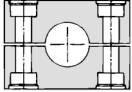

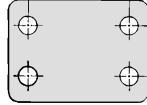

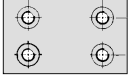

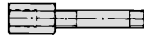
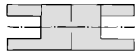
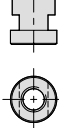

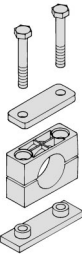
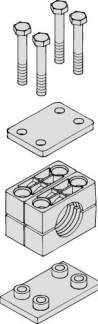
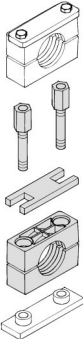
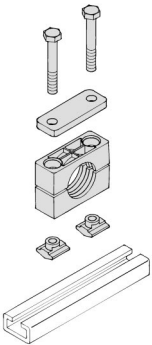
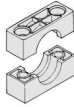
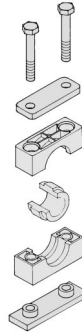
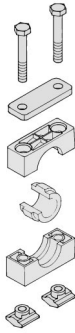





Pipe Supports - Visual Index

<p>HEAVY SERIES CLAMP</p>	<p>S-PP CLAMP BODY</p>  <p>1/4" - 8" Page Q3</p>	<p>DPAL SINGLE COVER PLATE</p>  <p>1/4" - 8" Page Q4</p>	<p>DPAS DOUBLE COVER PLATE</p>  <p>1/4" - 8" Page Q4</p>	<p>SPAL SINGLE WELD PLATE</p>  <p>1/4" - 8" Page Q5</p>
<p>SPAS DOUBLE WELD PLATE</p>  <p>1/4" - 8" Page Q5</p>	<p>ASS HEX HEAD BOLT</p>  <p>1/4" - 8" Page Q6</p>	<p>AFS STACKING BOLT</p>  <p>1/4" - 8" Page Q6</p>	<p>SIP SAFETY PLATE</p>  <p>1/4" - 8" Page Q6</p>	<p>RNH RAIL NUT</p>  <p>1/4" - 3" Page Q7</p>
<p>STSV100 MOUNTING RAIL</p>  <p>1/4" - 3" Page Q7</p>	<p>CLAMP ASSEMBLIES</p>	<p>SPAL-***S**-DPAL-AS SINGLE CLAMP ASSEMBLY</p>  <p>1/4" - 8" Page Q8</p>	<p>SPAS-***S**-DPAS-AS DOUBLE CLAMP ASSEMBLY</p>  <p>1/4" - 8" Page Q8</p>	<p>AF-***S**-SIP SINGLE STACKING ASSEMBLY</p>  <p>1/4" - 8" Page Q9</p>
<p>RNH-***S**-DPAL-AS RAIL MOUNTED SINGLE CLAMP ASS'Y</p>  <p>1/4" - 2 1/2" Page Q9</p>	<p>RUBBER INSERT SERIES CLAMP</p>	<p>RI-*S** RUBBER INSERT CLAMP BODY</p>  <p>1/2" - 4" Page Q10</p>	<p>SPAL-***S**-DPAL-AS-RI RUBBER INSERT CLAMP ASSEMBLY</p>  <p>1/2" - 4" Page Q11</p>	<p>RNH-***S**-DPAL-AS-RI RAIL MOUNTED RI CLAMP ASSEMBLY</p>  <p>1/2" - 2" Page Q11</p>
		<p>***S-RI RUBBER INSERT</p>  <p>1/2" - 4" Page Q10</p>		

Note: Other sizes in heavy series are available as well as light series standard and twin supports - contact factory.



Notes

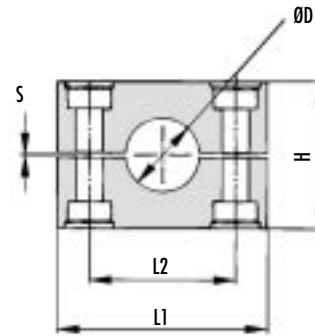
Lined area for taking notes.



Pipe Supports

Heavy Series Clamp Body

Material Code	Materials and Designs of clamp bodies
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
AL	Aluminum, profiled inside, with tension clearance



* RECOMMENDED FOR HOSE CLAMPING, SPECIFY OUTSIDE DIAMETER OF HOSE AVAILABLE UP TO GROUP 6S

SPP Clamp Body (2 Halves)

