



PRODUCT BROCHURE



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Surefix XL Unlined Clip

For Steel Pipes & Insulated Pipe Supports

Construction

Mild Steel
 BZP Finish

For Use With

Steel & Cast Iron Tubes
 Insulated Pipe Supports



Pipe Size	Grip Range (mm)	Boss Type	Screw (mm)	Material (mm)	Part Code
3/8"	15-20	M8/M10	M5 x 25	1 x 20	ULXL010
1/2"	19-23	M8/M10	M5 x 25	1 x 20	ULXL015
22mm	23-28	M8/M10	M5 x 25	1 x 20	ULXL020
3/4"	26-30	M8/M10	M5 x 25	1 x 20	ULXL022
1"	32-35	M8/M10	M5 x 25	1 x 20	ULXL025
1 1/4"	39-43	M8/M10	M5 x 25	1 x 20	ULXL032
1 1/2"	45-51	M8/M10	M5 x 25	1.2 x 20	ULXL040
54mm	54-58	M8/M10	M5 x 25	1.2 x 20	ULXL054
2"	60-65	M8/M10	M5 x 25	1.2 x 20	ULXL050
70mm	67-71	M8/M10	M5 x 25	1.2 x 20	ULXL070
2 1/2"	74-82	M8/M10	M6 x 30	1.5 x 25	ULXL065
85mm	82-89	M8/M10	M6 x 30	1.5 x 25	ULXL075
3"	91-98	M8/M10	M6 x 30	1.5 x 25	ULXL080
95mm	93-101	M8/M10	M6 x 30	1.5 x 25	ULXL095
105mm	102-109	M8/M10	M6 x 30	1.5 x 25	ULXL105
4"	109-117	M8/M10	M6 x 30	1.5 x 25	ULXL100
120mm	116-125	M8/M10	M6 x 30	1.5 x 25	ULXL120
130mm	129-141	M8/M10	M6 x 30	2 x 25	ULXL130
5"	136-146	M8/M10	M6 x 30	2 x 25	ULXL125
145mm	142-154	M8/M10	M6 x 30	2 x 25	ULXL145
6"	158-169	M8/M10	M6 x 30	2 x 25	ULXL150
175mm	166-177	M8/M10	M6 x 30	2 x 25	ULXL176

Zinc Plated Backplate



Construction

Mild Steel BZP Finish

Sizes

M8/M10 Duel Boss

Surefix XL Rubber Lined Clip

Created on: 31/03/23
Version: 1.00
Last Updated: 9/01/23



Construction

Mild Steel
BZP Finish

For Use With

Copper & Plastic Tubes

Special Features

Rubber Lining tested to
DIN4109 for Acoustic Use

Pipe Size	Grip Range (mm)	Boss Type	Screw (mm)	Material (mm)	Part Code
15cu	13-20	M8/M10	M5 x 25	1 x 20	RLXL015
18mm	17-23	M8/M10	M5 x 25	1 x 20	RLXL018
22cu	21-26	M8/M10	M5 x 25	1 x 20	RLXL022
28cu	26-30	M8/M10	M5 x 25	1 x 20	RLXL028
35cu	33-37	M8/M10	M5 x 25	1 x 20	RLXL035
42cu	40-46	M8/M10	M5 x 25	1.2 x 20	RLXL042
1 1/2"	48-53	M8/M10	M5 x 25	1.2 x 20	RLXL040
54cu	53-59	M8/M10	M5 x 25	1.2 x 20	RLXL054
2"	60-66	M8/M10	M5 x 25	1.2 x 20	RLXL050
67cu	67-77	M8/M10	M6 x 30	1.5 x 25	RLXL067
76cu	75-84	M8/M10	M6 x 30	1.5 x 25	RLXL076
3"	83-93	M8/M10	M6 x 30	1.5 x 25	RLXL080
95mm	94-104	M8/M10	M6 x 30	1.5 x 25	RLXL095
108cu	102-111	M8/M10	M6 x 30	1.5 x 25	RLXL108
4"	109-119	M8/M10	M6 x 30	1.5 x 25	RLXL100
120cu	122-135	M8/M10	M6 x 30	2 x 25	RLXL120
133cu	128-139	M8/M10	M6 x 30	2 x 25	RLXL133
5"	135-148	M8/M10	M6 x 30	2 x 25	RLXL125
159cu	151-164	M8/M10	M6 x 30	2 x 25	RLXL159
6"	158-170	M8/M10	M6 x 30	2 x 25	RLXL150

316 Stainless Steel Unlined Clip



Construction

316 Stainless Steel

For Use With

Trubore & Iso Stainless Steel tubes

Outdoor and salt water environments

Pipe Size	Grip Range (mm)	Boss Type	Screw (mm)	Material (mm)	Part Code
3/8"	15-19	M8/M10	M6x20	1.8x20	ULSS018
1/2"	20-25	M8/M10	M6x20	1.8x20	ULSS022
3/4"	26-30	M8/M10	M6x20	1.8x20	ULSS028
1"	32-36	M8/M10	M6x20	1.8x20	ULSS035
1-1/4"	38-43	M8/M10	M6x20	1.8x20	ULSS040
1-1/2"	47-51	M8/M10	M6x20	1.8x20	ULSS048
54mm	53-58	M8/M10	M6x20	1.8x20	ULSS054
2"	60-64	M8/M10	M6x20	1.8x20	ULSS060
70mm	68-72	M8/M10	M6x20	1.8x20	ULSS070
2-1/2"	75-80	M8/M10	M6x20	1.8x20	ULSS075
83mm	81-86	M8/M10	M6x20	1.8x20	ULSS083
3"	87-92	M8/M10	M6x20	1.8x20	ULSS090
3-1/2"	99-105	M8/M10	M6x20	1.8x20	ULSS100
110mm	107-112	M8/M10	M6x20	1.8x20	ULSS110
4"	113-118	M8/M10	M6x20	1.8x20	ULSS115
125mm	125-130	M8/M10	M6x20	1.8x20	ULSS125
5"	138-142	M8/M10	M6x20	1.8x20	ULSS140
6"	159-166	M8/M10	M6x20	1.8x20	ULSS160

316 Stainless Steel Backplate



Construction

316 Stainless Steel

Sizes

M8/M10 Duel Boss

Part Code - MRSF0810

316 Stainless Steel Lined Clip

Created on: 31/03/23
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Last Updated: 9/01/23



Construction

316 Stainless Steel
EPDM Rubber Lining

For Use With

Trubore & Iso Stainless Steel
tubes
Outdoor and salt water
environments

Pipe Size	Grip Range (mm)	Boss Type	Screw (mm)	Material (mm)	Part Code
3/8"	15-19	M8/M10	M6x20	1.8x20	RLSS015
1/2"	20-25	M8/M10	M6x20	1.8x20	RLSS022
3/4"	26-30	M8/M10	M6x20	1.8x20	RLSS028
1"	32-36	M8/M10	M6x20	1.8x20	RLSS035
1-1/4"	38-43	M8/M10	M6x20	1.8x20	RLSS042
1-1/2"	47-51	M8/M10	M6x20	1.8x20	RLSS048
54mm	53-58	M8/M10	M6x20	1.8x20	RLSS054
2"	60-64	M8/M10	M6x20	1.8x20	RLSS060
67mm	68-73	M8/M10	M6x20	1.8x20	RLSS067
2-1/2"	75-80	M8/M10	M6x20	1.8x20	RLSS076
83mm	81-86	M8/M10	M6x20	1.8x20	RLSS090
3"	87-92	M8/M10	M6x20	1.8x20	RLSS095
3-1/2"	99-105	M8/M10	M6x20	1.8x20	RLSS100
110mm	107-112	M8/M10	M6x20	1.8x20	RLSS110
4"	113-118	M8/M10	M6x20	1.8x20	RLSS115
125mm	125-130	M8/M10	M6x20	1.8x20	RLSS125
5"	138-142	M8/M10	M6x20	1.8x20	RLSS140
160mm	159-166	M8/M10	M6x20	1.8x20	RLSS160

