	1								
			M6 x 32	M6 x 25	11	0,8	M6 x 25	11	0,8	M6	40	25	12 min.	11		39	28	11,2	1								
			M6 x 35	M6 x 30	11	0,8	M6 x 30	11	0,8	M6	44	30	12 min.	11		47	28	11,2	1								
			M6 x 42	M6 x 35	11	0,8	M6 x 35	11	0,8	M6	49	35	12 min.	11		56	28	11,2	1								
			M6 x 57	M6 x 50	11	0,8	M6 x 50	11	0,8	M6	64	50	12 min.	11		69	28	11,2	1								
			M6 x 65	M6 x 60	11	0,8	M6 x 60	11	0,8	M6	74	60	12 min.	11		85	28	11,2	1								
- - -			- - -	M6 x 90	11	0,8	- - -			M6	99	85	12 min.	11		117	28	11,2	1								
- - -			- - -	M6 x 110	11	0,8	- - -			M6	124	110	12 min.	11		143	28	11,2	1								

according to **DIN 3015, Part 1**

① ***	② ***,*	③ ***	④ *** - **	⑤ *	⑥ W**	⑦ *

① TYPE OF INSTALLATION

no code	without mounting plate, rail adaptor or rail nuts
SP	Single Weld Plate
SPV	Elongated Weld Plate
CRA	Channel Rail Adaptor
DSP *3	Twin Weld Plate
RAP *3	Group Weld Plate
SM	Hexagon Rail Nut

③ MATERIAL & DESIGN OF CLAMP BODY *1

PP	Polypropylene, profiled inside, with tension clearance
PPH	Polypropylene, smooth inside, without tension clearance
PA	Polyamide, profiled inside, with tension clearance
PAH	Polyamide, smooth inside, without tension clearance
SA	Santoprene, profiled inside, with tension clearance
SAH	Santoprene, smooth inside, without tension clearance
AL *2	Aluminium, profiled inside, with tension clearance

④ MOUNTING & FITTING COMBINATION

DP - AS	Cover Plate / Hexagon Head Bolt
DP - IS	Cover Plate / Socket Cap Screw
IS	Socket Cap Screw with washer
LI *3	Slotted Head Screw with washer
SIG - AF	Safety Locking Plate / Stacking Bolt
EP-AS	Insert EP / Hexagon Head Bolt (without Cover Plate)
ES-AS	Insert ES / Hexagon Head Bolt (without Cover Plate)

⑦ ASSEMBLING & PACKAGING

no code	components supplied separately (standard)
A	assembled (optional)
K	packed in kits (optional)

② STAUFF GROUP & SIZE OF CLAMP BODY

Group	Tube O.D. in mm	Tube O.D. in inch	Nominal Bore Pipe	Material Code Clamp Body (both halves)
STAUFF 1 DIN 0	6			***106***
	6,4	1/4		***106,4***
	8	5/16		***108***
	9,5	3/8		***109,5***
	10		1/8	***110***
	12			***112***
STAUFF 1A DIN 1	6			***106A***
	6,4	1/4		***106,4A***
	8	5/16		***108A***
	9,5	3/8		***109,5A***
	10		1/8	***110A***
	12			***112A***
STAUFF 2 DIN 2	12,7	1/2		***212,7***
	13,5		1/4	***213,5***
	14			***214***
	15			***215***
	16	5/8		***216***
	17,2		3/8	***217,2***
	18			***218***
STAUFF 3 DIN 3	19	3/4		***319***
	20			***320***
	21,3		1/2	***321,3***
	22	7/8		***322***
	25			***325***
	25,4	1		***325,4***
4 4	26,9		3/4	***426,9***
	28			***428***
	30			***430***

② STAUFF GROUP & SIZE OF CLAMP BODY CONTINUATION

Group	Tube O.D. in mm	Tube O.D. in inch	Nominal Bore Pipe	Material Code Clamp Body (both halves)	
STAUFF 5 DIN 5	32	1 1/4		***532***	
	33,7		1	***533,7***	
	35			***535***	
	38	1 1/2		***538***	
	40			***540***	
	42		1 1/4	***542***	
6 6	44,5	1 3/4		***644,5***	
	48,3		1 1/2	***648,3***	
	50,8	2		***650,8***	
STAUFF 7 DIN 7	57,2	2 1/4		***757,2***	
	60,3		2	***760,3***	
	63,5	2 1/2		***763,5***	
	70	2 3/4		***770***	
	73		2 1/2	***773***	*4
	76,1	3	2 1/2	***776,1***	*5
8 8	88,9		3	***888,9***	
	102	4		***8102L***	

⑤ TYPE OF THREAD

M	Metric Thread
U	UNC Thread

⑥ MATERIAL & SURFACE FINISHING OF METAL PARTS *6

W1	all parts are untreated
W2	all parts are phosphated
W3	all parts are zinc/nickel coated
W4	all metal parts made of stainless steel A2 - 1.4301/1.4305 (AISI 304/303)
W5	all metal parts made of stainless steel A4 - 1.4401/1.4571 (AISI 316/316Ti)
W10	weld plate phosphated, all other parts zinc/nickel coated
W11	rail nut untreated, all other parts zinc/nickel coated

TECHNICAL NOTES

*1 SEE MATERIAL PROPERTIES ON PAGE 52. OTHER CLAMP BODY MATERIALS AND COLOURS ARE AVAILABLE UPON REQUEST.

*2 AVAILABLE FOR STAUFF GROUP 1A TO 6 ONLY. (DIN GROUP 1 TO 6).

*3 AVAILABLE FOR STAUFF GROUP 1 TO 6 ONLY. (DIN GROUP 0 TO 6).

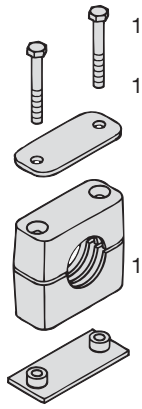
*4 NOMINAL BORE, EXCEPT DIN EN 10220.

*5 NOMINAL BORE, ONLY DIN EN 10220.

*6 INDIVIDUAL COMBINATIONS OF ALTERNATIVE SURFACE FINISHINGS AND SPECIAL PROPERTY MATERIALS ARE AVAILABLE UPON REQUEST.

according to **DIN 3015, Part 1**

SP 212,7 PP-DP-AS M W10



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

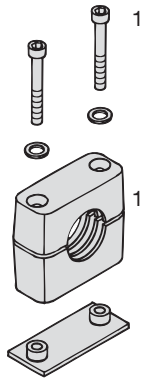
1x **Cover Plate**
Surface: W3

1x **Clamp (two halves)**
Material: Polypropylene
Design: profiled inside, with tension clearance
Group: STAUFF 2 DIN 2
Pipe-O.D.12,7 mm

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

W10 is standard for this type of installation.

SP 212,7 PP-IS M W10



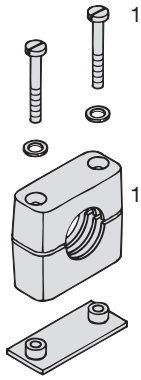
2x **Socket Cap Screw with washer**
Surface: W3
Thread: metric

1x **Clamp (two halves)**
Material: Polypropylene
Design: profiled inside, with tension clearance
Group: STAUFF 2 DIN 2
Pipe-O.D.12,7 mm

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

W10 is standard for this type of installation.

SP 212,7 PP-LI M W10



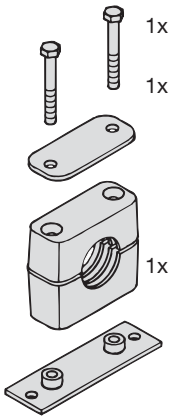
2x **Slotted Head Screw with washer**
Surface: W3
Thread: metric

1x **Clamp (two halves)**
Material: Polypropylene
Design: profiled inside, with tension clearance
Group: STAUFF 2 DIN 2
Pipe-O.D.12,7 mm

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

W10 is standard for this type of installation.

SPV 212,7 PP-DP-AS M W10



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

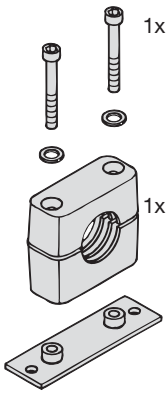
1x **Cover Plate**
Surface: W3

1x **Clamp (two halves)**
Material: Polypropylene
Design: profiled inside, with tension clearance
Group: STAUFF 2 DIN 2
Pipe-O.D.12,7 mm

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

W10 is standard for this type of installation.

SPV 212,7 PP-IS M W10



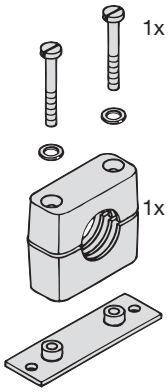
2x **Socket Cap Screw with washer**
Surface: W3
Thread: metric

1x **Clamp (two halves)**
Material: Polypropylene
Design: profiled inside, with tension clearance
Group: STAUFF 2 DIN 2
Pipe-O.D.12,7 mm

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

W10 is standard for this type of installation.

SPV 212,7 PP-LI M W10



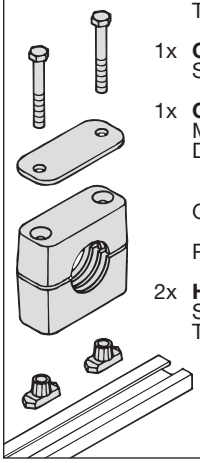
2x **Slotted Head Screw with washer**
Surface: W3
Thread: metric

1x **Clamp (two halves)**
Material: Polypropylene
Design: profiled inside, with tension clearance
Group: STAUFF 2 DIN 2
Pipe-O.D.12,7 mm

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

W10 is standard for this type of installation.

SM 212,7 PP-DP-AS M W11



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

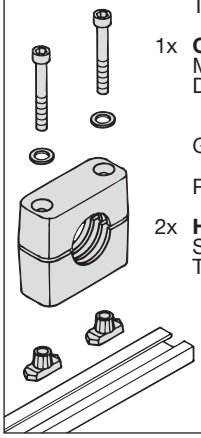
1x **Cover Plate**
Surface: W3

1x **Clamp (two halves)**
Material: Polypropylene
Design: profiled inside, with tension clearance
Group: STAUFF 2 DIN 2
Pipe-O.D.12,7 mm

2x **Hexagon Rail Nut**
Surface: W1
Thread: metric

W11 is standard for this type of installation.

SM 212,7 PP-IS M W11



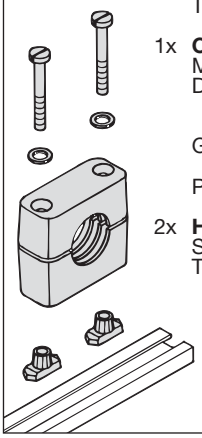
2x **Socket Cap Screw with washer**
Surface: W3
Thread: metric

1x **Clamp (two halves)**
Material: Polypropylene
Design: profiled inside, with tension clearance
Group: STAUFF 2 DIN 2
Pipe-O.D.12,7 mm

2x **Hexagon Rail Nut**
Surface: W1
Thread: metric

W11 is standard for this type of installation.

SM 212,7 PP-LI M W11



2x **Slotted Head Screw with washer**
Surface: W3
Thread: metric

1x **Clamp (two halves)**
Material: Polypropylene
Design: profiled inside, with tension clearance
Group: STAUFF 2 DIN 2
Pipe-O.D.12,7 mm

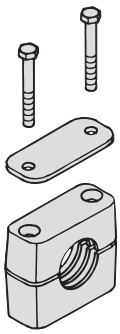
2x **Hexagon Rail Nut**
Surface: W1
Thread: metric

W11 is standard for this type of installation.

▶ PLEASE TURN THE PAGE HERE ▶

according to **DIN 3015, Part 1**

212,7 PP-DP-AS M W3



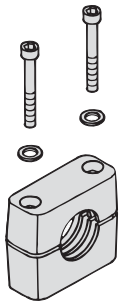
2x **Hexagon Head Bolt**
Surface: W3
Thread: metric

1x **Cover Plate**
Surface: W3

1x **Clamp (two halves)**
Material: Polypropylene
Design: profiled inside, with tension clearance
Group: STAUFF 2 DIN 2
Pipe-O.D.12,7 mm

W3 is standard for this type of installation.

212,7 PP-IS M W3

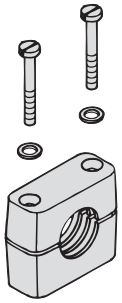


2x **Socket Cap Screw with washer**
Surface: W3
Thread: metric

1x **Clamp (two halves)**
Material: Polypropylene
Design: profiled inside, with tension clearance
Group: STAUFF 2 DIN 2
Pipe-O.D.12,7 mm

W3 is standard for this type of installation.

212,7 PP-LI M W3

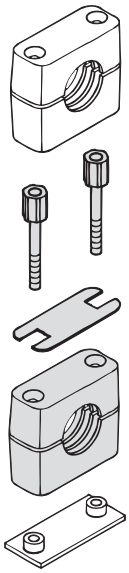


2x **Slotted Head Screw with washer**
Surface: W3
Thread: metric

1x **Clamp (two halves)**
Material: Polypropylene
Design: profiled inside, with tension clearance
Group: STAUFF 2 DIN 2
Pipe-O.D.12,7 mm

W3 is standard for this type of installation.

212,7 PP-SIG-AF M W3



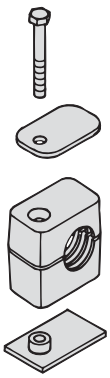
2x **Stacking Bolt**
Surface: W3
Thread: metric

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

1x **Clamp (two halves)**
Material: Polypropylene
Design: profiled inside, with tension clearance
Group: STAUFF 2 DIN 2
Pipe-O.D.12,7 mm

W3 is standard for this type of installation.

SP 106 PP-DP-AS M W10



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

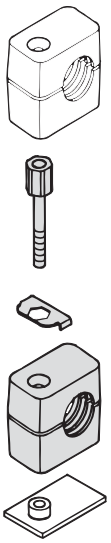
1x **Cover Plate**
Surface: W3

1x **Clamp (two halves)**
Material: Polypropylene
Design: profiled inside, with tension clearance
Group: STAUFF 1 DIN 0
Pipe-O.D.6 mm

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

W10 is standard for this type of installation.

106 PP-SIG-AF M W3



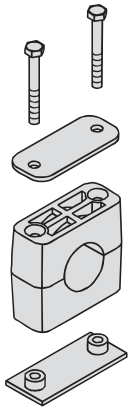
1x **Stacking Bolt**
Surface: W3
Thread: metric

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

1x **Clamp (two halves)**
Material: Polypropylene
Design: profiled inside, with tension clearance
Group: STAUFF 1 DIN 0
Pipe-O.D.6 mm

W3 is standard for this type of installation.

SP 212,7 PPH-DP-AS M W10



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

1x **Cover Plate**
Surface: W3

1x **Clamp (two halves)**
Material: Polypropylene
Design: smooth inside, without tension clearance
Group: STAUFF 2 DIN 2
Pipe-O.D.12,7 mm

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

W10 is standard for this type of installation.

NOTES REGARDING THE USE OF THE CHANNEL RAIL ADAPTOR CRA

The CHANNEL RAIL ADAPTOR Type **CRA** is amongst others suitable for the following channel rails:

UNISTRUT-Rails
P1000, P1000T, P1000V, P1000VT, P1001
P2000, P2000T
P3003, P3003T, P3300V, P3300VT, P3301
P4000, P4000T
P5000, P5000T, P5001, P5500, P5500T, P5501

HALFEN-Rails
HM 41/41
HZA 41/22
HZM 41/41
HZM 41/22
HL 41/41, HL 41/B2

HILTI-Rails
MQ-21, MQ-41, MQ-52, MQ-72
MQ-21U, MQ-41U, MQ-72U
MQ-21D, MQ-41D, MQ-52-72D

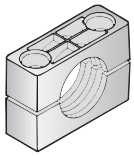
according to **DIN 3015, Part 2**

ALSO AVAILABLE

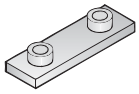
Extensive range of special clamping systems and accessories, e.g. for noise and vibration reducing installation, for electric applications and cables or for particular mounting purposes ***see pages 28 to 32***

Custom designed pipe clamps (machined and injection moulding versions) according to customer`s specifications or based on STAUFF developments ***see pages 34 to 35***

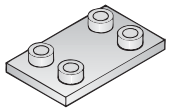
CLAMP BODY consisting of two clamp halves



WELD PLATE FOR SINGLE CLAMPS **SPAL**



WELD PLATE FOR DOUBLE CLAMPS **SPAS**



MATERIAL & SURFACE FINISHING CODE
(ALL DISPLAYED OPTIONS ARE STANDARD DELIVERY)

SEE COMPONENT PART IDENTIFICATION

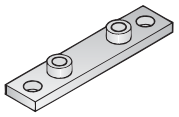
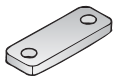
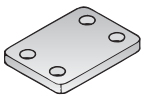
3S- 7S: **W2**
8S-12S: **W1**

3S- 7S: **W2**
8S-12S: **W1**

ORDERING INFORMATION

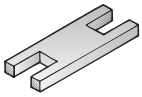
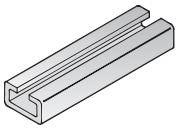
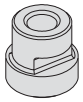
STAUFF GROUP	DIN GROUP	O.D. OF PIPE / TUBE / HOSE IN MM	O.D. OF PIPE / TUBE / HOSE IN INCH	NOMINAL BORE PIPE IN INCH	* **,* *** (STAUFF GROUP (SEE BELOW), OUTSIDE DIAMETERS IN MM, MATERIAL & DESIGN OF CLAMP BODY)	SPAL ** * ** (WELD PLATE FOR SINGLE CLAMPS **SPAL**, STAUFF GROUP, TYPE OF THREAD MATERIAL & SURFACE FINISHING)	SPAS ** * ** (WELD PLATE FOR DOUBLE CLAMPS **SPAS**, STAUFF GROUP, TYPE OF THREAD MATERIAL & SURFACE FINISHING)
3S	**1**	6			3006 ***	SPAL 3S * **	SPAS 3S * **
		6,4	1/4		3006,4 ***		
		8	5/16		3008 ***		
		9,5	3/8		3009,5 ***		
		10		1/8	3010 ***		
		12			3012 ***		
		12,7	1/2		3012,7 ***		
		13,5		1/4	3013,5 ***		
		14			3014 ***		
		15			3015 ***		
		16	5/8		3016 ***		
		17,2		3/8	3017,2 ***		
		18			3018 ***		
4S	**2**	19	3/4		4019 ***	SPAL 4S * **	SPAS 4S * **
		20			4020 ***		
		21,3		1/2	4021,3 ***		
		22	7/8		4022 ***		
		25			4025 ***		
		25,4	1		4025,4 ***		
		26,9		3/4	4026,9 ***		
		28			4028 ***		
		30			4030 ***		
5S	**3**	30			5030 ***	SPAL 5S * **	SPAS 5S * **
		32	1 1/4		5032 ***		
		33,7		1	5033,7 ***		
		35			5035 ***		
		38	1 1/2		5038 ***		
		40			5040 ***		
		42		1 1/4	5042 ***		
6S	**4**	38	1 1/2		6038 ***	SPAL 6S * **	SPAS 6S * **
		42		1 1/4	6042 ***		
		44,5	1 3/4		6044,5 ***		
		48,3		1 1/2	6048,3 ***		
		50,8	2		6050,8 ***		
		55			6055 ***		
		57	2 1/4		6057 ***		
		60,3		2	6060,3 ***		
		63,5	2 1/2		6063,5 ***		
		65			6065 ***		
		70	2 3/4		6070 ***		
7S	**5**	65			7065 ***	SPAL 7S * **	SPAS 7S * **
		70			7070 ***		
		73	2 7/8	2 1/2 except DIN EN 10220	7073 ***		
		75			7075 ***		
		76,1	3	2 1/2 DIN EN 10220 only	7076,1 ***		
		80			7080 ***		
		82,5	3 1/4		7082,5 ***		
		88,9	3 1/2	3	7088,9 ***		
8S	**6**	88,9	3 1/2	3	8088,9 ***	SPAL 8S * **	SPAS 8S * **
		100			8100 ***		
		102		3 1/2	8102 ***		
		108	4 1/4		8108 ***		
		114		4	8114 ***		
		127	5		8127 ***		
		133	5 1/4		8133 ***		
9S	**7**	133	5 1/4		9133 ***	SPAL 9S * **	SPAS 9S * **
		140		5	9140 ***		
		152	6		9152 ***		
		159	6 1/4		9159 ***		
		165	6 1/2		9165 ***		
		168		6	9168 ***		
10S	**8**	168		6	10168 ***	SPAL 10S * **	SPAS 10S * **
		177,8	7		10177,8 ***		
		193,7	7 5/8		10193,7 ***		
		216	8 1/2		10216 ***		
		219		8	10219 ***		
11S	**9**	219		8	11219 ***	SPAL 11S * **	SPAS 11S * **
		273		10	11273 ***		
		324		12	11324 ***		
12S	**10**	356		14	12356 ***	SPAL 12S * **	SPAS 12S * **
		406		16	12406 ***		

according to **DIN 3015, Part 2**

CHANNEL RAIL ADAPTOR **CRA**	ELONGATED WELD PLATE FOR SINGLE CLAMPS **SPAL/DUEB**	COVER PLATE FOR SINGLE CLAMPS **DPAL**	COVER PLATE FOR DOUBLE CLAMPS **DPAS**	HEXAGON HEAD BOLT **AS**	SOCKET CAP SCREW **IS**	STACKING BOLT **AF**
suitable for several types of channel rails, **see page 21**  Group 3S - 6S				DIN 931/933 	ISO 4762  Group 3S - 6S	 Group 3S - 10S
W3*	3S- 7S: **W2** 8S-12S: **W1**	3S- 7S: **W2** 8S-12S: **W1**	3S- 7S: **W2** 8S-12S: **W1**	**W1**	**W1**	**W2**
***CRA* ✱✱ ✱ ✱✱**	***SPAL/DUEB* ✱✱ ✱ ✱✱**	***DPAL* ✱✱ ✱✱**	***DPAS* ✱✱ ✱✱**	***AS* ✱✱ ✱ ✱✱**	***IS* ✱✱ ✱ ✱✱**	***AF* ✱✱ ✱ ✱✱**
CHANNEL-RAIL-ADAPTOR **CRA** / STAUFF GROUP / TYPE OF THREAD / MATERIAL & SURFACE FINISHING	ELONGATED WELD PLATE FOR SINGLE CLAMPS **SPAL/DUEB** / STAUFF GROUP / TYPE OF THREAD / MATERIAL & SURFACE FINISHING	COVER PLATE FOR SINGLE CLAMPS **DPAL** / STAUFF GROUP / MATERIAL & SURFACE FINISHING	COVER PLATE FOR DOUBLE CLAMPS **DPAS** / STAUFF GROUP / MATERIAL & SURFACE FINISHING	HEXAGON HEAD BOLT **AS** / STAUFF GROUP / TYPE OF THREAD / MATERIAL & SURFACE FINISHING	SOCKET CAP SCREW **IS** / STAUFF GROUP / TYPE OF THREAD / MATERIAL & SURFACE FINISHING	STACKING BOLT **AF** / STAUFF GROUP / TYPE OF THREAD / MATERIAL & SURFACE FINISHING
CRA 3S M ✱✱ for use with bolt M10 x 40	***SPAL/DUEB 3S ✱ ✱✱***	***DPAL 3S ✱✱***	***DPAS 3S ✱✱***	***AS 3S M ✱✱*** (M10 x 45)	***IS 3S M ✱✱*** (M10 x 30)	***AF 3S ✱ ✱✱***
CRA 4S M ✱✱ for use with bolt M10 x 55	***SPAL/DUEB 4S ✱ ✱✱***	***DPAL 4S ✱✱***	***DPAS 4S ✱✱***	***AS 4S M ✱✱*** (M10 x 60)	***IS 4S M ✱✱*** (M10 x 40)	***AF 4S ✱ ✱✱***
CRA 5S M ✱✱ for use with bolt M10 x 65	***SPAL/DUEB 5S ✱ ✱✱***	***DPAL 5S ✱✱***	***DPAS 5S ✱✱***	***AS 5S M ✱✱*** (M10 x 70)	***IS 5S M ✱✱*** (M10 x 50)	***AF 5S ✱ ✱✱***
CRA 6S M ✱✱ for use with bolt M12 x 100	***SPAL/DUEB 6S ✱ ✱✱***	***DPAL 6S ✱✱***	***DPAS 6S ✱✱***	***AS 6S M ✱✱*** (M12 x 100)	***IS 6S M ✱✱*** (M12 x 80)	***AF 6S ✱ ✱✱***
- - -	***SPAL/DUEB 7S ✱ ✱✱***	***DPAL 7S ✱✱***	***DPAS 7S ✱✱***	***AS 7S M ✱✱*** (M16 x 130)	- - -	***AF 7S ✱ ✱✱***
- - -	***SPAL/DUEB 8S ✱ ✱✱***	***DPAL 8S ✱✱***	***DPAS 8S ✱✱***	***AS 8S M ✱✱*** (M20 x 190)	- - -	***AF 8S ✱ ✱✱***
- - -	***SPAL/DUEB 9S ✱ ✱✱***	***DPAL 9S ✱✱***	***DPAS 9S ✱✱***	***AS 9S M ✱✱*** (M24 x 220)	- - -	***AF 9S ✱ ✱✱***
- - -	***SPAL/DUEB 10S ✱ ✱✱***	***DPAL 10S ✱✱***	***DPAS 10S ✱✱***	***AS 10S M ✱✱*** (M30 x 300)	- - -	***AF 10S ✱ ✱✱***
- - -	***SPAL/DUEB 11S ✱ ✱✱***	***DPAL 11S ✱✱***	***DPAS 11S ✱✱***	***AS 11S M ✱✱*** (M30 x 450)	- - -	- - -
- - -	***SPAL/DUEB 12S ✱ ✱✱***	***DPAL 12S ✱✱***	***DPAS 12S ✱✱***	***AS 12S M ✱✱*** (M30 x 560)	- - -	- - -

