Exco Industries 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)
1/2″	19-23	M8/M10	M5 x 18	1 x 20
22mm	23-28	M8/M10	M5 x 18	1 x 20
3/4″	26-25	M8/M10	M5 x 18	1 x 20
1″	32-35	M8/M10	M5 x 18	1 x 20
1 1/4″	39-43	M8/M10	M5 x 18	1 x 20
1 1/2″	45-51	M8/M10	M5 x 18	1.2 x 20
55mm	54-58	M8/M10	M5 x 18	1.2 x 20
2″	60-65	M8/M10	M5 x 18	1.2 x 20
70mm	67-71	M8/M10	M5 x 18	1.2 x 20
2 1/2″	74-82	M8/M10	M6 x 25	1.5 x 25
85mm	82-89	M8/M10	M6 x 25	1.5 x 25
3″	91-98	M8/M10	M6 x 25	1.5 x 25
95mm	93-101	M8/M10	M6 x 25	1.5 x 25
105mm	102-109	M8/M10	M6 x 25	1.5 x 25
4″	109-117	M8/M10	M6 x 25	1.5 x 25
120mm	116-125	M8/M10	M6 x 25	1.5 x 25
125mm	129-141	M8/M10	M6 x 25	2 x 25
5″	136-146	M8/M10	M6 x 25	2 x 25
145mm	142-154	M8/M10	M6 x 25	2 x 25
6″	158-169	M8/M10	M6 x 25	2 x 25
175mm	166-177	M8/M10	M6 x 25	2 x 25

Surefix XL Lined Clip For Copper, Plastic and Stainless Steel Pipes



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)
15cu	13-20	M8/M10	M5 x 18	1 x 20
18mm	17-23	M8/M10	M5 x 18	1 x 20
22cu	21-26	M8/M10	M5 x 18	1 x 20
28cu	26-25	M8/M10	M5 x 18	1 x 20
35cu	33-37	M8/M10	M5 x 18	1 x 20
42cu	40-46	M8/M10	M5 x 18	1.2 x 20
1 1/2″	48-53	M8/M10	M5 x 18	1.2 x 20
54cu	53-59	M8/M10	M5 x 18	1.2 x 20
2″	60-66	M8/M10	M5 x 18	1.2 x 20
67cu	67-77	M8/M10	M6 x 25	1.5 x 25
76cu	75-84	M8/M10	M6 x 25	1.5 x 25
3″	87-96	M8/M10	M6 x 25	1.5 x 25
95mm	94-104	M8/M10	M6 x 25	1.5 x 25
108cu	102-111	M8/M10	M6 x 25	1.5 x 25
4″	109-119	M8/M10	M6 x 25	1.5 x 25
120cu	122-135	M8/M10	M6 x 25	2 x 25
133cu	128-139	M8/M10	M6 x 25	2 x 25
5″	135-148	M8/M10	M6 x 25	2 x 25
159cu	151-164	M8/M10	M6 x 25	2 x 25
6″	158-170	M8/M10	M6 x 25	2 x 25



HD Surefix Unlined Clip

For Steel Pipes & Insulated Pipe SupportS

Construction Mild Steel BZP Finish

For Use With Steel & Cast Iron Tubes Insulated Pipe Supports

Heavy Duty



Pipe Size	Grip Range (mm)	Boss Type	Screw (mm)	Material (mm)
50nb / 2″	60-68	M12	M8 x 25	25 x 2
67mm	66-73	M12	M8 x 25	25 x 2
65nb / 2 1/2″	74-81	M12	M8 x 25	25 x 2
85mm	82-88	M12	M8 x 25	25 x 2
80nb / 3″	88-97	M12	M8 x 25	25 x 2
100mm	93-100	M12	M8 x 25	25 x 2
105mm	101-109	M12	M8 x 25	30 x 2.5
100nb / 4″	110-118	M12	M8 x 25	30 x 2.5
120mm	116-126	M12	M10 x 40	30 x .3
135mm	130-141	M12	M10 x 40	30 x .3
125nb / 5″	136-145	M12	M10 x 40	30 x .3
145mm	144-154	M12	M10 x 40	30 x .3
150nb / 6″	160-169	M12	M10 x 40	30 x .3
175mm	170-180	M16	M10 x 40	30 x .3
200nb / 8″	219-230	M16	M10 x 40	30 x .3
250nb / 10″	273-283	M16	M10 x 40	30 x .3

HD Surefix Lined Clip For Copper, Plastic and Stainless Steel Pipes



Construction Mild Steel **BZP** Finish

For Use With **Copper & Plastic Tubes**

Special Features Rubber Lining tested to DIN4109 for Acoustic Use

Heavy Duty

Pipe Size	Grip Range (mm)	Boss Type	Screw (mm)	Material (mm)
67cu / 2″	60-69	M12	M8 x 25	25 x 2
76cu / 2 1/2″	75-81	M12	M8 x 25	25 x 2
80nb / 3″	83-91	M12	M8 x 25	25 x 2
108cu	102-112	M12	M8 x 25	30 x 2.5
125mm	122-138	M12	M10 x 40	30 x 3
155mm	153-164	M12	M10 x 40	30 x 3
200mm	196-209	M16	M10 x 40	30 x 3

Guide Clips

Construction Mild Steel **BZP** Finish

For Use With **Copper & Plastic Tubes**

Special Features

Silicon Low Friction Lining

Size (mm)	Boss Size	Material Type	Temperature Limits ^o C	Part Number
16	M10	20 x 1	-10 - +90	GC16
20	M10	20 x 1	-10 - +90	GC20
25	M10	20 x 1	-10 - +90	GC25
32	M10	20 x 1	-10 - +90	GC32
40	M10	20 x 1.2	-10 - +90	GC40
50	M10	20 x 1.2	-10 - +90	GC50
56	M10	20 x 1.2	-10 - +90	GC56
63	M10	25 x 1.5	-10 - +90	GC63









Construction Mild Steel **BZP** Finish 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)
65		115	M10 x 40	30 x 3
76	65NB/21/2"	125	M10 x 40	30 x 3
83		130	M10 x 40	30 x 3
89	80NB /3"	137	M10 x 40	30 x 3
95		143	M12 x 40	30 x 3
102		156	M10 x 40	30 x 3
108		163	M10 x 40	40 x 3
114	100 NB /4"	175	M10 x 40	40 x 3
121		187	M10 x 40	40 x 3
127		190	M10 x 40	40 x 3
133		200	M10 x 40	40 x 3
140		205	M10 x 40	40 x 3
146		210	M10 x 40	40 x 3
152		218	M10 x 40	40 x 3
159		228	M12 x 40	40 x 3
168	150 NB / 6"	236	M12 x 40	40 x 3
173		240	M12 x 50	40 x 3
178		248	M12 x 50	40 x 3
186		258	M12 x 50	40 x 5
193		265	M12 x 50	40 x 5
199		276	M12 x 50	40 x 5
208		284	M12 x 50	40 x 5
216		290	M12 x 50	40 x 5
220	200 NB / 8"	300	M12 x 50	40 x 5
225		302	M12 x 50	40 x 5
232		310	M12 x 50	40 x 5
244		313	M16 x 50	40 x 5
252		318	M16 x 50	40 x 5
259		320	M16 x 50	40 x 5
268		336	M12 x 50	40 x 5
273	250 NB / 10"	360	M16 x 50	50 x 6
283		364	M16 x 50	50 x 6
290		374	M16 x 50	50 x 6
298		383	M16 x 50	50 x 6
308		405	M16 x 50	50 x 6
323	300 NB / 12"	420	M16 x 50	50 x 6



Split Band Nylon Coated for Copper Pipes



Construction Mild Steel Nylon Coated Finish HT Sets & Nuts

For Use With

Copper Tubes **Stainless Steel Tubes**



Size ID (mm)	Size NB (cu)	Hole Centres (mm)	Bolt Size (mm)	Material Width & Thickness (mm)
15	15	50	M6 x 25	25 x 3
22	22	59	M6 x 25	25 x 3
28	28	65	M6 x 25	25 x 3
35	35	72	M6 x 25	25 x 3
42	42	92	M10 x 30	30 x 3
54	54	104	M10 x 30	30 x 3
67	67	116	M10 x 30	30 x 3
76	76	126	M10 x 30	30 x 3
108	108	158	M10 x 30	30 x 3
133	133	193	M10 x 40	40 x 3
159	159	219	M10 x 40	40 x 3