Heavy Duty Surefix HD Unlined Clip

Construction

Mild Steel
 BZP Finish

For Use With

Steel & Cast Iron Tubes
 Insulated Pipe Supports



Pipe Size	Grip Range (mm)	Boss Type	Screw (mm)	Material (mm)	Part Code
50nb / 2"	60-68	M12	M8 x 25	25 x 2	HDUL050
67mm	66-73	M12	M8 x 25	25 x 2	HDUL060
65nb / 2 1/2"	74-81	M12	M8 x 25	25 x 2	HDUL065
85mm	82-88	M12	M8 x 25	25 x 2	HDUL075
80nb / 3"	88-97	M12	M8 x 25	25 x 2	HDUL080
100mm	93-100	M12	M8 x 25	25 x 2	HDUL085
105mm	101-109	M12	M8 x 25	30 x 2.5	HDUL095
100nb / 4"	110-118	M12	M8 x 25	30 x 2.5	HDUL100
120mm	116-126	M12	M10 x 40	30 x 3	HDUL110
135mm	130-141	M12	M10 x 40	30 x 3	HDUL120
125nb / 5"	136-145	M12	M10 x 40	30 x 3	HDUL125
145mm	144-154	M12	M10 x 40	30 x 3	HDUL140
150nb / 6"	160-169	M12	M10 x 40	30 x 3	HDUL150
175mm	170-180	M16	M10 x 40	30 x 3	HDUL180
200nb / 8"	219-230	M16	M10 x 40	30 x 3	HDUL200
210mm	202-214	M16	M10 x 40	30 x 3	HDUL210
245mm	245-255	M16	M10 x 40	30 x 3	HDUL245
250nb / 10"	273-283	M16	M10 x 40	30 x 3	HDUL250

Heavy Duty Surefix HD Rubber Lined Clip

Construction

Mild Steel BZP Finish

For Use With

Copper & Plastic Tubes



Special Features

Rubber Lining tested to DIN4109 for Acoustic Use

Pipe Size	Grip Range (mm)	Boss Type	Screw (mm)	Material (mm)	Part Code
67cu / 2"	60-69	M12	M8 x 25	25 x 2	HDRL050
76cu / 2 1/2"	75-81	M12	M8 x 25	25 x 2	HDRL065
80nb / 3"	83-91	M12	M8 x 25	25 x 2	HDRL075
108cu	102-112	M12	M8 x 25	30 x 2.5	HDRL105
125mm	122-138	M12	M10 x 40	30 x 3	HDRL110
125nb / 5"	136-147	M12	M10 x 40	30 x 3	HDRL125
155mm	153-164	M12	M10 x 40	30 x 3	HDRL140
200mm	196-209	M16	M10 x 40	30 x 3	HDRL180

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Suplitech 100 - Split Band

For Steel Pipes and Insulated Pipe Supports

Created on: 31/03/23

Version: 1.00

Last Updated: 9/01/23



Construction

Mild Steel
BZP Finish
c/w HT Sets & Nuts

For Use With

Steel Tubes
Cast Iron Tubes
Insulated Pipe Supports

Other sizes available on request

Size ID (mm)	Size NB	Hole Centres (mm)	Bolt Size (mm)	Material Width & Thickness (mm)	Part Code
21	15NB / 1/2"	50	M8 x 25	25 x 3	100ZP021
27	20NB / 3/4"	60	M8 x 25	25 x 3	100ZP027
34	25NB / 1"	64	M8 x 25	25 x 3	100ZP034
42	32NB / 1 1/4"	85	M10 x 30	30 x 3	100ZP042
45		88	M10 x 30	30 x 3	100ZP045
48	40NB / 1/2"	90	M10 x 30	30 x 3	100ZP048
54		90	M10 x 30	30 x 3	100ZP054
60	50NB / 2"	115	M10 x 30	30 x 3	100ZP060
65		115	M10 x 30	30 x 3	100ZP065
76	65NB / 2 1/2"	125	M10 x 30	30 x 3	100ZP076
83		130	M10 x 30	30 x 3	100ZP083
89	80NB / 3"	137	M10 x 30	30 x 3	100ZP089
95		143	M10 x 30	30 x 3	100ZP095
102		156	M10 x 30	30 x 3	100ZP102
108		162	M10 x 30	40 x 3	100ZP108
114	100 NB / 4"	175	M10 x 30	40 x 3	100ZP114
121		187	M10 x 30	40 x 3	100ZP121
127		190	M10 x 30	40 x 3	100ZP127
133		200	M10 x 30	40 x 3	100ZP133
140		205	M10 x 30	40 x 3	100ZP140
146		210	M10 x 30	40 x 3	100ZP146
152		218	M10 x 30	40 x 3	100ZP152
159		228	M12 x 40	40 x 3	100ZP159
168	150 NB / 6"	230	M12 x 40	40 x 3	100ZP168
173		240	M12 x 40	40 x 3	100ZP173
178		248	M12 x 40	40 x 3	100ZP178
186		258	M12 x 40	40 x 5	100ZP186
193		265	M12 x 40	40 x 5	100ZP193
199		276	M12 x 40	40 x 5	100ZP199
208		284	M12 x 40	40 x 5	100ZP208
216		290	M12 x 40	40 x 5	100ZP216
220	200 NB / 8"	300	M12 x 40	40 x 5	100ZP220
225		302	M12 x 40	40 x 5	100ZP225
232		310	M12 x 40	40 x 5	100ZP232
244		313	M12 x 40	40 x 5	100ZP244
252		318	M12 x 40	40 x 5	100ZP252
259		320	M12 x 40	40 x 5	100ZP259
268		336	M12 x 40	40 x 5	100ZP268
273	250 NB / 10"	360	M16 x 50	50 x 6	100ZP273
283		364	M16 x 50	50 x 6	100ZP283
290		374	M16 x 50	50 x 6	100ZP290
298		383	M16 x 50	50 x 6	100ZP298
308		405	M16 x 50	50 x 6	100ZP308
323	300 NB / 12"	420	M16 x 50	50 x 6	100ZP323

Tolerance +/-5mm

ROCKTHERM™ Stone Wool Pipe Support

The **Rocktherm™** thermal pipe support inserts are manufactured from high density Stone Wool to suit a full range of diameters and thicknesses covering Copper, Steel and plastic pipes.

BS5970 2012 thermal insulation code of practice recommends the use of insulated pipe support inserts and that the pipe support bracket be fixed over load bearing insulation of the same material (or compatible with) the insulation on the pipe.

The **Rocktherm™** thermal pipe support inserts are supplied with a factory applied aluminium foil vapour Barrier and are cut to the required length. A half metal sleeve (or full if required) can be applied, often required from 48mm O/D and above.

The use of factory manufactured Stone Wool insulated load bearing thermal pipe support inserts will greatly reduce the risk of condensation on cold/chilled water pipe applications, providing continuous insulation and vapour resistance as well as enhancing the thermal insulation performance of the system. The thermal pipe support inserts should also be used on hot and heating pipe work for continuous thermal insulation and reduction in heat loss.

Manufacturing Process

The **Rocktherm™** thermal pipe support inserts are manufactured from Paroc Pro Slab with a density of 200kg/m³ as standard, an aluminium foil vapour Barrier is then adhered to the outer surface with an aqueous inorganic, non-combustible adhesive.

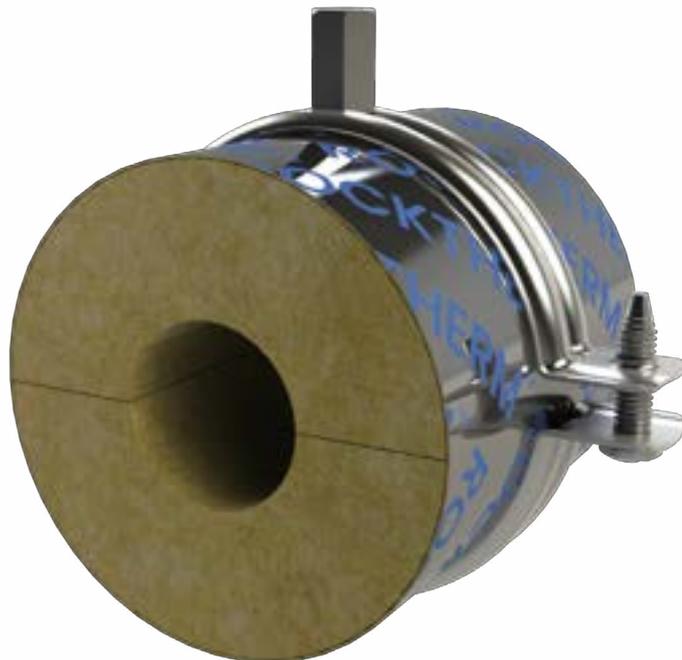
Dimensional Stability

Although the material has a maximum service temperature of 660°C and maintains dimensional stability in slab form, the maximum service temperature for dimensional Stability as a pipe insert is **250 °C**

Product Characteristics

PROPERTY	DESCRIPTION
Standard O/D Range	15mm to 205mm
	Other diameters available on request
Standard Wall Thickness	20mm to 100mm
	Other thicknesses available on request
Standard Lengths	80mm & 100mm
Nominal Density	200kg/m ³
Reaction to Fire	Non-combustible

ROCKTHERM™



Phenolic Pipe Supports

Created on: 31/03/23
Version: 1.00
Last Updated: 9/01/23

Properties

CFC/HCFC-free with zero Ozone Depletion Potential (ODP)

High Closed Cell Content

Inert Bore Coated for use on all Pipes Including Copper



General Physical Properties (Metric)					
Property	Test Method	Unit	Typical Value		
Nominal Density		Kg/m ³	60	80	120
Thermal Conductivity at +10°C	(EN 12667 2001)	W/m-K	0.031	0.036	0.045
Colour			Pink / Grey	Grey	Grey
Closed Cell Content	(EN ISO 4590) Method 1	%	>90%	>90%	>90%
Operating Temperature Limits	Upper Limit	°C	110	110	110
	Lower Limit	°C	-50	-50	-50

* Factory applied low permeability multiple layer vapour Barrier jacket recommended for applications operating below 0°C.