*zinc plated, blue chromated - Fe/Zn 8 B

according to **DIN 3015, Part 2**

SAFETY WASHER **SI**	SAFETY LOCKING PLATE **SIP**	MOUNTING RAIL **STSV**	MOUNTING RAIL NUT **GMV**
DIN 93 for use with HEXAGON HEAD BOLT **AS**	 Group 3S - 10S	 up to Group 6S	 up to Group 6S
W3	3S- 7S: **W2** 8S-10S: **W1**	**W1**	**W3**
***SI* ✱✱ ✱✱**	***SIP* ✱✱ ✱✱**	***STSV* ✱ ✱✱**	***GMV* ✱ ✱ ✱✱**
SAFETY WASHER **SI** / INNER DIAMETER / MATERIAL & SURFACE FINISHING	SAFETY LOCKING PLATE **SIP** / STAUFF GROUP / MATERIAL & SURFACE FINISHING	MOUNTING RAIL **STSV** / LENGTH OF RAIL IN M / MATERIAL & SURFACE FINISHING	MOUNTING RAIL NUT **GMV** / STAUFF GROUP (3-5S OR 6S) / TYPE OF THREAD / MATERIAL & SURFACE FINISHING
SI 10,5 ✱✱	*SIP 3S ✱✱*	*STSV ✱ ✱✱* available lengths: **1m** and **2m**	*GMV 3-5S ✱ ✱✱*
SI 10,5 ✱✱	*SIP 4S ✱✱*		
SI 10,5 ✱✱	*SIP 5S ✱✱*		
SI 13 ✱✱	*SIP 6S ✱✱*		*GMV 6S ✱ ✱✱*
SI 17 ✱✱	*SIP 7S ✱✱*	- - -	- - -
SI 21 ✱✱	*SIP 8S ✱✱*	- - -	- - -
SI 25 ✱✱	*SIP 9S ✱✱*	- - -	- - -
SI 31 ✱✱	*SIP 10S ✱✱*	- - -	- - -
SI 31 ✱✱	- - -	- - -	- - -
SI 31 ✱✱	- - -	- - -	- - -

COMPONENT PART IDENTIFICATION
FOR HEAVY SERIES CLAMP BODIES AND COMPONENTS

CLAMP BODY

MATERIAL	DESIGN	COLOUR	CODE
Polypropylene	profiled inside, with tension clearance	green	**PP**
Polypropylene	smooth inside, without tension clearance	green	**PPH**
Polyamide	profiled inside, with tension clearance	black	**PA**
Polyamide	smooth inside, without tension clearance	black	**PAH**
Santoprene	profiled inside, with tension clearance	black	**SA**
Santoprene	smooth inside, without tension clearance	black	**SAH**
Aluminium	profiled inside, with tension clearance	aluminium	**AL**

PPH, PAH, SA and SAH are available up to STAUFF Group 6S only. Alternative materials, designs and colours in addition to the above stated standard are available upon request.

METAL PARTS

MATERIAL	SURFACE FINISHING	CODE
carbon steel St37	untreated	**W1**
carbon steel St37	phosphated	**W2**
carbon steel St37	zinc/nickel coated	**W3**
stainless steel A2 - 1.4301 / 1.4305 (AISI 304/303)		**W4**
stainless steel A4 - 1.4401 / 1.4571 (AISI 316/316Ti)		**W5**

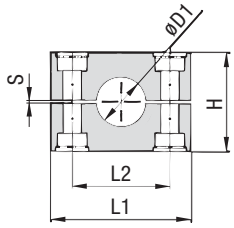
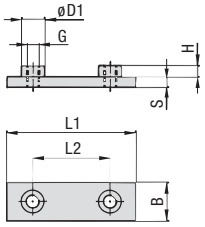
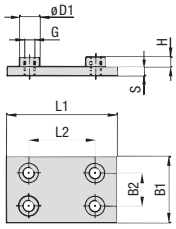
Alternative materials and surface finishings in addition to the above stated standard are available upon request

THREADED PARTS

TYPE OF THREAD	CODE
Metric Thread	**M**
UNC Thread	**U**

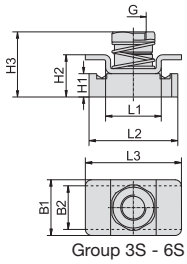
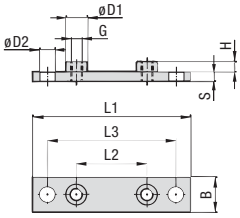
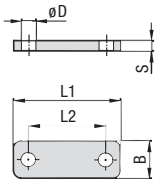
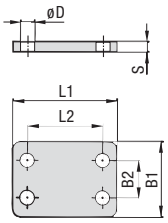
All threaded parts are available with Metric or UNC Thread on request.

according to **DIN 3015, Part 2**

MATERIAL & SURFACE FINISHING OF METAL PARTS		CLAMP BODY consisting of two clamp halves	WELD PLATE FOR SINGLE CLAMPS **SPAL**	WELD PLATE FOR DOUBLE CLAMPS **SPAS**
carbon steel St37, untreated	**W1**			
carbon steel St37, phosphated	**W2**			
carbon steel St37, zinc/nickel coated	**W3**			
stainless steel A2 - 1.4301/1.4305 (AISI304/303)	**W4**			
stainless steel A4 - 1.4401/1.4571 (AISI316/316Ti)	**W5**			
MATERIAL & SURFACE FINISHING CODE		SEE COMPONENT PART IDENTIFICATION	3S- 7S: **W2** 8S-12S: **W1**	3S- 7S: **W2** 8S-12S: **W1**

STAUFF GROUP	DIN GROUP	O.D. OF PIPE / TUBE / HOSE Ø D1 IN MM	L1		L2	Inside Surface			Width	L1	L2	B	S	H	G	øD1	L1	L2	B1	B2	S	H	G	øD1
						profiled		smooth																
			PP/PA	AL		H	S	H																
3S	1	6 6,4 8 9,5 10 12 12,7 13,5 14 15 16 17,2 18	55	56	33	32	0,6 min.	30,5	30,5	74	33	30	8	8	M10	18	74	33	60	30,5	8	8	M10	18
4S	2	19 20 21,3 22 25 25,4 26,9 28 30	70	70	45	48	0,6 min.	46,5	30,5	86	45	30	8	8	M10	18	86	45	60	30,5	8	8	M10	18
5S	3	30 32 33,7 35 38 40 42	85	85	60	60	0,6 min.	58	30,5	100	60	30	8	8	M10	18	100	60	60	30,5	8	8	M10	18
6S	4	38 42 44,5 48,3 50,8 55 57 60,3 63,5 65 70	115	120	90	89	2 min.	87	45	140	90	45	10	8	M12	20	140	90	90	46	10	8	M12	20
7S	5	65 70 73 75 76,1 80 82,5 88,9	154	152	122	120	2 min.		60	180	122	60	10	12	M16	24	180	122	120	61	10	12	M16	24
8S	6	88,9 100 102 108 114 127 133	206	208	168	168	2 min.		80	226	168	80	15	18	M20	30	226	168	160	81	15	18	M20	30
9S	7	133 140 152 159 165 168	251	255	205	200	3 min.		91	270	205	90	15	21	M24	35	270	205	180	91	15	21	M24	35
10S	8	168 177,8 193,7 216 219	336	326	265	270	3 min.		120	340	265	120	25	21	M30	45	340	265	240	121	25	21	M30	45
11S	9	219 273 324	470	470	395	410	8 min.		162	520	395	160	30	38	M30	50	520	395	324	166	30	38	M30	50
12S	10	356 406	630	630	534	530	20 min.		182	680	534	180	30	38	M30	50	680	534	364	186	30	38	M30	50

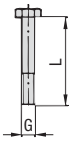
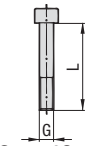
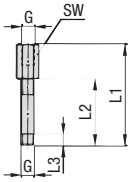
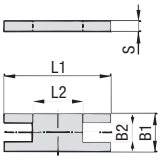
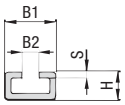
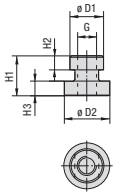
according to **DIN 3015, Part 2**

CHANNEL RAIL ADAPTOR **CRA**									ELONGATED WELD PLATE FOR SINGLE CLAMPS **SPAL/DUEB**									COVER PLATE FOR SINGLE CLAMPS **DPAL**					COVER PLATE FOR DOUBLE CLAMPS **DPAS**					
 Group 3S - 6S																												
W3*									3S- 7S: **W2** 8S-12S: **W1**									3S- 7S: **W2** 8S-12S: **W1**					3S- 7S: **W2** 8S-12S: **W1**					
G	L1	L2	L3	B1	B2	H1	H2	H3	L1	L2	L3	B	S	H	G	øD1	øD2	L1	L2	B	S	øD	L1	L2	B1	B2	S	øD
									113	33	85	30	8	8	M10	18	13	55	33	30	8	11	55	33	60	30,5	8	11
									125	45	97	30	8	8	M10	18	13	70	45	30	8	11	70	45	60	30,5	8	11
M10	22	35	38	22	20,5	9,2	16,7	27,5	140	60	112	30	8	8	M10	18	13	85	60	30	8	11	83	60	60	30,5	8	11
M12	21,5	35	45	25	19	9,2	15,2	27,5	187	90	155	45	10	8	M12	20	16	115	90	45	10	14	116	90	90	46	10	14
- - -									238	122	198	60	10	12	M16	24	21	152	122	60	10	19	153	122	120	61	10	19
- - -									309	168	259	80	15	18	M20	30	26	206	168	80	15	22	206	168	160	81	15	22
- - -									370	205	310	90	15	21	M24	35	31	251	205	90	15	26	251	205	180	91	15	26
- - -									440	265	380	120	25	21	M30	45	31	320	265	120	25	35	320	265	240	121	25	35
- - -									590	395	530	160	30	38	M30	50	31	470	395	160	30	35	470	395	321	166	30	35
- - -									750	534	690	180	30	38	M30	50	31	630	534	180	30	35	630	534	361	186	30	35

▶ PLEASE TURN THE PAGE HERE ▶

* zinc plated, blue chromated - Fe/Zn 8 B

according to **DIN 3015, Part 2**

HEXAGON HEAD BOLT **AS**	SOCKET CAP SCREW **IS**	STACKING BOLT **AF**					SAFETY WASHER **SI**	SAFETY LOCKING PLATE **SIP**					MOUNTING RAIL **STSV**				MOUNTING RAIL NUT **GMV**					
DIN 931/933 	ISO 4762  Group 3S - 6S	 Group 3S - 10S					DIN 93 for use with HEXAGON HEAD BOLT **AS** 	 Group 3S - 10S					 up to Group 6S				 up to Group 6S					
W1	**W1**	**W2**					**W3**	3S- 7S: **W2** 8S-10S: **W1**					**W1**				**W3**					
G x L	G x L	G	L1	L2	L3	SW	øD	L1	L2	B1	B2	S	B1	B2	H	S	øD1	øD2	H1	H2	H3	G
M10 x 45	M10 x 30	M10	49	25	15 min.	15	10,5	57	13	30	15,2	8	40	13	22	5	17,8	24	21	7,6	7,4	M 10
M10 x 60	M10 x 40	M10	65	40	15 min.	15	10,5	70	26	30	15,2	8										
M10 x 70	M10 x 50	M10	77	51	15 min.	15	10,5	85	40	30	15,2	8										
M12 x 100	M12 x 80	M12	110	82	18 min.	17	13,0	116	68	45	17,2	10					19,8	24	23	8,8	8,2	M 12
M16 x 130	- - -	M16	144	110	24 min.	21	17,0	153	96	60	22	10	- - -				- - -					
M20 x 190	- - -	M20	200	150	30 min.	27	21,0	206	130	80	28	15	- - -				- - -					
M24 x 220	- - -	M24	240	180	50 min.	30	25,0	251	166	90	31	15	- - -				- - -					
M30 x 300	- - -	M30	331	256	62 min.	46	31,0	317	205	120	49	25	- - -				- - -					
M30 x 450	- - -	- - -					31,0	- - -					- - -				- - -					
M30 x 560	- - -	- - -					31,0	- - -					- - -				- - -					

according to **DIN 3015, Part 2**

① ***	② *****,*	③ ***	④ **** - **	⑤ *	⑥ W**	⑦ *

① TYPE OF INSTALLATION

no code	without mounting plate, rail adaptor or rail nuts
SPAL	Weld Plate for Single Clamps
SPAS	Weld Plate for Double Clamps
SPAL/DUEB	Elongated Weld Plate for Single Clamps
CRA *2 *3	Channel Rail Adaptor
GMV *2	Mounting Rail Nut

③ MATERIAL & DESIGN OF CLAMP BODY *1

PP	Polypropylene, profiled inside, with tension clearance
PPH *2	Polypropylene, smooth inside, without tension clearance
PA	Polyamide, profiled inside, with tension clearance
PAH *2	Polyamide, smooth inside, without tension clearance
SA *2	Santoprene, profiled inside, with tension clearance
SAH *2	Santoprene, smooth inside, without tension clearance
AL	Aluminium, profiled inside, with tension clearance

④ MOUNTING & FITTING COMBINATION

DPAL - AS	Single Cover Plate / Hexagon Head Bolt
DPAS - AS	Double Cover Plate / Hexagon Head Bolt
DPAL - IS	Single Cover Plate / Socket Cap Screw
IS *2	Socket Cap Screw
SIP - AF *4	Safety Locking Plate / Stacking Bolt

⑦ ASSEMBLING & PACKAGING

no code	components supplied separately (standard)
A	assembled (optional)
K	packed in kits (optional)

② STAUFF GROUP & SIZE OF CLAMP BODY

Group	Tube O.D. in mm	Tube O.D. in inch	Nominal Bore Pipe	Material Code Clamp Body (both halves)
STAUFF 3S DIN 1	6			***3006***
	6,4	1/4		***3006,4***
	8	5/16		***3008***
	9,5	3/8		***3009,5***
	10		1/8	***3010***
	12			***3012***
	12,7	1/2		***3012,7***
	13,5		1/4	***3013,5***
	14			***3014***
	15			***3015***
	16	5/8		***3016***
	17,2		3/8	***3017,2***
	18			***3018***
STAUFF 4S DIN 2	19	3/4		***4019***
	20			***4020***
	21,3		1/2	***4021,3***
	22	7/8		***4022***
	25			***4025***
	25,4	1		***4025,4***
	26,9		3/4	***4026,9***
	28			***4028***
	30			***4030***
STAUFF 5S DIN 3	30			***5030***
	32	1 1/4		***5032***
	33,7		1	***5033,7***
	35			***5035***
	38	1 1/2		***5038***
	40			***5040***
	42		1 1/4	***5042***
STAUFF 6S DIN 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***
	55			***6055***
	57	2 1/4		***6057***

② STAUFF GROUP & SIZE OF CLAMP BODY CONTINUATION

Group	Tube O.D. in mm	Tube O.D. in inch	Nominal Bore Pipe	Material Code Clamp Body (both halves)	
6S 4	60,3		2	***6060,3***	
	63,5	2 1/2		***6063,5***	
	65			***6065***	
	70			***6070***	
STAUFF 7S DIN 5	65			***7065***	
	70			***7070***	
	73	2 7/8	2 1/2	***7073***	*5
	75			***7075***	
	76,1	3	2 1/2	***7076,1***	*6
	80			***7080***	
	82,5	3 1/4		***7082,5***	
	88,9		3	***7088,9***	
STAUFF 8S DIN 6	88,9		3	***8088,9***	
	100			***8100***	
	102		3 1/2	***8102***	
	108	4 1/4		***8108***	
	114		4	***8114***	
	127	5		***8127***	
	133	5 1/4		***8133***	
STAUFF 9S DIN 7	133	5 1/4		***9133***	
	140		5	***9140***	
	152	6		***9152***	
	159	6 1/4		***9159***	
	165	6 1/2		***9165***	
	168		6	***9168***	
10S 8	168		6	***10168***	
	177,8	7		***10177,8***	
	193,7	7 5/8		***10193,7***	
	216	8 1/2		***10216***	
	219		8	***10219***	
11S 9	219		8	***11219***	
	273		10	***11273***	
	324		12	***11324***	
12S 10	356		14	***12356***	
	406		16	***12406***	

⑤ TYPE OF THREAD

M	Metric Thread
U	UNC Thread

⑥ MATERIAL & SURFACE FINISHING OF METAL PARTS *7

W1	all parts are untreated
W2	all parts are phosphated
W3	all parts are zinc/nickel coated
W4	all metal parts made of stainless steel A2 - 1.4301/1.4305 (AISI 304/303)
W5	all metal parts made of stainless steel A4 - 1.4401/1.4571 (AISI 316/316Ti)
W10	weld plate phosphated, all other parts zinc/nickel coated
W12	weld plate and cover plate phosphated, bolts untreated
W13	rail nut zinc/nickel coated, cover plate phosphated, bolts untreated
W15	weld plate and cover plate phosphated, bolts zinc/nickel coated
W16	rail nut zinc/nickel coated, cover plate phosphated, bolts zinc/nickel coated
W17	safety locking plate phosphated, stacking bolts zinc/nickel coated
W18	safety locking plate untreated, stacking bolts phosphated
W19	cover plate phosphated, bolts untreated

TECHNICAL NOTES

*1 SEE MATERIAL PROPERTIES ON PAGE 52. OTHER CLAMP BODY MATERIALS AND COLOURS ARE AVAILABLE UPON REQUEST.

*2 AVAILABLE FOR STAUFF GROUP 3S TO 6S ONLY (DIN GROUPS 1 TO 4).

*3 SPECIAL BOLT LENGTHS REQUIRED. SUPPLIED WHEN ORDERED AS KITS.

*4 AVAILABLE FOR STAUFF GROUP 3S TO 10S ONLY (DIN GROUPS 1 TO 8).

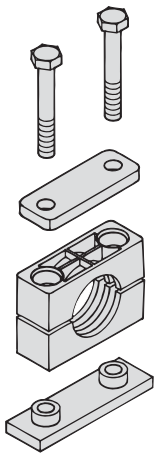
*5 NOMINAL BORE, EXCEPT DIN EN 10220.

*6 NOMINAL BORE, ONLY DIN EN 10220.

*7 INDIVIDUAL COMBINATIONS OF ALTERNATIVE SURFACE FINISHINGS AND SPECIAL PROPERTY MATERIALS ARE AVAILABLE UPON REQUEST.

according to **DIN 3015, Part 2**

SPAL 3006 PP-DPAL-AS M W12



2x **Hexagon Head Bolt**
Surface: W1, untreated
Thread: metric

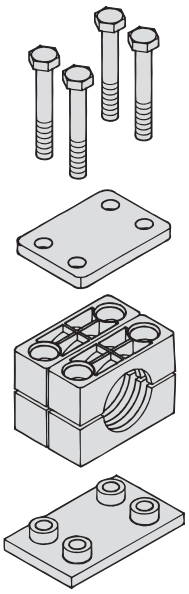
1x **Cover Plate for Single Clamps**
Surface: W2, phosphated

1x **Clamp (two halves)**
Material: Polypropylene
Design: profiled inside, with tension clearance
Group: STAUFF 3S / DIN 1
Pipe-O.D. 6 mm

1x **Weld Plate for Single Clamps**
Surface: W2, phosphated
Thread: metric

W12 (up to Group 7S) or W1 (Group 8S to 12S) are standards for this type of installation.

SPAS 3006 PP-DPAS-AS M W12



4x **Hexagon Head Bolt**
Surface: W1, untreated
Thread: metric

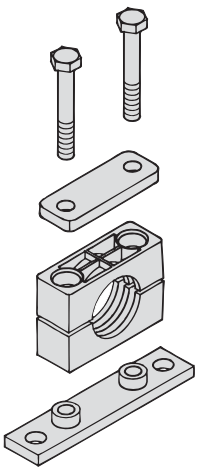
1x **Cover Plate for Double Clamps**
Surface: W2, phosphated

2x **Clamp (four halves)**
Material: Polypropylene
Design: profiled inside, with tension clearance
Group: STAUFF 3S / DIN 1
Pipe-O.D. 6 mm

1x **Weld Plate for Double Clamps**
Surface: W2, phosphated
Thread: metric

W12 (up to Group 7S) or W1 (Group 8S to 12S) are standards for this type of installation.