Split Band Assembly Components

EXCO 190 - Forged Eye Bolt

Construction Mild Steel

BZP Finish

Sizes Available M8, M10, M12, M16, M20 Length - 100mm, 150mm, 200mm

For Use With Split Band Clips

Construction Cast Malleable Iron BZP Finish

Sizes Available M8, M10, M12

For Use With Split Band Clips

Construction Mild Steel BZP Finish

Sizes Available M10, M12, M16, M20

For Use With Split Band Clips



EXCO 200 - Link Eye



EXCO 203 - Bow Nut



Bossed Split Band For Steel Pipes & Insulted Pipe Supports



Construction

Mild Steel **BZP** Finish HT Sets & Nuts

For Use With

Steel Tubes Cast Iron Tubes Insulated Pipe Supports



Size ID (mm)	Size NB	Hole Centres (mm)	Boss	Bolt Size (mm)	Material Width & Thick- ness (mm)
65		115	M10	M10 x 40	30 x 3
76	65NB / 2 1/2"	125	M10	M10 x 40	30 x 3
83		130	M10	M10 x 40	30 x 3
89	80NB /3"	137	M10	M10 x 40	30 x 3
95		143	M10	M10 x 40	30 x 3
102		156	M10	M10 x 40	30 x 3
108		163	M10	M10 x 40	40 x 3
114	100 NB /4"	175	M10	M10 x 40	40 x 3
121		187	M12	M10 x 40	40 x 3
127		190	M12	M10 x 40	40 x 3
133		200	M12	M10 x 40	40 x 3
140		205	M12	M10 x 40	40 x 3
146		210	M12	M10 x 40	40 x 3
152		218	M12	M10 x 40	40 x 3
159		228	M12	M12 x 40	40 x 3
168	150 NB / 6"	236	M12	M12 x 40	40 x 3
173		240	M12	M12 x 50	40 x 3
178		248	M12	M12 x 50	40 x 3
186		258	M12	M12 x 50	40 x 5
193		265	M12	M12 x 50	40 x 5
199		276	M12	M12 x 50	40 x 5
208		284	M12	M12 x 50	40 x 5
216		290	M12	M12 x 50	40 x 5
220	200 NB / 8"	300	M12	M12 x 50	40 x 5
225		302	M12	M12 x 50	40 x 5
232		310	M12	M12 x 50	40 x 5
244		313	M12	M16 x 50	40 x 5
252		318	M12	M16 x 50	40 x 5
259		320	M12	M16 x 50	40 x 5
268		336	M12	M12 x 50	40 x 5
273	250 NB / 10"	360	M12	M16 x 50	50 x 6
283		364	M16	M16 x 50	50 x 6
290		374	M16	M16 x 50	50 x 6
298		383	M16	M16 x 50	50 x 6
308		405	M16	M16 x 50	50 x 6
323	300 NB / 12"	420	M16	M16 x 50	50 x 6





Construction Mild Steel

Mild Steel BZP Finish

For Use With

Steel Tubes Cast Iron Tubes Insulated Pipe Supports



Size ID (mm)	Size NB	Hole Centres (mm)	Max Bolt Size (mm)	Material Width & Thickness (mm)
65		119	M12	30 x 3
76	65NB / 2 1/2"	144	M12	30 x 3
83		145	M12	30 x 3
89	80NB /3"	163	M12	30 x 3
95		159	M12	30 x 3
102		166	M12	30 x 3
108		180	M12	40 x 3
114	100 NB /4"	204	M12	40 x 3
121		192	M12	40 x 3
127		197	M12	40 x 3
133		204	M12	40 x 3
140		220	M12	40 x 3
146		212	M12	40 x 3
152		221	M12	40 x 3
159		228	M12	40 x 3
168	150 NB / 6"	238	M12	40 x 3
173		237	M12	40 x 3
178		247	M12	40 x 3
186		258	M12	40 x 3
193		262	M12	40 x 5
199		263	M12	40 x 5
208		268	M12	40 x 5
216		286	M12	40 x 5
220	200 NB / 8"	313	M12	40 x 5
225		297	M12	40 x 5
232		305	M12	40 x 5
244		313	M12	40 x 5

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Contruction Mild Steel Nylon Coated Finish

For Use With **Copper Tubes Stainless Steel Tubes**



Size ID (mm)	Size NB (cu)	Dim A (mm)	Bolt Size (mm)	Material Width & Thickness (mm)
17	15	53	8	25 x 3
24	22	60	8	25 x 3
30	28	71	8	25 x 3
37	35	74	8	25 x 3
44	42	94	12	30 x 3
57	54	108	12	30 x 3
70	67	120	12	30 x 3
80	76	130	12	30 x 3
114	108	162	12	30 x 3
135	133	197	14	40 x 3
165	159	223	14	40 x 3

Saddle Clamp

Contruction Mild Steel Nylon Coated Finish

For Use With

Copper Tubes Stainless Steel Tubes

Size ID (mm)	Size NB (cu)	Dim A (mm)	Bolt Size (mm)	Material Width & Thickness (mm)
15	15	53	8	25 x 3
22	22	60	8	25 x 3
28	28	71	8	25 x 3
35	35	74	8	25 x 3
42	42	94	12	30 x 3
54	54	108	12	30 x 3
67	67	120	12	30 x 3
76	76	130	12	30 x 3
108	108	162	12	30 x 3
133	133	197	14	40 x 3
159	159	223	14	40 x 3



Phenolic Pipe Supports



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 (Min)	(EN ISO 845) / (ASTM D 1622)	Kg/m3	37	60	80	120		
Thermal Conductivity (Min)	(EN 12667) / (ASTM C 518)	W/m·K	0.021	0.029	0.03	0.032		
Colour			Grey	Grey	Grey	Grey		
Operating Temperature Limits Upper Limit Lower Limit		°C °C	120 -180	120 -180	120 -180	120 -180		
Minimum Compressive (EN 826) / (ASTM D 1621) Strength at +23 °C Parallel Perpendicular		kPa kPa	150 100	320 170	590 440	1000 800		

Fire Test Specifications													
Fire Test Test Method Specification													
Fire Propagation	BS 476-6: 1989	Index of Performa	nce (I) not exceeding 1	2 and sub index (i1)	not exceeding 6*								
Surface Spread of Flame	BS 476-7: 1997	Class 1*	Class 1*	Class 1*									
Vertical Burning	DIN 4102-1: 1998	B2	B2	B2	B2								

These test results combined enable a Class 0 classification to the Building Regulations in England & Wales. Northern Ireland and the Republic of Ireland, and a Low Risk classification to the Building Standars in Scotland. These tests were conducted on samples of 25mm/1" thickness faced with a reinforced aluminium foil vapour barrier jacket.

Mineral Wool Pipe Supports

Properties

Non-combustable stone wool, suitable for use on steel & copper

Suitable for use up to 250°C

Foil faced for vapour contro

	Product Information	1
Pipe Support Lenth	OD Range (mm)	Thickness Range (mm)
80mm long:	17-135	20-80
	140-160	25-60
100mm long	89-135	100
	140-160	70-100
	169-210	25-100

*Other sizes may be available please contact DST Sales office for further information.

