



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
ASE	Insert / Hexagon Head Bolt (w/o Cover Plate)
IS	Socket Cap Screw with washer
LI *3	Slotted Head Screw with washer
SIG - AF	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
STAUFF 1 DIN 0	6			106
	6,4	1/4		106,4
	8	3/8		108
	9,5	3/8		109,5
	10		1/2	110
STAUFF 1A DIN 1	12			112
	6			106A
	6,4	1/4		106,4A
	8	3/8		108A
STAUFF 1A DIN 1	9,5	3/8		109,5A
	10		1/2	110A
	12			112A
	12,7	1/2		212,7
STAUFF 2 DIN 2	13,5	1/2		213,5
	14			214
	15			215
	16	3/4		216
	17,2	3/4		217,2
	18			218
	19	3/4		319
	20			320
STAUFF 3 DIN 3	21,3	1/2		321,3
	22	3/4		322
	25			325
	25,4	1		325,4
	26,9	3/4		426,9
4	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
STAUFF 5 DIN 5	32	1 1/4		532
	33,7		1	533,7
	35			535
	38	1 1/2		538
	40			540
6	42		1 1/4	542
	44,5	1 1/4		644,5
	48,3	1 7/8		648,3
	50,8	2		650,8
	57,2	2 1/4		757,2
	60,3	2		760,3
	63,5	2 1/2		763,5
	70	2 3/4		770
8	73		2 1/2	773 *4
	76,1	3	2 1/2	776,1 *5
	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 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
W11	rail nut untreated, all other parts zinc plated

TECHNICAL NOTES

*1 SEE MATERIAL PROPERTIES ON PAGE C52. OTHER CLAMP BODY MATERIALS AND COLORS 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 2448.

*5 NOMINAL BORE, ONLY DIN 2448.

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

SP 212,7 PP DP-AS U W10

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

1x **Cover Plate**
Surface: W3, Zinc Plated

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

1x **Single Weld Plate**
Surface: W2, Phosphated
Thread: UNC

W10 is standard for this type of installation.

SP 212,7 PP IS U W10

2x **Socket Cap Screw with washer**
Surface: W3, Zinc Plated
Thread: UNC

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

1x **Single Weld Plate**
Surface: W2, Phosphated
Thread: UNC

W10 is standard for this type of installation.

SP 212,7 PP LI U W10

2x **Slotted Head Screw with washer**
Surface: W3, Zinc Plated
Thread: UNC

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

1x **Single Weld Plate**
Surface: W2, Phosphated
Thread: UNC

W10 is standard for this type of installation.

SPV 212,7 PP DP-AS U W10

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

1x **Cover Plate**
Surface: W3, Zinc Plated

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

1x **Elongated Weld Plate**
Surface: W2, Phosphated
Thread: UNC

W10 is standard for this type of installation.

SPV 212,7 PP IS U W10

2x **Socket Cap Screw with washer**
Surface: W3, Zinc Plated
Thread: UNC

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

1x **Elongated Weld Plate**
Surface: W2, Phosphated
Thread: UNC

W10 is standard for this type of installation.

SPV 212,7 PP LI U W10

2x **Slotted Head Screw with washer**
Surface: W3, Zinc Plated
Thread: UNC

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

1x **Elongated Weld Plate**
Surface: W2, Phosphated
Thread: UNC

W10 is standard for this type of installation.

SM 212,7 PP DP-AS U W3

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

1x **Cover Plate**
Surface: W3, Zinc Plated

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

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

W3 is standard for this type of installation.

SM 212,7 PP IS U W3

2x **Socket Cap Screw with washer**
Surface: W3, Zinc Plated
Thread: UNC

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

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

W3 is standard for this type of installation.

SM 212,7 PP LI U W3

2x **Slotted Head Screw with washer**
Surface: W3, Zinc Plated
Thread: UNC

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

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

W3 is standard for this type of installation.



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7 ASSEMBLING & PACKAGING

no code	components supplied separately (standard)
A	assembled (optional)
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2 STAUFF GROUP & SIZE OF CLAMP BODY

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

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STAUFF 5 DIN 5				
32	32	1 1/4		532
33,7	33,7		1	533,7
35	35			535
38	38	1 1/2		538
40	40			540
42	42	1 1/4		542
6				
44,5	44,5	1 3/4		644,5
48,3	48,3	1 7/8		648,3
50,8	50,8	2		650,8
57,2	57,2	2 1/4		757,2
STAUFF 7 DIN 7				
60,3	60,3	2 1/2		760,3
63,5	63,5	2 1/2		763,5
70	70	2 3/4		770
73	73	2 3/4		773 *4
76,1	76,1	3	2 1/2	776,1 *5
88,9	88,9	3		888,9
102	102	4		8102L

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W11	rail nut untreated, all other parts zinc plated

Consult factory for available hose sizes.

TECHNICAL NOTES

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- *3 AVAILABLE FOR STAUFF GROUP 1 TO 6 ONLY. (DIN GROUP 0 TO 6).
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- *5 NOMINAL BORE, ONLY DIN 2448.
- *6 INDIVIDUAL COMBINATIONS OF ALTERNATIVE SURFACE FINISHINGS AND SPECIAL PROPERTY MATERIALS ARE AVAILABLE UPON REQUEST.

212,7 PP DP-AS U W3

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

1x **Cover Plate**
Surface: W3, Zinc Plated

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

W3 is standard for this type of installation.

212,7 PP IS U W3

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

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

W3 is standard for this type of installation.

212,7 PP LI U W3

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

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

W3 is standard for this type of installation.

212,7 PP SIG-AF U W3

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

1x **Safety Locking Plate**
Surface: W3, Zinc Plated

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

W3 is standard for this type of installation.

SP 106 PP DP-AS U W10

1x **Hexagon Head Bolt**
Surface: W3, Zinc Plated
Thread: UNC

1x **Cover Plate**
Surface: W3, Zinc Plated

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

1x **Single Weld Plate**
Surface: W2, Phosphated
Thread: UNC

W10 is standard for this type of installation.

106 PP SIG-AF U W3

1x **Stacking Bolt**
Surface: W3, Zinc Plated
Thread: UNC

1x **Safety Locking Plate**
Surface: W3, Zinc Plated

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

W3 is standard for this type of installation.

SP 212,7 PPH DP-AS U W10

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

1x **Cover Plate**
Surface: W3, Zinc Plated

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

1x **Single Weld Plate**
Surface: W2, Phosphated
Thread: UNC

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 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

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

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