SUP Threaded Rod



Construction

Mild Steel 4.8 Grade to
 DIN 975

BZP Finish

Standard Lengths	Cut Lengths (mm)		
Size (Part Code)	Size (Part Code)	Size (Part Code)	Size (Part Code)
M6 x 1m (ST061)	M10 x 25 (STCU025)	M10 x 160 (STCU160)	M10 x 350 (STCU350)
M10 x 1m (ST101)	M10 x 30 (STCU030)	M10 x 170 (STCU170)	M10 x 360 (STCU360)
M12 x 1m (ST121)	M10 x 40 (STCU040)	M10 x 180 (STCU180)	M10 x 370 (STCU370)
M16 x 1m (ST161)	M10 x 50 (STCU050)	M10 x 200 (STCU200)	M10 x 390 (STCU390)
	M10 x 60 (STCU060)	M10 x 210 (STCU210)	M10 x 400 (STCU400)
	M10 x 70 (STCU070)	M10 x 220 (STCU220)	M10 x 450 (STCU450)
	M10 x 80 (STCU080)	M10 x 230 (STCU230)	M10 x 465 (STCU465)
	M10 x 90 (STCU090)	M10 x 240 (STCU240)	M10 x 500 (STCU500)
	M10x100 (STCU100)	M10 x 250 (STCU250)	M10 x 550 (STCU550)
	M10 x 110 (STCU110)	M10 x 275 (STCU275)	M10 x 580 (STCU580)
	M10 x 120 (STCU120)	M10 x 280 (STCU280)	M10 x 600 (STCU600)
	M10 x 125 (STCU125)	M10 x 300 (STCU300)	M10 x 650 (STCU650)
	M10 x 130 (STCU130)	M10 x 310 (STCU310)	M10 x 700 (STCU700)
	M10 x 140 (STCU140)	M10 x 320 (STCU320)	M10 x 750 (STCU750)
	M10 x 150 (STCU150)	M10 x 340 (STCU340)	M10 x 800 (STCU800)

SUP 104 S/E 'U' Bolt

For Steel Pipes & Insulated Pipe Supports

Created on: 31/03/23

Version: 1.00

Last Updated: 9/01/23

Construction

Mild Steel

BZP Finish

c/w 4 hex nuts

For Use With

Steel Tubes

Cast Iron Tubes

Insulated Pipe Supports



Size ID (mm)	Rod Dia (mm)	Thread Length (mm)	Stock Code
21	M6	30	104ZP 21 030 06
27	M6	30	104ZP 27 030 06
34	M6	30	104ZP 34 030 06
42	M10	40	104ZP 42 040 10
45	M10	89	104ZP 45 089 10
48	M10	40	104ZP 48 040 10
51	M10	89	104ZP 51 089 10
56	M10	89	104ZP 56 089 10
60	M10	40	104ZP 60 040 10
62	M10	89	104ZP 62 089 10
67	M10	89	104ZP 67 089 10
72	M10	89	104ZP 72 089 10
76	M10	40	104ZP 76 040 10
78	M10	89	104ZP 78 089 10
85	M10	89	104ZP 85 089 10
86	M10	89	104ZP 86 089 10
89	M12	40	104ZP 89 040 12
91	M10	103	104ZP 91 103 10
97	M10	89	104ZP 97 089 10
104	M10	89	104ZP 104 089 10
110	M10	89	104ZP 110 089 10
114	M12	40	104ZP 114 040 12
116	M10	89	104ZP 116 089 10
123	M10	89	104ZP 123 089 10
129	M12	89	104ZP 129 089 12
135	M12	89	104ZP 135 089 12
140	M12	40	104ZP 140 040 12
141	M12	103	104ZP 141 103 12
146	M12	89	104ZP 146 089 12
150	M12	89	104ZP 150 089 12
154	M12	89	104ZP 154 089 12
161	M12	103	104ZP 161 103 12
166	M12	89	104ZP 166 089 12
168	M12	50	104ZP 168 050 12
170	M12	103	104ZP 170 103 12
175	M12	103	104ZP 175 103 12
180	M12	103	104ZP 180 103 12
185	M12	103	104ZP 185 103 12
191	M12	103	104ZP 191 103 12
195	M12	103	104ZP 195 103 12
201	M12	103	104ZP 201 103 12
208	M12	103	104ZP 208 103 12
212	M12	103	104ZP 212 103 12
216	M12	103	104ZP 216 103 12
220	M12	50	104ZP 220 050 12
222	M12	117	104ZP 222 117 12

Size ID (mm)	Rod Dia (mm)	Thread Length (mm)	Stock Code
225	M16	50	104ZP 225 050 16
228	M12	103	104ZP 228 103 12
234	M12	103	104ZP 234 103 12
240	M12	103	104ZP 240 103 12
246	M12	103	104ZP 246 103 12
254	M16	103	104ZP 254 103 16
260	M16	103	104ZP 260 103 16
264	M16	103	104ZP 264 103 16
268	M16	103	104ZP 268 103 16
273	M16	50	104ZP 273 050 16
275	M16	117	104ZP 275 117 16
277	M16	50	104ZP 277 050 16
285	M16	117	104ZP 285 117 16
292	M16	117	104ZP 292 117 16
301	M16	117	104ZP 301 117 16
310	M16	117	104ZP 310 117 16
323	M16	50	104ZP 323 050 16
325	M16	117	104ZP 325 117 16

SUP 170 - Filbow Clamp

LPCB Approved for Steel Pipes



Construction

Cold Rolled Mild Steel
 BZP Finish

For Use With

Steel Tubes

Nominal Imperial	OD (mm)	Height	Width (mm)	Hole Ø	Material (mm)	Part Code
25nb / 1"	36	65.5	46.5	10.5	25 x 1.2	FIL025LPCB
32nb / 1 1/4"	46	79.9	55.7	10.5	25 x 1.2	FIL032LPCB
40nb / 1 1/2"	52	85.9	58.7	10.5	25 x 1.2	FIL040LPCB
50nb / 2"	66	99.9	65.7	10.5	25 x 1.2	FIL050LPCB
65nb / 2 1/2"	78	116	75.5	10.5	25 x 1.5	FIL065LPCB
80nb / 3"	92	132	84.5	10.5	25 x 1.5	FIL080LPCB
100nb / 4"	116	167.5	107.5	10.5	25 x 2	FIL100LPCB
150nb / 6"	170	238	150.5	13	32 x 3	FIL150LPCB

SUP 203 - Bow Nut



Construction

Mild Steel
 BZP Finish

Sizes Available

M10, M12, M16, M20

SUP - Ball Hanger



Size	Movement	SWL
M8	+/-5°	1.5kN
M10	+/-5°	2.0kN
M12	+/-5°	2.5kN

Construction

Mild Steel BZP Finish

For Use With

Unlined & Lined Clip Range &
 Hanging brackets to reduce
 drop rod lateral loads

Wedge Nut

Construction

Mild Steel
 BZP Finish

Sizes Available

M6, M8, M10 & M12



SUP 240 G/M/B/C - Munsen Rings



240G = Galvanised 240M = Malleable Iron 240B = Cast Brass 240C = Chrome

Size	Thread	Stock Code
15mm	M10	MR (Finish) 015
20mm	M10	MR (Finish) 020
25mm	M10	MR (Finish) 025
32mm	M10	MR (Finish) 032
40mm	M10	MR (Finish) 040
50mm	M10	MR (Finish) 050
65mm	M12	MR (Finish) 065
80mm	M12	MR (Finish) 080
100mm	M12	MR (Finish) 100
125mm	M12	MR (Finish) 125
150mm	M12	MR (Finish) 150