SPAL/DUEB 3006 PP-DPAL-AS M W12



2x **Hexagon Head Bolt**
Surface: W1, untreated
Thread: metric

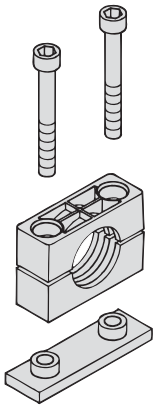
1x **Cover Plate for Single Clamps**
Surface: W2, phosphated

1x **Clamp (two halves)**
Material: Polypropylene
Design: profiled inside, with tension clearance
Group: STAUFF 3S / DIN 1
Pipe-O.D. 6 mm

1x **Elongated Weld Plate for Single Clamps**
Surface: W2, phosphated
Thread: metric

W12 (up to Group 7S) or W1 (Group 8S to 12S) are standards for this type of installation.

SPAL 3006 PP-IS M W12



2x **Socket Cap Screw**
Surface: W1, untreated
Thread: metric

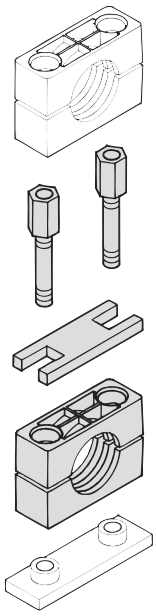
1x **Clamp (two halves)**
Material: Polypropylene
Design: profiled inside, with tension clearance
Group: STAUFF 3S / DIN 1
Pipe-O.D. 6 mm

1x **Weld Plate for Single Clamps**
Surface: W2, phosphated
Thread: metric

W12 (up to Group 6S) is standard for this type of installation.

according to **DIN 3015, Part 2**

3006 PP-SIP-AF M W2



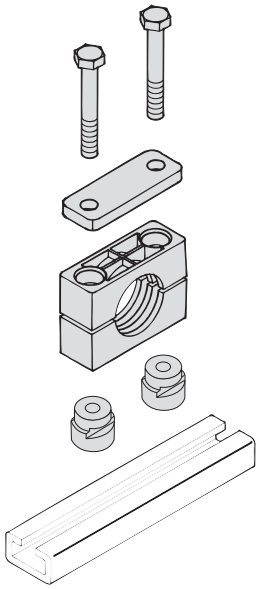
2x **Stacking Bolt**
Surface: W2, phosphated
Thread: metric

1x **Safety Locking plate**
Surface: W2, phosphated

1x **Clamp (two halves)**
Material: Polypropylene
Design: profiled inside, with tension clearance
Group: STAUFF 3S / DIN 1
Pipe-O.D. 6 mm

W2 (up to Group 7S) or W18 (Group 8S to 10S) are standards for this type of installation.

GMV 3006 PP-DPAL-AS M W13



2x **Hexagon Head Bolt**
Surface: W1, untreated
Thread: metric

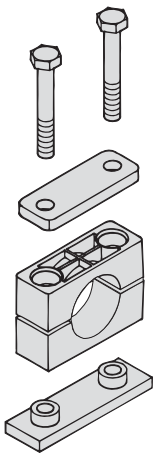
1x **Cover Plate for Single Clamps**
Surface: W2, phosphated

1x **Clamp (two halves)**
Material: Polypropylene
Design: profiled inside, with tension clearance
Group: STAUFF 3S / DIN 1
Pipe-O.D. 6 mm

2x **Mounting Rail Nut**
Surface: W3, zinc/nickel coated
Thread: metric

W13 (up to Group 6S) is standard for this type of installation. This combination is available up to Group 6S only.

SPAL 3006 PPH-DPAL-AS M W12



2x **Hexagon Head Bolt**
Surface: W1, untreated
Thread: metric

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

1x **Clamp (two halves)**
Material: Polypropylene
Design: smooth inside, without tension clearance
Group: STAUFF 3S / DIN 1
Pipe-O.D. 6 mm

1x **Weld Plate for Single Clamps**
Surface: W2, phosphated
Thread: metric

W12 (up to Group 7S) or W1 (Group 8S to 12S) are standards for this type of installation.

NOTES REGARDING THE USE OF THE CHANNEL RAIL ADAPTOR CRA

The CHANNEL RAIL ADAPTOR Type **CRA** is amongst others suitable for the following channel rails:

UNISTRUT-Rails
P1000, P1000T, P1000V, P1000VT, P1001
P2000, P2000T
P3003, P3003T, P3300V, P3300VT, P3301
P4000, P4000T
P5000, P5000T, P5001, P5500, P5500T, P5501

HALFEN-Rails
HM 41/41
HZA 41/22
HZM 41/41
HZM 41/22
HL 41/41, HL 41/B2

HILTI-Rails
MQ-21, MQ-41, MQ-52, MQ-72
MQ-21U, MQ-41U, MQ-72U
MQ-21D, MQ-41D, MQ-52-72D

according to **DIN 3015, Part 3**

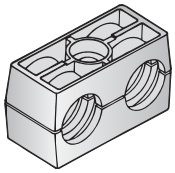
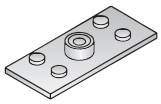
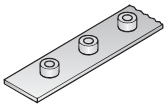
ALSO AVAILABLE

Extensive range of special clamping systems and accessories, e.g. for noise and vibration reducing installation, for electric applications and cables or for particular mounting purposes

see pages 28 to 32

Custom designed pipe clamps (machined and injection moulding versions) according to customer`s specifications or based on STAUFF developments

see pages 34 to 35

CLAMP BODY consisting of two clamp halves	SINGLE WELD PLATE **SP**	GROUP WELD PLATE **RAP**	CHANNEL RAIL ADAPTOR **CRA**
			suitable for several types of channel rails, **see page 27** 
MATERIAL & SURFACE FINISHING CODE (ALL DISPLAYED OPTIONS ARE STANDARD DELIVERY)	SEE COMPONENT PART IDENTIFICATION	**W2**	**W1**	**W3***

ORDERING INFORMATION					***,*/**,* ***	SP ** * **	RAP **/**/* * **	CRA ** * **
STAUFF GROUP	DIN GROUP	OUTSIDE DIAMETER PIPE / TUBE / HOSE IN MM	OUTSIDE DIAMETER PIPE / TUBE / HOSE IN INCH	NOMINAL BORE PIPE IN INCH	STAUFF GROUP / OUTSIDE DIAMETERS OF BOTH PIPES IN MM / MATERIAL & DESIGN OF CLAMP BODY	SINGLE WELD PLATE **SP** / STAUFF GROUP / TYPE OF THREAD / MATERIAL & SURFACE FINISHING	GROUP WELD PLATE **RAP** / STAUFF GROUP / PIPE CENTER SPACING / NUMBER OF CLAMPS / TYPE OF THREAD / MATERIAL & SURFACE FINISHING	CHANNEL RAIL ADAPTOR **CRA** / STAUFF GROUP / TYPE OF THREAD / MATERIAL & SURFACE FINISHING
1D	**1**	6			***106/06 ******	***SP 1D * ****	***RAP 1D/40/5 * ****	***CRA 1D M **** for use with bolt M6 x 35
		6,4	1/4		***106,4/06,4 ******			
		8	5/16		***108/08 ******			
		9,5	3/8		***109,5/09,5 ******			
		10		1/8	***110/10 ******			
		12			***112/12 ******			
2D	**2**	12,7	1/2		***212,7/12,7 ******	***SP 2D * ****	***RAP 2D/58/5 * ****	***CRA 2D M **** for use with bolt M8 x 35
		13,5		1/4	***213,5/13,5 ******			
		14			***214/14 ******			
		15			***215/15 ******			
		16	5/8		***216/16 ******			
		17,2		3/8	***217,2/17,2 ******			
		18			***218/18 ******			
3D	**3**	19	3/4		***319/19 ******	***SP 3D * ****	***RAP 3D/72/5 * ****	***CRA 3D M **** for use with bolt M8 x 45
		20			***320/20 ******			
		21,3		1/2	***321,3/21,3 ******			
		22	7/8		***322/22 ******			
		25			***325/25 ******			
		25,4	1		***325,4/25,4 ******			
4D	**4**	26,9		3/4	***426,9/26,9 ******	***SP 4D * ****	***RAP 4D/90/5 * ****	***CRA 4D M **** for use with bolt M8 x 50
		28			***428/28 ******			
		30			***430/30 ******			
5D	**5**	32			***532/32 ******	***SP 5D * ****	***RAP 5D/112/5 * ****	***CRA 5D M **** for use with bolt M8 x 60
		33,7			***533,7/33,7 ******			
		35			***535/35 ******			
		38			***538/38 ******			
		40			***540/40 ******			
		42			***542/42 ******			

COMPONENT PART IDENTIFICATION FOR TWIN SERIES CLAMP BODIES AND COMPONENTS

CLAMP BODY

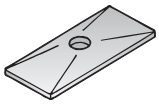
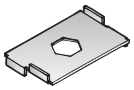
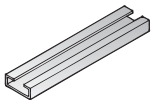
MATERIAL	DESIGN	COLOUR	CODE
Polypropylene	profiled inside, with tension clearance	green	**PP**
Polypropylene	smooth inside, without tension clearance	green	**PPH**

MATERIAL	DESIGN	COLOUR	CODE
Polyamide	profiled inside, with tension clearance	black	**PA**
Polyamide	smooth inside, without tension clearance	black	**PAH**

Alternative materials, designs and colours in addition to the above stated standard are available upon request.

* zinc plated, blue chromated - Fe/Zn 8 B

according to **DIN 3015, Part 3**

COVER PLATE **GD**	HEXAGON HEAD BOLT **AS**	STACKING BOLT **AF**	SAFETY LOCKING PLATE **SI**	SAFETY LOCKING PLATE **SIV**	MOUNTING RAIL **TS**	HEXAGON RAIL NUT **SM**
	DIN 931/933 			for multi-level assembly, prevents upper clamp from turning  Group 1D - 3D		 SM 1-8/1D  SM 2-5D
W3	**W3**	**W3**	**W3**	**W3**	**W1**	**W1 / W3**
GD ✱✱ ✱✱	***AS ✱✱ ✱ ✱✱***	***AF ✱✱ ✱ ✱✱***	***SI ✱✱✱✱ ✱✱***	***SIV ✱✱✱✱ ✱✱***	***TS ✱✱-✱ ✱✱***	***SM ✱✱ ✱ ✱✱***
COVER PLATE **GD** / STAUFF GROUP / MATERIAL & SURFACE FINISHING	HEXAGON HEAD BOLT **AS** / STAUFF GROUP / TYPE OF THREAD / MATERIAL & SURFACE FINISHING	STACKING BOLT **AF** / STAUFF GROUP / TYPE OF THREAD / MATERIAL & SURFACE FINISHING	SAFETY LOCKING PLATE **SI** / STAUFF GROUP (1D OR 2-5D ONLY) / MATERIAL & SURFACE FINISHING	SAFETY LOCKING PLATE **SIV** / STAUFF GROUP (1D OR 2-3D ONLY) / MATERIAL & SURFACE FINISHING	MOUNTING RAIL **TS** / HEIGHT OF RAIL IN MM / LENGTH OF RAIL IN M / MATERIAL & SURFACE FINISHING	HEXAGON RAIL NUT **SM** / STAUFF GROUP (1-8/1D OR 2-5D ONLY) / TYPE OF THREAD / MATERIAL & SURFACE FINISHING
GD 1D ✱✱	*AS 1D M ✱✱* (M6 x 35)	*AF 1D ✱ ✱✱*	*SI 1D ✱✱*	*SIV 1D ✱✱*		*SM 1-8/1D ✱ W1*
GD 2D ✱✱	*AS 2D M ✱✱* (M8 x 35)	*AF 2D ✱ ✱✱*	*SI 2-5D ✱✱*	*SIV 2-3D ✱✱*	*TS ✱✱-✱ ✱✱* available heigths: 11, 14 and 30 mm available lengths: 1m and 2 m	*SM 2-5D ✱ W3*
GD 3D ✱✱	*AS 3D M ✱✱* (M8 x 45)	*AF 3D ✱ ✱✱*				
GD 4D ✱✱	*AS 4D M ✱✱* (M8 x 50)	*AF 4D ✱ ✱✱*		- - -		
GD 5D ✱✱	*AS 5D M ✱✱* (M8 x 60)	*AF 5D ✱ ✱✱*		- - -		

COMPONENT PART IDENTIFICATION FOR TWIN SERIES CLAMP BODIES AND COMPONENTS

METAL PARTS Alternative materials and surface finishings in addition to the below stated standard are available upon request

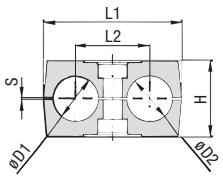
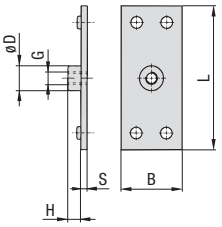
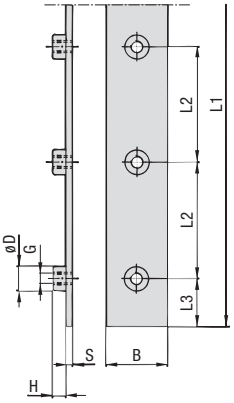
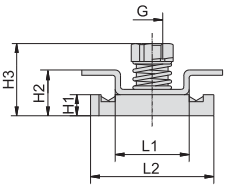
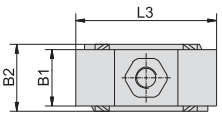
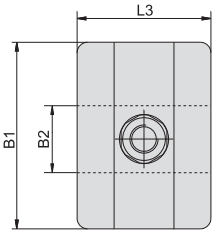
MATERIAL	SURFACE FINISHING	CODE
carbon steel St37	untreated	**W1**
carbon steel St37	phosphated	**W2**
carbon steel St37	zinc/nickel coated	**W3**
stainless steel A2 - 1.4301/1.4305 (AISI 304/303)		**W4**
stainless steel A4 - 1.4401/1.4571 (AISI 316/316Ti)		**W5**

THREADED PARTS

TYPE OF THREAD	CODE
Metric Thread	**M**
UNC Thread	**U**

All threaded parts are available with Metric or UNC Thread on request.

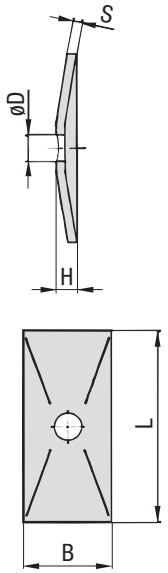
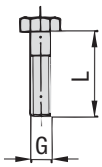
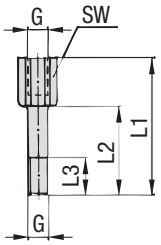
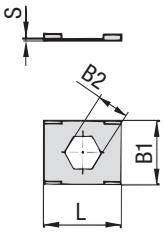
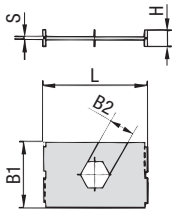
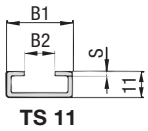
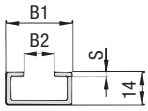
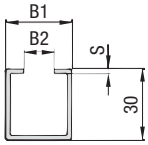
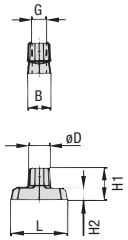
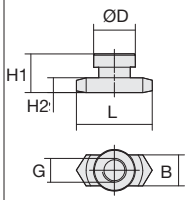
according to **DIN 3015, Part 3**

MATERIAL & SURFACE FINISHING OF METAL PARTS	CLAMP BODY consisting of two clamp halves	SINGLE WELD PLATE **SP**	GROUP WELD PLATE **RAP**	CHANNEL RAIL ADAPTOR **CRA**
carbon steel St37, untreated **W1** carbon steel St37, phosphated **W2** carbon steel St37, zinc/nickel coated **W3** stainless steel A2 - 1.4301/1.4305 (AISI304/303) **W4** stainless steel A4 - 1.4401/1.4571 (AISI316/316Ti) **W5** Alternative materials and surface finishings in addition to the above stated standard are available upon request.				  1D  2-5D

MATERIAL & SURFACE FINISHING CODE			SEE COMPONENT PART IDENTIFICATION						**W2**						**W1**								**W3***								
STAUFF GROUP	**DIN GROUP**	**OUTSIDE DIAMETER PIPE / TUBE / HOSE Ø D1 / Ø D2 IN MM**	Inside Surface																											
					gerippt		glatt																							
			L1	L2	H	S	H	Breite	L	B	S	H	øD	G	L1	L2	L3	B	S	H	øD	G	G	L1	L2	L3	B1	B2	H1	H2	H3
1D	**1**	6 6,4 8 9,5 10 12	36	20	27	0,6 min.	26,5	30	37	30	3	6,5	12	M6	196	40	18	30	3	6,5	12	M6	M6	21	35	40	16	19	6	13	20,5
2D	**2**	12,7 13,5 14 15 16 17,2 18	53	29	27	0,7 min.	26,5	30	55	30	5	6	14	M8	288	58	28	30	5	6	14	M8	M8	21	35	38	53	19	9	17	23,5
3D	**3**	19 20 21,3 22 25 25,4	67	36	37	0,7 min.	36,5	30	70	30	5	6	14	M8	358	72	35	30	5	6	14	M8									
4D	**4**	26,9 28 30	80	45	40	0,7 min.	38	30	85	30	5	6	14	M8	445	90	42	30	5	6	14	M8	M8	21	35	38	80	19	9	17	23,5
5D	**5**	32 33,7 35 38 40 42	106	56	53	0,7 min.	52	30	110	30	5	6	14	M8	558	112	55	30	5	6	14	M8									

*zinc plated, blue chromated - Fe/Zn 8 B

according to **DIN 3015, Part 3**

COVER PLATE **GD**	HEXAGON HEAD BOLT **AS**	STACKING BOLT **AF**	SAFETY LOCKING PLATE **SI**	SAFETY LOCKING PLATE **SIV**	MOUNTING RAIL **TS**	HEXAGON RAIL NUT **SM**
	DIN 931/933 			for multi-level assembly, prevents upper clamp from turning  Group 1D - 3D	 **TS 11**  **TS 14**  **TS 30**	 SM 1-8/1D  SM 2-5D
W3	**W3**	**W3**	**W3**	**W3**	**W1**	**W1/W3**

L	B	H	S	øD	G x L	G	L1	L2	L3	SW	L	B1	B2	S	L	B1	B2	S	H	Nominal Size	B1	B2	S	L	B	H1	H2	øD	G
34	30	7	3	7	M6 x 35	M6	34	20	12 min.	11	27	22	11,2	0,5	27	28	11,1	1	7	TS 11 TS 14 TS 30	28	11	2	25,5	10,2	13,5	5,5	12	M6
52	30	7	3	9	M8 x 35	M8	33	20	12 min.	12	27	22	12,2	0,5	45	28	12,1	1	7										
65	30	7	3	9	M8 x 45	M8	44	29	12 min.	12	27	22	12,2	0,5	45	28	12,1	1	7					25,5	10,4	13	5	14	M8
79	30	7	3	9	M8 x 50	M8	49	34	12 min.	12	27	22	12,2	0,5	- - -														
102	30	7	3	9	M8 x 60	M8	61	46	12 min.	12	27	22	12,2	0,5	- - -														

according to **DIN 3015, Part 3**

① ***	②***,*/***,*	③ ***	④** - **	⑤ *	⑥W**	⑦ *

① TYPE OF INSTALLATION

no code	without mounting plate, rail adaptor or rail nuts
SP	Single Weld Plate
RAP	Group Weld Plate
CRA	Channel Rail Adaptor
SM	Hexagon Rail Nut

② STAUFF GROUP & SIZE OF CLAMP BODY *3

Group	Tube O.D. in mm	Tube O.D. in inch	Nominal Bore Pipe	Material Code Clamp Body (both halves)
STAUFF 1D DIN 1	6			***106/06***
	6,4	1/4		***106,4/06,4***
	8	5/16		***108/08***
	9,5	3/8		***109,5/09,5***
	10		1/8	***110/10***
	12			***112/12***
STAUFF 2D DIN 2	12,7	1/2		***212,7/12,7***
	13,5		1/4	***213,5/13,5***
	14			***214/14***
	15			***215/15***
	16	5/8		***216/16***
	17,2		3/8	***217,2/17,2***
STAUFF 3D DIN 3	18			***218/18***
	19	3/4		***319/19***
	20			***320/20***
	21,3		1/2	***321,3/21,3***
	22	7/8		***322/22***
	25			***325/25***
	25,4	1		***325,4/25,4***
4D 4	26,9		3/4	***426,9/26,9***
	28			***428/28***
	30			***430/30***
STAUFF 5D DIN 5	32			***532/32***
	33,7			***533,7/33,7***
	35			***535/35***
	38			***538/38***
	40			***540/40***
	42			***542/42***

③ MATERIAL & DESIGN OF CLAMP BODY *1

PP	Polypropylene, profiled inside, with tension clearance
PPH	Polypropylene, smooth inside, without tension clearance
PA	Polyamide, profiled inside, with tension clearance
PAH	Polyamide, smooth inside, without tension clearance

④ MOUNTING & FITTING COMBINATION

GD - AS	Cover Plate / Hexagon Head Bolt
SI - AF	Safety Locking Plate / Stacking Bolt

⑤ TYPE OF THREAD

M	Metric Thread
U	UNC Thread

⑥ MATERIAL & SURFACE FINISHING OF METAL PARTS *2

W1	all parts are untreated
W2	all parts are phosphated
W3	all parts are zinc/nickel coated
W4	all metal parts made of stainless steel A2 - 1.4301/1.4305 (AISI 304/303)
W5	all metal parts made of stainless steel A4 - 1.4401/1.4571 (AISI 316/316Ti)
W10	weld plate phosphated, all other parts zinc/nickel coated
W11	rail nut untreated, all other parts zinc/nickel coated

⑦ ASSEMBLING & PACKAGING

no code	components supplied separately (standard)
A	assembled (optional)
K	packed in kits (optional)

TECHNICAL NOTES

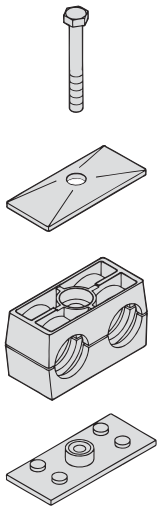
***1** SEE MATERIAL PROPERTIES ON PAGE 52. OTHER CLAMP BODY MATERIALS AND COLOURS ARE AVAILABLE UPON REQUEST.

***2** INDIVIDUAL COMBINATIONS OF ALTERNATIVE SURFACE FINISHINGS AND SPECIAL PROPERTY MATERIALS ARE AVAILABLE UPON REQUEST.

***3** TWIN CLAMPS WITH DIFFERENT OUTSIDE DIAMETERS ARE ALSO AVAILABLE ON REQUEST.

according to **DIN 3015, Part 3**

SP 106/06 PP-GD-AS M W10



1x **Hexagon Head Bolt**
Surface: W3, zinc/nickel coated
Thread: metric

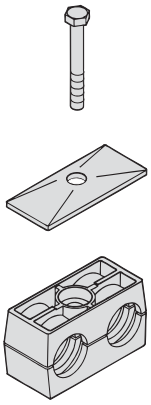
1x **Cover Plate**
Surface: W3, zinc/nickel coated

1x **Clamp (two halves)**
Material: Polypropylene
Design: profiled inside, with tension clearance
Group: STAUFF 1D / DIN 1
Pipe-O.D. both 6 mm

1x **Weld Plate**
Surface: W2, phosphated
Thread: metric

W10 is standard for this type of installation.