** Product length varies to accommodate larger hanger support clips.



Pipe Supports



Hard Wood Block Insulation



Material Hardwood - Kiln Dried)

Length

100mm (Tolerance of -1.5mm Maximum)

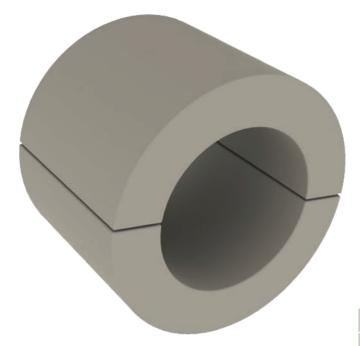
Thickness

15, 20, 25, 30, 40, 50, 63, 75 (Other Thicknesses available upon request) Tolerance on thickness not exceeding +/-1.5mm

Bore Sizes

Steel -	15nb, 20nb, 25nb, 32nb, 40nb, 50nb, 65nb, 80nb, 100nb, 125nb, 150nb,
	200nb, 250nb, 300nb
Copper -	15cu, 22cu, 28cu, 35cu, 42cu, 54cu, 67cu,
	76cu,108cu, 133cu, 159cu.
Plastic -	Available upon request.
riastic -	Available upor request.

Calcium Silicate Insulation



Description

A tough and durable calcium silicate insulation offering exceptional thermal efficiency on hot process applications. Non combusible, it is an inert material, containing no asbestos.

Appearance

White/off white rigid insulation.

Product Application

Calcium Silicate is an ideal insulation material for high temperature pipes. Used throughout the Petrochemical, Power Generation, Furnace and primary aluminium sectors, Calcium Silicate combines excellent thermal efficiency with high compressive strength, able to withstand foot traffic.

Typical Product Performance												
Insulite 650 Insulite												
Maximum Service Temp:	650°C	1050°C										
Age Density:	220kg/m ³	265kg/m ³										
Compressive Strength:	0.8 Mpa	1.8Mpa										
Combustibility:	Non-comb	Non-comb										
Linear Shrinkage:	<2%	1.4%										
Flexural Strength:	0.4 Mpa	0.8 Mpa										
Thermal Conductivity @ 200°C	0.06W/mK	0.07W/mK										

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Construction

Mild Steel BZP Finish

For Use With

Steel Tubes Cast Iron Tubes Insulated Pipe Supports

Size ID (mm)	Rod Dia (mm)
46	M10
51	M10
56	M10
62	M10
67	M10
72	M10
78	M10
85 91	M10 M10
97	M10
104	M10
110	M10
116	M10
123	M10
129	M10
135	M12
141	M12
146	M12
150	M12
154	M12
161	M12
166	M12
170	M12
175	M12
180	M12
185	M12
191	M12
195	M12
201	M12
208	M12
212	M12
216	M12
222 228	M12 M12
228	M12 M12
240	M12
240	M12 M12
254	M12
260	M16
264	M16
268	M16
275	M16
285	M16
292	M16
301	M16
310	M16



Size NB (mm)	Rod Dia (mm)
15	M6
20	M6
25	M6
32	M10
40	M10
50	M10
65	M10
80	M12
100	M12
125	M12
150	M12
200	M16
250	M16
300	M16

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Construction Mild Steel Nylon Coated Finish

For Use With Copper Tubes Stainless Steel Tubes





Size ID (mm)	Size NB (cu)	Rod Ø	Leg Centres	Thread Length Standard	Thread Length Extended
15	15	M6	22	30	75
22	22	M6	29	30	75
28	28	M6	35	30	75
35	35	M6	42	30	85
42	42	M8	52	40	85
54	54	M8	64	40	85
67	67	M8	76	40	85
76	76	M10	88	40	85
108	108	M10	120	40	85
133	133	M10	145	40	85
159	159	M12	173	40	85

Expansion Products MS1 & 2 Modular Slide Guide

MS1 Slimline

MS2 Standard

DST BH - Ball Hanger

Construction Mild Steel BZP Finish

For Use With

Unlined & Rubber Lined Brackets to Create a Guided System

Туре	Internal Thread	Max Travel	SWL
MS1	M10	50mm	0.25kN
MS2	M8/M10	50mm	0.25kN

Construction Mild Steel BZP Finish

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

Movement	SWL
+/-50	0.15kN
+/-50	0.20kN
+/-50	0.25kN
	+/-50

				•	_					1				Μ	10					+/-	50		
							-			/				Μ	12					+/-	50		
W	W	W	е	Х	С	0	_	i	n	d	u	S	t	r	i	е	S	•	С	0		u	k

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Expansion Products LF Range - Low Friction Guides



Construction Mild Steel BZP Finish

Low Friction Slide Insert

For Use With

Unlined & Rubber Lined Clips Surefix HD on Larger Sizes

Special Features

Specia Dual &	Triple	Bossed							
Lockab	ble for	transp	ort	Туре	Internal	Thread	External Thread	Max Travel	SWL
				LF1	M8/N		N/A	65mm	0.5kN
				LF2-1	M1	1	M16	90mm	2.0kN
				LF2-2	M1		M16	120mm	2.0kN
				LF3-1	M12/I		1/2″	120mm	6.0kN
				LF3-2	M12/I	M16	1/2″	135mm	6.0kN
				L	F1		LF2-*	u	F3-*
						LF2-1	LF2-2	LF3-1	LF3-2
Steel		Steel	CU						
NB	NB	OD	OD	LF1-***UL	LF1-*** <mark>RL</mark>	LF2-*-**		LF3-*-UL	LF3-*-RL
			15		LF1-015RL		LF2-*-015RL		LF3-*-015RL
4 (0)		18	~~	LF1-018UL	LF1-018RL	LF2-*-018		LF3-*-018UL	LF3-*-018RL
1/2"	15	21	22	LF1-021UL	LF1-022RL	LF2-*-021		LF3-*-021UL	LF3-*-022RL
3/4"	20	27	28	LF1-027UL	LF1-028RL	LF2-*-027		LF3-*-027UL	LF3-*-028RL
1"	25	34	35	LF1-034UL	LF1-035RL	LF2-*-034		LF3-*-034UL	LF3-*-035RL
1 1/4"	32	42	42	LF1-042UL	LF1-042RL	LF2-*-042		LF3-*-042UL	LF3-*-042RL
1 1/2"	40	48		LF1-048UL	LF1-048RL	LF2-*-048		LF3-*-048UL	LF3-*-048RL
0.11		~~	54		LF1-054RL		LF2-*-054RL		LF3-*-054RL
2"	50	60	67	LF1-060UL	LF1-060RL	LF2-*-060		LF3-*-060UL	LF3-*-060RL
(.)			67				LF2-*-067RL		LF3-*-067RL
2 1/2"	65	76	76			LF2-*-076		LF3-*-076UL	LF3-*-076RL
3"	80	89	400			LF2-*-089		LF3-*-089UL	LF3-*-089RL
	400		108			150 * 444	LF2-*-108RL		LF3-*-108RL
4"	100	114				LF2-*-114		LF3-*-114UL	LF3-*-114RL
					н	EAVY D	UTY		
				I				LF3-*-***HDUL	LF3-*-***HDRL
			133						LF3-*-133HDRL
5"	125	140						LF3-*-140HDUL	LF3-*-140HDRL
			159						LF3-*-159HDRL
6"	150	168						LF3-*-168HDUL	LF3-*-168HDRL
8"	200	220						LF3-*-220HDUL	LF3-*-220HDRL
10"	250	273						LF3-*-273HDUL	LF3-*-273HDRL
Μ	IAXIMUN	/I TRAVEL		60	mm	LF2-1 90	mm LF2-2 120mm	LF3-1 120mm	LF3-2 135mm



The EXCO AAB Adjustable Anchor Bracket banks either 2 or 3 Split split bands on a set of steel cleat which can be adjusted for height and fall.

As a standard upto 54mm od bands will be powder coated, with larger sizes BZP for steel pipes or powder coated for copper & stainless steel.

Other band combinations are available upon request including brass, stainless steel & thicker profile steel bands.