Group	Pipe Nominal Bore	Hose	Metric (mm)	Clamp Body Part No. **- specify material code	Dimensions (in)						WT. lbs/pc	
					L1		L2	Inside Surface		Width		
					PP/PA	AL		Profiled				Smooth
								H	S (min.)			
4s		1/4"		4150S **	2.75	2.75	1.77	-	-	1.83	1.20	0.08
		3/8"		4198S **	2.75	2.75	1.77	-	-	1.83	1.20	0.08
		1/2"		4213S **	2.75	2.75	1.77	1.88	0.02	-	1.20	0.08
		1/2"		4221S **	2.75	2.75	1.77	-	-	1.83	1.20	0.08
		3/4"		4267S **	2.75	2.75	1.77	1.88	0.02	-	1.20	0.08
		3/4"		4292S **	2.75	2.75	1.77	-	-	1.83	1.20	0.08
5s		1"		5334S **	3.34	3.34	2.36	2.36	0.02	-	1.20	0.12
		1 1/4"		5422S **	3.34	3.34	2.36	2.36	0.02	-	1.20	0.10
6s		1"		6378S **	4.52	4.72	3.54	-	-	3.42	1.77	0.44
		1 1/4"		6422S **	4.52	4.72	3.54	3.50	0.07	-	1.77	0.45
		1 1/2"		6483S **	4.52	4.72	3.54	3.50	0.07	-	1.77	0.42
		1 1/4"		6484S **	4.52	4.72	3.54	-	-	3.42	1.77	0.42
		1 1/2"		6544S **	4.52	4.72	3.54	-	-	3.42	1.77	0.44
			56	6560S **	4.52	4.72	3.54	3.50	0.07	-	1.77	0.44
				6603S **	4.52	4.72	3.54	3.50	0.07	-	1.77	0.38
			66	6660S **	4.52	4.72	3.54	3.50	0.07	-	1.77	0.44
7s		2 1/2"		7730S **	5.98	5.90	4.80	4.72	0.07	-	2.36	0.95
			80	7800S **	5.98	5.90	4.80	4.72	0.07	-	2.36	0.78
		3"		7889S **	5.98	5.90	4.80	4.72	0.07	-	2.36	0.80
8s		3"		8889S **	8.11	8.19	6.61	6.57	0.07	-	3.14	2.34
			97	8970S **	8.11	8.19	6.61	6.57	0.07	-	3.14	2.34
		4"	115	8114S **	8.11	8.19	6.61	6.57	0.07	-	3.14	2.05
9s		5"		9141S **	9.88	10.04	8.07	7.87	0.11	-	3.58	3.38
		6"		9168S **	9.88	10.04	8.07	7.87	0.11	-	3.58	2.72
10s		6"		10168S **	13.23	12.83	10.43	10.63	0.11	-	4.72	9.40
		8"		10219S **	13.23	12.83	10.43	10.63	0.11	-	4.72	7.49
11s		8"		11219S **	18.50	18.50	15.55	16.14	0.31	-	6.38	31.20

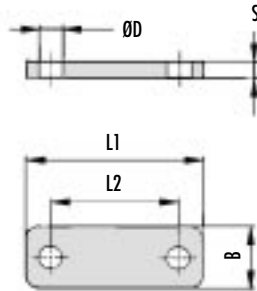
- FOR COMPLETE CLAMP ASSEMBLY REFERENCE PAGES Q8-9
- OTHER THERMOPLASTICS AND O.D. ON REQUEST
- RUBBER INSERT CLAMPS ARE AVAILABLE REFERENCE PAGE Q10-11



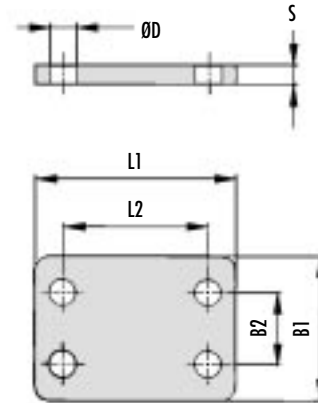
Pipe Supports

Heavy Series Cover Plates

DPAL Single Cover Plate



DPAS Double Cover Plate



DPAL Single Cover Plate

Group	Plate Part No.	Dimensions (in)					WT. lbs/pc
		L1	L2	B	S	D	
4s	DPAL 4s	2.75	1.77	1.18	0.31	0.43	0.26
5s	DPAL 5s	3.34	2.36	1.18	0.31	0.43	0.31
6s	DPAL 6s	4.52	3.54	1.77	0.39	0.55	0.82
7s	DPAL 7s	5.98	4.80	2.36	0.30	0.74	1.46
8s	DPAL 8s	8.11	6.61	3.14	0.59	0.86	3.08
9s	DPAL 9s	9.88	8.07	3.54	0.59	1.02	5.35
10s	DPAL 10s	12.60	10.43	4.72	0.98	1.37	11.56
11s	DPAL 11s	18.50	15.55	6.29	1.18	1.37	30.60

DPAS Double Cover Plate

Group	Plate Part No.	Dimensions (in)						WT. lbs/pc
		L1	L2	B1	B2	S	D	
4s	DPAS 4s	2.75	1.77	2.36	1.18	0.31	0.43	0.52
5s	DPAS 5s	3.30	2.36	2.36	1.18	0.39	0.55	0.62
6s	DPAS 6s	4.57	3.54	3.54	1.81	0.31	0.43	1.64
7s	DPAS 7s	6.02	4.80	4.72	2.40	0.39	0.74	2.92
8s	DPAS 8s	8.11	6.61	6.29	3.18	0.59	0.86	6.16
9s	DPAS 9s	9.88	8.07	7.06	3.58	0.59	1.02	10.70
10s	DPAS 10s	12.60	10.43	9.45	4.72	0.98	1.37	23.12
11s	DPAS 11s	18.50	15.55	12.64	6.29	1.18	1.37	61.20