SUP 241 G/M/B/C - School Board Clips



241G = Galvanised 241M = Malleable Iron 241B = Cast Brass 241C = Chrome

Size	Stock Code
15mm	SB (Finish) 015
20mm	SB (Finish) 020
25mm	SB (Finish) 025
32mm	SB (Finish) 032
40mm	SB (Finish) 040

Size	Stock Code
50mm	SB (Finish) 050
65mm	SB (Finish) 065
80mm	SB (Finish) 080
100mm	SB (Finish) 100

SUP 242 G/M/B/C - Backplates



242G = Galvanised 242M = Malleable Iron 242B M10 Male & Female Threads

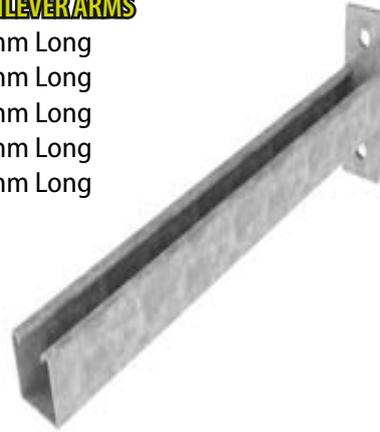


242C M10 Male & Female Threads

Fixing	Thread	Finish	Stock Code
Male	M10	Brass	MRBM10
Female	M10	Brass	MRBF10
Female	M10	Malleable	MRMF10
Female	M10	Galvanised	MRGF10
Female	M8/M10	BZP	MRZF0810
Female	M10	Chrome	MRCPF10
Male	M10	Chrome	MRCPM10

CANTILEVER ARMS

- 150mm Long
- 300mm Long
- 450mm Long
- 600mm Long
- 750mm Long



STUDDING 1m



NUTS



WEDGE NUTS



WASHERS



BOLTS & SETS



PURLIN CLIPS



CHANNEL NUTS



SUP01



SUP02



SUP03



SUP04



SUP05



SUP06



SUP07



SUP08



SUP09
41 x 21



SUP10
41 x 41



SUP11



SUP12



SUP13



SUP14



SUP15



SUP16



SUP17



SUP18



Key Points



Flanges: Carbon Steel - drilled PN16 or PN6
(other flanges available)

Nylon re-inforced EPDM rubber body

Steel reinforced collars

Round flanges - no tie bars

Size (mm)	Installed Length	Material Type	Temperature Limits °C	Part Code
32	130	Nylon Reinforced EPDM	-10 to +90	PF6/16 U 032
40	130	Nylon Reinforced EPDM	-10 to +90	PF6/16 U 040
50	130	Nylon Reinforced EPDM	-10 to +90	PF6/16 U 050
65	130	Nylon Reinforced EPDM	-10 to +90	PF6/16 U 065
80	130	Nylon Reinforced EPDM	-10 to +90	PF6/16 U 080
100	130	Nylon Reinforced EPDM	-10 to +90	PF6/16 U 100
125	130	Nylon Reinforced EPDM	-10 to +90	PF6/16 U 125
150	130	Nylon Reinforced EPDM	-10 to +90	PF6/16 U 150

Supplitech S-Flex Pump Flexibles are installed to absorb vibration and noise levels caused by “plant” upon which they are fitted. These are suitable for use on systems carrying chilled & heating Water. Please see above for temperature & pressure limits.

Supplitech S-Flex units are not suitable for use with potable water, water with oil additives, compressed air and food applications.

Supplitech S-Flex Untied units should not be installed on pumps located on inertia bases

Supplitech S-Flex units are manufactured from spherical moulded EPDM, which is a soft compound to offer a high isolation efficiency and high noise absorbing properties.

The units are a full bore thus removing pressure drop problems. The EPDM rubber is nylon re-inforced, and has a Steel wire re-inforced collar.

Flanges BZP coated carbon Steel PN16.

S-Flex units have up to 10 year design life* and are warrantied for a period of 12 months** from supply.

Supplitech S-Flex units are stamped with origin of manufacture, date of manufacture, batch number and size.

Please note no torsion forces should be applied to these units.

Supplitech Ltd also supply DIN 4809 approved Pump Flexibles. Please contact our sales office for further information.

* Design life is guidance only. This guidance assumes the unit will not be working at the extremes of its working capacity. This in no way implies a warranty or a guarantee.
** 12 Months warranty is against manufacturing defect only and is limited to the supply only of a replacement product of the same type.

Key Points

Flanges: Carbon Steel - drilled PN16
 (Other Flanges Available)

Nylon re-inforced EPDM rubber body

Steel reinforced collars

Tie Bars: Anti-Tamper Carbon Steel



Size (mm)	Installed Length	Material Type	Temperature Limits°C	Part Code
32	130	Nylon Reinforced EPDM	-10 to +90	PF16 T 032
40	130	Nylon Reinforced EPDM	-10 to +90	PF16 T 040
50	130	Nylon Reinforced EPDM	-10 to +90	PF16 T 050
65	130	Nylon Reinforced EPDM	-10 to +90	PF16 T 065
80	130	Nylon Reinforced EPDM	-10 to +90	PF16 T 080
100	130	Nylon Reinforced EPDM	-10 to +90	PF16 T 100
125	130	Nylon Reinforced EPDM	-10 to +90	PF16 T 125
150	130	Nylon Reinforced EPDM	-10 to +90	PF16 T 150
200	130	Nylon Reinforced EPDM	-10 to +90	PF16 T 200
250	130	Nylon Reinforced EPDM	-10 to +90	PF16 T 250
300	On Request	Nylon Reinforced EPDM	-10 to +90	PF16 T 300
350	On Request	Nylon Reinforced EPDM	-10 to +90	PF16 T 350

Supplitech S-Flex Pump Flexibles are installed to reduce vibration and noise levels caused by “plant” upon which they are fitted. These are suitable for use on systems carrying chilled & heating water. Please see above for temperature & pressure limits. Supplitech S-Flex units are not suitable for use with potable water, water with oil additives, compressed air and food applications.

Supplitech S-Flex units are manufactured from spherical moulded EPDM, which is a soft compound to offer a high isolation efficiency and high noise absorbing properties.

The S-Flex units tied type has specially designed anti tamper Tie Bars. This will only allow the units to be installed at their optimal length and avoid elongation of the unit. These units rated to maximum 10 Bar working pressure, 15Bar test pressure

The units are a full bore thus removing pressure drop problems. The EPDM rubber is nylon re-inforced, and has a Steel wire re-inforced collar.

Flanges BZP coated carbon Steel PN16.

S-Flex units have up to 10 year design life* and are warrantied for a period of 12** months from supply.

Supplitech S-Flex units are stamped with origin of manufacture, date of manufacture, batch number and size.

Please note no torsion forces should be applied to these units.

Supplitech Ltd also supply DIN 4809 approved Pump Flexibles. Please contact our sales office for further information.

* Design life is guidance only. This guidance assumes the unit will not be working at the extremes of its working capacity. This in no way implies a warranty or a guarantee.

** 12 Months warranty is against manufacturing defect only and is limited to the supply only of a replacement product of the same type.

Supplitech Ltd Reserves the right to alter / amend product data without prior notification

PN16 IBC Non Asbestos Gaskets

Created on: 31/03/23
Version: 1.00
Last Updated: 9/01/23

Size (mm)
15
20
25
32
40
50
65
80
100
125
150
200
250
300
350
400



Construction

Manufactured with Mineral Fibre, Organic Fibre, Aramid Fibre & High quality Elastomers

1.5mm thickness

Operating Conditions:

Max. Peak Temperature 250°C

Max Continuous Temperature 180°C

Max Continuous Temperature with Steam 120°C

Max. Operating Pressure 50kg/cm²

RESTRICTIONS: May not be used in superheated steam, gas and refrigerants lines.

S-Flex Screwed Pump Flexible

Key Points



Unions: Carbon Steel

Nylon Re-inforced EPDM rubber body

Steel Reinforced Collars

6 Bar working pressure

Size (mm)	Installed Length	Material Type	Temperature Limits °C	Part Code
15	200	Nylon Reinforced EPDM	-10 to +90	PFS 015
20	200	Nylon Reinforced EPDM	-10 to +90	PFS 020
25	200	Nylon Reinforced EPDM	-10 to +90	PFS 025
32	200	Nylon Reinforced EPDM	-10 to +90	PFS 032
40	200	Nylon Reinforced EPDM	-10 to +90	PFS 040
50	200	Nylon Reinforced EPDM	-10 to +90	PFS 050

Supplitech S-Flex Pump Flexibles are installed to absorb vibration and noise levels caused by “plant” upon which they are fitted. These are suitable for use on systems carrying chilled & heating water. Please see above for temperature & pressure limits.