Pipe Size	Band Material	Band QTY	Finish	SWL (kN)	Part Code	Torque Settings
15	25 x 3	2	Black Powder Coat	2.0	AB1015	40nm
22	25 x 3	2	Black Powder Coat	2.0	AB1022	40nm
28	25 x 3	2	Black Powder Coat	2.0	AB1028	40nm
15	25 x 3	2	Black Powder Coat	2.0	AB1022	40nm
20	25 x 3	2	Black Powder Coat	2.0	AB1028	40nm
25	25 x 3	2	Black Powder Coat	2.0	AB1035	40nm
15	25 x 3	3	Black Powder Coat	3.0	AB2015	40nm
22	25 x 3	3	Black Powder Coat	3.0	AB2022	40nm
28	25 x 3	3	Black Powder Coat	3.0	AB2028	40nm
35	25 x 3	3	Black Powder Coat	3.0	AB2035	40nm
42	30 x 3	3	Black Powder Coat	6.5	AB2042	60nm
54	30 x 3	3	Black Powder Coat	6.5	AB2054	60nm
67	30 x 3	3	Black Powder Coat	6.5	AB2067	60nm
76	30 x 3	3	Black Powder Coat	6.5	AB2076	60nm
108	40 x 3	3	Black Powder Coat	8.0	AB2108	60nm
133	40 x 3	3	Black Powder Coat	8.0	AB2133	60nm
159	40 x 3	3	Black Powder Coat	8.0	AB2159	60nm
15	25 x 3	3	Black Powder Coat	3.0	AB2022	40nm
20	25 x 3	3	Black Powder Coat	3.0	AB2028	40nm
25	25 x 3	3	Black Powder Coat	3.0	AB2035	40nm
32	25 x 3	3	Black Powder Coat	3.0	AB2042	60nm
40	30 x 3	3	Black Powder Coat	6.5	AB2040	60nm
50	30 x 3	3	BZP	6.5	AB2050	60nm
65	30 x 3	3	BZP	6.5	AB2065	60nm
80	30 x 3	3	BZP	6.5	AB2080	60nm
100	40 x 3	3	BZP	8.0	AB2100	60nm
125	40 x 3	3	BZP	8.0	AB2125	60nm
150	40 x 3	3	BZP	8.0	AB2150	60nm

Construction Mild Steel BZP Finish High Tensile BZP Set Screws

For Use With Copper, Steel & Stainless Steel pipes

Special Features

Adjustable Height & Angle to facilitate fall in pipework.







Slip & Band Anchors For Steel, Copper & Stainless Steel Pipes

Construction

Mild Steel BZP or Powder Finish High Tensile BZP Set Screws

For Use With

Copper, Steel & Stainless Steel pipes

Special Features

Fabricated on Site using EXCO100 or EXCO130 Split Bands





The Slip Anchor and Band Anchor are an effective way of installing anchors on site with relatively low costs.

The idea is to use multiple split bands to ensure a firm mechanical grip on the pipework. In the case of the Slip Anchor, a band is placed on either side of a slip coupling to add a failsafe mechanism. The coupling could be any type of slip coupling, but not a pipe connector unless its a welded flange.

Pipe Size	Band Material	No Of Bands	Finish	Anchor Type
15	25 x 3	2	Black Powder Coat	Slip
22	25 x 3	2	Black Powder Coat	Slip
28	25 x 3	2	Black Powder Coat	Slip
35	25 x 3	2	Black Powder Coat	Slip
42	30 x 3	2	Black Powder Coat	Slip
54	30 x 3	2	Black Powder Coat	Slip
67	30 x 3	2	Black Powder Coat	Slip
76	30 x 3	2	Black Powder Coat	Slip
108	40 x 3	2	Black Powder Coat	Slip
15	25 x 3	2	Black Powder Coat	Slip
20	25 x 3	2	Black Powder Coat	Slip
25	25 x 3	2	Black Powder Coat	Slip
32	25 x 3	2	Black Powder Coat	Slip
40	30 x 3	2	Black Powder Coat	Slip
50	30 x 3	2	BZP	Slip
65	30 x 3	2	BZP	Slip
80	30 x 3	2	BZP	Slip
100	40 x 3	2	BZP	Slip
Pipe Size	Band Material	No Of Bands	Finish	Anchor Type
-			Finish Black Powder Coat	
Size	Material	Bands		Туре
Size	Material	Bands 2	Black Powder Coat	Type Band
Size 15 22	Material 25 x 3 25 x 3	Bands 2 2	Black Powder Coat Black Powder Coat	Type Band Band
Size 15 22 28	Material 25 x 3 25 x 3 25 x 3	Bands 2 2 2 2	Black Powder Coat Black Powder Coat Black Powder Coat	Type Band Band Band
Size 15 22 28 35	Material 25 x 3 25 x 3 25 x 3 25 x 3	Bands 2 2 2 2 2	Black Powder Coat Black Powder Coat Black Powder Coat Black Powder Coat	Type Band Band Band Band
Size 15 22 28 35 42	Material 25 x 3 25 x 3 25 x 3 25 x 3 30 x 3	Bands 2 2 2 2 2 2 2 2	Black Powder Coat Black Powder Coat Black Powder Coat Black Powder Coat Black Powder Coat	Type Band Band Band Band Band
Size 15 22 28 35 42 54	Material 25 x 3 25 x 3 25 x 3 30 x 3 30 x 3	Bands 2 2 2 2 2 2 2 3	Black Powder Coat Black Powder Coat Black Powder Coat Black Powder Coat Black Powder Coat Black Powder Coat	Type Band Band Band Band Band Band
Size 15 22 28 35 42 54 67	Material 25 x 3 25 x 3 25 x 3 30 x 3 30 x 3 30 x 3	Bands 2 2 2 2 2 2 2 3 3 3	Black Powder Coat Black Powder Coat Black Powder Coat Black Powder Coat Black Powder Coat Black Powder Coat Black Powder Coat	Type Band Band Band Band Band Band Band
Size 15 22 28 35 42 54 67 76	Material 25 x 3 25 x 3 25 x 3 30 x 3	Bands 2 2 2 2 2 2 2 3 3 3 3 3	Black Powder Coat Black Powder Coat	Type Band Band Band Band Band Band Band Band
Size 15 22 28 35 42 54 67 76	Material 25 x 3 25 x 3 25 x 3 30 x 3	Bands 2 2 2 2 2 2 2 3 3 3 3 3	Black Powder Coat Black Powder Coat	Type Band Band Band Band Band Band Band Band
Size 15 22 28 35 42 54 67 76 108	Material 25 x 3 25 x 3 25 x 3 25 x 3 30 x 3 30 x 3 30 x 3 30 x 3 40 x 3	Bands 2 2 2 2 2 2 3 3 3 3 3 3 3	Black Powder Coat Black Powder Coat	Type Band Band Band Band Band Band Band Band
Size 15 22 28 35 42 54 67 67 76 108 15	Material 25 x 3 25 x 3 25 x 3 30 x 3 30 x 3 30 x 3 30 x 3 25 x 3	Bands 2 2 2 2 2 2 3 3 3 3 3 3 2 2	Black Powder Coat Black Powder Coat	Type Band Band Band Band Band Band Band Band
Size 15 22 28 35 42 54 67 76 108 108 15 20	Material 25 x 3 25 x 3 25 x 3 25 x 3 30 x 3 30 x 3 30 x 3 30 x 3 40 x 3 25 x 3 25 x 3 25 x 3 25 x 3 30 x 3 25 x 3 25 x 3 25 x 3	Bands 2 2 2 2 2 2 3 3 3 3 3 3 3 2 2 2 2	Black Powder Coat Black Powder Coat	Type Band Band Band Band Band Band Band Band
Size 15 22 28 35 42 54 67 76 108 15 20 25 15	Material 25 x 3 25 x 3 25 x 3 30 x 3 30 x 3 30 x 3 30 x 3 25 x 3	Bands 2 2 2 2 2 2 2 3 3 3 3 3 3 2 2 2 2 2 2	Black Powder Coat Black Powder Coat	Type Band Band Band Band Band Band Band Band
Size 15 22 28 35 42 54 67 67 108 108 15 20 25 32	Material 25 x 3 25 x 3 25 x 3 25 x 3 30 x 3 30 x 3 30 x 3 30 x 3 25 x 3	Bands 2 2 2 2 2 2 3 3 3 3 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2	Black Powder Coat Black Powder Coat	Type Band Band Band Band Band Band Band Band
Size 15 22 28 35 42 54 67 76 108 108 15 20 25 32 40	Material 25 x 3 25 x 3 25 x 3 25 x 3 30 x 3 30 x 3 30 x 3 30 x 3 25 x	Bands 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 2	Black Powder Coat Black Powder Coat	Type Band Band Band Band Band Band Band Band
Size 15 22 28 35 42 54 67 67 67 108 108 108 15 20 25 32 40 50	Material 25 x 3 25 x 3 25 x 3 25 x 3 30 x 3 30 x 3 30 x 3 30 x 3 25 x 3 25 x 3 25 x 3 30 x 3 25 x 3 25 x 3 25 x 3 30 x 3 30 x 3	Bands 2 2 2 2 2 2 3 3 3 3 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2	Black Powder Coat Black Powder Coat	Type Band Band Band Band Band Band Band Band