106/06 PP-GD-AS M W3



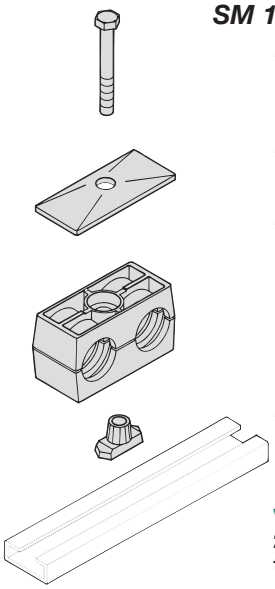
1x **Hexagon Head Bolt**
Surface: W3, zinc/nickel coated
Thread: metric

1x **Cover Plate**
Surface: W3, zinc/nickel coated

1x **Clamp (two halves)**
Material: Polypropylene
Design: profiled inside, with tension clearance
Group: STAUFF 1D / DIN 1
Pipe-O.D. both 6 mm

W3 is standard for this type of installation.

SM 106/06 PP-GD-AS M W11



1x **Hexagon Head Bolt**
Surface: W3, zinc/nickel coated
Thread: metric

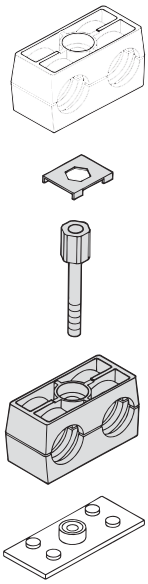
1x **Cover Plate**
Surface: W3, zinc/nickel coated

1x **Clamp (two halves)**
Material: Polypropylene
Design: profiled inside, with tension clearance
Group: STAUFF 1D / DIN 1
Pipe-O.D. both 6 mm

1x **Mounting Rail Nut**
Surface: W1, untreated
Thread: metric

W11 (Group 1D) or W3 (Group 2D-5D) are standards for this type of installation.

106/06 PP-SI-AF M W3



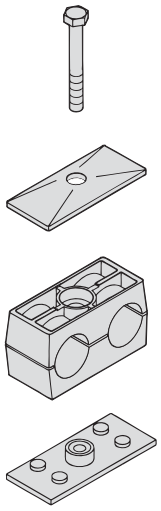
1x **Safety Locking Plate**
Surface: W3, zinc/nickel coated

1x **Stacking Bolt**
Surface: W3, zinc/nickel coated
Thread: metric

1x **Clamp (two halves)**
Material: Polypropylene
Design: profiled inside, with tension clearance
Group: STAUFF 1D / DIN 1
Pipe-O.D. both 6 mm

W3 is standard for this type of installation.

SP 106/06 PPH-GD-AS M W10



1x **Hexagon Head Bolt**
Surface: W3, zinc/nickel coated
Thread: metric

1x **Cover Plate**
Surface: W3, zinc/nickel coated

1x **Clamp (two halves)**
Material: Polypropylene
Design: smooth inside, without tension clearance
Group: STAUFF 1D / DIN 1
Pipe-O.D. both 6 mm

1x **Weld Plate**
Surface: W2, phosphated
Thread: metric

W10 is standard for this type of installation.

NOTES REGARDING THE USE OF THE CHANNEL RAIL ADAPTOR CRA

The CHANNEL RAIL ADAPTOR Type **CRA** is amongst others suitable for the following channel rails:

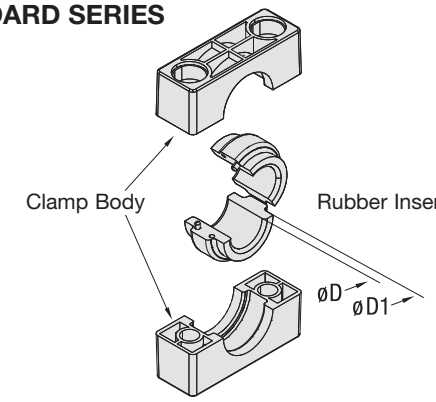
UNISTRUT-Rails
P1000, P1000T, P1000V, P1000VT, P1001
P2000, P2000T
P3003, P3003T, P3300V, P3300VT, P3301
P4000, P4000T
P5000, P5000T, P5001, P5500, P5500T, P5501

HALFEN-Rails
HM 41/41
HZA 41/22
HZM 41/41
HZM 41/22
HL 41/41, HL 41/B2

HILTI-Rails
MQ-21, MQ-41, MQ-52, MQ-72
MQ-21U, MQ-41U, MQ-72U
MQ-21D, MQ-41D, MQ-52-72D

RI-CLAMPS (Pipe Clamps with Rubber Insert)

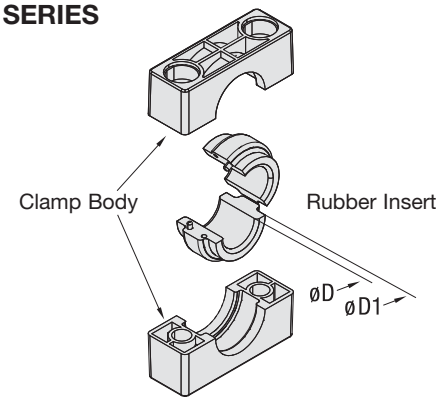
STANDARD SERIES



STAUFF Group	DIN Group	Pipe-O.D. ØD [mm]	Pipe-O.D. ØD1 [mm]	Order Code Rubber Insert	Order Code Clamp Body	Order Code Rubber Insert + Clamp Body
4	4	6	25	RI 06 (4+4S)	4 **xx**R	406 **xx**R
		8		RI 08 (4+4S)	4 **xx**R	408 **xx**R
		10		RI 10 (4+4S)	4 **xx**R	410 **xx**R
		12		RI 12 (4+4S)	4 **xx**R	412 **xx**R
		12,7		RI 12,7 (4+4S)	4 **xx**R	412,7 **xx**R
		14		RI 14 (4+4S)	4 **xx**R	414 **xx**R
		15		RI 15 (4+4S)	4 **xx**R	415 **xx**R
		16		RI 16 (4+4S)	4 **xx**R	416 **xx**R
		17,2		RI 17,2 (4+4S)	4 **xx**R	417,2 **xx**R
		18		RI 18 (4+4S)	4 **xx**R	418 **xx**R
		19		RI 19 (4+4S)	4 **xx**R	419 **xx**R
6	6	20	38	RI 20 (6+5S)	6 **xx**R	620 **xx**R
		21,3		RI 21,3 (6+5S)	6 **xx**R	621,3 **xx**R
		22		RI 22 (6+5S)	6 **xx**R	622 **xx**R
		25		RI 25 (6+5S)	6 **xx**R	625 **xx**R
		26,9		RI 26,9 (6+5S)	6 **xx**R	626,9 **xx**R
		28		RI 28 (6+5S)	6 **xx**R	628 **xx**R
		30		RI 30 (6+5S)	6 **xx**R	630 **xx**R
		32		RI 32 (6+5S)	6 **xx**R	632 **xx**R

Other diameters are availabe on request.

HEAVY SERIES



STAUFF Group	DIN Group	Pipe-O.D. ØD [mm]	Pipe-O.D. ØD1 [mm]	Order Code Rubber Insert	Order Code Clamp Body	Order Code Rubber Insert + Clamp Body
4S	2	06	25	RI 06 (4+4S)	4S **xx**R	4006 **xx**R
		08		RI 08 (4+4S)	4S **xx**R	4008 **xx**R
		10		R 10 (4+4S)	4S **xx**R	4010 **xx**R
		12		RI 12 (4+4S)	4S **xx**R	4012 **xx**R
		12,7		RI 12,7 (4+4S)	4S **xx**R	4012,7 **xx**R
		14		RI 14 (4+4S)	4S **xx**R	4014 **xx**R
		15		RI 15 (4+4S)	4S **xx**R	4015 **xx**R
		16		RI 16 (4+4S)	4S **xx**R	4016 **xx**R
		17,2		RI 17,2 (4+4S)	4S **xx**R	4017,2 **xx**R
		18		RI 18 (4+4S)	4S **xx**R	4018 **xx**R
		19		RI 19 (4+4S)	4S **xx**R	4019 **xx**R
5S	3	20	38	RI 20 (6+5S)	5S **xx**R	5020 **xx**R
		21,3		RI 21,3 (6+5S)	5S **xx**R	5021,3 **xx**R
		22		RI 22 (6+5S)	5S **xx**R	5022 **xx**R
		25		RI 25 (6+5S)	5S **xx**R	5025 **xx**R
		26,9		RI 26,9 (6+5S)	5S **xx**R	5026,9 **xx**R
		28		RI 28 (6+5S)	5S **xx**R	5028 **xx**R
		30		RI 30 (6+5S)	5S **xx**R	5030 **xx**R
		32		RI 32 (6+5S)	5S **xx**R	5032 **xx**R
6S	4	32	64	RI 32 (6S)	6S **xx**R	6032 **xx**R
		33,7		RI 33,7 (6S)	6S **xx**R	6033,7 **xx**R
		35		RI 35 (6S)	6S **xx**R	6035 **xx**R
		38,7		RI 38,7 (6S)	6S **xx**R	6038,7 **xx**R
		40		RI 40 (6S)	6S **xx**R	6040 **xx**R
		42		RI 42 (6S)	6S **xx**R	6042 **xx**R
		45,5		RI 45,5 (6S)	6S **xx**R	6045,5 **xx**R
		48		RI 48 (6S)	6S **xx**R	6048 **xx**R
		51		RI 51 (6S)	6S **xx**R	6051 **xx**R
		53,4		RI 53,4 (6S)	6S **xx**R	6053,4 **xx**R
		56,4		RI 56,4 (6S)	6S **xx**R	6056,4 **xx**R
7S	5	55	88	RI 55 (7S)	7S **xx**R	7055 **xx**R
		57		RI 57 (7S)	7S **xx**R	7057 **xx**R
		60		RI 60 (7S)	7S **xx**R	7060 **xx**R
		65		RI 65 (7S)	7S **xx**R	7065 **xx**R
		70		RI 70 (7S)	7S **xx**R	7070 **xx**R
		72		RI 72 (7S)	7S **xx**R	7072 **xx**R
		76		RI 76 (7S)	7S **xx**R	7076 **xx**R
8S	6	80	114	RI 80 (8S)	8S **xx**R	8080 **xx**R
		88,9		RI 88,9 (8S)	8S **xx**R	8088,9 **xx**R

Other sizes and diameters are availabe on request.

Clamp Body	Material **XX**
	Polypropylene **PP** Polyamide **PA**
Elastomer Insert	Material
	Thermoplastic Elastomer (TPE)
Elastomer Insert	Material Properties
Mechanical Properties Shore Hardness: Modulus of Elasticity: Tensile Stress:	 73 A 16 N/mm² at 23°C (acc. to ASTM D 412) 8,3 N/mm² (acc. to ASTM D 412)
Temperature Properties Temperature Resistance:	 -40°C - +125°C
Chemical Properties weak acids, solvents benzine, mineral oils alcohol, other oils, seawater	 consistent conditionally consistent consistent

Attention!

The relation between tube O.D. and RI-clamp size does not match with that of standard series (profiled and smooth bore).

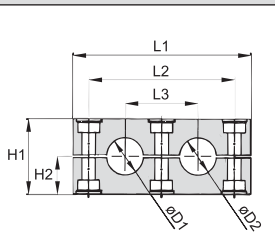
For dimensions of clamp bodies please refer to the dimensional tables of the standard series, respectively heavy series.

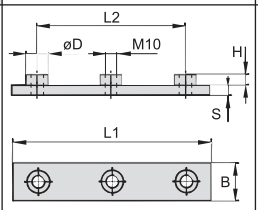
HEAVY SERIES - TWIN DESIGN

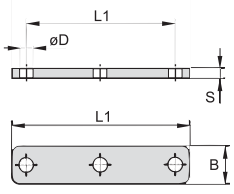
ORDER CODES / DIMENSIONS

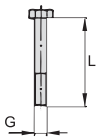
MATERIAL & DESIGN OF CLAMP BODY		CLAMP BODY consisting of two clamp halves	WELD PLATE **SPAD**	COVER PLATE **DPAD**	HEXAGON HEAD BOLT **AS**
Polypropylene, profiled inside, with tension clearance	**PP**				
Polyamide, profiled inside, with tension clearance	**PA**				
MATERIAL & SURFACE FINISHING OF METAL PARTS					DIN 931/933
carbon steel St37, untreated	**W1**				
carbon steel St37, phosphated	**W2**				
carbon steel St37, zinc/nickel coated	**W3**				
stainless steel A2 - 1.4301/1.4305 (AISI304)	**W4**				
stainless steel A4 - 1.4401/1.4571 (AISI316/316Ti)	**W5**				
TYPE OF THREAD					
Metric Thread	**M**				
UNC Thread	**U**				
MATERIAL & SURFACE FINISHING (STANDARD DELIVERY / DETAILS ABOVE)		SEE COMPONENT PART IDENTIFICATION	**W1**	**W1**	**W1**

ORDERING INFORMATION				****,*/***,* **	SPAD ** * **	DPAD ** **	AS ** * **
STAUFF GROUP	**OUTSIDE DIAMETER PIPE / TUBE / HOSE Ø D1/D2 IN MM**	**OUTSIDE DIAMETER PIPE / TUBE / HOSE Ø D1/D2 IN INCH**	**NOMINAL BORE PIPE IN INCH**	FIRST DIGIT OF STAUFF GROUP (SEE BELOW) / OUTSIDE DIAMETERS OF PIPES IN MM / MATERIAL & DESIGN OF CLAMP BODY	WELD PLATE **SPAD** / FIRST 2 DIGITS OF STAUFF GROUP (SEE BELOW) / TYPE OF THREAD / MATERIAL & SURFACE FINISHING	COVER PLATE **DPAD** / FIRST 2 DIGITS OF STAUFF GROUP (SEE BELOW) / MATERIAL & SURFACE FINISHING	HEXAGON HEAD BOLT **AS** / FIRST 2 DIGITS OF STAUFF GROUP (SEE BELOW) / TYPE OF THREAD / MATERIAL & SURFACE FINISHING
4S-D	19/19	3/4 / 3/4		***4019/19 *****	***SPAD 4S * *****	***DPAD 4S *****	***AS 4S M ***** (M10 x 60)
	20/20			***4020/20 *****			
	21,3/21,3		1/2 / 1/2	***4021,3/21,3 *****			
	22/22	7/8 / 7/8		***4022/22 *****			
	25,4/25,4	1 / 1		***4025,4/25,4 *****			
	26,9/26,9		3/4 / 3/4	***4026,9/26,9 *****			
5S-D	32/32	1 1/4 / 1 1/4		***5032/32 *****	***SPAD 5S * *****	***DPAD 5S *****	***AS 5S M ***** (M10 x 70)
	33,7/33,7		1 / 1	***5033,7/33,7 *****			
	38/38	1 1/2 / 1 1/2		***5038/38 *****			
	40/40			***5040/40 *****			
	42/42		1 1/4 / 1 1/4	***5042/42 *****			





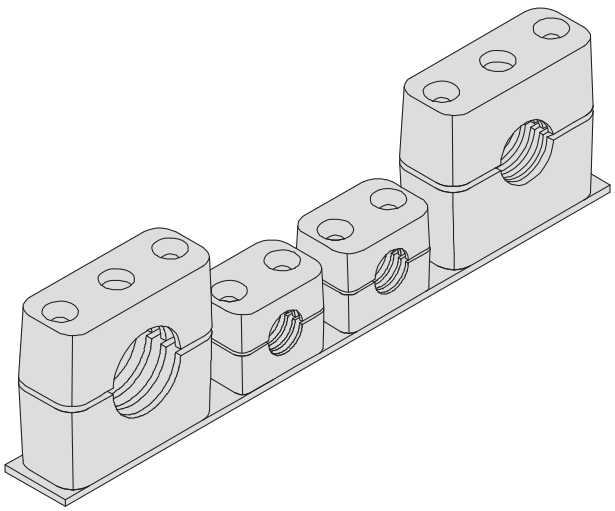




STAUFF GROUP	**OUTSIDE DIAMETER PIPE / TUBE / HOSE Ø D1/D2 IN MM**	**OUTSIDE DIAMETER PIPE / TUBE / HOSE Ø D1/D2 IN INCH**	**NOMINAL BORE PIPE IN INCH**	L1	L2	L3	H1	H2	Width	L1	L2	B	S	H	Ø D	L1	L2	B	S	Ø D	G x L
4S-D	19/19	3/4 / 3/4		115	90	45	48	24	30	130	90	30	8	8,5	18	115	90	30	8	11	M10 x 60
	20/20																				
	21,3/21,3		1/2 / 1/2																		
	22/22	7/8 / 7/8																			
	25,4/25,4	1 / 1																			
	26,9/26,9		3/4 / 3/4																		
5S-D	32/32	1 1/4 / 1 1/4		145	120	60	60	30	30	160	120	30	8	8,5	18	145	120	30	8	11	M10 x 70
	33,7/33,7		1 / 1																		
	38/38	1 1/2 / 1 1/2																			
	40/40																				
	42/42		1 1/4 / 1 1/4																		

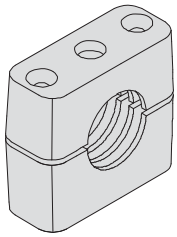
Multi Group Weld Plate RAP-MGR

for Standard Series Clamps, Groups 2 and 5

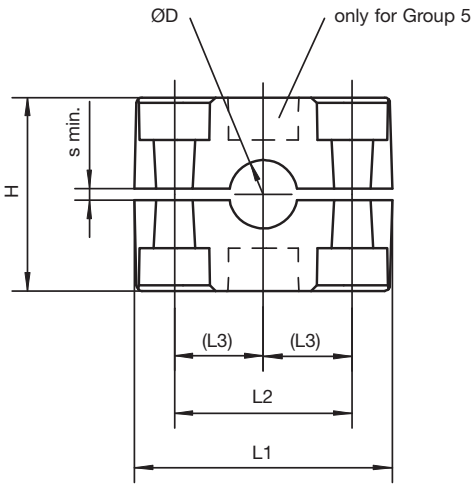


example of mounting

Clamp Body



Group	ØD in mm	Group
2	8	208 ✱✱
	10	210 ✱✱
	12	212 ✱✱
	12,7	212,7 ✱✱
	13,5	213,5 ✱✱
	14	214 ✱✱
	15	215 ✱✱
	16	216 ✱✱
	17,2	217,2 ✱✱
	18	218 ✱✱
5	20	520 ✱✱ - MGR
	21,3	521,3 ✱✱ - MGR
	22	522 ✱✱ - MGR
	23	523 ✱✱ - MGR
	25	525 ✱✱ - MGR
	26,9	526,9 ✱✱ - MGR
	28	528 ✱✱ - MGR
	30	530 ✱✱ - MGR
	32	532 ✱✱ - MGR
	33,7	533,7 ✱✱ - MGR
	35	535 ✱✱ - MGR
	38	538 ✱✱ - MGR
	40	540 ✱✱ - MGR
	42	542 ✱✱ - MGR



Group	L1	L2	L3	H	s
2	42	26	-	33	0,4
5	71	52	26	58	0,8

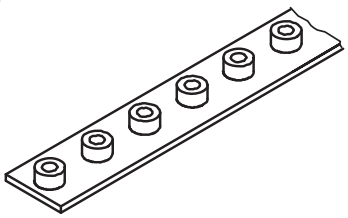
All dimensions in mm.

✱✱ = Clamp Body Material: **PP** Polypropylene **PA** Polyamide

Other diameters / materials / designs upon request.

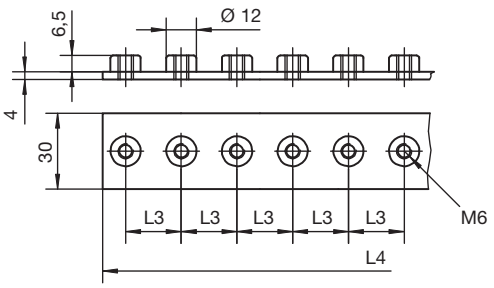
Multi Group Weld Plate

Ordering Example:



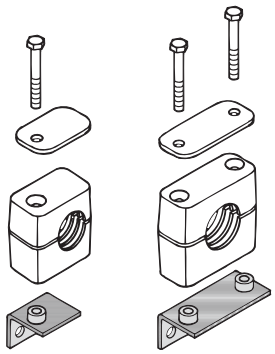
RAP-MGR | 25 | / | 312 | M | W1

- W1 — Material Code (St37, untreated)
- M — Metric Thread
- 312 — Length of Weld Plate
- 25 — Group 2 and 5
- RAP-MGR — Multi Group Weld Plate



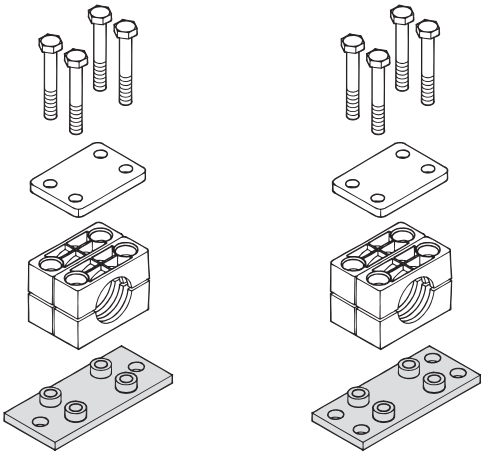
All dimensions in mm.	Number of Weld Nuts	L3	L4
RAP-MGR 25/156	6	26	156
RAP-MGR 25/234	9		234
RAP-MGR 25/312	12		312
RAP-MGR 25/390	15		390
RAP-MGR 25/520	20		520
RAP-MGR 25/700	27		700

Also available ...

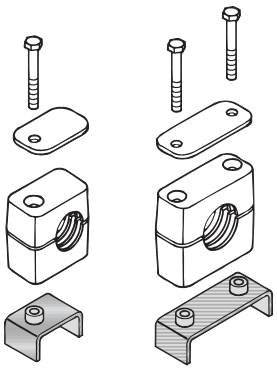


ANGLED WELD PLATES
TYPE WSP

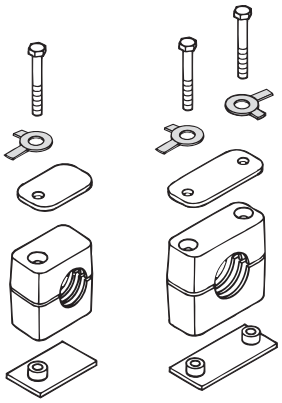
Group 3S - 9S | Group 10S - 12S



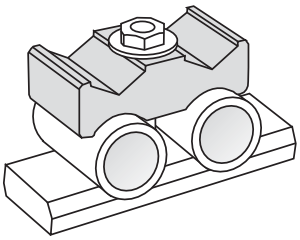
ELONGATED WELD PLATES FOR DOUBLE CLAMPS
TYPE SPAS/DUEB



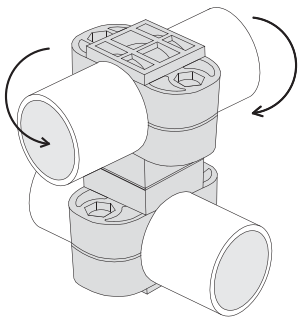
BRIDGE WELD PLATES
TYPE BSP



SAFETY WASHERS
TYPE SI-6,4 DIN 463 W3



AGRICULTURAL CLAMPS
TYPE AG



ADJUSTMENT CLAMPS

CONSULT STAUFF FOR FURTHER DETAILS.