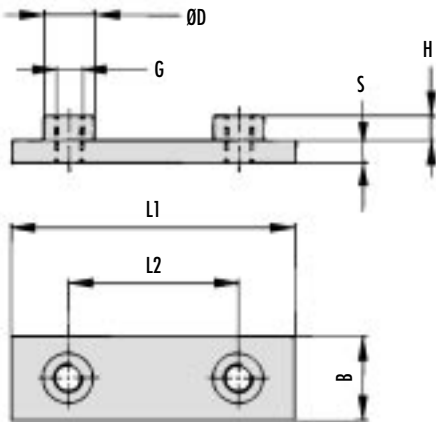
MATERIAL: CARBON STEEL, YELLOW ZINC DICHROMATE PLATED (STAINLESS STEEL AVAILABLE)



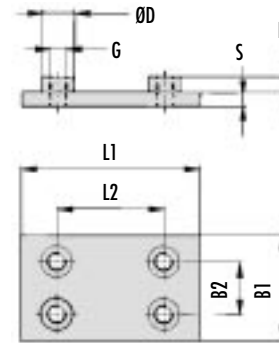
Pipe Supports

Heavy Series Weld Plates

SPAL Single Weld Plate



SPAS Double Weld Plate



SPAL Single Weld Plate

Group	Plate Part No.	Dimensions (in)							WT. lbs/pc
		L1	L2	B	S	H	D	G	
4s	SPAL 4s	3.38	1.77	1.18	0.31	0.31	0.70	3/8"-16 x 2 1/4"	0.39
5s	SPAL 5s	3.93	2.36	1.18	0.31	0.31	0.70	3/8"-16 x 2 3/4"	0.43
6s	SPAL 6s	5.51	3.54	1.77	0.39	0.31	0.78	7/16"-14 x 4"	1.07
7s	SPAL 7s	7.06	4.80	2.36	0.39	0.47	0.94	5/8"-11 x 5 1/4"	1.89
8s	SPAL 8s	8.90	6.61	3.64	0.59	0.70	1.18	3/4"-10 x 7 1/2"	4.19
9s	SPAL 9s	10.63	8.07	3.54	0.59	0.82	1.37	7/8"-9 x 8 3/4"	5.77
10s	SPAL 10s	13.39	10.43	4.72	0.98	0.82	1.77	1 1/8"-7 x 12"	13.48
11s	SPAL 11s	20.47	15.55	6.30	1.18	1.46	1.96	1 1/4"-7 x 17 1/2"	35.70

SPAS Double Weld Plate

Group	Plate Part No.	Dimensions (in)								WT. lbs/pc
		L1	L2	B1	B2	S	H	D	G	
4s	SPAS 4s	3.38	1.77	2.36	1.20	0.31	0.31	0.70	3/8"-16 x 2 1/4"	0.78
5s	SPAS 5s	3.93	2.36	2.36	1.20	0.31	0.31	0.70	3/8"-16 x 2 3/4"	0.86
6s	SPAS 6s	5.51	3.54	3.54	1.81	0.39	0.31	0.78	7/16"-14 x 4"	2.14
7s	SPAS 7s	7.06	4.80	4.72	2.40	0.39	0.47	0.94	5/8"-11 x 5 1/4"	3.78
8s	SPAS 8s	8.86	6.61	6.29	3.18	0.59	0.70	1.18	3/4"-10 x 7 1/2"	8.38
9s	SPAS 9s	10.63	8.07	7.06	3.58	0.59	0.82	1.37	7/8"-9 x 8 3/4"	11.54
10s	SPAS 10s	13.39	10.43	9.44	4.76	0.98	0.82	1.77	1 1/8"-7 x 12"	26.96
11s	SPAS 11s	20.47	15.55	12.76	6.54	1.18	1.46	1.96	1 1/4"-7 x 17 1/2"	71.40

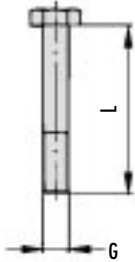
MATERIAL: CARBON STEEL, (STAINLESS STEEL AVAILABLE)



Pipe Supports

Heavy Series Hex Head Bolt, Stacking Bolt & Safety Plate

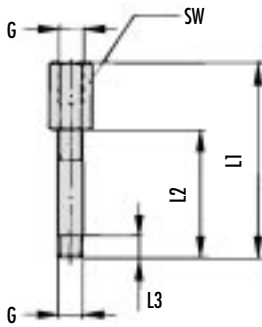
ASS Hex Head Bolt



ASS Hex Head Bolt

Group	Bolt Part No.	Dimensions (in)		WT. lbs/pc
		G	L	
4s	ASS 4s	3/8"-16	2 1/4"	0.08
5s	ASS 5s	3/8"-16	2 3/4"	0.10
6s	ASS 6s	7/16"-14	4"	0.18
7s	ASS 7s	5/8"-11	5 1/4"	0.50
8s	ASS 8s	3/4"-10	7 1/2"	1.01
9s	ASS 9s	7/8"-9	8 3/4"	1.56
10s	ASS 10s	1 1/8"-7	12"	3.64
11s	ASS 11s	1 1/4"-7	17 1/2"	6.58

