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1 TYPE OF INSTALLATION *11		3 MATERIAL & DESIGN OF CLAMP BODY *1		4 MOUNTING & FITTING COMBINATION *11		7 ASSEMBLING & PACKAGING
no code without mounting plate, rail adaptor or rail nuts		PP Polypropylene, profiled inside, with tension clearance		DPAL - AS Single Cover Plate / Hexagon Head Bolt		no code components supplied separately (standard)
SPAL Weld Plate for Single Clamps		PPH*2 Polypropylene, smooth inside, without tension clearance		DPAS - AS Double Cover Plate / Hexagon Head Bolt		A assembled (optional)
SPAS Weld Plate for Double Clamps		PA Polyamide, profiled inside, with tension clearance		DPAS - IS Cover Plate / Socket Cap Screw		K packed in kits (optional)
SPAL/DUB Elongated Weld Plate for Single Clamps		PAH*2 Polyamide, smooth inside, without tension clearance		IS *2 Socket Cap Screw		
CRA *2 *3 Channel Rail Adaptor		SA*10 Santoprene, profiled inside, with tension clearance		SIP - AF *4 Safety Locking Plate / Stacking Bolt		
GMV *2 Mounting Rail Nut		SAH*10 Santoprene, smooth inside, without tension clearance				
		AL Aluminium, profiled inside, with tension clearance				
2 STAUFF GROUP & SIZE OF CLAMP BODY		2 STAUFF GROUP & SIZE OF CLAMP BODY CONTINUATION		5 TYPE OF THREAD *5		6 MATERIAL & SURFACE FINISHING OF METAL PARTS *6
Group Tube O.D. in mm Tube O.D. in inch Nominal Bore Pipe Hose Material Code Clamp Body (both halves)		Group Tube O.D. in mm Tube O.D. in inch Nominal Bore Pipe Hose Material Code Clamp Body (both halves)		M Metric Thread		W1 all parts are untreated
STAUFF 3S DIN 1		STAUFF 6S DIN 4		U UNC Thread		W2 all parts are phosphated
6 3006		37,8 1 6037,8 *7				W3 all parts are zinc plated
6,4 1/4 3006,4		42,2 1 1/4 6042,2				W4 all metal parts made of stainless steel A2 - 1.4301/1.4305 (AISI 304)
8 3008		44,5 1 1/4 6044,5				W5 all metal parts made of stainless steel A4 - 1.4401/1.4571 (AISI 316/316Ti)
9,5 3/8 3009,5		48,3 1 1/2 6048,3				W10 weld plate phosphated, all other parts zinc plated
10 3010		48,4 1 1/4 6048,4 *7				W12 weld plate and cover plate phosphated, bolts untreated
12 3012		50,8 2 6050,8 *7				W13 rail nut zinc plated, cover plate phosphated, bolts untreated
12,7 1/2 3012,7		54,4 1 1/2 6054,4 *7				W15 weld plate and cover plate phosphated, bolts zinc plated
13,7 3/4 3013,7		57,2 2 1/4 6057,2				W16 rail nut zinc plated, cover plate phosphated, bolts zinc plated
14 3014		60,3 2 6060,3				W17 safety locking plate phosphated, stacking bolts zinc plated
15 3015		63,5 2 1/2 6063,5				W18 safety locking plate untreated, stacking bolts phosphated
16 3/8 3016		70 2 3/4 6070				
17,1 3/8 3017,1		70 2 3/4 7070				
18 3018		73 2 1/2 *8 7073				
15 1/4 4015 *7		76,2 3 2 1/2 *9 7076,2				
19 3/4 4019		88,9 3 3/2 3 7088,9				
19,8 3/8 4019,8 *7		88,9 3 1/2 3 8088,9				
20 4020		102 4 3 8102				
21,3 1/2 4021,3		114 4 1/2 4 8114				
22,1 1/2 4022,1 *7		127 5 8127				
22,2 7/8 4022,2		127 5 9127				
25,1 5/8 4025,1 *7		140 5 9140				
25,4 1 4025,4		152 6 9152				
26,7 3/4 4026,7		168 6 9168				
29,2 3/4 4029,2 *7		168 6 10168				
32 1 1/4 5032		203 8 10203				
33,4 1 5033,4		219 8 10219				
38 1 1/2 5038		219 8 11219				
40 5040		273 10 11273				
42,2 1 1/4 5042,2		324 12 11324				
		356 14 12356				
		406 16 12406				