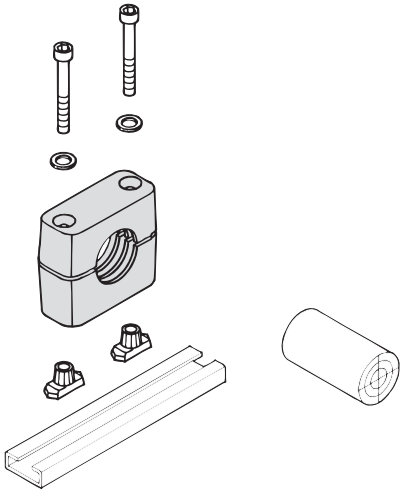
Clamps For Industrial Electric Applications And Electric Cables

ORDER CODE

430 PP (clamp body only)

(or other Standard-Series clamps with the corresponding diameter)

Accessories see Standard Series



For proximity switches according to DIN EN 60947-5-2 or similar

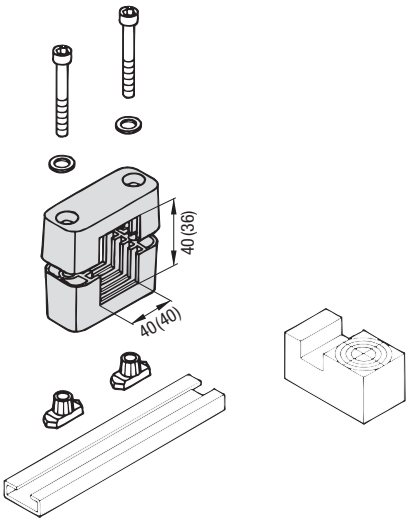
Proximity switch – **round** construction, 30 mm diameter – fastened with a Group 4 Standard-Series clamp mounted on mounting rail with hexagon rail nuts. Loosening of the bolts provides **axial and horizontal position adjustment**.

ORDER CODE

540 - 40 PP-VK (clamp body only)

540 - 36 PP-VK (clamp body only)

Accessories see Standard Series



For proximity switches according to DIN EN 60947-5-2 or similar

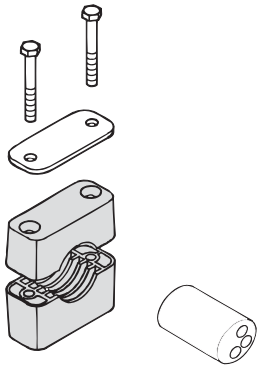
Proximity switch – **rectangular** construction, 40 mm square – fastened with Group 5 Standard-Series clamp mounted on mounting rail with hexagon rail nuts. Loosening of the bolts provides **axial and horizontal position adjustment**.

ORDER CODE

620 - 50 PP (Standard-Series)

6040 - 72 PP (Heavy-Series)

Accessories see Standard Series and Heavy Series

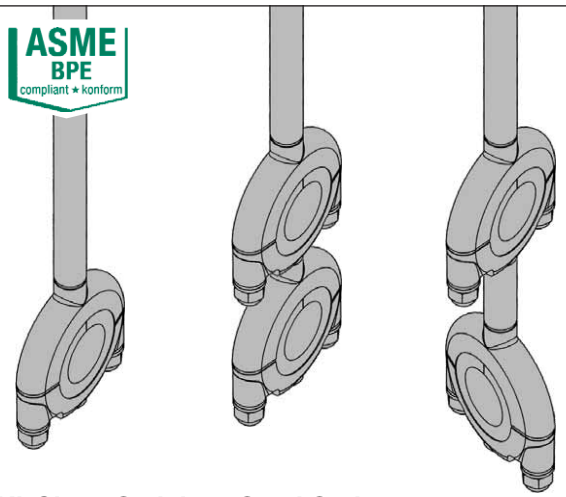


For clamping of electric cables:
STAUFF-Oval Clamps

Group 6 Standard-Series for cable diameters between 20 and 50 mm.
Group 6 S Heavy-Series for cable diameters between 40 and 72 mm.

Bolt types:
Standard-Series: Hexagon Head Bolt in conjunction with cover plate. Socket Cap Screw with washer. Slotted Head Screw with washer.
Heavy Series: Hexagon Head Bolt in conjunction with cover plate. For varying cable diameters only the bolt length needs to be varied.

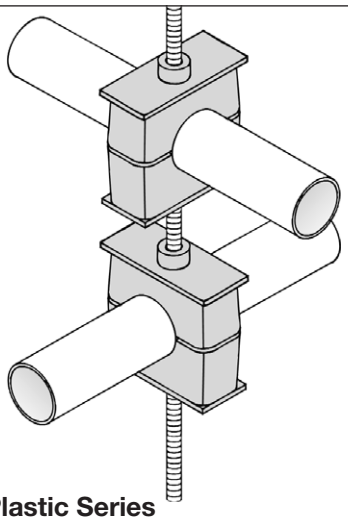
Hi-Clean Clamps for Industrial Clean Rooms



Hi-Clean Stainless Steel Series

- clamping of industrial pipes, tubes and other lines with outer diameters between 6,4 mm and 168,4 mm
- appropriately rounded-off edges and corners to prevent dirt adhesion; no exposed threads; plastic components, which comply with the specifications of the FDA (Food and Drug Administration of the United States)
- all metal components are manufactured from corrosion-resistant stainless steel, upon request with electrolytically high-gloss polished material surfaces

Please consult STAUFF for further details.



Hi-Clean Plastic Series

- clamping of industrial pipes, tubes and other lines with outer diameters between 6,4 mm and 152 mm
- smooth surfaces to prevent dirt adhesion
- all plastic components optionally available in Polypropylene (blue) and Santoprene (natural)
- all metal components are manufactured from corrosion-resistant stainless steel, upon request with electrolytically high-gloss polished material surfaces

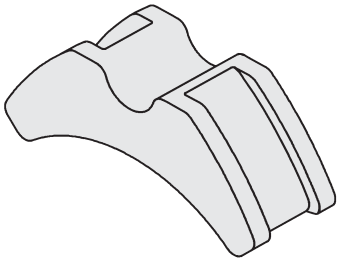
Please consult STAUFF for further details.

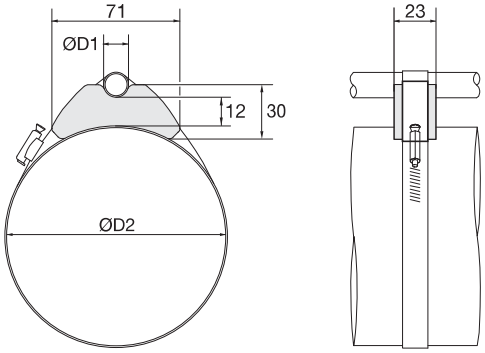
Saddle Clamps For Cylinder Supply Lines (Order Code ZR 518)

Material	**Thermoplastic Elastomer (TPE)**
Shore Hardness:	**75±5 A**
Colour:	**Black** (Standard)
Order Code:	**ZR 518**

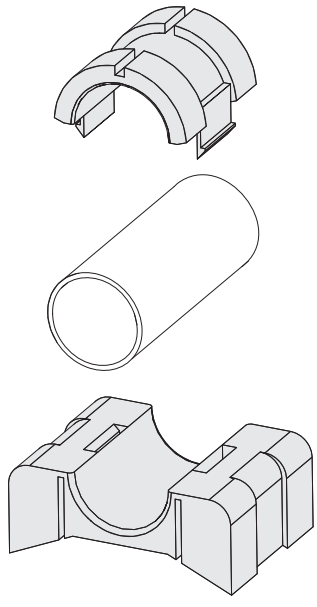
Outer Diameter of Pipes in mm		**Steel Strap Dimensions** in mm	
ØD1	**ØD2**	**Length**	**Width**
10 – 22 Depending on ØD2	50 - 70	196 - 254	13
	60 - 80	225 - 284	13
	70 - 90	254 - 314	13
	80 - 105	284 - 359	13
	90 - 120	314 - 404	13
	105 - 140	359 - 464	13
	125 - 160	419 - 525	13
	145 - 180	479 - 586	13
	165 - 200	540 - 647	13

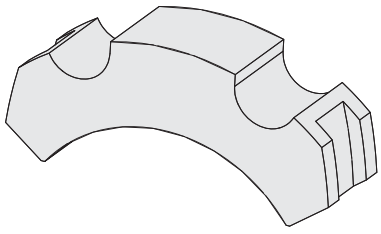
Steel Strap is not included in scope of delivery.

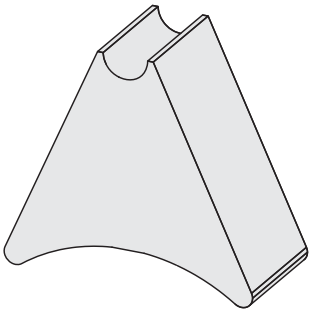




Saddle Clamps for Cylinder Supply Lines (Custom Designs)





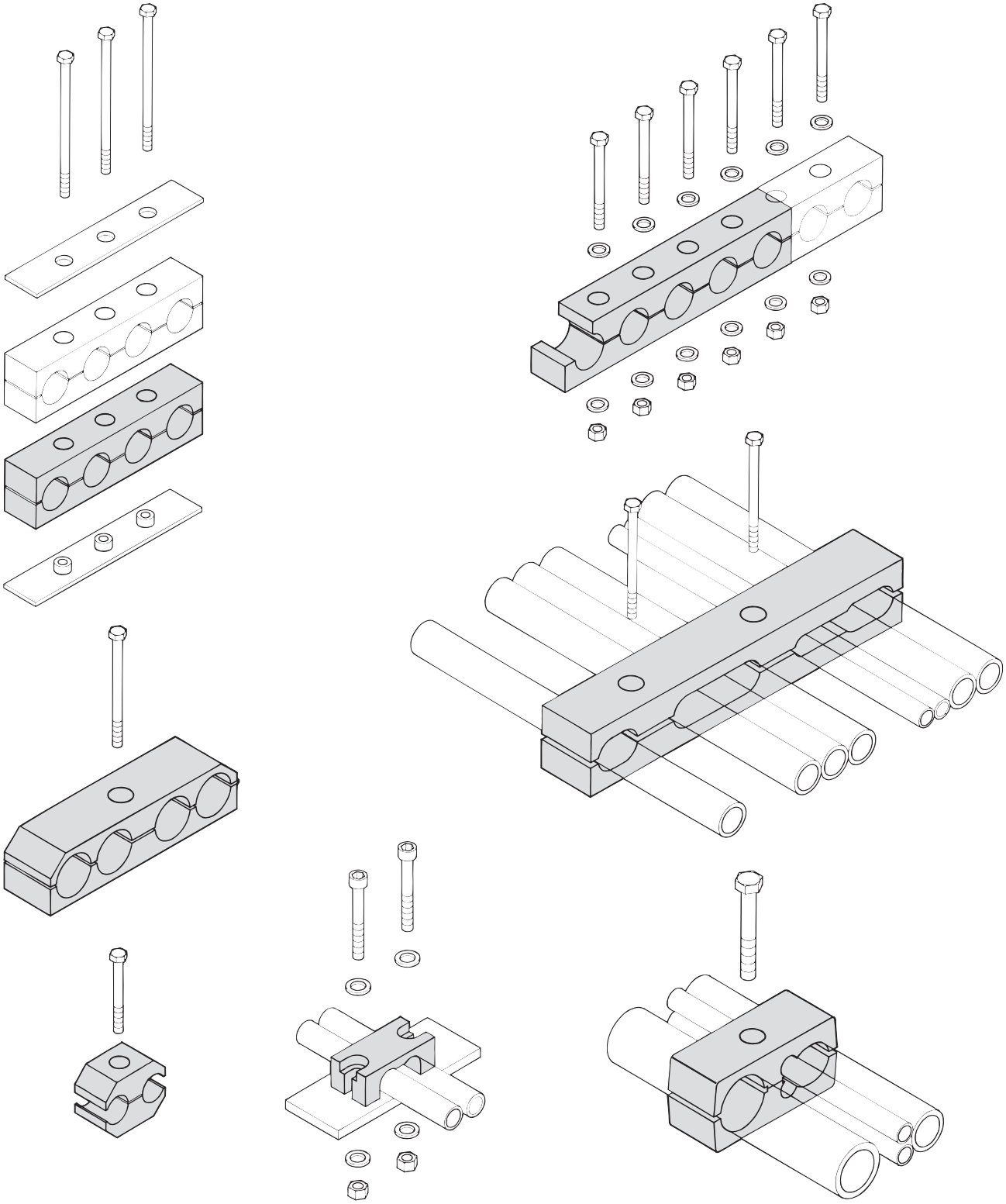


Custom-designed saddle clamps according to customer`s specifications or based on STAUFF developments are available on request.

Custom-designed pipe clamps / hose clamps in addition to the Original-STAUFF-Clamp range according to customer`s specifications or based on STAUFF developments.

MACHINED VERSION

Dimensions and designs acc. to customer's specifications.
Materials: plastics, metals, non-ferrous metals

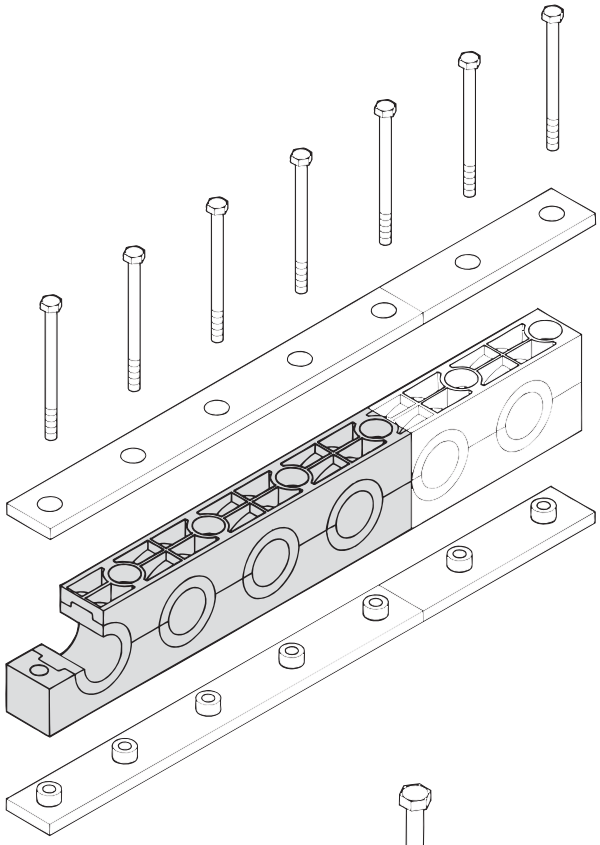


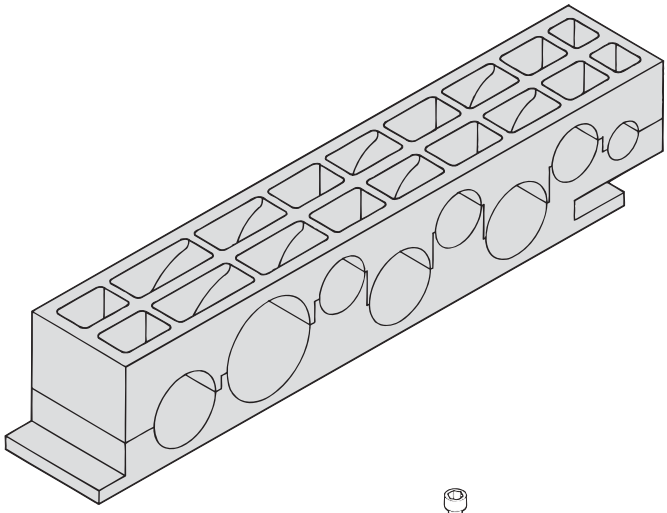
Accessories such as weld plates, cover plates, bolts as well as rubber inserts are available on request.

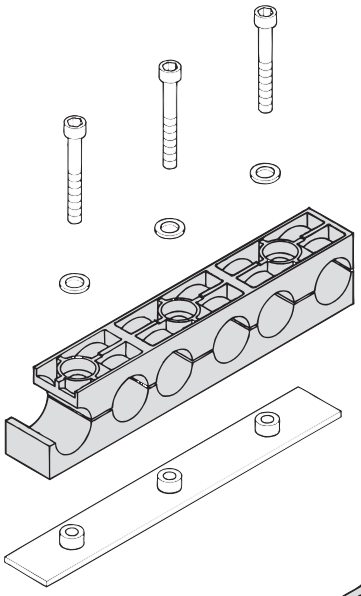
Custom-designed pipe, clamps / hose clamps in addition to the Original-STAUFF-Clamp range according to customer`s specifications or based on STAUFF developments.

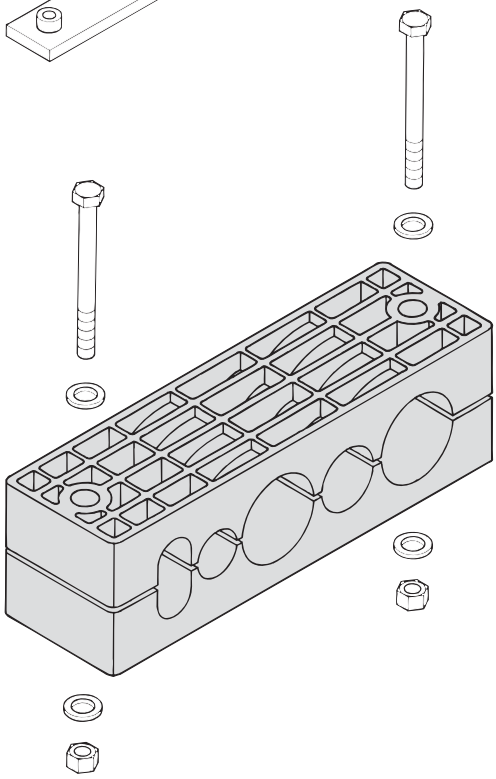
INJECTION MOULDING VERSIONS

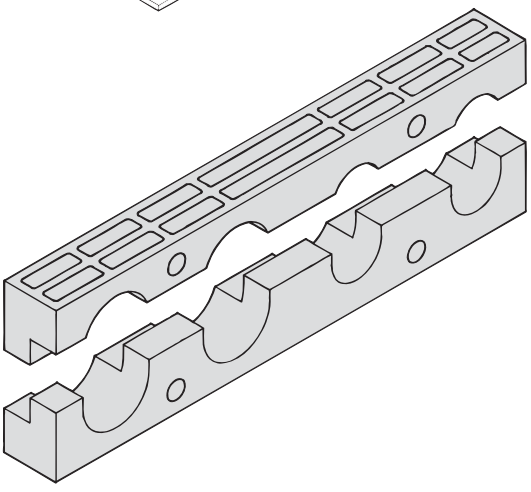
Max. dimensions: Length 1000 mm · Height 80 mm · Width 70 mm
Materials: Polypropylene, Polyamide
Other thermoplastics on request.



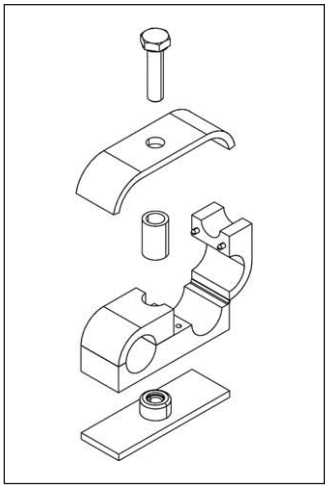








Accessories such as weld plates, cover plates, bolts as well as rubber inserts are available on request.



FEATURES

- compact design
- quick and easy installation
- vibration and noise reducing
- UV, ozone and weathering resistant

MATERIALS AND SURFACES

- Clamp Body: thermoplastic elastomer (87 Shore-A)
- Weld Plate: steel, phosphated (W2)
- Hexagon Rail: steel, untreated (W1)
- Cover Plate and Accessories: steel, zinc/nickel coated (W3)
- Further materials and surface finishings are available upon request.