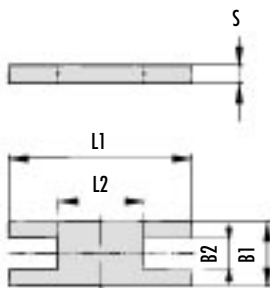
AFS Stacking Bolt



AFS Stacking Bolt

Group	Bolt Part No.	Dimensions (in)					WT. lbs/pc
		L1	L2	L3	SW	G	
4s	AFS 4s	2.55	1.57	0.59	0.59	3/8"-16	0.11
5s	AFS 5s	3.03	2.00	0.59	0.59	3/8"-16	0.14
6s	AFS 6s	4.33	3.22	0.70	0.69	7/16"-14	0.20
7s	AFS 7s	5.67	4.33	0.94	0.82	5/8"-11	0.50
8s	AFS 8s	7.87	5.90	1.18	1.00	3/4"-10	1.03
9s	AFS 9s	9.44	7.06	1.96	1.18	7/8"-9	1.81
10s	AFS 10s	13.03	10.08	2.44	1.81	1 1/8"-7	4.54

SIP Safety Plate



SIP Safety Plate

Group	Plate Part No.	Dimensions (in)					WT. lbs/pc
		L1	L2	B1	B2	S	
4s	SIP 4s	2.75	1.02	1.18	0.59	0.31	0.14
5s	SIP 5s	3.34	1.57	1.18	0.59	0.31	0.26
6s	SIP 6s	4.57	2.71	1.77	0.66	0.39	0.68
7s	SIP 7s	6.02	3.81	2.36	0.86	0.39	1.34
8s	SIP 8s	8.11	5.11	3.14	1.10	0.59	3.47
9s	SIP 9s	9.88	6.54	3.54	1.22	0.59	4.40
10s	SIP 10s	12.48	8.07	4.72	1.92	0.98	10.32

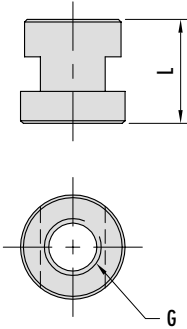
MATERIAL: CARBON STEEL, YELLOW ZINC DICHROMATE PLATED (STAINLESS STEEL AVAILABLE)



Pipe Supports

Heavy Series Rail Nut & Mounting Rail

RNH Rail Nut

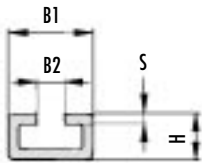


RNH Rail Nut

Group	Rail Nut Part No.	Dimensions (in)		WT. lbs/pc
		L	G	
3s-5s	RNH 345	0.75	3/8"-16 UNC	0.06
6s	RNH 6	0.88	7/16"-14 UNC	0.09

- FOR GROUP 7s RAIL NUT/PLATE CONTACT FACTORY

STSV Mounting Rail



STSV100 Mounting Rail

Group	Rail Part No.	Dimensions (in)					WT. lbs/pc
		L	B1	B2	H	S	
3s-6s	STSV100/6	6.56 ft.	1.57	0.55	0.86	0.19	14.80

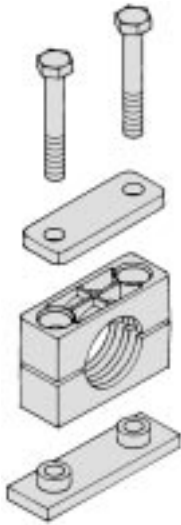
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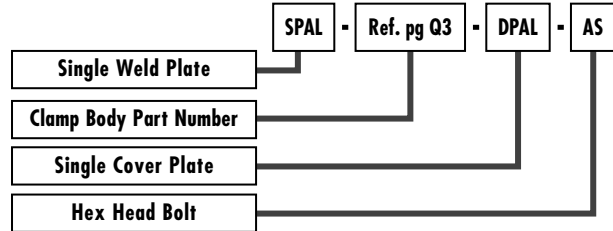
Heavy Series Pipe Support Assemblies

Complete Assembly Part Number

Single Clamp Assembly



Complete Part Number

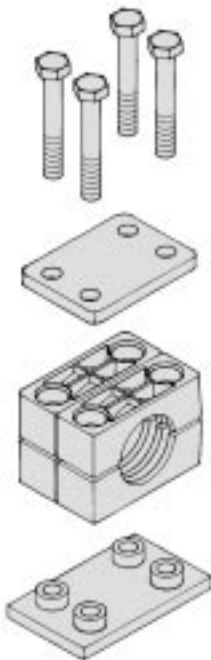


COMPLETE ASSEMBLY CONSISTS OF:

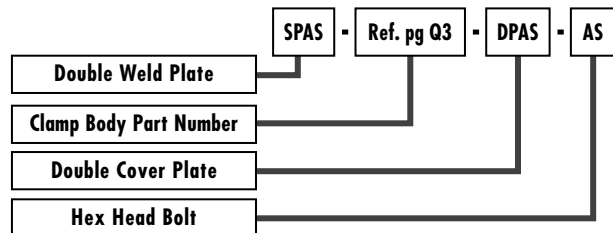
- ONE (1) SINGLE WELD PLATE
- ONE (1) CLAMP BODY (2 HALVES) REF. PAGE Q3
- ONE (1) SINGLE COVER PLATE
- TWO (2) HEX HEAD BOLTS

PART NO. (EXAMPLE): SPAL - 6603S PP - DPAL - AS

Double Clamp Assembly



Complete Part Number



COMPLETE ASSEMBLY CONSISTS OF:

- ONE (1) DOUBLE WELD PLATE
- TWO (2) CLAMP BODY (4 HALVES) REF. PAGE Q3
- ONE (1) DOUBLE COVER PLATE
- FOUR (4) HEX HEAD BOLTS

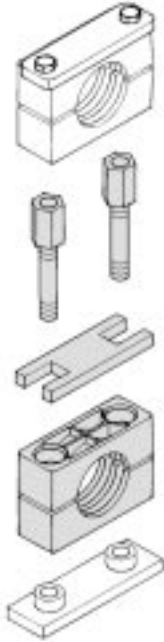
PART NO. (EXAMPLE): SPAS - 6603S PP - DPAS - AS



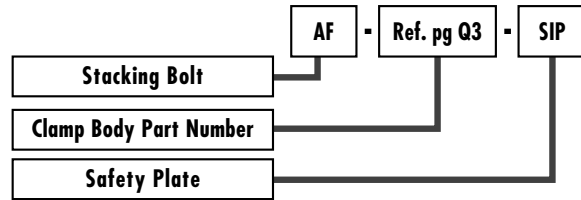
Heavy Series Pipe Support Assemblies

Complete Assembly Part Number

Single Stacking Assembly



Complete Part Number



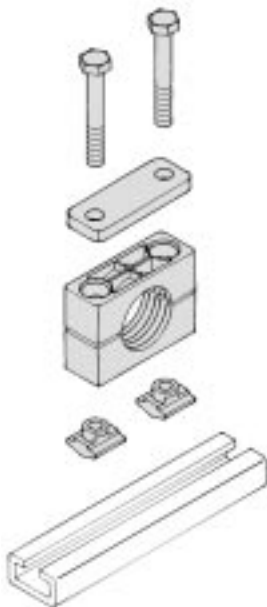
COMPLETE ASSEMBLY CONSISTS OF:

- ONE (1) CLAMP BODY (2 HALVES) REF. PAGE Q3
- ONE (1) SAFETY PLATE
- TWO (2) STACKING BOLTS

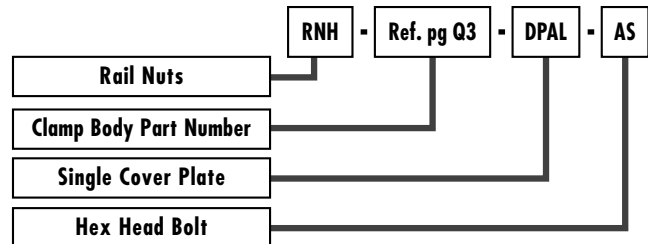
PART NO. (EXAMPLE): AF - 6603S PP - SIP

- AVAILABLE UP TO GROUP 10s ONLY

Rail Mounted Single Clamp Assembly



Complete Part Number



COMPLETE ASSEMBLY CONSISTS OF:

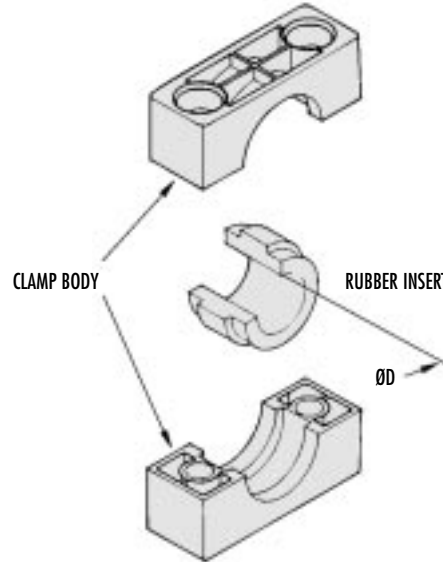
- TWO (2) MOUNTING RAIL NUTS
- ONE (1) CLAMP BODY (2 HALVES) REF. PAGE Q3
- ONE (1) SINGLE COVER PLATE
- TWO (2) HEX HEAD BOLTS