Supplitech S-Flex units are not suitable for use with potable water, water with oil additives, compressed air and food applications.

Supplitech S-Flex Screwed units should not be installed on pumps located on inertia bases

Supplitech S-Flex units are manufactured from spherical moulded EPDM, which is a soft compound to offer a high isolation efficiency and high noise absorbing properties.

The units are a full bore thus removing pressure drop problems. The EPDM rubber is nylon re-inforced, and has a Steel wire re-inforced collar.

Unions BZP coated carbon Steel PN16.

S-Flex units have up to 10 year design life and are warranted for a period of 12 months from supply.

Supplitech S-Flex units are stamped with origin of manufacture, date of manufacture, batch number and size.

Please note no torsion forces should be applied to these units.

Supplitech Ltd also supply DIN 4809 approved Pump Flexibles. Please contact our sales office for further information.

S-Flex Pump Flexible

Fitting Instructions

Created on: 31/03/23
Version: 1.00
Last Updated: 9/01/23

Upto 10 years Design Life* on LTHW & CHW systems. - 12 Months Warranty** from date of supply. - Not suitable for potable water.

Flange Suitability:

Weld Neck Flanges



Slip on Flange



Slip-on Flange with Gasket



Pre-installation check

1. Selection

Prior to installation, check you have the right flexibles for the particular duty. All Supplitech S-Flex Rubber Pump Flexibles have temperature and pressure limitations. Please see the appropriate data sheets for your particular product. This is **NOT** a product for taking up pipework expansion.

All rubber flexibles will extend under pressure. This creates thrust forces which can be very substantial. We recommend at pressures above 2 Bar and diameters above 65mm nominal bore size, unless the pipe work can be sufficiently anchored directly after the unit, the Supplitech S-Flex Anti-Tamper Tied pump flexibles should be used.

2. Mating Flanges

We recommend the rubber flexibles are mated up against full-bore weld neck flanges. If installed in this manner no additional gaskets are required.

We advise against using slip-on or screwed flanges as mating flanges, as these can damage the rubber bellows. Once the sealing face has been damaged, water/medium will penetrate the reinforcement layers and destroy the integrity of the flexibles.

If it is unavoidable to use this type of mating flange, a gasket must be installed (this should be a hard gasket and be at least 3mm thick). The gasket should reach the internal bore of the rubber bellows. Another option is to fill the gap of the slip-on flange with weld and grind it flush. However, the surface finish must be level and smooth to ensure that the bellow is not damaged once installed.

3. Misalignment

Check the two mating flanges are parallel and that they are in line (maximum allowed offset is 5mm in any direction). The gap between flanges should be within +/- 5mm of the flexibles neutral. Compression or extension should be avoided.

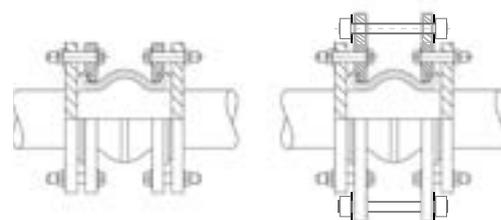
Under no circumstances must the pump flexible be used to take up misalignment. Ensure the pipework is adequately supported. The flexible must not support pipes or plant.

Installation (To Be Performed by Qualified Personnel)

1. Bolts

Bolts should be inserted from the bellows side (as shown on the diagram below). On some larger bolt lengths this may not be possible. In these cases a bolt of the exact and correct length needs to be selected.

An alternative is to use studding cut to length and fitted with a nut at both sides. Please select the bolt length carefully; even if there is space between the bolt and the rubber body of the bellow in an un-pressurised state, they may foul when pressurised and cause failure. Bolts of the right diameter must be used to ensure correct alignment.



2. Alignment

Take care when inserting the flexibles into the gap between the two mating flanges. Sharp edges can damage the sealing face of the rubber flexibles. Before tightening the bolts, ensure the flexible sits evenly in its flange groove and does not get pinched between flanges. The sealing face of the flexibles must be concentric with the sealing face of the mating flanges.

3. Tightening the Bolts

Great care must be taken with the tightening of the flange bolts. Remember you are tightening against a rubber face. As with gaskets, over tightening will cause the joints to leak and it will damage the bellows. Tighten opposite bolts to get an even pressure all round (check the gap between the flanges). Rubber will set and the bolts will have to be retightened after 24 hours.

4. Tie Bars

Do not fit aftermarket tie Bars to a Supplitech S-Flex Pump Flexible. S-Flex Tied Pump Flexibles are supplied with Tie Bars, if you need to fit Tie Bars to an untied unit, it should be changed for a S-Flex Tied Unit. When three or more tie Bars are fitted it may be necessary to remove one tie Bar to install the bellows. Ensure that washers are re-assembled in the right order and orientation.

* Design life is guidance only. This guidance assumes the unit will not be working at the extremes of its working capacity. This in no way implies a warranty or a guarantee.

** 12 Months warranty is against manufacturing defect only and is limited to the supply only of a replacement product of the same type.

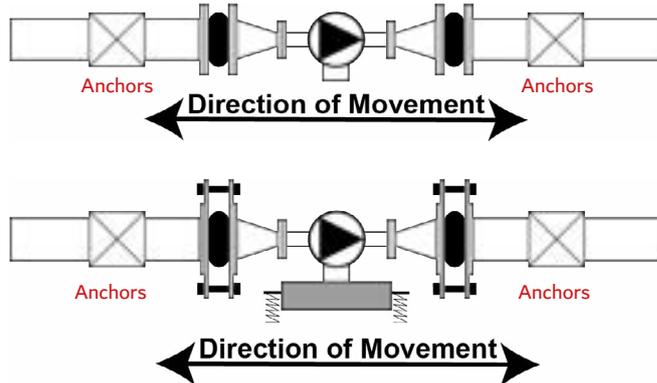
Taking care of rubber flexibles:

1. Paint - do not paint rubber flexibles. The paint will attack the rubber (this also applies to paint splatter).
 2. Welding - protect the rubber from weld spatter.
 3. Lagging - do not lag rubber flexibles on heating systems. The increased temperature will reduce life.
 4. Tie Bar check - once the system is filled but not under pressure, check the tie Bars are still tight (pipe work on springs may have dropped due to the weight of the water).
- Note: Tied Pump Flexibles are supplied with anti-tamper tie Bars, therefore the Tie Bars cannot be slackened off and should not be removed, doing so could lead to, major damage to the unit thus damaging equipment.
5. Water Treatment – The pump flexible range incorporates an EPDM inner liner. EPDM is a proven material in heating and chilled water systems. It is resistant to glycol and to most chemicals used in water treatment, when used in normal concentrations. We cannot approve any specific chemical, and suggest you always check with the chemical supplier that the additives are suitable for use with EPDM rubber.

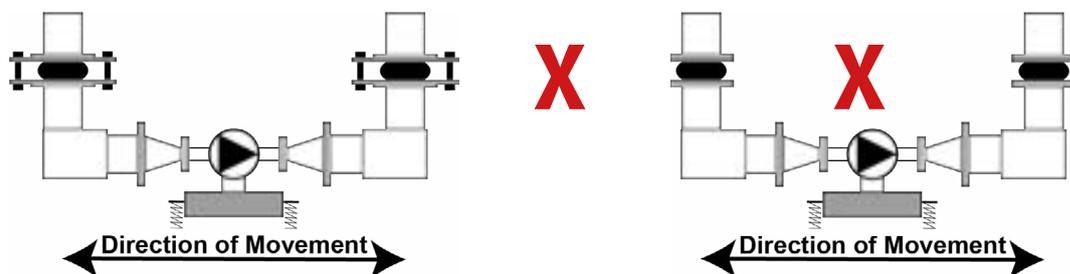
Best Practice

The following are only recommendations but if followed they will ensure proper installation and maximum service life of the rubber bellows. We recommend the use of spool pieces to align mating flanges and to ensure the correct gap.