Roller & Chair Guide Assembly



Construction Mild Steel BZP Finish HT Sets & Nuts

For Use With

Steel Tubes Cast Iron Tubes Insulated Pipe Supports



Nominal Imperial	Pipe Size Metric (NB)	C/L of Pipe	Lug Centres	Material A (mm)	Material B (mm)	Bolt Size
1/2″	15	41	95	30 x 3	30 x 5	M10 x 30
3/4″	20	44	95	30 x 3	30 x 5	M10 x 30
1″	25	47	95	30 x 3	30 x 5	M10 x 30
1 1/4″	32	55	105	30 x 3	30 x 5	M10 x 30
1 1/2″	40	58	105	30 x 3	30 x 5	M10 x 30
2″	50	72	116	30 x 3	30 x 5	M10 x 30
2 1/2"	65	80	140	30 x 3	30 x 5	M10 x 30
3″	80	87	180	40 x 3	40 x 5	M12 x 40
4″	100	99	180	40 x 3	40 x 5	M12 x 40
5″	125	130	230	50 x 3	50 x 6	M16 x 50
6″	150	144	230	50 x 3	50 x 6	M16 x 50
8″	200	200	380	50 x 6	50 x 8	M16 x 50
10″	250	250	430	50 x 6	50 x 10	M20 x 70
12″	300	289	490	50 x 6	50 x 10	M20 x 70



Construction

Mild Steel BZP Finish HT Sets & Nuts

For Use With

Steel Tubes Cast Iron Tubes Insulated Pipe Supports





Nominal Imperial	Pipe Size Metric (NB)	C/L of Pipe	Width	Hole Centres	Material (mm)	Fixing Holes
1/2″	15	49	60	12 x 25 Slot	30 x 5	12
3/4″	20	52	60	12 x 25 Slot	30 x 5	12
1″	25	55	60	12 x 25 Slot	30 x 5	12
1 1/4″	32	59	60	12 x 25 Slot	30 x 5	12
1 1/2″	40	62	60	12 x 25 Slot	30 x 5	12
2″	50	68	60	12 x 25 Slot	30 x 5	12
2 1/2″	65	76	80	12 x 25 Slot	30 x 5	12
3″	80	111	112	50	40 x 5	12
4″	100	123	112	50	40 x 5	12
5″	125	150	170	70	50 x 6	14
6″	150	164	170	70	50 x 6	14
8″	200	200	256	115	50 x 8	19
10″	250	245	312	127	50 x 10	19
12″	300	300	362	152	50 x 10	19

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Hanging Roller



Construction Mild Steel **BZP** Finish HT Sets & Nuts

For Use With

Steel Tubes Cast Iron Tubes Insulated Pipe Supports



Nominal Imperial	Pipe Size Metric (NB)	Height	Width (mm)	Hole Ø	Material (mm)
1/2″	15	80	50	12	30 x 3
3/4″	20	80	50	12	30 x 3
1″	25	80	50	12	30 x 3
1 1/4″	32	97	65	12	30 x 3
1 1/2″	40	97	65	12	30 x 3
2″	50	118	70	12	30 x 3
2 1/2"	65	136	92	12	30 x 3
3″	80	190	130	14	40 x 3
4″	100	190	130	14	40 x 3
5″	125	250	180	19	50 x 6
6″	150	250	180	19	50 x 6
8″	200	300	240	23	60 x 8
10″	250	355	292	23	60 x 8
12″	300	410	342	23	60 x 8



Filbow Clamp LPCB Approved for Steel Pipes

Construction Cold Rolled Mild Steel Pre-Galv Finish

For Use With **Steel Tubes**



Nominal Imperial	OD (mm)	Height	Width (mm)	Hole Ø	Material (mm)
1/2″	28	51.5	36.5	10.5	25 x 1.2
3/4″	30	53.5	37.5	10.5	25 x 1.2
1″	36	65.5	46.5	10.5	25 x 1.2
1 1/4″	46	79.9	55.7	10.5	25 x 1.2
1 1/2″	52	85.9	58.7	10.5	25 x 1.2
2″	66	99.9	65.7	10.5	25 x 1.2
2 1/2″	78	116	75.5	10.5	25 x 1.5
3″	92	132	84.5	10.5	25 x 1.5
4″	116	167.5	107.5	10.5	25 x 2
5″	142	200	126.5	13	32 x 2.5
6″	170	238	150.5	13	32 x 3

EXCO 240 G/M/B - Munsen Rings



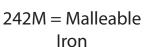
Metric Threads



EXCO 242 G/M/B - Backplates



242G = Galvanised





242B M10 Male & Female Threads



EXCO Industries

High Tensile Nut

Construction Steel Grade 8.8 DIN934. Cold Formed. BZP Finish

Sizes Available M4, M5, M6, M8, M10, M12, M16, M20, M24

Wedge Nut



Flange Clamp

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Construction Mild Steel BZP Finish

Sizes Available M6, M8, M10 & M12

Construction Mild Steel BZP Finish

Sizes Available M8, M10 & M12



EXCO Strut System



Construction

Cold Rolled Mild Steel

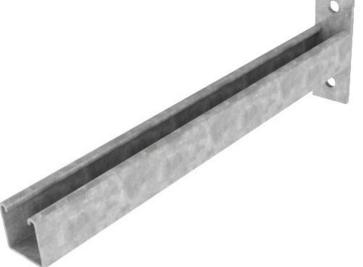
Pre-Galv Finish

Manufactured to BS 6946

We also Offer a Cutting Service

Length (m)	Description	Weight (Kg)
3	41 x 41 Deep Plain	7.83
6	41 x 41 Deep Plain	15.66
3	41 x 41 Deep Slotted	7.47
6	41 x 41 Deep Slotted	14.94
3	41 x 21 Shallow Plain	5.52
6	41 x 21 Shallow Plain	11.04
3	41 x 21 Shallow Slotted	5.16
6	41 x 41 Shallow Slotted	10.32
3	41 x 41 Deep Back to Back	15.66
6	41 x 41 Deep Back to Back	31.32
3	41 x 21 Shallow Back to Back	11.01
6	41 x 21 Shallow Back to Back	22.02

Cantilever Arms



Construction

Cold Rolled Mild Steel Pre-Galv Finish Manufactured to BS 6946

Lengths

150mm, 300mm, 450mm, 600mm, 750mm



Strut Accesories

Square Plate Washers

Construction

5mm Mild Steel BZP Finish

Sizes Available

M6, M8, M10, M12



Channel Nuts



Size	Туре	Thickness (mm)	Spring Length (mm)
M6	No Spring	5	n/a
M8	No Spring	5	n/a
M10	No Spring	8	n/a
M12	No Spring	8	n/a
M6	Short Spring	5	10
M8	Short Spring	5	10
M10	Short Spring	8	10
M12	Short Spring	8	10
M6	Long Spring	8	35
M8	Long Spring	5	35
M10	Long Spring	8	35
M12	Long Spring	8	35