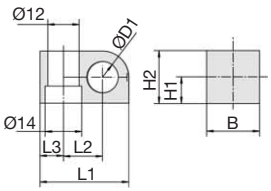
TYPES

- STAUFF Groups 1, 2 and 3: single-line clamps
- STAUFF Group 1D, 2D and 3D: double-line clamps with identical diameters, also available with different diameters (upon request)
- also available with anti-twist feature

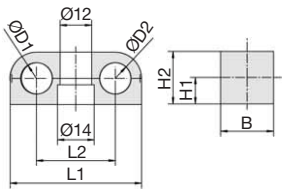
APPLICATIONS

- perfect for the vibration and noise reducing installation of pipes, tubes, hoses and cables for applications in which space is limited (Hydraulics and Pneumatics, Mechanical and Plant Engineering, Instrumentation)

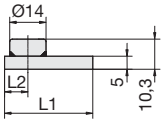
Clamp Body
Groups 1 to 3



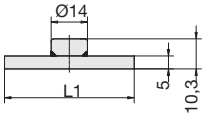
Clamp Body
Groups 1D to 3D



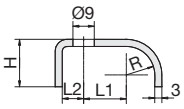
Weld Plate LBBU-SP
Groups 1 to 3



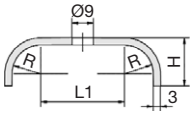
Weld Plate LBBU-SP
Groups 1D to 3D



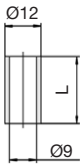
Cover Plate LBBU-DP
Groups 1 to 3



Cover Plate LBBU-DP
Groups 1D to 3D

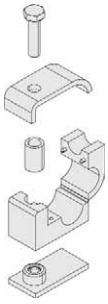


Sleeve LBBU-HUE



MATERIALS & SURFACES (Delivery Standard)		Clamp Body with Film Hinge SA 87 Shore-A						Weld Plate LBBU-SP W2 steel, phosphated				Cover Plate LBBU-DP W3 steel, zinc/nickel coated					Sleeve LBBU-HUE W3 steel, zinc/nickel coated
STAUFF Group	diameter ØD1 / ØD2 in mm (inch)	L1	L2	L3	H1	H2	B	Thread	L1	L2	Width	L1	L2	R	H	Width	L
1	6 - 6,4 (1/4) - 8 (5/16) 9,5 (3/8) - 10 - 11 12 - 12,7	34	15	9	10	20	20	M8 (UNC 5/16"-18 on request)	34	9	20	15	9	10	16	20	Type of Mounting SP: 13,5 Type of Mounting SM: 12,8 Type of Mounting PM: 18,8
2	4 - 6 - 6,4 (1/4) - 8 (5/16) 9,5 (3/8) - 10 - 11 - 12 12,7 (1/2) - 13,5 - 14 - 15 16 (5/8) - 17,2 - 18 19 (3/4) - 20	39	18	9	12	24	20	M8 (UNC 5/16"-18 on request)	39	9	20	18	9	12	20	20	Type of Mounting SP: 17,5 Type of Mounting SM: 16,8 Type of Mounting PM: 22,7
3	21,3 - 22 (7/8) - 23 25 - 25,4 (1) - 28 30 - 32 (1 1/4)	57,5	23,5	15	20	40	30	M8 (UNC 5/16"-18 on request)	57,5	15	30	23,5	15	19,5	28	30	Type of Mounting SP: 33,5 Type of Mounting SM: 32,8 Type of Mounting PM: 38,8
1D	4 - 6 - 6,4 (1/4) 8 (5/16) - 9,5 (3/8) - 10 11 - 12 - 12,7 (1/2)	50	30	-	10	20	20	M8 (UNC 5/16"-18 on request)	50	-	20	30	-	10	16	20	Type of Mounting SP: 13,5 Type of Mounting SM: 12,8 Type of Mounting PM: 18,8
2D	4 - 6 - 8 (5/16) - 9,5 (3/8) 10 - 11 - 12 - 12,7 (1/2) 13,5 - 14 - 15 - 16 (5/8) 17,2 - 18 - 19 (3/4) - 20	59	35	-	12	24	20	M8 (UNC 5/16"-18 on request)	59	-	20	35	-	12	20	20	Type of Mounting SP: 17,5 Type of Mounting SM: 16,8 Type of Mounting PM: 22,7
3D	21,3 - 22 (7/8) - 23 25 - 25,4 (1) - 28 30 - 32 (1 1/4)	86	47	-	20	40	30	M8 (UNC 5/16"-18 on request)	86	-	30	47	-	19,5	28	30	Type of Mounting SP: 33,5 Type of Mounting SM: 32,8 Type of Mounting PM: 38,8

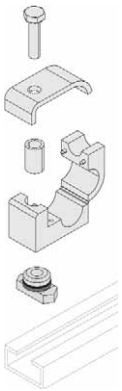
TYPE OF MOUNTING SP with Weld Plate LBBU-SP



Ordering Codes for Clamp Combinations
- example for STAUFF Group 2:
  LBBU SP 216 SA-DP-AS M8 W10
- example for STAUFF Group 2D:
  LBBU SP 216/16 SA-DP-AS M8 W10

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

TYPE OF MOUNTING SM with Hexagon Rail Nut SM



Ordering Codes for Clamp Combinations
- example for STAUFF Group 2:
  LBBU SM 216 SA-DP-AS M8 W3
- example for STAUFF Group 2D:
  LBBU SM 216/16 SA-DP-AS M8 W3

consisting of:
Hexagon Head Bolt AS
Cover Plate LBBU-DP
Sleeve LBBU-HUE
Clamp Body LBBU
Hexagon Rail Nut SM

Mounting Rail to be ordered separately.

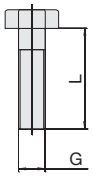
TYPE OF MOUNTING PM for Panel Mounting*

Ordering Codes for Clamp Combinations
- example for STAUFF Group 2:
  LBBU PM 216 SA-DP-AS M8 W3
- example for STAUFF Group 2D:
  LBBU PM 216/16 SA-DP-AS M8 W3

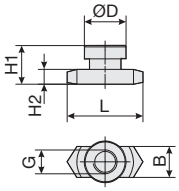
consisting of:
Hexagon Head Bolt AS
Cover Plate LBBU-DP
Sleeve LBBU-HUE
Clamp Body LBBU

without Weld Plate
without Hexagon Rail Nut

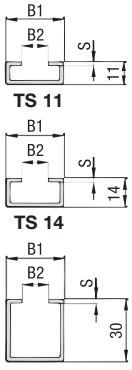
Hexagon Head Bolt AS
DIN EN 4014/4017 (DIN 931/933)



Hexagon Rail Nut SM
identical to Twin Series Hexagon Rail Nut SM 2-5D according to DIN 3015, Part 3



Mounting Rail TS



Hexagon Head Bolt AS	Hexagon Rail Nut SM						Mounting Rail TS			
W3 steel, zinc/nickel coated	**W3** steel, zinc/nickel coated						**W1** steel, untreated			
G x L	L	B	H1	H2	ØD	G	Nominal Size	B1	B2	S
Types of Mounting SP and SM: M8 x 25 (UNC 5/16"-18x1" on request) Type of Mounting PM*: M8 x 30 (UNC 5/16"-18x1"1/4 on request)	25,5	10,4	13	5	14	M8	TS 11 TS 14 TS 30	28	11	2
Types of Mounting SP and SM: M8 x 28 (UNC 5/16"-18x1"1/8 on request) Type of Mounting PM*: M8 x 35 (UNC 5/16"-18x1"3/8 on request)										
Types of Mounting SP and SM: M8 x 45 (UNC 5/16"-18x1"3/4 on request) Type of Mounting PM*: M8 x 50 (UNC 5/16"-18x2" on request))										
Types of Mounting SP and SM: M8 x 25 (UNC 5/16"-18x1" on request) Type of Mounting PM*: M8 x 30 (UNC 5/16"-18x1"1/4 on request)										
Types of Mounting SP and SM: M8 x 28 (UNC 5/16"-18x1"1/8 on request) Type of Mounting PM*: M8 x 35 (UNC 5/16"-18x1"3/8 on request))										
Types of Mounting SP and SM: M8 x 45 (UNC 5/16"-18x1"3/4 on request) Type of Mounting PM*: M8 x 50 (UNC 5/16"-18x2" on request))										

ORDERING CODES

Clamp Body **LBBU 215/15 SA M8**
- LBBU: Clamp Body LBBU
- 215/15: STAUFF Group; Diameter ØD in mm
- SA: Material
- M8: Through Hole for Bolts M8

Weld Plate **LBBU-SP 2D M8 W2**
- LBBU-SP: Weld Plate LBBU-SP
- 2D: STAUFF Group
- M8: Thread Type (M8)
- W2: Material & Surface

Cover Plate **LBBU-DP 2D M8 W3**
- LBBU-DP: Cover Plate LBBU-DP
- 2D: STAUFF Group
- M8: Through Hole for Bolts M8
- W3: Material & Surface

Sleeve **LBBU-HUE 2/2D SP M8 W3**
- LBBU-HUE: Sleeve LBBU-HUE
- 2/2D: STAUFF Group
- SP: Type of Mounting (SP, SM or PM)
- M8: Through Hole for Bolts M8
- W3: Material & Surface

Hexagon Head Bolt **AS M8x28 W3**
- AS: Hexagon Head Bolt AS
- M8x28: Bolt Dimensions G x L
- W3: Material & Surface

Hexagon Rail Nut **SM 2-5D M W3**
- SM: Hexagon Rail Nut SM
- 2-5D: Thread Type (M8)
- M: Material & Surface
- W3: Material & Surface

Mounting Rail **TS 11 - 1 W1**
- TS: Mounting Rail TS
- 11: Height in mm
- 1: Length in m (1m or 2m)
- W1: Material & Surface

MATERIAL - CLAMP BODY
SA thermoplastic elastomer (87 Shore-A)

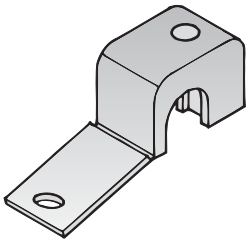
MATERIALS & SURFACES - METAL PARTS
W1 steel, untreated
W2 steel, phosphated
W3 steel, zinc/nickel coated

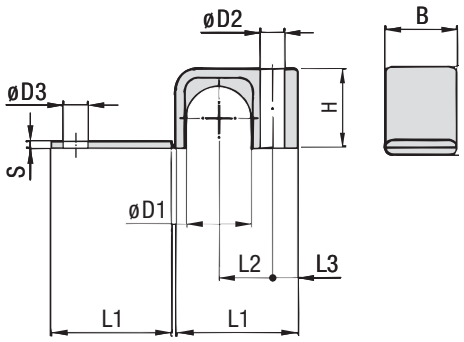
THREADS AND THROUGH HOLES
M8 Metric Thread M8 for parts without thread: through hole suitable for M8
U5/16 UNC Thread 5/16"-18 (on request) for parts without thread: through hole suitable for 5/16"-18 UNC

* Note: PM bolt lengths designed for a substructure integrated thread.

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

Type LB





STAUFF Group	Outside diameter Tube or Hose Ø D1 mm	inch	Nominal bore Pipe inch	L1	L2	L3	B	H	S	øD2	øD3	**Clamp Material XX**	Colour
1	**03,2**	1/8		22	9	6,5	12	10,5	2	6,8	7	**PP**	black
	06												
	06,4	1/4										**PA**	yellow
	08												
2	**09,5**	3/8		27	11	7	16	15	2	6,8	7	**PP**	black
	10		1/8										
	11,1											**PA**	yellow
	12												
3	**12,7**	1/2		34	15	7	20	22,5	2	6,8	7	**PP**	black
	13,5		1/4										
	14											**PA**	yellow
	15												
	16	5/8											
	17,2		3/8										
	18												
4	**19**	3/4		42	19	7	20	30	2	6,8	7	**PP**	black
	20												
	21,3		1/2									**PA**	yellow
	22												
	25												
	25,4	1											

ORDER CODE

LB * xx**

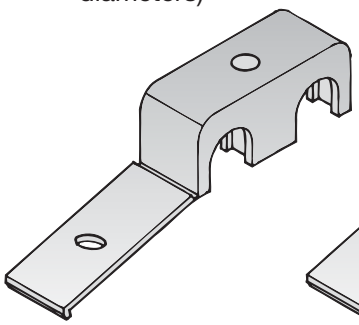
- **PP** Polypropylene
- **PA** Polyamide
- Pipe-O.D. Ø D1 (mm)
- STAUFF Group

Other thermoplastics and diameters on request.

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

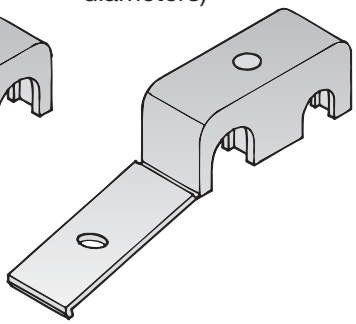
Type LBG

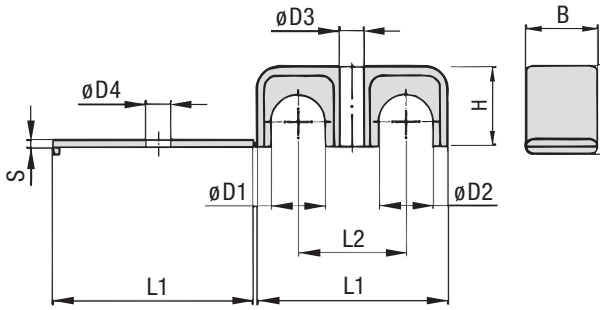
(identical diameters)



Type LBU

(different diameters)





STAUFF Group	Outside diameter Tube or Hose Ø D1/D2 mm	inch	Nominal bore Pipe inch	L1	L2	B	H	S	øD3	øD4	**Clamp Material XX**	Colour
1	**03,2/03,2**	1/8 / 1/8		31	18	12	10,5	2	6,8	7	**PP**	black
	06/06											
	06,4/06,4	1/4 / 1/4									**PA**	yellow
	08/08											
2	**09,5/09,5**	3/8 / 3/8		39	22	16	14,5	2	6,8	7	**PP**	black
	10/10		1/8 / 1/8									
	11,1/11,1										**PA**	yellow
	12/12											
3	**12,7/12,7**	1/2 / 1/2		53	30	20	22,5	2	6,8	7	**PP**	black
	13,5/13,5		1/4 / 1/4									
	14/14											
	15/15										**PA**	yellow
	16/16	5/8 / 5/8										
	17,2/17,2		3/8 / 3/8									
	18/18											
4	**19/19**	3/4 / 3/4		70	38	20	30	2	6,8	7	**PP**	black
	20/20											
	21,3/21,3		1/2 / 1/2									
	22/22										**PA**	yellow
	25/25											
	25,4/25,4	1 / 1										

ORDER CODE

LBx */** xx**

- **PP** Polypropylene
- **PA** Polyamide
- Pipe-O.D. Ø D2 (mm)
- Pipe-O.D. Ø D1 (mm)
- STAUFF Group
- **LBG** identical diameters
- **LBU** different diameters

Type

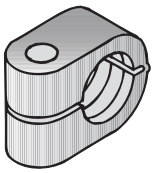
LBG Double pipe clamp for two identical diameters

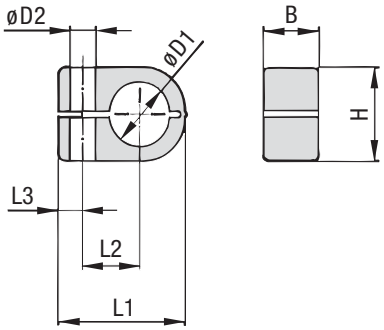
LBU Double pipe clamp for two different diameters

Other thermoplastics and diameters on request.

Applications: Pneumatics, Instrumentation and Automotive Technology, Machine Tool Industry, Lubrication, Mechanical Engineering. Also suitable for cables and hoses.

Type LN





STAUFF Group	Outside diameter Tube or Hose Ø D1 mm	inch	Nominal bore Pipe inch	L1	L2	L3	B	H	øD2	Clamp Material XX	Colour
1	06			22	9	7	14,5	13,5	6,8	PP PA	green black
	06,4	1/4									
	08										
2	08			27	11	7	14,5	18,5	6,8	PP PA	green black
	09,5	3/8									
	10		1/8								
	12										
	12,7	1/2									
3	10		1/8	33	15	7	14,5	23,5	6,8	PP PA	green black
	12										
	12,7	1/2									
	13,5		1/4								
	14										
	15										
	16	5/8									
4	14			40	19	7	14,5	30,5	6,8	PP PA	green black
	15										
	16	5/8									
	17,2		3/8								
	18										
	19	3/4									
	20										
	21,3		1/2								
	22										

ORDER CODE

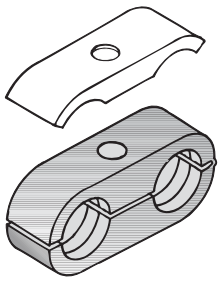
LN * xx**

- **PP** Polypropylene
- **PA** Polyamide
- Pipe-O.D. Ø D1 (mm)
- STAUFF Group

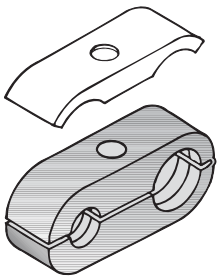
Other thermoplastics and diameters on request.

Applications: Pneumatics, Instrumentation and Automotive Technology, Machine Tool Industry, Lubrication, Mechanical Engineering. Also suitable for cables and hoses.

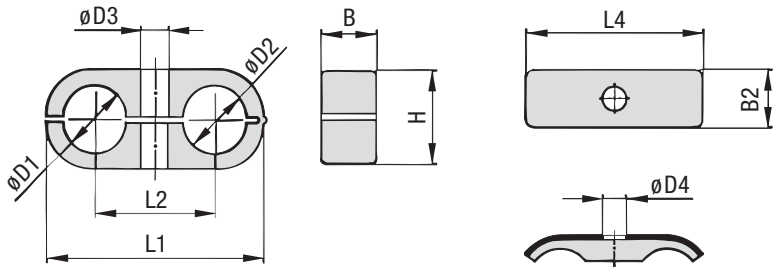
Type LNGF
(identical diameters)



Type LNUF
(different diameters)



DPL



STAUFF Group	Outside diameter Tube or Hose Ø D1/D2 mm	inch	Nominal bore Pipe inch	L1	L2	B	H	øD3	L4	B2	øD4	Clamp Material XX	Colour	Cover Plate
1	06/06			32	18	14,5	13,5	6,8	29,5	15,5	6,8	PP PA	green black	DPL1
	06,4/06,4	1/4 / 1/4												
	08/08													
2	08/08			41	22	14,5	18,5	6,8	40	15,5	6,8	PP PA	green black	DPL2
	09,5/09,5	3/8 / 3/8												
	10/10		1/8 / 1/8											
	12/12													
	12,7/12,7	1/2 / 1/2												
3	10/10		1/8 / 1/8	54	30	14,5	23,5	6,8	51	16	6,8	PP PA	green black	DPL3
	12/12													
	12,7/12,7	1/2 / 1/2												
	13,5/13,5		1/4 / 1/4											
	14/14													
	15/15													
	16/16	5/8 / 5/8												
4	14/14			70	38	14,5	30,5	6,8	63,5	16	6,8	PP PA	green black	DPL4
	15/15													
	16/16	5/8 / 5/8												
	17,2/17,2		3/8 / 3/8											
	18/18													
	19/19	3/4 / 3/4												
	20/20													
	21,3/21,3		1/2 / 1/2											
	22/22													

ORDER CODE

LNxF */** xx**

- **PP** Polypropylene
- **PA** Polyamide
- Pipe-O.D. Ø D2 (mm)
- Pipe-O.D. Ø D1 (mm)
- STAUFF Group
- **LNGF** identical diameters
- **LNUF** different diameters

Type

LNGF Double pipe clamp for two identical diameters
LNUF Double pipe clamp for two different diameters (on request only)

Accessories

Cover Plate DPL
Steel, zinc/nickel coated

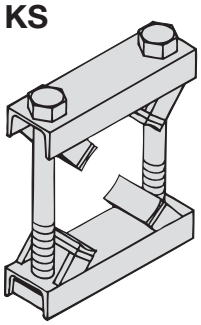
Information

Max. tightening torque: 2,5 Nm

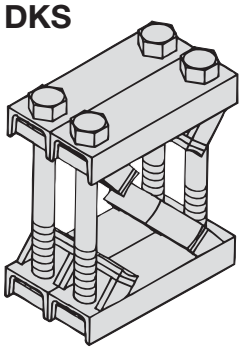
Other thermoplastics and diameters on request.

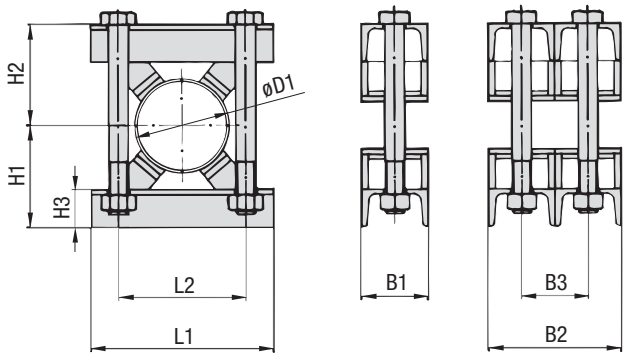
Two-part-weld-construction with plastic pads

KS

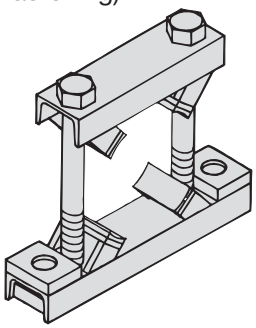


DKS

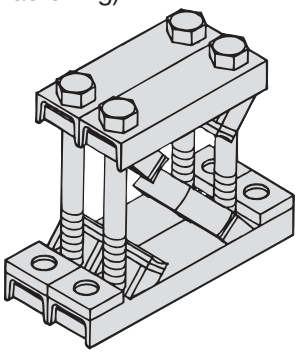


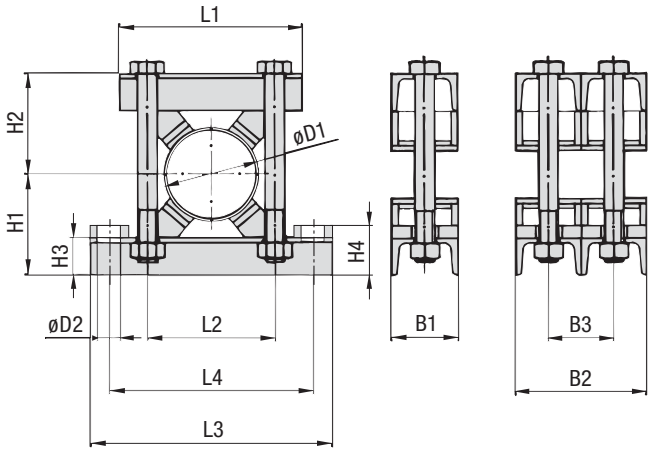


KSV
(for anchor bolt fastening)



DKSV
(for anchor bolt fastening)





Pipe-O.D. Ø D1 in mm	L1	L2	L3	L4	H1	H2	H3	H4	B1	B2	B3	D2	Hexagon Head Bolt	Number of plastic pads
220 to 275	420	330	580	490	220	220	60	90	140	290	150	35	M30 x 420	4
276 to 325	460	370	620	530	240	240	60	90	140	290	150	35	M30 x 460	4
326 to 370	510	420	670	580	260	260	60	90	140	290	150	35	M30 x 500	4
371 to 425	570	480	750	640	290	290	60	90	140	290	150	35	M30 x 560	4
426 to 485	620	530	800	730	305	305	60	90	140	290	150	35	M30 x 590	4
486 to 550	680	590	860	790	370	370	60	90	140	290	150	35	M30 x 720	4
551 to 630	760	670	940	870	410	410	60	90	140	290	150	35	M30 x 800	5
631 to 715	845	755	1025	955	452	452	60	90	140	290	150	35	M30 x 884	5
716 to 800	940	850	1120	1050	495	495	60	90	140	290	150	35	M30 x 970	5

ORDER CODES

KSx ** xx xx**

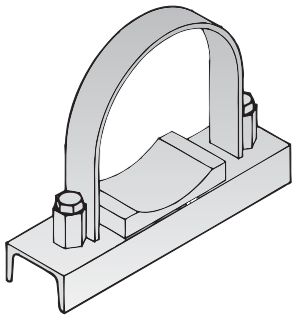
- Plastic pads Polypropylene **PP**
- Plastic pads Polyamide **PA**
- **Material and surface finishing**
  - carbon steel St 37, prime painted **W7**
  - carbon steel St37, hot-dip zinc galvanised **W40**
- **Pipe-O.D. Ø D1 (please indicate exact Ø D1)**
- **Type**
  - Normal design – no further information required
  - Anchor bolt design – **V**

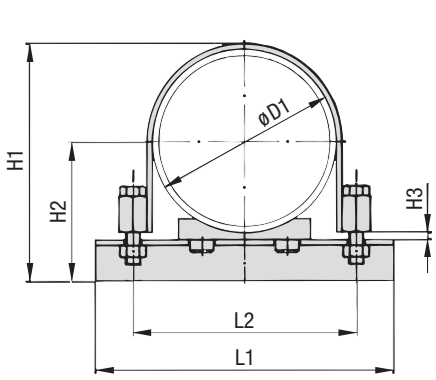
DKSx ** xx xx**

- Plastic pads Polypropylene **PP**
- Plastic pads Polyamide **PA**
- **Material and surface finishing**
  - carbon steel St 37, prime painted **W7**
  - carbon steel St37, hot-dip zinc galvanised **W40**
- **Pipe-O.D. Ø D1 (please indicate exact Ø D1)**
- **Type**
  - Normal design – no further information required
  - Anchor bolt design – **V**

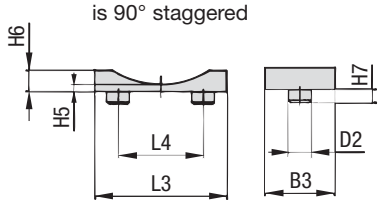
Other materials, surface finishings and diameters on request.

with plastic pipe saddle Type RUK and U-profile (to be used as fixed point clamps only!)