1. Pump flexibles should **NEVER** be used to counter mis-alignment in pipework.
2. Pump flexibles should never be used to support the pipework. Correct guiding and anchoring should be installed close to the pump flexibles.
3. PUMPS - When the pump flexibles are installed on rotating equipment such as pumps to absorb noise and vibration, the first bracket position after the flexibles should be an anchor. This allows the flexibles to absorb vibration but, limits their ability to extend under pressure acting as an acoustic break. If pumps are not mounted on springs or inertia bases untied pump flexibles can be used.
4. INERTIA BASES - Where pumps are installed on inertia bases, tied pump flexibles should be used. The flexible connection should be directly onto the pump or as near as possible, with anchor points installed after the flexible.
5. IN A RISE - Where pumps are installed on inertia bases, care should be taken **NOT** to install pump flexibles in vertical pipework on either the return to the pump or flow from the pump, the reasons for this are:
 - i. The movement direction changes from axial to lateral.
 - ii. As a result, dependent upon where in the rise the flexibles are, a greater amount of movement can be expressed on the unit laterally, and can be a compound movement with angulation too.
 - iii. Pipe has a greater tendency to use the flexible as a support, as any rigid support would stop the inertia base from working.



In these circumstances neither tied or untied versions are suggested, although, if there is no alternative, a tied unit will offer a better degree of protection.



5. PIPE RUNS - Where pump flexibles are being installed to compensate for pipe borne vibration, the flexible still requires anchor on each side to restrict the possibility of extension under pressure. All pipework should be correctly supported between anchors with slide guides to allow movement.

Key Points

Suitable for potable water

Suitable for high temperatures

PED Certified as required

Stainless Steel to all wetted areas



Size (mm)	Installed Length	Material Type	Temperature Limits °C	Part Code
32nb / 35cu	150	316 St/Steel to all Wet Areas	-10 to +200	FA3 032
40nb / 42cu	150	316 St/Steel to all Wet Areas	-10 to +200	FA3 040
50nb / 54cu	150	316 St/Steel to all Wet Areas	-10 to +200	FA3 050
65nb / 67cu	150	316 St/Steel to all Wet Areas	-10 to +200	FA3 065
80nb / 76cu	150	316 St/Steel to all Wet Areas	-10 to +200	FA3 080
100nb / 108cu	150	316 St/Steel to all Wet Areas	-10 to +200	FA3 100
125nb / 133cu	150	316 St/Steel to all Wet Areas	-10 to +200	FA3 125
150nb / 159cu	150	316 St/Steel to all Wet Areas	-10 to +200	FA3 150
200nb	150	316 St/Steel to all Wet Areas	-10 to +200	FA3 200
250nb	On Request	316 St/Steel to all Wet Areas	-10 to +200	FA3 250
300nb	On Request	316 St/Steel to all Wet Areas	-10 to +200	FA3 300
350nb	On Request	316 St/Steel to all Wet Areas	-10 to +200	FA3 350
400nb	On Request	316 St/Steel to all Wet Areas	-10 to +200	FA3 400

Supplitech S-Flex Pump Flexibles are installed to reduce vibration and noise levels caused by “plant” upon which they are fitted. These are suitable for use on systems carrying high temperature water or potable water systems. Please see above for temperature & pressure limits. Supplitech FA3 units are suitable for use with potable water, water with oil additives, compressed air and food applications.

Material Specification

Connections: Carbon Steel Drilled PN16 Van-stone facings
 Convolutions: 316 Stainless Steel
 Internal Sleeve: 316 Stainless Steel
 Tie Rods: Carbon Steel
 Hemispherical Washers: Carbon Steel
 Connecting Spool: 316 Stainless Steel

The Supplitech Type FA3 Pump Flexible is suitable for use on systems up to 200°C at 16 Bar pressure. PED certification supplied dependent upon application.

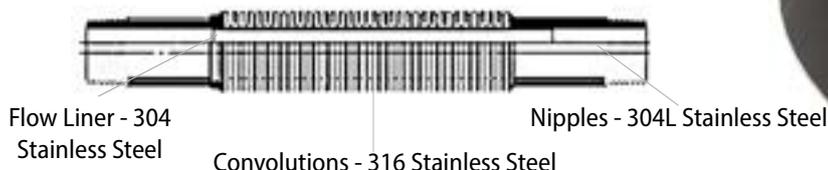
All units are supplied at installation lengths and are pre stressed. Please note, Supplitech Ltd can design and supply flexible connections to accommodate higher system temperatures / pressures. Please advise at time of your enquiry / order the system temperature and pressure to allow the correct selection of your compensator.

Key Points

- Requires fully guiding
- Available in any temperature or pressure
- Supplied with CE certs where applicable
- Internal flow liner as standard



Material Specification



Supplitech Type AX3 Axial Bellows

Designed to accept linear expansion on Steel & Copper pipe systems.

Working Conditions

Pressure: Standard 10 Bar (Upto 16 Bar - Dependant on PED conditions)
 Temperature: 120 Degrees C
 Test: 1.5x Working

PED Requirements

All Bellows supplied by Supplitech Ltd are manufactured and certified in accordance with EU PED Legislation and as such carry the relevant CE certification where required.

Size (mm)	Axial Compression (mm)	Installed Length	Effective Area cm ²	Force to Compress N/mm	Part Code
15	25	200	3	3.9	AX325015
20	25	200	6	7.8	AX325020
25	25	200	9	12.7	AX325025
32	25	210	13	17.2	AX325032
40	25	220	20	19.6	AX325040
50	25	250	30	19.6	AX325050
15	50	300	3	3.9	AX3N5015
20	50	300	6	7.8	AX3N5020
25	50	300	9	12.7	AX3N5025
32	50	310	13	17.2	AX3N5032
40	50	320	20	19.6	AX3N5040
50	50	350	30	19.6	AX3N5050

The anchor loads generated by using this type of axial expansion compensator are high. It is worth keeping in mind the type of pipe-work bracketry that will be used. A guide bracket with a low frictional resistance should be used such as Supplitech LF Slide guides or Supplitech Guide Clips.

Please note these units are not suitable for use on a drop rod system and need to be suitably guided. Please consult the expansion compensator application guide for positioning of anchor points and subsequent support centres.

Primary Pipe Guide Spacings

PRIMARY GUIDES - 2-4 PIPE DIAMETERS



Supplitech Ltd Reserves the right to alter / amend product data without prior notification

AX3 (Copper Pipe End)

Key Points



Fittings: Copper Pipe Ends
 (Copper & Stainless steel to all wetted areas)

Convolutions: 316 Stainless Steel

Internal Sleeve: 316 Stainless Steel

Designed to accept linear expansion on stainless steel pipe systems. Standard product details are shown below, although these may vary dependant upon application and PED requirements.

Size (mm)	Installed Length	Axial Compression	Effective Area cm ²	Force to Compress N/mm	Max Temp & Pressure	Part Number
15	220	25	5.2	49	90°C @ 6 Bar	AX3CPE015
22	230	25	5.25	49	90°C @ 6 Bar	AX3CPE022
28	235	25	8.2	67	90°C @ 6 Bar	AX3CPE028
35	245	25	13.7	73	90°C @ 6 Bar	AX3CPE035
42	250	25	20	90	90°C @ 6 Bar	AX3CPE042
54	250	25	32.1	153	90°C @ 6 Bar	AX3CPE054

The anchor loads generated by this type of Axial Expansion Compensator are high. A bracket / guide with a low frictional resistance should be used in all bracket locations.

Please note these units are not suitable for use on a drop rod system and need to be suitably guided.

Please ask for more information on our Low Friction Guides & Guide Clips as well as suitable anchor brackets.

Primary & Secondary Pipe Guide Spacing



Anchor Point

Secondary Guides 12-14 Pipe od's

Primary Guides 2-4 Pipe od's

PED Requirements

All Bellows supplied are manufactured and certified in accordance with EU PED Legislation and as such carry the relevant CE certification where required.

Key Points

- Requires fully guiding
- Available for any temperature or pressure
- Supplied with CE Certs where applicable
- Internal flow liner as standard
- Bellows are Pre-cold drawn



Supplitech Type AX2 Axial Bellows

Designed to accept linear expansion on Copper and Stainless Steel pipe systems. Standard product details are shown below, although these may vary dependant upon application and PED requirements.

Material Specification

- Flanges: Carbon Steel PN16 with Stainless Steel facings (Stainless Steel to all wetted areas)
- Convolutions: 316 Stainless Steel
- Internal Sleeve: 316 Stainless Steel

Working Conditions

- Pressure: 16 Bar
- Temperature: 120 Degrees C
- Test: 1.5x Working

PED Requirements

All Bellows supplied by Supplitech Ltd are manufactured and certified in accordance with EU PED Legislation and as such carry the relevant CE certification where required.