TECHNICAL NOTES

- *1 SEE MATERIAL PROPERTIES ON PAGE C52. OTHER CLAMP BODY MATERIALS AND COLORS ARE AVAILABLE UPON REQUEST.
- *2 AVAILABLE UP TO STAUFF GROUP 6S ONLY
- *3 SPECIAL LENGTH BOLTS REQUIRED. SUPPLIED WHEN ORDERED AS KITS.
- *4 AVAILABLE FOR STAUFF GROUP 3S TO 10S ONLY
- *5 PLEASE NOTE THAT YOU HAVE TO SPECIFY THREAD TYPE.
- *6 INDIVIDUAL COMBINATIONS OF ALTERNATIVE SURFACE FINISHINGS AND SPECIAL PROPERTY MATERIALS ARE AVAILABLE UPON REQUEST.
- *7 CLAMPS WILL BE SMOOTH INSIDE AND WITHOUT TENSION CLEARANCE.
- *8 ACCORDING TO ANSI B 36-10.
- *9 OTHER STANDARDS.
- *10 SA AND SAH ARE SPECIAL ORDER MATERIALS AND ONLY AVAILABLE UP TO STAUFF GROUP 6S ONLY. CONTACT FACTORY FOR FURTHER INFORMATION.
- *11 METAL PARTS ARE UNTREATED FOR STAUFF GROUPS 8S TO 12S.

SPAL 3006 PP DPAL-AS U W15 2x Hexagon Head Bolt Surface: W3, Zinc Plated Thread: UNC 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 Tube-O.D. 6 mm / 0.24" 1x Weld Plate for Single Clamps Surface: W2, phosphated Thread: UNC W15 (up to Group 7S) or W1 (Group 8S to 12S) are standards for this type of installation.	SPAS 3006 PP DPAS-AS U W15 4x Hexagon Head Bolt Surface: W3, Zinc Plated Thread: UNC 1x Cover Plate for Double Clamps Surface: W2, phosphated 2x Clamp (two halves) Material: Polypropylene Design: profiled inside, with tension clearance Group: STAUFF 3S / DIN 1 Tube-O.D. 6 mm / 0.24" 1x Weld Plate for Double Clamps Surface: W2, phosphated Thread: UNC W15 (up to Group 7S) or W1 (Group 8S to 12S) are standards for this type of installation.
SPAL/DUB 3006 PP DPAL-AS U W15 2x Hexagon Head Bolt Surface: W3, Zinc Plated Thread: UNC 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 Tube-O.D. 6 mm / 0.24" 1x Elongated Weld Plate for Single Clamps Surface: W2, phosphated Thread: UNC W15 (up to Group 7S) or W1 (Group 8S to 12S) are standards for this type of installation.	SPAL 3006 PP IS U W10 2x Socket Cap Screw Surface: W3, Zinc Plated Thread: UNC 1x Clamp (two halves) Material: Polypropylene Design: profiled inside, with tension clearance Group: STAUFF 3S / DIN 1 Tube-O.D. 6 mm / 0.24" 1x Weld Plate for Single Clamps Surface: W2, phosphated Thread: UNC W10 (up to Group 6S) is standard for this type of installation. This combination is available up to group 6S only.

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1 TYPE OF INSTALLATION *11	
no code	without mounting plate, rail adaptor or rail nuts
SPAL	Weld Plate for Single Clamps
SPAS	Weld Plate for Double Clamps
SPAL/DUB	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*10	Santoprene, profiled inside, with tension clearance
SAH*10	Santoprene, smooth inside, without tension clearance
AL	Aluminium, profiled inside, with tension clearance

4 MOUNTING & FITTING COMBINATION *11	
DPAL - AS	Single Cover Plate / Hexagon Head Bolt
DPAS - AS	Double Cover Plate / Hexagon Head Bolt
DPAS - IS	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	Hose	Material Code Clamp Body (both halves)
STAUFF 3S DIN 1	6				3006
	6,4	1/4			3006,4
	8				3008
	9,5	3/8			3009,5
	10		1/8		3010
	12				3012
	12,7	1/2			3012,7
	13,7	1/4			3013,7
	14				3014
	15				3015
STAUFF 4S DIN 2	16	5/8			3016
	17,1	3/8			3017,1
	18				3018
	15		1/4		4015 *7
	19	3/4			4019
	19,8		3/8		4019,8 *7
	20				4020
	21,3	1/2			4021,3
	22,1		1/2		4022,1 *7
	22,2	1/8			4022,2
STAUFF 5S DIN 3	25,1		5/8		4025,1 *7
	25,4	1			4025,4
	26,7	3/4			4026,7
	29,2		3/4		4029,2 *7
	32	1 1/4			5032
	33,4		1		5033,4
	38	1 1/2			5038
	40				5040
	42,2	1 1/4			5042,2