PART NO. (EXAMPLE): RNH - 6603S PP - DPAL - AS

- AVAILABLE UP TO GROUP 6s ONLY

Pipe Supports

Heavy Series Rubber Insert Clamp Body



Material Code	Material of clamp bodies
PP	Polypropylene
PA	Polyamide

RI Clamp Body with Rubber Inserts

Group	Pipe Nominal Bore	Dimension (in) OD	Clamp Body Part No. **-specify material code	Rubber Insert Part No.
5s	1/2"	0.84	RI 5S**	5213S RI
	3/4"	1.05	RI 5S**	5267S RI
6s	1"	1.32	RI 6S**	6334S RI
	1 1/4"	1.66	RI 6S**	6422S RI
	1 1/2"	1.90	RI 6S**	6483S RI
	1 1/2"	1.90	RI 6S**-TMI	6483S RI-TMI
	2"	2.38	RI 6S**-TMI	6603S RI-TMI
7s	2"	2.38	RI 7S**	7603S RI
	2 1/2"	2.88	RI 7S**	7730S RI
8s	3"	3.50	RI 8S**	8889S RI
9s	4"	4.50	RI 9S**	9114S RI

- RUBBER INSERT AND CLAMP BODY ARE ORDERED SEPARATELY
- FOR COMPLETE RUBBER INSERT CLAMP ASSEMBLY REFERENCE PAGE Q11
- FOR RI CLAMPS THE RELATIONSHIP BETWEEN THE DIAMETER AND THE GROUP IS NOT THE SAME AS IN THE PROFILE OR THE H CLAMP



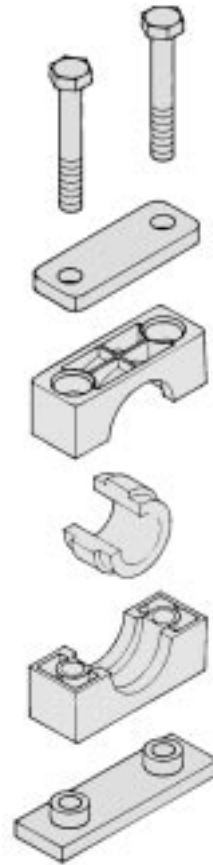
Heavy Series Rubber Insert Assemblies

Complete Assembly Part Number

Typical Rubber Insert Assembly

Material Code	Material of clamp bodies
PP	Polypropylene
PA	Polyamide

Group	Pipe Nominal Bore	Complete Rubber Insert Assembly Part No. **-specify material code
5s	1/2"	SPAL-5213S **-DPAL-AS-RI
	3/4"	SPAL-5267S **-DPAL-AS-RI
6s	1"	SPAL-6334S **-DPAL-AS-RI
	1 1/4"	SPAL-6422S **-DPAL-AS-RI
	1 1/2"	SPAL-6483S **-DPAL-AS-RI
	1 1/2"	SPAL-6483S **-DPAL-AS-RI-TMI
	2"	SPAL-6603S **-DPAL-AS-RI-TMI
7s	2"	SPAL-7603S **-DPAL-AS-RI
	2 1/2"	SPAL-7730S **-DPAL-AS-RI
8s	3"	SPAL-8889S **-DPAL-AS-RI
9s	4"	SPAL-9114S **-DPAL-AS-RI



COMPLETE ASSEMBLY CONSISTS OF:

- ONE (1) SINGLE WELD PLATE
- ONE (1) CLAMP BODY (2 HALVES) REF. PAGE Q10
- ONE (1) RUBBER INSERT (2 HALVES) REF. PAGE Q10
- ONE (1) SINGLE COVER PLATE
- TWO (2) HEX HEAD BOLTS

PART NO. (EXAMPLE):

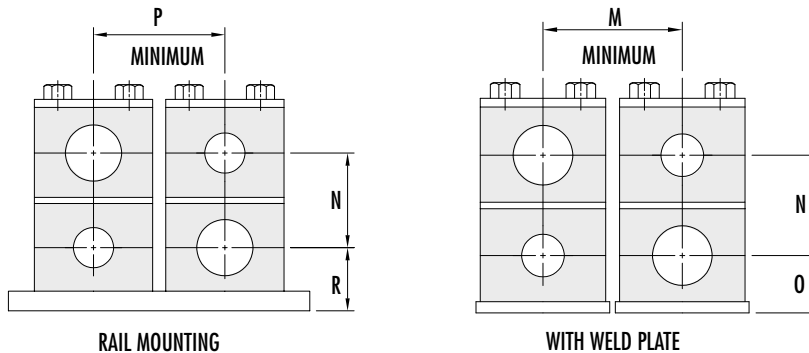
SPAL - 5213S PP - DPAL - AS - RI

Note: To order rubber insert clamps using rail nuts (RNH) - replace the **SPAL** in the assembly part number with **RNH**. [Only available in groups 5s and 6s]
PART NO. (EXAMPLE): RNH - 5213S PP - DPAL - AS - RI