Size (mm)	Axial Compression (mm)	Installed Length	Effective Area cm ²	Force to Compress N/mm	Part Code
32nb / 35cu	30	130	12.8	37	AX2032
40nb / 42cu	30	130	19.0	37	AX2040
50nb / 54cu	50	225	35.6	55	AX2050
65nb / 67cu	50	225	46.5	87	AX2065
80nb / 76cu	50	230	61.7	90	AX2080
100nb / 108cu	50	230	103.2	116	AX2100
125nb / 133cu	60	240	177.5	118	AX2125
150nb / 159cu	60	240	253.6	166	AX2150
200nb	70	275	453.5	176	AX2200
250nb	50	306	684.6	276	AX2250

The anchor loads generated by this type of axial expansion compensator are high. A bracket guide with a low frictional resistance should be used.

Please note these units are not suitable for use on a drop rod system and need to be suitably guided (e.g. Supplitech LF Slide Guide or Supplitech 253 Slide Guide). Please consult the expansion compensator application guide for positioning of anchor points and subsequent support centres.

Primary Pipe Guide Spacings



EPDM Flexible Hose

Key Points

EPDM Rubber Core

304 Stainless Steel Overbraid

WRAS approved components

95°C @ 10 Bar

13mm Bore

1/2" Connections

Available 300mm and 500mm long



Description - EPDM rubber hose with 304 Stainless Steel overbraid, swaged fittings to clients requirements.

Testing - Hydrostatic batch test to minimum 20 Bar cold. Test Certificate can be submitted upon request.

Applications -
Fan Coil Connections
Radiant Panel Connections
Tap Connections

SIZE	Stock Code
13mm od Bore x 300mm EPDM Hose Stainless Steel Overbraid 15mm Compression x 1/2" Swivel Female c/w Isolating Valve	ISFH15C15F300
13mm od Bore x 500mm EPDM Hose Stainless Steel Overbraid 15mm Compression x 1/2" Swivel Female c/w Isolating Valve	ISFH15C15F500
13mm od Bore x 300mm EPDM Hose Stainless Steel Overbraid 15mm Compression x 3/4" Swivel Female c/w Isolating Valve	ISFH15C20F300
13mm od Bore x 500mm EPDM Hose Stainless Steel Overbraid 15mm Compression x 15mm Compression	FH15C15C500
13mm od Bore x 300mm EPDM Hose Stainless Steel Overbraid 15mm Compression x 1/2" Swivel Female	FH15C15F300
13mm od Bore x 500mm EPDM Hose Stainless Steel Overbraid 15mm Compression x 1/2" Swivel Female	FH15C15F500
13mm od Bore x 300mm EPDM Hose Stainless Steel Overbraid 15mm Compression x 3/4" Swivel Female	FH15C20F300
13mm od Bore x 300mm EPDM Hose Stainless Steel Overbraid 1/2" Swivel Female x 1/2" Swivel Female	FH15F15F300
13mm od Bore x 500mm EPDM Hose Stainless Steel Overbraid 1/2" Swivel Female x 3/4" Swivel Female	FH15F15F500
13mm od Bore x 300mm EPDM Hose Stainless Steel Overbraid 1/2" Fixed Male x 15mm Compression	FH15M15C300
13mm od Bore x 500mm EPDM Hose Stainless Steel Overbraid 1/2" Fixed Male x 15mm Compression	FH15M15C500
13mm od Bore x 300mm EPDM Hose Stainless Steel Overbraid 1/2" Fixed Male x 1/2" Swivel Female	FH15M15F300
13mm od Bore x 500mm EPDM Hose Stainless Steel Overbraid 1/2" Fixed Male x 1/2" Swivel Female	FH15M15F500

Flexible Hose Fitting Instructions



Installation conditions as below must be adhered to, to ensure longevity of the product.



Slack is present on straight lengths
& ends are aligned



Avoid bending radius becoming too small by using elbows



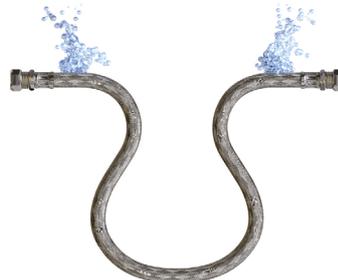
Hose is long enough to allow smooth curve



Do not bend hose too close to crimped end



Observe minimum bend radius



Key Points

Microbubble Type

Flanged PN16

10 Bar Working Pressure

110°C

C/W Auto Air Vent, Angled Radiator Valve and Male x Female Lever Ball Valve



For use in sealed heating and cooling systems. Air and Dirt Separators protect against damage caused by the deposit of dirt particles, and large amounts of dissolved and undissolved air.

Reduction in:

- Corrosion of pipe and fittings.
- Dependence on chemicals.
- Unwanted dirt build up in equipment & pipe

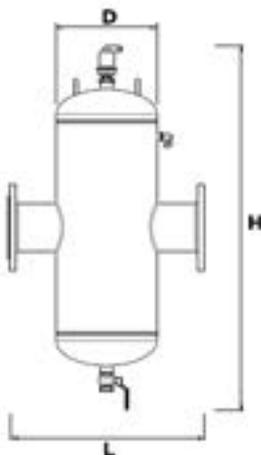
Whilst increasing efficiency of:

- Boilers & Heat Exchangers.
- Chillers
- Pumps

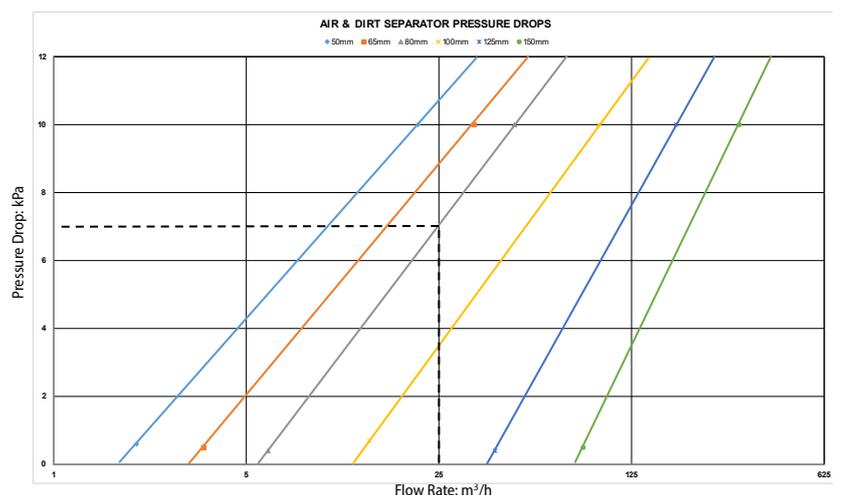
Air and Dirt Separators are essential when refurbishing older systems or when an open system is converted to a closed system.

- Flanged connection EN 1092-1 PN16.
- Flow Rate up to 1.5 m/s.

Pipe Size	Face to Face L	Body Diameter D	Height H	Flange	Flow Rate @ 1.5m/s	Stock Code
50mm	430mm	168mm	478mm	PN16	12m ³ /h	DAS050
65mm	430mm	168mm	478mm	PN16	20m ³ /h	DAS065
80mm	490mm	220mm	669mm	PN16	28m ³ /h	DAS080
100mm	490mm	220mm	669mm	PN16	47m ³ /h	DAS100
125mm	630mm	325mm	841mm	PN16	70m ³ /h	DAS125
150mm	630mm	325mm	841mm	PN16	100m ³ /h	DAS150
200mm	810mm	410mm	1266mm	PN16	175m ³ /h	DAS200



Pressure Drop Chart



Supplitech Ltd Reserves the right to alter / amend product data without prior notification

RapidVent Air & Dirt Separators

Selection & Location

1. Micro bubbles are easily released from circulating water where the highest temperature and lowest pressure conditions occur in the system.
2. The separators should normally be fitted where water is at the highest temperature and the lowest pressure available.
3. When selecting the position for the separator please be aware that pressure also has a major effect on the release of microbubbles.
5. Where lower temperatures are involved in cooling applications system pressure becomes the determining factor of the position of the separator.
7. Rapidvent Air and Dirt Separators should be installed in horizontal pipework, the direction of flow is optional.
8. The static head must not exceed 15m for a heating system and 5m for a cooling / Chilled Water system.
9. The efficiency of the unit will be reduced if the system static head exceeds those indicated or system or flow velocity exceeds 1.5m/s.