2 STAUFF GROUP & SIZE OF CLAMP BODY CONTINUATION						
	Group	Tube O.D. in mm	Tube O.D. in inch	Nominal Bore Pipe	Hose	Material Code Clamp Body (both halves)
STAUFF 6S DIN 4		37,8			1	6037,8 *7
		42,2		1 1/4		6042,2
		44,5	1 3/4			6044,5
		48,3		1 1/2		6048,3
		48,4			1 1/4	6048,4 *7
		50,8	2			6050,8 *7
		54,4			1 1/2	6054,4 *7
		57,2	2 1/4			6057,2
		60,3		2		6060,3
		63,5	2 1/2			6063,5
ST 7S DIN 3		70	2 3/4			6070
		70	2 3/4			7070
		73		2 1/2	*8	7073
		76,2	3	2 1/2	*9	7076,2
		88,9	3 1/2	3		7088,9
ST 6S DIN 6		88,9	3 1/2	3		8088,9
		102	4	3 1/2		8102
		114	4 1/2	4		8114
ST 9S DIN 7		127	5			8127
		127	5			9127
		140		5		9140
		152	6			9152
ST 10S DIN 8		168		6		9168
		168		6		10168
		203				10203
ST 11S DIN 10		219	8			10219
		219	8			11219
		273	10			11273
		324	12			11324
12S DIN 12		356	14			12356
		406	16			12406

5 TYPE OF THREAD *5	
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 plated
W4	all metal parts made of stainless steel A2 - 1.4301/1.4305 (AISI 304)
W5	all metal parts made of stainless steel A4 - 1.4401/1.4571 (AISI 316/316Ti)
W10	weld plate phosphated, all other parts zinc plated
W12	weld plate and cover plate phosphated, bolts untreated
W13	rail nut zinc plated, cover plate phosphated, bolts untreated
W15	weld plate and cover plate phosphated, bolts zinc plated
W16	rail nut zinc plated, cover plate phosphated, bolts zinc plated
W17	safety locking plate phosphated, stacking bolts zinc plated
W18	safety locking plate untreated, stacking bolts phosphated

TECHNICAL NOTES

- *1 SEE MATERIAL PROPERTIES ON PAGE C52. OTHER CLAMP BODY MATERIALS AND COLORS ARE AVAILABLE UPON REQUEST.
- *2 AVAILABLE UP TO STAUFF GROUP 6S ONLY
- *3 SPECIAL LENGTH BOLTS REQUIRED. SUPPLIED WHEN ORDERED AS KITS.
- *4 AVAILABLE FOR STAUFF GROUP 3S TO 10S ONLY
- *5 PLEASE NOTE THAT YOU HAVE TO SPECIFY THREAD TYPE.
- *6 INDIVIDUAL COMBINATIONS OF ALTERNATIVE SURFACE FINISHINGS AND SPECIAL PROPERTY MATERIALS ARE AVAILABLE UPON REQUEST.
- *7 CLAMPS WILL BE SMOOTH INSIDE AND WITHOUT TENSION CLEARANCE.
- *8 ACCORDING TO ANSI B 36-10.
- *9 OTHER STANDARDS.
- *10 SA AND SAH ARE SPECIAL ORDER MATERIALS AND ONLY AVAILABLE UP TO STAUFF GROUP 6S ONLY. CONTACT FACTORY FOR FURTHER INFORMATION.
- *11 METAL PARTS ARE UNTREATED FOR STAUFF GROUPS 8S TO 12S.

3006 PP SIP-AF U W17

2x **Stacking Bolt**
Surface: W3, Zinc Plated
Thread: UNC

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

1x **Clamp (two halves)**
Material: Polypropylene
Design: profiled inside, with tension clearance
Group: STAUFF 3S / DIN 1
Tube-O.D. 6 mm / 0.24"

W17 (up to Group 7S) or W18 (Group 8S to 10S) are standards for this type of installation.

GMV 3006 PP DPAL-AS U W16

2x **Hexagon Head Bolt**
Surface: W3, Zinc Plated
Thread: UNC

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
Tube-O.D. 6 mm / 0.24"

2x **Mounting Rail Nut**
Surface: W3, Zinc Plated
Thread: UNC

W16 (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 U W15

2x **Hexagon Head Bolt**
Surface: W3, Zinc Plated
Thread: UNC

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
Hose-O.D. 6 mm / 0.24"

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

W15 (up to Group 6S) is standard for this type of installation. This combination is available up to Group 6S only.

NOTES REGARDING THE USE OF THE CHANNEL RAIL ADAPTOR CRA

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

UNISTRUT-Rails
P 1000, P 1000T, P 1000V, P 1000VT, P 1001
P 2000, P 2000T
P 3003, P 3003T, P 3300V, P 3300VT, P 3301
P 4000, P 4000T
P 5000, P 5000T, P 5001, P 5500, P 5500T, P 5501

STAUFF-Rails
SCS-048-1-PL, SCS-120-1-PL, SCS-048-1-GR, SCS-120-1-GR
(see page C42 for details)

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