Layout Data for Pipe and Hose

Heavy Series



Group	Size Range Ød	Installation Dimensions (in)					WT. (lbs)
		M	N	O	P	R	
4s	3/4" - 1 3/16"	3 1/2	2 3/16	1 1/4	2 7/8	1 13/16	.92
5s	1 3/16" - 1 37/64"	4 1/16	2 11/16	1 1/2	3 7/16	2 1/16	1.12
6s	1 1/2" - 2 3/4"	5 7/8	3 7/8	2 1/8	4 5/8	2 5/8	2.86
7s	2 9/16" - 3 1/2"	7 1/8	5 1/16	2 3/4	*		5.35
8s	3 1/2" - 5 15/64"	10 5/8	7 1/16	3 13/16	N/A		13.11
9s	5 15/64" - 6 5/8"	11 1/8	8 3/8	4 7/16	N/A		17.16
10s	6 5/8" - 8 5/8"	13 7/8	11 3/8	6 1/16	N/A		46.20
11s	8 5/8" - 12 3/4"	21 1/16	17 1/8	9 1/16	N/A		108.90

* For Group 7s Rail Mounting - Contact Factory

Max. tightening torque (Inch lbs)

Group	Bolt Size	Material Properties		
		Poly-propylene PP	Polyamide PA	Aluminum AL
4s	3/8"-UNC	106	177	265
5s	3/8"-UNC	133	222	310
6s	7/16"-UNC	265	354	487
7s	5/8"-UNC	399	487	1062
8s	3/4"-UNC	796	1593	2478
9s	7/8"-UNC	1327	2655	3097
10s	1 1/8"-UNC	2212	4425	6195
11s	1 1/4"-UNC	3097	5310	7522

Support Spacing

Pipe (Nom. Bore)	Spacing (ft)
1"	7
1 1/2"	9
2"	10
2 1/2"	11
3"	12
3 1/2"	13
4"	14
5"	16
6"	17
8"	19



Pipe Spacing

Heavy Series

Assumption:

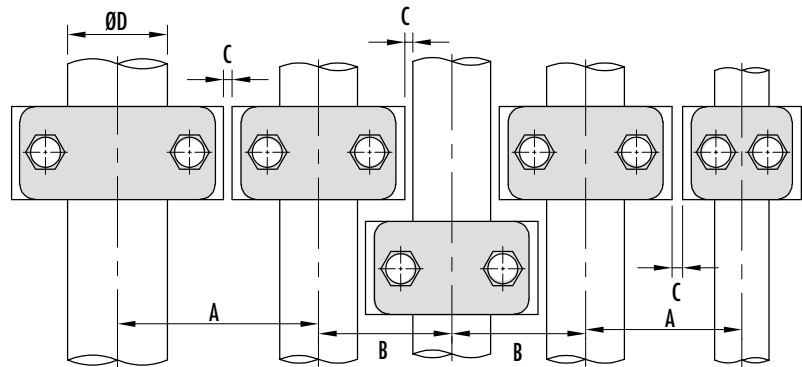
Easy to read center line spacing for side to side and staggered installation when placing same or various size pipe on drawings or installing.

Inline clamping - Minimum spacing C between weld-plates:

- Group 4s to 5s 1/4" (6.5 mm)
- Group 6s to 7s 1/2" (13 mm)
- Group 8s to 9s 5/8" (16 mm)
- Group 10s to 11s 1" (26 mm)

Staggered clamping - Minimum spacing between Tube OD and clamp body:

- Group 4s to 5s 1/4" (6.5 mm)
- Group 6s to 7s 1/2" (13 mm)
- Group 8s to 9s 5/8" (16 mm)
- Group 10s to 11s 1" (26 mm)



Note:

The minimum Center Distances referred to above don't take into account space requirement for union connections, valves and other fittings.