RUK
DN 40 dimension L4
is 90° staggered



DN	Pipe-O.D. ØD1		Flat Steel U-Bolt Clamp FB						U-profile	Plastic Pipe Saddle RUK							Accessories
	mm	Nominal Bore inch	L1	L2	H1	H2	H3	B1 Flat Steel	B2 x H4	L3	L4	B3	D2	H5	H6	H7	Hexagon Head Bolts
40	48,3	1 1/2	100	76	95	67	5	20 x 3	DIN 1026 50 x 38	24	25	35	8	5	8	5	M10 x 40
50	57		115	85	103	71,5				38	25	50	10		10	6	
	60,3	2		88	106	73,2											
65	76,1	2 1/2	132	104	122	81											
80	88,9	3	160	122	146	97,5	8	40 x 4	DIN 1026 80 x 45	75	40	70	15	8	17	10	M12 x 55
100	108		170	140	165	107											
	114,3	4	180	147	171	110											
125	133		210	165	190	119,5											
	139,7	5		172	197	123											
150	159		265	201	220	132,5		40 x 6		140	90	75	25		26		M16 x 75
	168,3	6	275	211	230	137											
175	193,7		305	236	255	150											
200	216		320	260	277	161											
	219,1	8		261	280	162,5											
250	267		380	325	328	186,5		40 x 8									M20 x 80
	273	10	385	330	334	189,5											
300	318		440	375	384	212				220	150		30		32		
	323,9	12	450	382	390	215											
350	355,6	14	480	420	421	236	12	60 x 8	DIN 1026 100 x 50	220	150	75	30	8	32	10	M24 x 100
	368		490	430	434	242											
400	406,4	16	550	470	472	261											
	419			482	485	267,5											
	457	18	585	520	523	286,5											
500	508	20	630	570	574	312											
	521		640	585	587	319											

ORDER CODES

FB + RUK complete
FB + RUK/xx ✱✱✱,✱ W1

→ **Pipe-O.D. Ø D1** (mm)
→ **PP** – Polypropylene
PA – Polyamide

Plastic Pipe Saddle
RUK ✱✱✱,✱ xx

→ **PP** – Polypropylene
PA – Polyamide
→ **Pipe-O.D. Ø D1** (mm)

Clamp consisting of: (for FB + RUK only)
1 x Flat steel U-bolt clamp
1 x RUK/xx
1 x U-profile c/w nuts
2 x Hexagon head bolts DIN EN ISO 4014/4017

Material

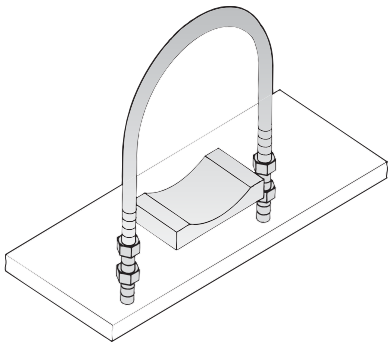
Metal parts: **W1:** carbon steel St 37, untreated

Other materials and surface finishings on request.

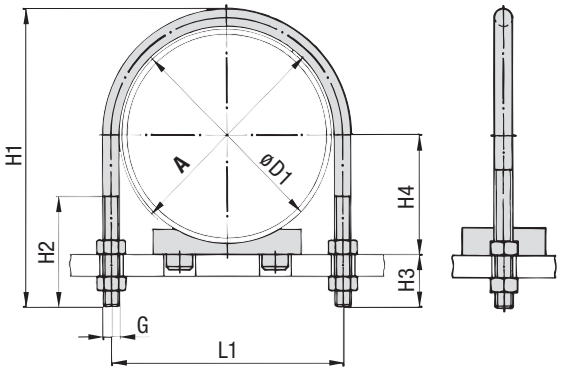
Information

Items are supplied non-assembled.

with plastic pipe saddle - short - RUK

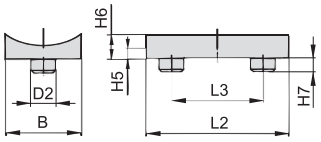


up to DN 25 without counternut

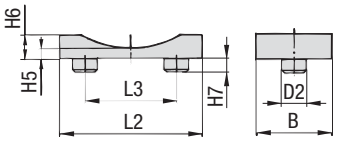


RUK

DN 20 – DN 40:



from DN 50 on:



DN	Pipe-O.D. ØD1		Round Steel U-Bolt RB							Plastic Pipe Saddle RUK						
	mm	Nominal Bore inch	A	L1	H1	H2	H3	H4	G	L2	L3	B	H5	H6	H7	D2
20	25		**30**	40	73,5	41	30	17,5	M10	35	25	24	5	8	5	8
	26,9	3/4						18,5								
25	30		**38**	48	81	48		20								
	33,7	1						22								
32	38		**46**	56	89			24								
	42,4	1 1/4						26,2								
40	44,5		**52**	62	100	55	35	27,2								
	48,3	1 1/2						29								
50	57		**64**	76	118	63	39	33,5	M12	38		50		10	6	10
	60,3	2						35,2								
65	76,1	2 1/2	**82**	94	135	77		43								
80	88,9	3	**94**	106	152	82	41	52,5								
100	108		**120**	136	190	105	49	62	M16	75	40	70	8	17	10	15
	114,3	4						65								
125	133		**148**	164	217			74,5								
	139,7	5						78								
150	159		**176**	192	247		51	87,5		140	90	75		26		25
	168,3	6						92								
175	193,7		**202**	218	273			105								
200	216		**228**	248	311	125	59	116	M20							
	219,1	8						117,5								
250	267		**282**	302	364			141,5								
	273	10						144,5								
300	318		**332**	352	418		62	167		220	150			32		30
	323,9	12						170								
350	355,6	14	**378**	402	475	145	70	186	M24							
	368							192								
400	406,4	16	**428**	452	526			211								
	419							217,5								
500	508	20	**530**	554	627			262								
	521							269								

ORDER CODES

RB + RUK complete

RB xx RUK/xx *,***

- **Pipe-O.D. ØD1** (mm)
- **PP** – Polypropylene
- **PA** – Polyamide

Material and surface finishing

carbon steel St 37, untreated	**W1**
carbon steel St 37, zinc plated, thick film passivated	**W66**
stainless steel A4 - 1.4401/1.4571 (AISI 316/316Ti)	**W5**
carbon steel St 37, plastic coated	**W6**

Clamp consisting of:
1 x Round Steel U-Bolt, 4 x Nuts DIN EN ISO 4032,
1 x Plastic Pipe Saddle RUK/xx

Round Steel U-Bolt

RB xx A * kompl**

- **Dimension A**

Material and surface finishing

carbon steel St 37, untreated	**W1**
carbon steel St 37, zinc plated, thick film passivated	**W66**
stainless steel A4 - 1.4401/1.4571 (AISI 316/316Ti)	**W5**
carbon steel St 37, plastic coated	**W6**

Clamp consisting of:
1 x Round Steel U-Bolt
4 x Nuts DIN EN ISO 4032

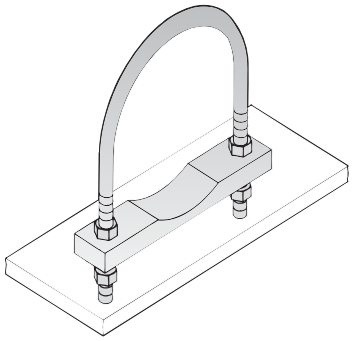
Plastic Pipe Saddle

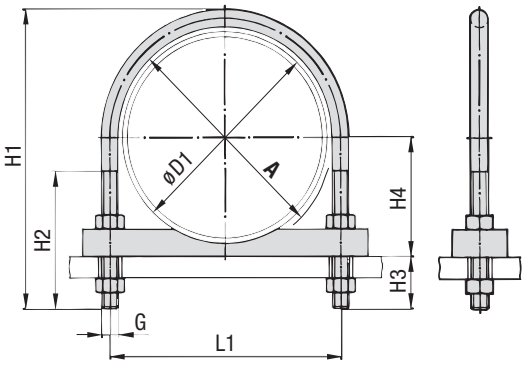
RUK *,* xx**

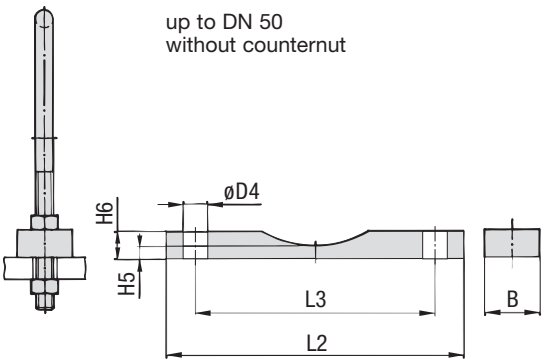
- **PP** – Polypropylene
- **PA** – Polyamide
- **Pipe-O.D. ØD1** (mm)

Information
Items are supplied non-assembled. Other materials and surface finishings on request.

with plastic pipe saddle - long - RUL







DN	Pipe-O.D. ØD1		Round Steel U-Bolt RB							Plastic Pipe Saddle RUL					
	mm	Nominal Bore inch	A	L1	H1	H2	H3	H4	G	L2	L3	B	H5	H6	øD4
20	25		**30**	40	73,5	41		17,5		75	40				
	26,9	3/4						18,5							
25	30		**38**	48	81		30	20		80	48	30		12	
	33,7	1				48		22							11
32	38		**46**	56	89			24	M10	90	56		5		
	42,4	1 1/4						26,2							
40	44,5		**52**	62	100	55	35	27,2		95	62	35		15	
	48,3	1 1/2						29							
50	57		**64**	76	118	63		33,5		110	76				
	60,3	2					39	35,2	M12						14
65	76,1	2 1/2	**82**	94	135	77		43		135	94				
80	88,9	3	**94**	106	152	82		54,5		145	106	40	10	20	
100	108		**120**	136	190			64		190	136				
	114,3	4						67							
125	133		**148**	164	217	105	47	76,5		220	164				18
	139,7	5						80	M16						
150	159		**176**	192	247			91,5		250	192	50	12	25	
	168,3	6						96							
175	193,7		**202**	218	273			109		270	218				
200	216		**228**	248	311			120		315	248				
	219,1	8				125	55	121,5							
250	267		**282**	302	364			145,5	M20	370	302				22
	273	10						148,5							
300	318		**332**	352	418			174		420	352				
	323,9	12						177							
350	355,6	14	**378**	402	475			193		480	402				
	368							199							
400	406,4	16	**428**	452	526	145	63	218				60	15	30	
	419							224,5	M24	540	452				26
500	508	20	**530**	554	627			269							
	521							276		640	554				

ORDER CODES

RB + RUL complete

RB xx RUL/xx *,***

- **Pipe-O.D. ØD1** (mm)
- **PP** – Polypropylene
- **PA** – Polyamide

Material and surface finishing

carbon steel St 37, untreated	**W1**
carbon steel St 37, zinc plated, thick film passivated	**W66**
stainless steel A4 - 1.4401/1.4571 (AISI 316/316Ti)	**W5**
carbon steel St 37, plastic coated	**W6**

Clamp consisting of:
1 x Round Steel U-Bolt, 4 x Nuts DIN EN ISO 4032,
1 x Plastic Pipe Saddle RUL/xx

Round Steel U-Bolt

RB xx A * kompl**

- **Dimension A**

Material and surface finishing

carbon steel St 37, untreated	**W1**
carbon steel St 37, zinc plated, thick film passivated	**W66**
stainless steel A4 - 1.4401/1.4571 (AISI 316/316Ti)	**W5**
carbon steel St 37, plastic coated	**W6**

Clamp consisting of:
1 x Round Steel U-Bolt
4 x Nuts DIN EN ISO 4032

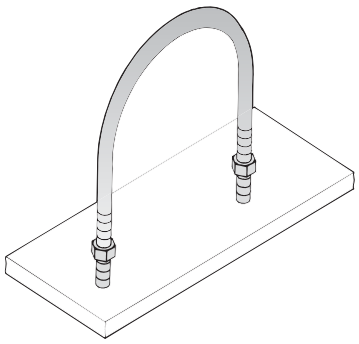
Plastic Pipe Saddle

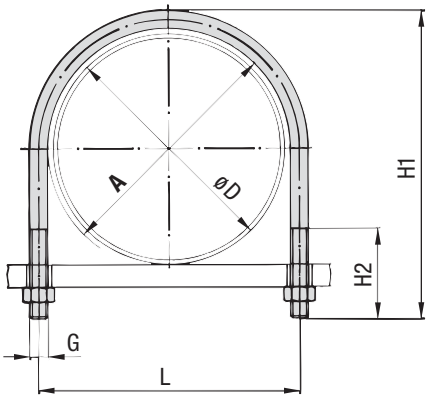
RUL *,* xx**

- **PP** – Polypropylene
- **PA** – Polyamide
- **Pipe-O.D. ØD1** (mm)

Information
Items are supplied non-assembled. Other materials and surface finishings on request.

according to **DIN 3570, Type A**





DN	Pipe-O.D. Ø D		Round Steel U-Bolt RBD				
	mm	Nominal Bore inch	**A**	L	H1	H2	G
20	25		**30**	40	70	40	M10
	26,9	3/4					
25	30		**38**	48	76		
	33,7	1					
32	38		**46**	56	86	50	
	42,4	1 1/4					
40	44,5		**52**	62	92		
	48,3	1 1/2					
50	57		**64**	76	109		M12
	60,3	2					
65	76,1	2 1/2	**82**	94	125		
80	88,9	3	**94**	106	138		
100	108		**120**	136	171	60	M16
	114,3	4					
125	133		**148**	164	191		
	139,7	5					
150	159		**176**	192	217		
	168,3	6					
175	193,7		**202**	218	249		
200	216		**228**	248	283	70	M20
	219,1	8					
250	267		**282**	302	334		
	273	10					
300	318		**332**	352	385		
	323,9	12					
350	355,6	14	**378**	402	435		M24
	368						
400	406,4	16	**428**	452	487		
	419						
500	508	20	**530**	554	589		
	521						

ORDER CODE

RBD xx A * kompl**

- **Dimension A**
- **Material and surface finishing**

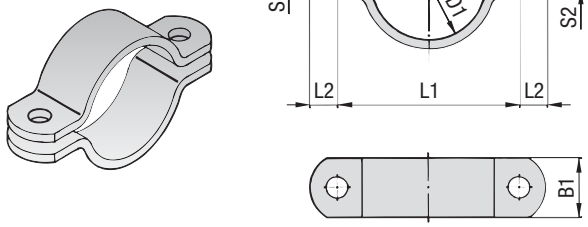
carbon steel St 37, untreated	**W1**
carbon steel St 37, zinc plated, thick film passivated	**W66**

Clamp consisting of:
1 x Round Steel U-Bolt
2 x Nuts DIN EN ISO 4032

Other materials and surface finishings on request.

Information
Items are supplied non-assembled.

according to **DIN 3567, Type A**



STAUFF Group ØD1	Nominal Size mm	Nominal Size Pipe inch	L1	L2	S1	S2	D2	B1	Accessories Hexagon Head Bolts Hexagon Nuts
20	15		57	15	5	7	11,5	30	M10 x 30 M10
22			59						
25	20		62						
27		3/4	66						
30	25		68						
34		1	72						
38	32		76						
43		1 1/4	82						
45	40		84						
49		1 1/2	88						
57	50		104	18	6	9	14	40	M12 x 35 M12
61		2	108						
77	65	2 1/2	122						
89	80	3	136						
108	100		172	24	8	11	18	50	M16 x 45 M16
115		4	178						
133	125		196						
140			204						
159	150		222						
169			232						
194	175		258						
216	200		280						
220			284						
267	250		342	30	8	14	23	60	M20 x 50 M20
273			348						
318	300		392						
324			398						
368	350		444						
407	400		498	36	10	18	27	70	M24 x 60 M24
419			510						
521	500		614						

ORDER CODE

DIN 3567 A - ★★★ xx

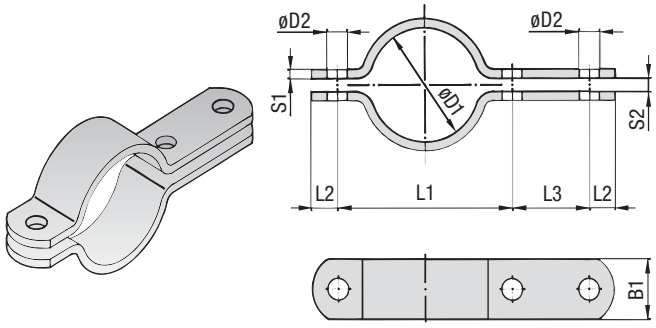
- ★★★ → Material and surface finishing
- xx → STAUFF Group ØD1

MATERIAL AND SURFACE FINISHING

STAUFF Group 20 – 521 **W1** carbon steel St 37, untreated
1 clamp is consisting of 2 clamp halves

Other materials, surface finishings and diameters on request.
Bolts and nuts do not belong to the delivery standard.

according to **DIN 3567, Type B**



STAUFF Group ØD1	Nominal Size mm	Nominal Size Pipe inch	L1	L2	L3	S1	S2	D2	B1	Accessories Hexagon Head Bolts Hexagon Nuts
20	15		57	15	46	5	7	11,5	30	M10 x 30 M10
22			59							
25	20		62							
27		3/4	66							
30	25		68							
34		1	72							
38	32		76							
43		1 1/4	82							
45	40		84							
49		1 1/2	88							
57	50		104	18	54	6	9	14	40	M12 x 35 M12
61		2	108							
77	65	2 1/2	122							
89	80	3	136							
108	100		172	24	70	8	11	18	50	M16 x 45 M16
115		4	178							
133	125		196							
140			204							
159	150		222							
169			232							
194	175		258							
216	200		280							
220			284							
267	250		342	30	86	8	14	23	60	M20 x 50 M20
273			348							
318	300		392							
324			398							
368	350		444							
407	400		498	36	104	10	18	27	70	M24 x 60 M24
419			510							
521	500		614							

ORDER CODE

DIN 3567 B - ★★★ xx

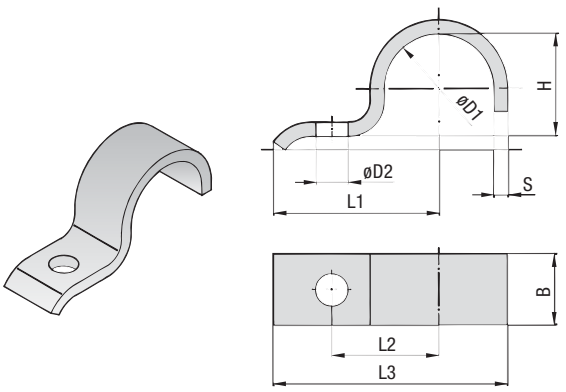
- ★★★ → Material and surface finishing
- xx → STAUFF Group ØD1

MATERIAL AND SURFACE FINISHING

STAUFF Group 20 – 521 **W1** carbon steel St 37, untreated
1 clamp is consisting of 2 clamp halves

Other materials, surface finishings and diameters on request.
Bolts and nuts do not belong to the delivery standard.

according to **DIN 1592**



STAUFF Group ØD1	Diameter range	L1	L2	L3	H	D2	B	S
7	5,5 – 7	22	14	27,5	5	6,6	16	2
9	7 – 9	27	18	33,5	6		20	
13	9,5 – 13	40	25	49,5	9	11	25	3
15,5	13 – 15,5	41	26	52	12			
19	15,5 – 19	43	28	55,5	15			
23	20 – 23	51	35	67	19	14	30	5
26	23 – 26	52	36	70	22			
28,5	26 – 28,5	53	37	73	24			
31	28,5 – 31	55	39	75,5	27			
36	33 – 36	57	41	81	32	14	40	5
39	36 – 39	59	43	83,5	34			
43	39 – 43	68	48	94,5	38	18		
46	43 – 46	70	50	98	41			
49	46 – 49	73	53	105,5	44	18	40	8
52*	49 – 52	76	56	110	47			
58	53 – 58	78	58	115	52			
61	58 – 61	80	60	118,5	57			

* similar to DIN 1592

ORDER CODE

DIN 1592 - * xx**

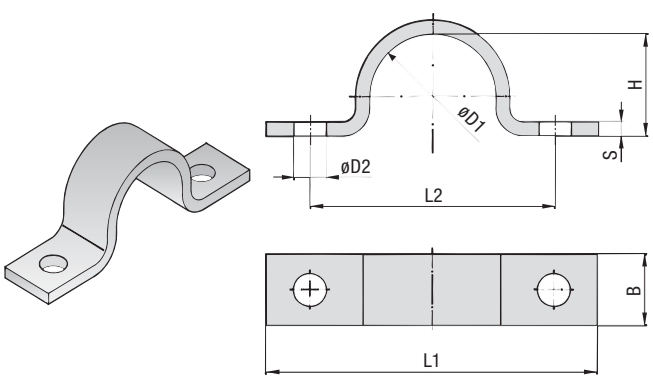
- *** → STAUFF Group ØD1
- xx → Material and surface finishing

MATERIAL AND SURFACE FINISHING

STAUFF Group 7 – 49	**W66**	carbon steel St 37, zinc plated, thick film passivated
STAUFF Group 52 – 61	**W1**	carbon steel St 37, untreated (Surface finishing on request only)

Other materials, surface finishings and diameters on request.

according to **DIN 1593**



STAUFF Group ØD1	Diameter range	L1	L2	H	D2	B	S
7	5,5 – 7	44	28	5	6,6	16	2
9	7 – 9	48	32	6	6,6	20	2
13	9,5 – 13	52	36	9			
15,5	13 – 15,5	56	40	12			
19	15,5 – 19	60	44	15			
23	20 – 23	82	56	19	11	25	3
26	23 – 26	84	58	22			
28,5	26 – 28,5	90	64	24			
31	28,5 – 31			27			
36	33 – 36	106	80	32	11	30	5
39	36 – 39	110	84	34			
43	39 – 43	120	88	38	14		
46	43 – 46	122	90	41			
49	46 – 49			44			
58	53 – 58	142	110	52	14	40	5
61	58 – 61			57			
71	67 – 71	152	120	66			
77	73 – 77	176	136	72	18		
81	77 – 81	184	144	76			
91	86 – 91	198	158	85	18	40	8
103	99 – 103	214	174	98			
109	105 – 109	220	180	104			
115	110 – 115	226	186	109			

ORDER CODE

DIN 1593 - * xx**

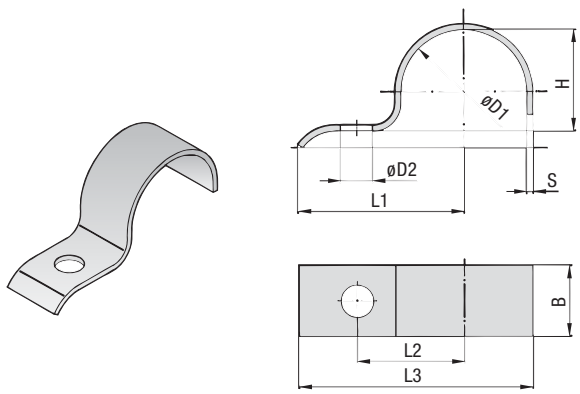
- *** → STAUFF Group ØD1
- xx → Material and surface finishing

MATERIAL AND SURFACE FINISHING

STAUFF Group 7 – 77	**W66**	carbon steel St 37, zinc plated, thick film passivated
STAUFF Group 81 – 115	**W1**	carbon steel St 37, untreated (Surface finishing on request only)

Other materials, surface finishings and diameters on request.