EXCO03



EXCO02

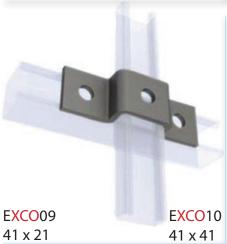


EXCO06



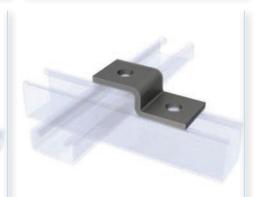
EXCO05







EXCO08



EXCO14





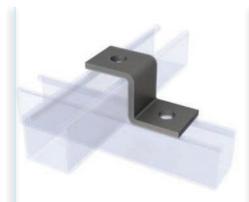


EXCO12

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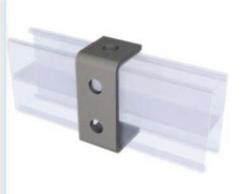




EXCO15



EXCO16



EXCO17



EXCO18



EXCO19



EXCO20



EXCO21



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EXCO23





EXCO25



EXCO28

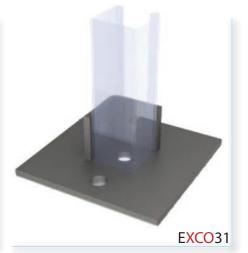


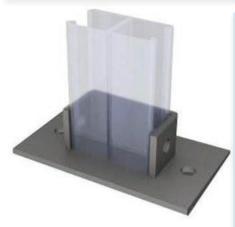


EXCO29



EXCO30

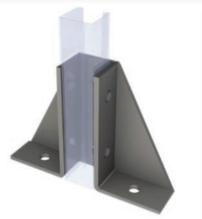




EXCO32



EXCO33



EXCO35







EXCO38







EXCO40

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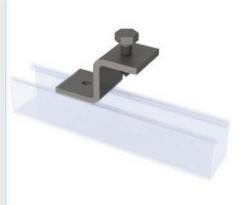




EXCO43



EXCO44



EXCO45



EXCO46



EXCO47



EXCO48







EXCO51

31

EXCO52



Construction

Mild Steel 4.8 Grade to DIN EN20891.-1

BZP Finish

Standard Lengths	Cut Lengths (mm)					
Size	Size	Size	Size	Size		
M6 x 1m	M10 x 25	M10 x 160	M10 x 295	M10 x 430		
M6 x 3m	M10 x 30	M10 x 165	M10 x 300	M10 x 435		
M8 x 3m	M10 x 35	M10 x 170	M10 x 305	M10 x 440		
M10 x 1m	M10 x 40	M10 x 175	M10 x 310	M10 x 445		
M10 x 3m	M10 x 45	M10 x 180	M10 x 315	M10 x 450		
M12 x 1m	M10 x 50	M10 x 185	M10 x 320	M10 x 455		
M16 x 1m	M10 x 55	M10 x 190	M10 x 325	M10 x 460		
M16 x 3m	M10 x 60	M10 x 195	M10 x 330	M10 x 465		
M20 x 1m	M10 x 65	M10 x 200	M10 x 335	M10 x 470		
M20 x 3m	M10 x 70	M10 x 205	M10 x 340	M10 x 475		
M24 x 1m	M10 x 75	M10 x 210	M10 x 345	M10 x 480		
M24 x 3m	M10 x 80	M10 x 215	M10 x 350	M10 x 485		
	M10 x 85	M10 x 220	M10 x 355	M10 x 490		
	M10 x 90	M10 x 225	M10 x 360	M10 x 495		
	M10 x 95	M10 x 230	M10 x 365	M10 x 500		
	M10 x 100	M10 x 235	M10 x 370	M10 x 505		
	M10 x 105	M10 x 240	M10 x 375	M10 x 510		
	M10 x 110	M10 x 245	M10 x 380	M10 x 515		
	M10 x 115	M10 x 250	M10 x 385	M10 x 520		
	M10 x 120	M10 x 255	M10 x 390	M10 x 525		
	M10 x 125	M10 x 260	M10 x 395	M10 x 530		
	M10 x 130	M10 x 265	M10 x 400	M10 x 535		
	M10 x135	M10 x 270	M10 x 405	M10 x 540		
	M10 x 140	M10 x 275	M10 x 410	M10 x 545		
	M10 x 145	M10 x 280	M10 x 415	M10 x 550		
	M10 x 150	M10 x 285	M10 x 420	M10 x 555		
	M10 x 155	M10 x 290	M10 x 425	M10 x 560		



Key Points

Require Full Guiding

Available for any Temperature or Pressure

Supplied with CE Certs where Applicable

Internal Flow Liner as Standard

Bellows are Pre-Cold Drawn

EXCO Type AX2 Axial Bellows

Designed to accept linear expansion on copper and stainless steel pipe systems.

Standard product details are shown below, athough these may vary dependant upon application and PED requirements.

Material Specification

Flanges: (Stainless steel to all wetted areas) Convolutions: Internal Sleeve: Carbon Steel PN16 With Stainless steel facings

316 Stainless Steel

316 Stainless Steel

Working Conditions

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

PED Requirements

All Bellows supplied by EXCO 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 Number
32nb / 35cu	30	130	14	39	AX2/032/PN16
40nb / 42cu	30	130	20	53	AX2/040/PN16
50nb / 54cu	50	225	32	53	AX2/050/PN16
65nb / 67cu	50	225	49	91	AX2/065/PN16
80nb/ 76cu	50	230	66	99	AX2/080/PN16
100nb / 108cu	50	230	124	121	AX2/100/PN16
125nb / 133cu	60	240	180	117	AX2/125/PN16
150nb / 159cu	60	240	262	173	AX2/150/PN16
200nb	70	275	419	179	AX2/200/PN16
250nb	70	280	665	270	AX2/250/PN16
300nb	70	285	909	320	AX2/300/PN16

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. **EXCO** 253 Slide Guide or **EXCO** 114 Roller Chair and Guide). Please consult the Expansion Compensator Application Guide for positioning of anchor points and subsequent support centres.

Primary Pipe Guide Spacings







Require Full Guiding

Available for any Temperature or Pressure

Supplied with CE Certs where Applicable

Internal Flow Liner as Standard

Bellows are Pre-Cold Drawn

EXCO Type AX3 (SPE) 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 **EXCO** 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 Number
15	25	200	4	1.47	AX3/015/SPE25)
18	25	200	5	1.47	AX3/012/SPE(25
20	25	200	6	1.47	AX3/020/SPE25)
25	25	200	10	1.27	AX3/025/SPE(25)
32	25	210	16	3.04	AX3/032/SPE(25)
40	25	220	21	3.04	AX3/040/SPE(25)
50	25	250	40	3.34	AX3/050/SPE(25)

The anchor loads generated by using this type of Axial Expansion Compensator are high. It is worth keeping in mind the type of pipework bracketry that will be used. A guide bracket 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. Please consult the Expansion Compensator Application Guide for positioning of anchor points and subsequent support centres.

Primary Pipe Guide Spacings





Key Points

Require Full Guiding

Available in any Temperature or Pressure

Supplied with CE certs where Applicable

Internal Flow liner as Standard

Bellows are Pre-Cold Drawn

Material Specification



Flow Liner - 304 Stainless Steel

Convolutions - 316 Stainless Steel

EXCO 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 EXCO 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 Number
15	25	200	4	1.47	AX3/015/MSC(25)
20	25	200	6	1.47	AX3/020/MSC(25)
25	25	200	10	1.27	AX3/025/MSC(25)
32	25	210	16	3.04	AX3/032/MSC(25)
40	25	220	21	3.04	AX3/040/MSC(25)
50	25	250	40	3.34	AX3/050/MSC(25)
65	25	273	50	3.54	AX3/065/MSC(25)
15	50	300	4	1.47	AX3/015/MSC(50)
20	50	300	6	1.47	AX3/020/MSC(50)
25	50	300	10	1.27	AX3/025/MSC(50)
32	50	310	16	3.04	AX3/032/MSC(50)
40	50	320	21	3.04	AX3/040/MSC(50)
50	50	350	40	3.04	AX3/050/MSC(50)

The anchor loads generated by using this type of Axial Expansion Compensator are high. It is worth keeping in mind the type of pipework bracketry that will be used. A guide bracket 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. Please consult the Expansion Compensator Application Guide for positioning of anchor points and subsequent support centres.