		A = Inline - Side to Side clamping																	
Group	Group	4s		5s	6s			7s		8s		9s		10s	11s				
	d=Size in inch and mm	1/2 21.3	3/4 26.9	1 33.7	1 1/4 42	1 1/2 48.3	2 60.3	2 1/2 73	3 88.9	3 1/2 102	4 114	5 140	6 168	8 219	10 273	12 324			
B = Staggered clamping	4s	1/2 213	3 5/8 91.5		315/16 99	5 127			6 152		7 1/8 181		9 203		9 9/16 242	12 3/8 314			
		3/4 26.9	2 1/16 52	2 3/16	4 3/16 2 9/16			5 9/16 135		6 5/16 160		7 3/8 188		8 1/4 210		9 7/8 250	12 11/16 332		
	6s	1 1/4 42	3 5/8 91.5		315/16 99	5 127			6 152		7 1/8 181		9 203		9 9/16 242	12 3/8 314			
		1 1/2 48.3	3 1/16 78	3 3/16 81	3 5/16 84	3 5/8 95			6 7/16 163		7 1/16 188		8 9/16 217		9 7/16 239		10 15/16 278	13 3/4 350	
		2 60.3	4 101		4 101			4 101		8 3/8 213		9 9/16 242		10 7/16 264		11 15/16 303	14 13/16 375		
	7s	2 1/2 73	3 13/16 96.5	3 1/8 99	4 1/16 103	4 3/8 110	4 1/2 113	4 11/16 119	5 134		8 3/8 213		9 9/16 242		10 7/16 264	11 15/16 303	14 13/16 375		
		3 88.9	3 13/16 96.5		3 1/8 99	4 1/16 103	4 3/8 110	4 1/2 113	4 11/16 119	5 134		8 3/8 213		9 9/16 242		10 7/16 264	11 15/16 303	14 13/16 375	
	8s	3 1/2 102	4 7/8 125	5 128	5 1/8 138	5 7/16 138	5 9/16 141	5 3/4 147	6 1/16 154	6 3/8 161	10 5/8 270		11 1/2 292		13 1/16 332	15 7/8 404			
		4 114	4 7/8 125		5 128	5 1/8 138	5 7/16 138	5 9/16 141	5 3/4 147	6 1/16 154	6 3/8 161	6 5/8 174	10 5/8 270		11 1/2 292	13 1/16 332	15 7/8 404		
		5 140	5 13/16 147	5 15/16 150	6 1/16 153	6 3/16 153	6 5/16 160	6 9/16 166	6 13/16 154	7 1/8 181	7 9/16 192	7 13/16 198	12 3/8 314		13 15/16 354	16 3/4 426			
	9s	6 168	5 13/16 147		5 15/16 150	6 1/16 153	6 3/16 153	6 5/16 160	6 9/16 166	6 13/16 154	7 1/8 181	7 9/16 192	7 13/16 198	8 5/16 225	8 7/8 225	12 3/8 314	13 15/16 354	16 3/4 426	
		8 219	7 7/8 200		8 1/8 205	8 5/16 210			8 1/2 216	8 7/8 224	9 1/8 232	9 3/8 238	9 7/8 250	10 7/16 265	15 1/2 11 5/8	18 5/16 465	21 3/16 537		
	10s	10 273	10 13/16 275		11 280	10 13/16 275	10 15/16 278	11 3/16 284	11 1/2 292	11 13/16 300	12 1/16 306	12 5/16 312	12 13/16 325	13 3/8 339	14 9/16 370	15 5/8 422	21 3/16 537		
		12 324	10 13/16 275		11 280	10 13/16 275	10 15/16 278	11 3/16 284	11 1/2 292	11 13/16 300	12 1/16 306	12 5/16 312	12 13/16 325	13 3/8 339	14 9/16 370	15 5/8 422	21 3/16 537		

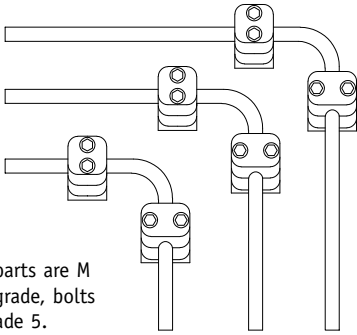


Technical Data

Pipe Installation - Simple and reliable

With the exception of the Construction Series KS Clamps and the Clamps of the Light Series, there is no difference between the top and bottom halves.

As it is impossible to confuse them, much time is saved during handling. This also applies to their mounting onto the weld plates or mounting-rails, as the lower half of the pipe clamp only needs to be slid onto either welded-on nuts (weld plate) or insert nuts (mounting rail). Therefore, only a few instructions are required for the correct mounting of pipes with STAUFF Pipe Clamps:

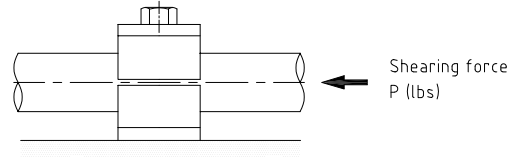


Note:
Steel parts are M 1020 grade, bolts are grade 5.

1. Please ensure that weld plates or mounting-rails are firmly supported according to individual stress. Minimum welding length is = to minimum welding plate width.
2. It is recommended that STAUFF Pipe Clamps be installed at intervals according to support spacing charts.
3. Pipe bends should be supported by STAUFF Pipe Clamps as near to the bends as possible (see illustration).

Shearing Force Diagram

The forces shown in these diagrams are those taken up by the clamps in the axial direction. The sliding friction starts, when the shown values are reached.



Clamp Body Material Properties			
	Polypropylene PP	Polyamide PA	Aluminum AL
Mechanical Properties			
Density	.906 g/cc	1.15 g/cc	2.65 g/cc
Tensile Strength	28 MPa (4000 psi)	140 MPa (20000 psi)	180 MPa (26000 psi)
Flexural Modulus	1150 MPa (165000 psi)	3000 MPa (435000 psi)	70000 MPa (10.15x10 ⁶ psi)
Compressive Strength (Resistance)	90 MPa (13050 psi)	120 MPa (17400 psi)	HB 500-600
Notched IZOD Impact Strength	14 ft - lb/in	1.3 ft - lb/in	
Thermal Properties			
Max. Temperature Resistance	-29 to +102°C -20 to +215°F	-40 to + 180°C -40 to +356°F	+400°C +752°F
Electrical Properties			
Specific Volume Resistivity Ohm x Inch	3.9 x 10 ¹⁷	3.9 x 10 ¹⁴	
Chemical Properties			
Light Acids, Solvents	stable	stable	
Fuels, Mineral Oils	stable	stable	
Alcohol, Paints, Saltwater	stable	stable	

Heavy Series SPAL (for SPAS double Shearing Force)