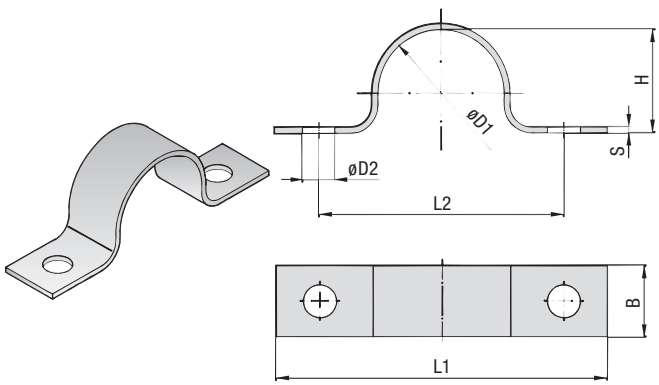
according to **DIN 1596**



STAUFF Group ØD1	Diameter range	L1	L2	L3	H	D2	B	S
7	5,5 – 7	26	14	31,5	5	6,6	16	2
9	7 – 9	28	16	34,5	6			
13	9,5 – 13	30	18	38,5	9	6,6	20	2
15,5	13 – 15,5	32	20	41,75	12			
19	15,5 – 19	34	22	45,5	15			
23	20 – 23	43	28	57,5	19	9	25	3
26	23 – 26	44	29	60	22			
28,5	26 – 28,5	47	32	64,25	24			
31	28,5 – 31			65,5	27			
33*	31 – 33	56	36	75,5	29			
36	33 – 36	57	40	78	32	11	30	3
39	36 – 39	59	42	81,5	34			
43	39 – 43	61	44	85,5	38			
46	43 – 46	62	45	88	41			
49	46 – 49	67	48	95,5	44	14	40	4
52*	49 – 52	72	53	102	47			
58	53 – 58	74	55	107	52			
61	58 – 61	77	58	111,5	56			

* similar to DIN 1596

according to **DIN 1597**



STAUFF Group ØD1	Diameter range	L1	L2	H	D2	B	S
7	5,5 – 7	44	28	5	5,5	16	1,5
9	7 – 9	48	32	6			
13	9,5 – 13	52	36	9			
15,5	13 – 15,5	56	40	12			
19	15,5 – 19	60	44	15			
23	20 – 23	76	56	19	6,6	20	2
26	23 – 26	78	58	22			
28,5	26 – 28,5	84	64	24			
31	28,5 – 31			27			
33*	31 – 33	92	72	29			
36	33 – 36	104	80	32	9	25	3
39	36 – 39	108	84	34			
43	39 – 43	112	88	38			
46	43 – 46	114	90	41			
49	46 – 49	118	90	44	11	30	3
52*	49 – 52	134	106	47			
58	53 – 58	138	110	52			
61	58 – 61			56			

* similar to DIN 1597

ORDER CODE

DIN 1596 - ★★★ xx

- ★★★ → STAUFF Group ØD1
- xx → Material and surface finishing

MATERIAL AND SURFACE FINISHING

STAUFF Group 7 – 61 **W66** carbon steel St 37, zinc plated, thick film passivated

Other materials, surface finishings and diameters on request.

ORDER CODE

DIN 1597 - ★★★ xx

- ★★★ → STAUFF Group ØD1
- xx → Material and surface finishing

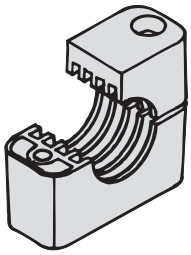
MATERIAL AND SURFACE FINISHING

STAUFF Group 7 – 61 **W66** carbon steel St 37, zinc plated, thick film passivated

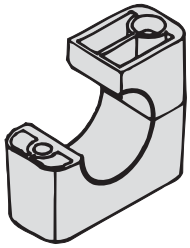
Other materials, surface finishings and diameters on request.

Design of Clamp Bodies

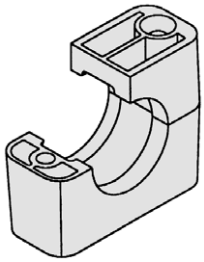
STANDARD SERIES



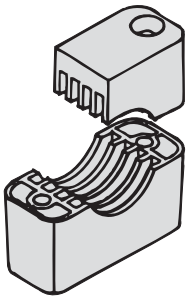
Standard design
– profiled inside –



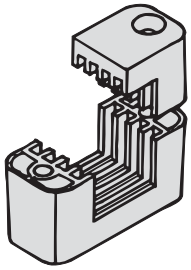
H-design
– smooth inside –
(recommended for hoses)



RI-design
for rubber inserts

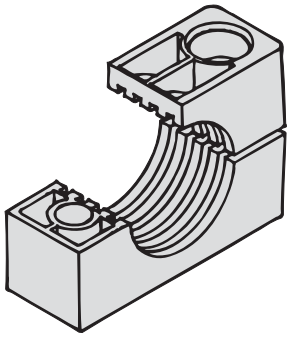


Oval design

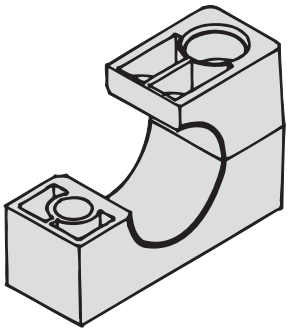


Rectangular design

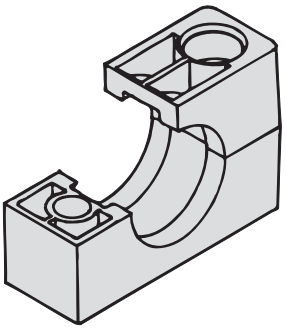
HEAVY SERIES



Standard design
– profiled inside –

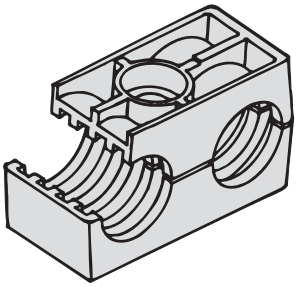


H-design
– smooth inside –
(recommended for hoses)

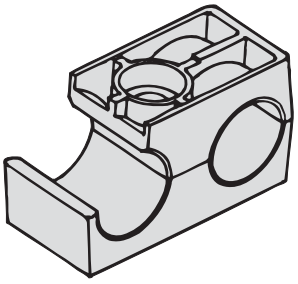


RI-design
for rubber inserts

TWIN SERIES



Standard design
– profiled inside –



H-design
– smooth inside –
(recommended for hoses)

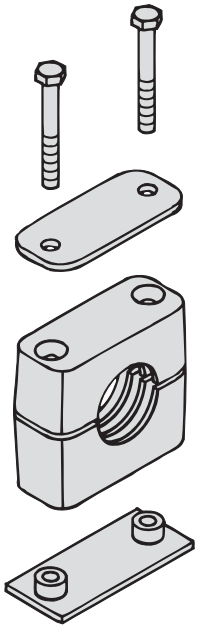
Installation Information

INSTALLATION ON WELD PLATES

STAUFF weld plates are available for the following Series:

– Standard Series
– Heavy Series
– Twin Series
– Special Clamps

For best alignment of STAUFF clamps it is recommended to mark their location first.
Weld plates, push on bottom half of clamp, install pipe, mount top half of clamp and cover plate and bolt unit together.
In order to avoid damage to the clamp bodies it is recommended to mount the plastic clamp bodies after having welded the weld plates.

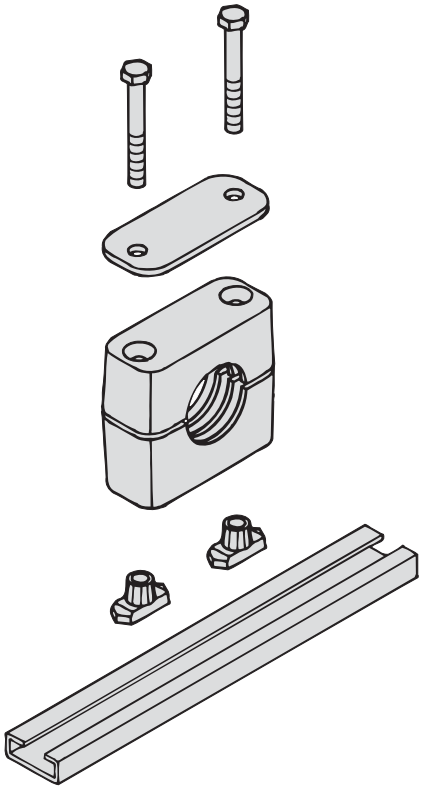


INSTALLATION ON MOUNTING RAILS

STAUFF mounting rails can be used with the following Series:

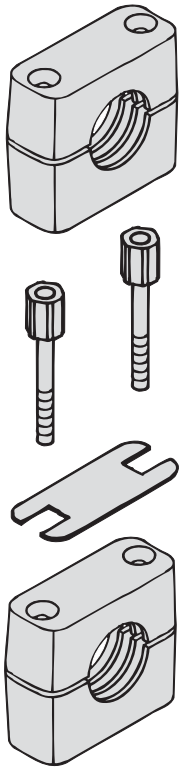
– Standard Series
– Heavy Series (Group 3S – 6S)
– Twin Series
– Special Clamps

STAUFF mounting rails are available in four different height sizes.
The rails are either welded or bolted to the supporting construction.
For Standard and Twin Series insert hexagon rail nut and turn to lock.
For Heavy Series slide in rail nut.
Push on bottom half of clamp, install pipe, mount top half of clamp and cover plate and bolt unit together.
Clamp units can be adjusted before being firmly bolted.



MULTI-LEVEL ASSEMBLY

STAUFF multi-level pipe clamps permit easy stacking of several tubes or pipes of the same group.
(Twin Clamps group 2 – 5 allow stacking of different group sizes.)
The clamps are connected by stacking bolts (AF).
Safety plates (SIG/SIP/SI) inserted between the clamps prevent stacking bolts from turning.
STAUFF stacking assembly can be fitted to weld plates or to rails.



Standard Materials: Properties and Technical Information

CLAMP BODIES				
MATERIAL	**PP**	**PA**	**AL**	**SA**
	POLYPROPYLENE Copolymeric	**POLYAMIDE** *1	**ALUMINIUM** AlSi12	**THERMOPLASTIC ELASTOMER**
COLOUR	**GREEN**	**BLACK**	**NATURAL**	**BLACK**
MECHANICAL PROPERTIES				
Tensile E-Module	1073 N/mm² (ISO 527)	> 1400 N/mm² (ISO 527)	> 65000 N/mm²	113 N/mm² at 23°C (ASTM D 412)
Notch Impact Strength	7,5 kJ/m² at 23°C (acc. to Charpy / ISO 179/1eA)	> 15 kJ/m² at 23°C (acc. to Charpy / ISO 179/1eA)	- - -	- - -
Low Temperature Notch Impact Strength	3,1 kJ/m² at -30°C (acc. to Charpy / ISO 179/1eA)	> 3 kJ/m² at -30°C (acc. to Charpy / ISO 179/1eA)	- - -	- - -
Tensile Strength at Yield (Tensile Strength)	25 N/mm² (ISO 527)	> 55 N/mm² (ISO 527)	> 150 N/mm² (DIN EN 10002)	15,9 N/mm² (ASTM D 412)
Ball Indentation Hardness (Brinell Hardness)	45,4 N/mm² (ISO 2039-1)	> 65 N/mm² (ISO 2039-1)	> 55 HBS	- - -
Shore Hardness	- - -	- - -	- - -	87A (ISO 868)
THERMAL PROPERTIES				
Recommended Temperature Range (Minimum / Maximum)	-30°C ... +90°C	-40°C ... +120°C	up to 300°C *2	-40°C ... +125°C
CHEMICAL PROPERTIES				
Weak Acids, Solvents	conditionally consistent	conditionally consistent	conditionally consistent	consistent
Benzine, Mineral Oils	conditionally consistent	consistent	consistent	conditionally consistent
Alcohol, Other Oils, Seawater	consistent	consistent	consistent	consistent

NOTES

*1 The stated information has been defined for conditions according to ISO 1110.

*2 Tensile strengths, fatigue strength (under reversed bending stress) and impact bending toughness rise constantly at decreasing temperature level, the breaking elongation normally decreases at a decreasing temperature level.

The above stated information is shown without any obligation and does not release you from own test arrangements. Tightening Torques and Maximum Loads need to be considered (see page 55).

METAL PARTS

Unless otherwise stated, all metal parts are made of carbon steel St37, surface finishing according to order code.

Surface Finishings
In addition to the standard surface finishings stated (if zinc/nickel coated usually Fe/Zn Ni (12...16) 4/A/T2 according to DIN 50962, if phosphated usually Fe/Znph r 10 according to DIN EN 12476) several alternative finishings are also available on request.

Stainless Steel Metal Parts
All metal parts are also **available ex stock** in two different stainless steel qualities:

Stainless Steel	A2 - 1.4301/1.4305 (AISI 304/303)
Stainless Steel	A4 - 1.4401/1.4571 (AISI 316/316Ti)

Threads
All threaded parts are available with UNC-threads on request (see thread-chart on page 54).

Special Materials: Properties and Technical Information

CLAMP BODIES			
PAVO	**PA-FF**	**PPDA**	**PP6853**
POLYAMIDE *1	**POLYAMIDE** *1	**POLYPROPYLENE**	**POLYPROPYLENE**
GREY	**BLACK**	**WHITE**	**WHITE**
MECHANICAL PROPERTIES			
1500 N/mm² (ISO 527-1/-2)	1100 N/mm² (ISO 527-1/-2)	2200 N/mm² (ISO 527 / bei 23°C 50 mm/min)	1440 N/mm² (ICE 60811-1-1)
35 kJ/m² at 23°C (acc. to Charpy / ISO 179/1eA)	20 kJ/m² at 23°C (acc. to Charpy / ISO 179/1eA)	11,8 kJ/m² at 23°C (acc. to IZOD / ISO 180/1A)	16 kJ/m² at 23°C (acc. to IZOD / ISO 179/1eU)
- - -	- - -	4,9 kJ/m² bei -25°C (acc. to IZOD / ISO 180/1A)	- - -
45 N/mm² (ISO 527-1/-2)	50 N/mm² (ISO 527-1/-2)	15,1 N/mm² (ISO 527 / bei 23°C 50 mm/min)	20,4 N/mm² (ICE 60811-1-1)
100 N/mm² (ISO 2039-1)	100 N/mm² (ISO 2039-1)	- - -	- - -
- - -	- - -	- - -	- - -
THERMAL PROPERTIES			
-30°C ... +120°C	-30°C ... +120°C	-25°C ... +90°C	-25°C ... +90°C
SPECIAL PROPERTIES			
PREVENTIVE FIRE PROTECTION **Tested and approved according to UL94 ("Vertical Burning Test")** - classification: 94V-0 (thickness: 0,4mm) **Tested and approved according to DIN 5510, Part 2** - combustibility classification: S3 - smoke development classification: SR2 - dripping classification: ST2 **Tested and approved according to NF F 16-101** - classification: I3 / F2	**PREVENTIVE FIRE PROTECTION** **Tested and approved according to DIN 5510, Part 2** - combustibility classification: S4 - smoke development classification: SR2 - dripping classification: ST2	**PREVENTIVE FIRE PROTECTION** **Tested and approved according to Def Stan 07-247** - assessment: category B **Approved by the UK MoD**	**PREVENTIVE FIRE PROTECTION** **Tested and approved according to BS 6853** - assessment: category 1a **Compliant with the requirements of London Underground / Metronet** (standard 2-01001-002: "Fire Safety Performance of Materials") **Tested and approved according to DIN 5510, Part 2** - combustibility classification: S3 - smoke development classification: SR2 - dripping classification: ST2 **Tested and approved according to Def Stan 07-247** - assessment: category B

NOTES

*1 The stated information has been defined for conditions according to ISO 1110.

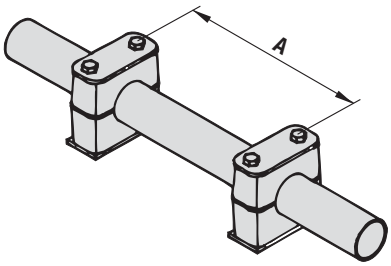
STANDARD PROPERTY CLASSES FOR BOLTS AND SCREWS

Unless otherwise stated, the following property classes apply as standad for bolts and screws offered by STAUFF:

Bolt type	Designation	Material and surface finishings	Standard property class
Hexagon Head Bolt	AS	W1, W2, W3	8.8
		W4	A2-70
		W5	A4-70
Socket Cap Screw	IS	W1, W2, W3	8.8
		W4	A2-70
		W5	A4-70
Slotted Head Screws	LI	W1, W2, W3	4.8
		W4	A2-70
		W5	A4-70

This information indicates the minimum requirements.
Higher property classes are tolerable and available on request.
Please consult STAUFF for further information.

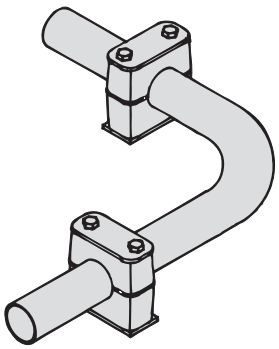
RECOMMENDED DISTANCE BETWEEN CLAMPS



The recommended distances between clamps stated below are standard values and are valid for static loads.

Pipe-O.D. [mm]	Distance A [m]	Pipe-O.D. [mm]	Distance A [m]
6,0 – 12,7	1,0	114,0 – 168,0	5,0
12,7 – 22,0	1,2	168,0 – 219,0	6,0
22,0 – 32,0	1,5	219,0 – 324,0	6,7
32,0 – 38,0	2,0	324,0 – 356,0	7,0
38,0 – 57,0	2,7	356,0 – 406,0	7,5
57,0 – 75,0	3,0	406,0 – 419,0	8,2
75,0 – 76,1	3,5	419,0 – 508,0	8,5
76,1 – 88,9	3,7	508,0 – 521,0	9,0
88,9 – 102,0	4,0	521,0 – 558,0	10,0
102,0 – 114,0	4,5	558,0 – 800,0	12,5

BASIC MOUNTING INSTRUCTIONS



Pipe bends should be supported by STAUFF clamps as near to the bends as possible.

Furthermore, it is recommended to design these clamps as fixed point clamps.

The first clamp should be placed directly behind the threaded connection or coupling. This protects the threaded connection or coupling from vibrations.

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

THREAD CHART

Metric vs. UNC Thread

STANDARD SERIES

STAUFF Group	Metric Thread	UNC Thread
1	M 6	1/4 – 20 UNC
1A		
2		
3		
4		
5		
6		
7		
8		

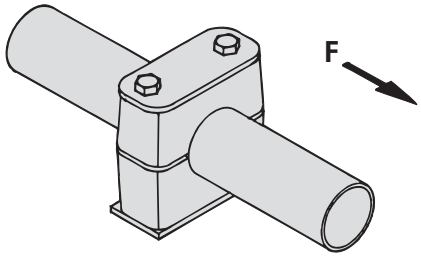
HEAVY SERIES

STAUFF Group	Metric Thread	UNC Thread
3S	M 10	3/8 – 16 UNC
4S		
5S		
6S	M 12	7/16 – 14 UNC
7S	M 16	5/8 – 11 UNC
8S	M 20	3/4 – 10 UNC
9S	M 24	7/8 – 9 UNC
10S	M 30	1 1/8 – 7 UNC
11S	M 30	1 1/4 – 7 UNC
12S		

TWIN SERIES

STAUFF Group	Metric Thread	UNC Thread
1D	M 6	1/4 – 20 UNC
2D	M 8	5/16 – 18 UNC
3D		
4D		
5D		

Tightening Torques And Maximum Loads In Pipe Direction



All tightening torques and maximum loads in pipe direction refer to clamps with cover plates and hexagon head bolts acc. to DIN EN ISO 4014/4017 (DIN 931/933).

The max. load in pipe direction (acc. to DIN 3015, part 10) is an average value, determined by three tests at 23° C with a steel pipe acc. to DIN EN 10220, St 37 – rolled surface – taking static friction into consideration.

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

STANDARD SERIES (according to DIN 3015, part 1)

STAUFF Group	Hexagon Head Bolt DIN EN ISO 4014/4017 (DIN 931/933)	Polypropylene		Polyamide		Aluminum	
		Tightening torque [Nm]	Max. load in pipe direction F [kN]	Tightening torque [Nm]	Max. load in pipe direction F [kN]	Tightening torque [Nm]	Max. load in pipe direction F [kN]
1	M 6	8	0,6	10	0,6	12	3,5
1 A		8	1,1	10	0,7	12	4,2
2		8	1,3	10	0,8	12	4,3
3		8	1,4	10	1,6	12	4,9
4		8	1,5	10	1,7	12	5,0
5		8	1,9	10	2,0	12	7,3
6		8	2,0	10	2,5	12	8,9

HEAVY SERIES (according to DIN 3015, part 2)

STAUFF Group	Hexagon Head Bolt DIN EN ISO 4014/4017 (DIN 931/933)	Polypropylene		Polyamide		Aluminum	
		Tightening torque [Nm]	Max. load in pipe direction F [kN]	Tightening torque [Nm]	Max. load in pipe direction F [kN]	Tightening torque [Nm]	Max. load in pipe direction F [kN]
3 S	M 10	12	1,6	20	4,2	30	12,1
4 S		12	2,9	20	4,5	30	15,1
5 S		15	3,3	25	5,1	35	15,5
6 S	M 12	30	8,2	40	9,3	55	29,4
7 S	M 16	45	11,0	55	15,8	120	34,9
8 S	M 20	80	14,0	150	21,0	220	50,0
9 S	M 24	110	28,0	200	32,0	250	70,6
10 S	M 30	180	40,0	350	48,0	500	84,5
11 S		200	119,0	370	125,0	500	181,5
12 S		270	168,0	450	180,0	600	244,5

TWIN SERIES (according to DIN 3015, part 3)

STAUFF Group	Hexagon Head Bolt DIN EN ISO 4014/4017 (DIN 931/933)	Polypropylene		Polyamide	
		Tightening torque [Nm]	Max. load in pipe direction F [kN]	Tightening torque [Nm]	Max. load in pipe direction F [kN]
1 D	M 6	5	0,9	5	0,9
2 D	M 8	12	2,1	12	2,2
3 D		12	1,9	12	2,0
4 D		12	2,7	12	2,9
5 D		8	1,7	8	2,5

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