Primary Pipe Guide Spacings







FA1 for steel pipes

FA2 for copper & stainless steel.

Supplied with CE certs where applicable

Internal flow liner as standard

Size	Installed Length +/- 25 (mm)	Force to Deflect +/- 25mm (N/mm)	Installed Length +/- 50 (mm)	Force to Deflect +/- 50 (mm)	Part Number
25	465	10.7	750	2.8	FA1/025/PN16
32	465	10.7	750	2.8	FA1/032/PN16
40	465	10.7	750	2.8	FA1/040/PN16
50	465	12.1	750	4	FA1/050/PN16
65	465	15.9	750	5	FA1/065/PN16
80	465	56.7	750	16	FA1/080/PN16
100	465	94.0	750	27	FA1/100/PN16
125	760	21.6	1000	11	FA1/125/PN16
150	760	38.2	1000	19	FA1/150/PN16
200	1010	29.8	1250	17	FA1/200/PN16
250	1010	55.2	1250	32	FA1/250/PN16
Size	Installed Length +/- 75 (mm)	Force to Deflect +/- 75mm (N/mm)	Installed Length +/- 100 (mm)	Force to Deflect +/- 100 (mm)	Part Number
25	1035	1.3	1320	1.3	FA1/025/PN16
32	1035	1.3	1320	1.3	FA1/032/PN16
40	1035	1.3	1320	1.3	FA1/040/PN16
50	1035	1.7	1320	1.3	FA1/050/PN16
65	1035	2.2	1320	1.3	FA1/065/PN16
80	1035	7.7	1320	2.7	FA1/080/PN16
100	1035	12.3	1320	5.4	FA1/100/PN16
125	1240	4.3	1480	5.4	FA1/125/PN16
150	1240	11.1	1480	4.5	FA1/150/PN16
200	1490	11.5	1730	4.5	FA1/200/PN16
250	1490	22.8	1730	4.5	FA1/250/PN16

Material Specification

Connections:	Carbon Steel Drilled PN1 6 (Van-stone Facings on FA2)
Convolutions:	321 Stainless Steel (316 Stainless steel on FA2)
Internal Sleeve:	321 Stainless Steel (316 Stainless steel on FA2)
Tie Rods:	Carbon Steel
Hemispherical W ashers:	Carbon Steel
Connecting Spool:	Carbon Steel (316 Stainless steel on FA2)

The EXCO Type FA1 & FA2 Lateral Expansion compensator is suitable for use on systems up to 250°C at 16 bar pressure PED certification supplied dependant upon application.

All units are supplied at installation lengths and are pre stressed. Please note EXCO can design and supply lateral expansion compensators to accommodate higher system temperatures / pressures and other rates of lateral movement or special dimensions. Please advise at time of enquiry / order the system temperature and pressure to allow correct selection of compensator.

Standard Installation

These units are often used when new mains are being connected to existing mains. They allow a lateral movement to occur. These units are also useful for connections from boilers and plant, which will compensate any stresses put onto the "Headers". Advice should always be sought when using these units to ensure the units will allow the amount of movement which will occur. Please consult the Expansion Compensator Application Guide for positioning of the anchor points and subsequent support centres.







AN1 for Steel Pipes

AN2 for Copper & Stainless Steel

Supplied with CE Certs where Applicable

Internal Flow Liner as Standard



Size (mm)	Angular Deflection	Installed Length	Effective Area cm ²	Force to Deflect Nm/deg	Part Number
25	+/- 5º	195	40	1.27	AN1/025/PN16
32	+/- 5º	195	40	3.04	AN1/032/PN16
40	+/- 50	200	40	3.04	AN1/040/PN16
50	+/- 50	133	40	3.34	AN1/050/PN16
65	+/- 50	133	62	1.47	AN1/065/PN16
80	+/- 50	133	81	1.47	AN1/080/PN16
100	+/- 50	133	127	1.27	AN1/100/PN16
125	+/- 6.5°	199	195	3.04	AN1/125/PN16
150	+/- 6.5°	199	273	3.04	AN1/150/PN16
200	+/- 7.5°	212	469	3.34	AN1/200/PN16
250	+/- 7.5°	212	700	3.04	AN1/250/PN16

Material Specification

Connections:	Carbon Steel Drilled PN16 (Van-stone facings on AN2				
Other Flanges Available If Required					
Convolutions:	321 Stainless Steel (316 Stainless steel on AN2)				
Internal Sleeve:	321 Stainless Steel (316 Stainless steel on AN2)				
Hinge Pins:	Carbon Steel				

The EXCO Type AN1 & AN2 Angular Expansion compensators are suitable for use on systems up to 200°C at 16 bar pressure. All units are supplied at installation lengths and are pre stressed. Please note EXCO Group can design and supply angular expansion compensators to accommodate higher system temperatures / pressures or special dimensions. Please advise at time of enquiry / order the system temperature and pressure to allow correct selection of compensator.

PED Requirements

CE Certificates issued if required. All units are catagorised to PED standards, and we require accurate temperatures and pressures at time of order to enable correct selection and certification.

Standard Installation

These units are commonly used in pairs, although three pin systems can be designed if required. Please contact our sales office for application and design advice. These units can be used on a drop rod system. Please consult the Expansion Compensator Application Guide for positioning of anchor points.



GI1 for Steel Pipes

GI2 for Copper & Stainless Steel

Supplied with CE Certs where Applicable

Internal Flow Liner as Standard

Size (mm)	Angular Deflection	Installed Length	Force to Deflect Nm/deg	Part Number
25	+/- 5º	195	8.3	GI1/025/PN16
32	+/- 5º	195	8.3	GI1/032/PN16
40	+/- 5º	195	8.3	GI1/040/PN16
50	+/- 5º	180	8.3	GI1/050/PN16
65	+/- 5º	180	10.1	GI1/065/PN16
80	+/- 5º	180	31.4	GI1/080/PN16
100	+/- 5º	180	60.8	GI1/100/PN16
125	+/- 6.5°	225	36.2	GI1/125/PN16
150	+/- 6.5°	225	55.3	GI1/150/PN16
200	+/- 7.5°	250	107.1	GI1/200/PN16
250	+/- 7.5°	250	192	GI1/250/PN16

Material Specification

Connections:	Carbon Steel Drilled PN16 (Van-stone facings on GI2) Other Flanges Available If Required
Convolutions:	321 Stainless Steel (316 Stainless steel on GI2)
Internal Sleeve:	321 Stainless Steel (316 Stainless steel on GI2)
Hinge Pins:	Carbon Steel

The EXCO Type GI1 & GI2 Gimbal Expansion compensators are suitable for use on systems up to 200°C at 16 bar pressure. All units are supplied at installation lengths and are pre stressed.

Please note EXCO can design and supply gimbal expansion compensators to accommodate higher system temperatures / pressures or special dimensions. Please advise at time of enquiry / order the system temperature and pressure to allow correct selection of compensator.

PED Requirements

CE Certificates issued if required. All units are catagorised to PED standards, and we require accurate temperatures and pressures at time of order to enable correct selection and certification.

Standard Installation

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These units are commonly used in pairs, although three pin systems can be designed if required. Please contact our sales office for application and design advice. These units can be used on a drop rod system.



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 ^o C	Part Number
32	130	Nylon Reinforced EPDM	-10 -90	EXCO/032/PN16/6
40	130	Nylon Reinforced EPDM	-10 -90	EXCO/040/PN16/6
50	130	Nylon Reinforced EPDM	-10 -90	EXCO/050/PN16/6
65	130	Nylon Reinforced EPDM	-10 -90	EXCO/065/PN16/6
80	130	Nylon Reinforced EPDM	-10 -90	EXCO/080/PN16/6
100	130	Nylon Reinforced EPDM	-10 -90	EXCO/100/PN16/6
125	130	Nylon Reinforced EPDM	-10 -90	EXCO/125/PN16/6
150	130	Nylon Reinforced EPDM	-10 - 90	EXCO/150/PN16/6

D-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.