Installation (To be performed by qualified personnel)

1. Protect the Rapidvent Air & Dirt Separator from adverse environmental conditions, protect from frost.
2. This equipment will form part of the main system's maintenance regime, do not obstruct access.
3. The main system must be flushed before installation of the air & dirt separator.
4. Rapidvent Air & Dirt Separators are not directional.
5. The equipment must be installed vertically with isolation valves on the inlet and outlet connections to facilitate maintenance inspection and facilitate the venting of separated dirt.
6. To provide the best protection for your system typically this equipment is installed on the hottest side of the heat exchanger, on the suction side of the circulation pump. Please refer to section "location" for more details.
7. For service purposes it is essential to have 100mm access clearance above the air vent when installed.
8. When installing, please take into account the weight of the unit, and use the correct equipment for lifting and fitting. Lifting eyes are provided on sizes 150mm and above.
9. Loose accessories should be fitted to unit using Loctite 577 or suitable thread locking methods.
10. Ensure that the vent cap on the air vent is open when commissioning this equipment.
11. Flexible or fixed pipework should be installed to enable dirty water to be drained to a convenient safe place.

Maintenance (To Be Performed by Qualified Personnel)

1. It is recommended that the Rapidvent Air & Dirt Separator should be inspected and drained of dirt after 3 months, then annually thereafter.
2. Should particulate debris build up within the air vent valve, and induce a leak, this can be isolated using the vent cap until such time as appropriate maintenance can take place.
3. Before draining the particulate debris first isolate the Rapidvent Air & Dirt Separator from the main system.
4. Where temperatures are likely to cause harm, please allow the unit to cool before discharging the debris.
5. Open the drain valve to release the accumulated debris from the equipment.
7. Once complete, close the drain valve and reintroduce the air & dirt separator to the main system by opening the isolation valves.
8. Never use the drain valve or air vent to reintroduce water to the system.

WARNING: Any and all maintenance must only take place with the equipment isolated from the main system and when the temperature of the unit and fluid is within safe limits.

Key Points



304 Stainless Steel construction

Supplied with tundish & valves

Polished Stainless Steel finish

Wall mounting brackets fitted

Dosing pots are generally installed in closed systems to enable water treatments and other chemicals to be added to the system without the need to shut a system down or part thereof.

The Chempot is a high quality Stainless Steel vessel which is fatigue resistant as a result of its design. The unit is supplied with all components loose so connections can be fitted in an orientation best suited to the system.

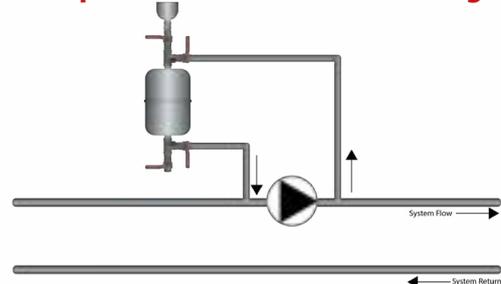
Chempot is fully compliant with the latest BSRIA BG50/2021 recommendations regarding avoiding dead legs and is compliant with Equipment Directive 2014/68/EU Cat SEP and Pressure Equipment (Safety) Regulations 2016.

Sizing:

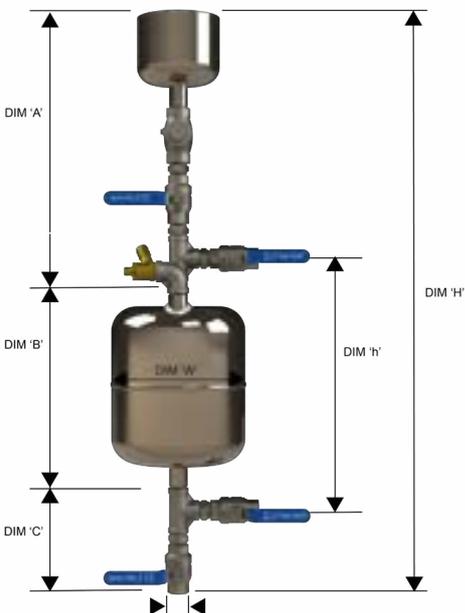
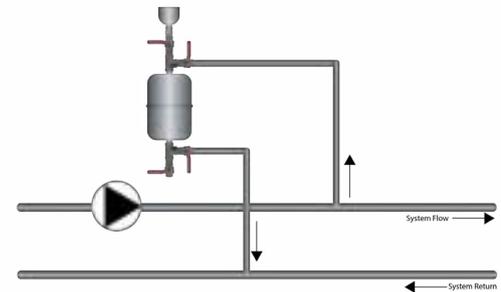
The size of dosing pot installed in a system is not critical as multiple doses of chemicals can be put in to the system to reach the correct concentration.

The benefits of using a smaller unit, is that it is easier to physically handle and also allows for more accurate dosing. However, the time on site for performing multiple doses has to be considered. This factor should influence your decision when selecting dosing pots.

BSRIA compliant if installed in this configuration



Not BSRIA compliant if installed in this configuration - but acceptable



SIZE	Con Size	DIM A	DIM B	DIM C	DIM W	DIM H	DIM h	Working Pressure
3.5L	1/2"	285mm	260mm	130mm	162mm	675mm	310mm	10Bar
6L	1/2"	285mm	260mm	130mm	215mm	675mm	310mm	10Bar
11L	1/2"	285mm	410mm	130mm	215mm	825mm	460mm	10Bar
18L	1/2"	285mm	460mm	130mm	260mm	875mm	510mm	7Bar
25L	1/2"	285mm	590mm	130mm	260mm	1005mm	640mm	7Bar



Supplitech Ltd Inertia Bases are supplied and delivered assembled to allow ease of installation on site, but can be delivered flat-packed if required. These are supplied with spring mounts and all fixings required to assemble the inertia base.

Supplitech Ltd can calculate the size of the inertia base you required. Please forward the pump details to the Supplitech Ltd Sales Office. As standard the Supplitech Ltd Group inertia bases are supplied either 150mm or 300mm deep.

Supplitech Ltd inertia bases are supplied to provide no less than 1.5 : 1.0 Rate of inertia. As standard these bases are supplied with springs.

Supplitech Ltd can, if required supply these bases fully assembled and cast with a 24N mix of concrete.

Supplitech Ltd advise that Supplitech/***/PN16T Tied Supplitech S-Flex Pump Flexibles are used for isolating vibration from pump connections.

Please Note:

Spring selection should be based upon equipment weight - Supplitech Ltd can advise on selection at time of ordering.

Plant and pipework can be loaded unevenly, therefore different spring loads maybe required at different locations - again Supplitech Ltd can advise on selection at time of ordering.

Standard springs and housings are BZP with yellow passivate, other coatings can be offered for external use. Please advise if your application is external.

Springs when fitted should be loaded equally, installing one spring before another will lead to an uneven load.

Key Points

- Excellent peel adhesion
- Good initial tack & permanent bonding
- Waterproof & flame resistance
- Outstanding temperature & ageing resistance



Application

Super performance, professional grade 36u foil tape. Ideal for sealing joints / seams against moisture and vapour on jacketing insulation. Suitable for many other permanent sealing, holding, splicing or masking applications

Property	Unit	Metric	Test Method
Total Thickness	Micron	70	PSTC-33/ASTM D3652
Peel Adhesion	N/25mm	15	PSTC-1/ASTM D3330
Tack Rolling Ball	cm	5	PSTC-6/ASTM D3121
Tensile Strength	N/25mm	45	PSTC-31/ASTM D3759
Elongation	%	3	PSTC-31/ASTM D3759
Service Temperature	Centigrade	-3 to +120	
Applying Temperature	Centigrade	-20 to +40	
FSI 25/SDI 50 Index		Passed	UL723 & ASTM E84
Class O		Passed	BS476 Pt. 6 & 7

Cut Roll: 48mm, 50mm(2"), 60mm, 63mm(2.5"), 72mm, 75mm(3"), 96mm, 100mm(4")
Jumbo Roll: 1200mm x 1200m, 1200mm x 1000m

Remarks

- The data above are typical results and subject to change without notice
- Tolerance: weight and thickness: $\pm 10\%$; width: ± 3 ; length. Cut roll: $\pm 0.3m$, jumbo roll: $\pm 0.5\%$
- The products should be stored at room temperature and kept away from wet and heat source. Life: one year from shipment date when stored at 21 centigrade / 50% relative humidity out of direct sunlight
- It is essential, as with all pressure sensitive tapes, that the surface to which the tape is applied must be clean, dry, and free of grease and oil
- We suggest the user take a test and do trial application on the above products before coming into application