D Flex units are not suitable for use with Potable Water, Water with Oil additives, Compressed Air and Food Applications.

D Flex Untied units should not be installed on pumps located on Inertia bases

D-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.

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

D 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.

Exco Industries 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 <u>not</u> 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.



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 Number
32	130	Nylon Reinforced EPDM	-10 - 90	EXCO/032/PN16T
40	130	Nylon Reinforced EPDM	-10 - 90	EXCO/040/PN16T
50	130	Nylon Reinforced EPDM	-10 - 90	EXCO/050/PN16T
65	130	Nylon Reinforced EPDM	-10 - 90	EXCO/065/PN16T
80	130	Nylon Reinforced EPDM	-10 - 90	EXCO/080/PN16T
100	130	Nylon Reinforced EPDM	-10 - 90	EXCO/100/PN16T
125	130	Nylon Reinforced EPDM	-10 - 90	EXCO/125/PN16T
150	130	Nylon Reinforced EPDM	-10 - 90	EXCO/150/PN16T
200	130	Nylon Reinforced EPDM	-10 - 90	EXCO/200/PN16T
250	130	Nylon Reinforced EPDM	-10 - 90	EXCO/250/PN16T
300	On Request	Nylon Reinforced EPDM	-10 - 90	EXCO/300/PN16T
350	On Request	Nylon Reinforced EPDM	-10 - 90	EXCO/350/PN16T
400	On Request	Nylon Reinforced EPDM	-10 - 90	E <mark>XCO</mark> /400/PN16T

D-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 limit. D-Flex units are not suitable for use with Potable Water, Water with Oil additives, Compressed Air and Food Applications.

D-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 D-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 10bar 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.

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

D 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.

DST Group 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 <u>not</u> 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.



D-Flex Screwed Pump Flexible

Industries Key Points

Unions: Carbon Steel

Nylon Re-inforced EPDM Rubber Body

Steel Reinforced Collars



Size (mm)	Installed Length	Material Type	Temperature Limits ^o C	Part Number
15	200	Nylon Reinforced EPDM	-10 - 90	PGS/015
20	200	Nylon Reinforced EPDM	-10 - 90	PGS/020
25	200	Nylon Reinforced EPDM	-10 - 90	PGS/025
32	200	Nylon Reinforced EPDM	-10 - 90	PGS/032
40	200	Nylon Reinforced EPDM	-10 - 90	PGS/040
50	200	Nylon Reinforced EPDM	-10 - 90	PGS/050

DST D-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.

DST D Flex units are not suitable for use with Potable Water, Water with Oil additives, Compressed Air and Food Applications.

DST D Flex Untied units should not be installed on pumps located on Inertia bases

DST D-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.

D-Flex units have up to10 year design life* and are warrantied for a period of 12** months from supply.

DST D 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.

DST Group Ltd also supply DIN 4809 approved pump flexibles. Please contact our sales office for further information

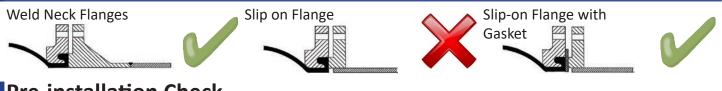
* Design life is guidance only. This guidance assumes the unit will <u>not</u> be working at the extremes of its working capacity. This in no way implies a warranty or a guarantee.
** 12 Months warranty is against manufacturing defect only and is limited to the supply only of a replacement product of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

Fitting Instructions



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

Flange Suitability:



Pre-installation Check

1. Selection

Prior to installation, check you have the right bellows for the particular duty. All Jet J-Flex Rubber Bellows 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 reccommend 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 Jet J-Flex Anti-Tamper Tied pump flexibles should be used.

2. Mating Flanges

We recommend the rubber bellows 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 bellows.

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.

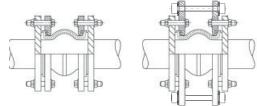
Under no circumstances must the Pump Flexible be used to take up misalignment. Ensure the pipework is adequately supported. The flexible must not support pipes or plant.

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 pressurized and cause failure. Bolts of the right diameter must be used to ensure correct alignment.



2. Alignment

Take care when inserting the bellows into the gap between the two mating flanges. Sharp edges can damage the sealing face of the rubber bellows. 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 bellows 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 Jet J-Flex Pump Flexible. J-Flex Tied Pump Flexibles are supplied with tie bars, if you need to fit Tie Bars to an untied unitIt should be changed for a D-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



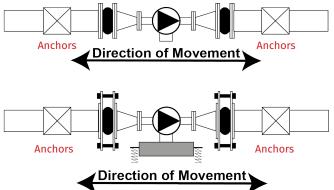
Taking Care of Rubber Flexibles:

- 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. For other mediums check with your local Wolseley Center for suitability.

Best Practice

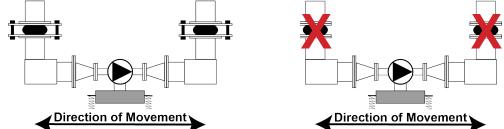
The following are only recommendations but if followed they will ensure proper installation and maximum service life of the rubber bellows. We recommend the use of spool pieces to align mating flanges and to ensure the correct gap.

- 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.
- 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, dependant upon where in the rise the flexibles are, a greater amount of movement can be expressed on the unit laterally, and can be a compount movement with angulation too.
 - iii. Pipe has a greater tendancy to use the flexible as a support, as any rigid support would stop the inertia base from working.

In there 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 bourne 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.





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 Number
32nb / 35cu	150	316 St/Steel to all Wet Areas	-10 - 200	FA3/032/PN16T
40nb / 42cu	150	316 St/Steel to all Wet Areas	-10 - 200	FA3/040/PN16T
50nb / 54cu	150	316 St/Steel to all Wet Areas	-10 - 200	FA3/050/PN16T
65nb / 67cu	150	316 St/Steel to all Wet Areas	-10 - 200	FA3/065/PN16T
80nb / 76cu	150	316 St/Steel to all Wet Areas	-10 - 200	FA3/080/PN16T
100nb / 108cu	150	316 St/Steel to all Wet Areas	-10 - 200	FA3/100/PN16T
125nb / 133cu	150	316 St/Steel to all Wet Areas	-10 - 200	FA3/125/PN16T
150nb / 159cu	150	316 St/Steel to all Wet Areas	-10 - 200	FA3/150/PN16T
200nb	150	316 St/Steel to all Wet Areas	-10 - 200	FA3/200/PN16T
250nb	On Request	316 St/Steel to all Wet Areas	-10 - 200	FA3/250/PN16T
300nb	On Request	316 St/Steel to all Wet Areas	-10 - 200	FA3/300/PN16T
350nb	On Request	316 St/Steel to all Wet Areas	-10 - 200	FA3/350/PN16T
400nb	On Request	316 St/Steel to all Wet Areas	-10 - 200	FA3/400/PN16T

EXCO D-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. EXCO FA3 units are suitable for use with Potable Water, Water with Oil additives, Compressed Air and Food Applications.

Material Specification

Connections:	Carbon Steel Drilled PN1 6 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 EXCO Type FA3 Pump Flexible is suitable for use on systems up to 200oC at 16 bar pressure. PED certification supplied dependant upon application.

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

EPDM Flexible Hose

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EPDM Rubber Core

304 Stainless Steel Overbraid

Hose WRAS Approved

Manufactured by EXCO in the UK

0 - 100oC @ 10 Bar

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.

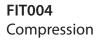
Approvals - All hose is WRAS approved irrespective of application.

Applications - Fan Coil Connections Radiant Panel Connections Tap Connections

Fittings

FIT001 Fixed Taper Male

FIT002 Swivel Flat Face Female



FIT005 Brass Standpipe

FIT006 Flat Face 90º Female Elbow



Stainless Steel Flexible Hose





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Flexible Hose Fitting Instructions

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10 Year Guarantee for EPDM. 2 Year Gaurentee for Stainless Steel

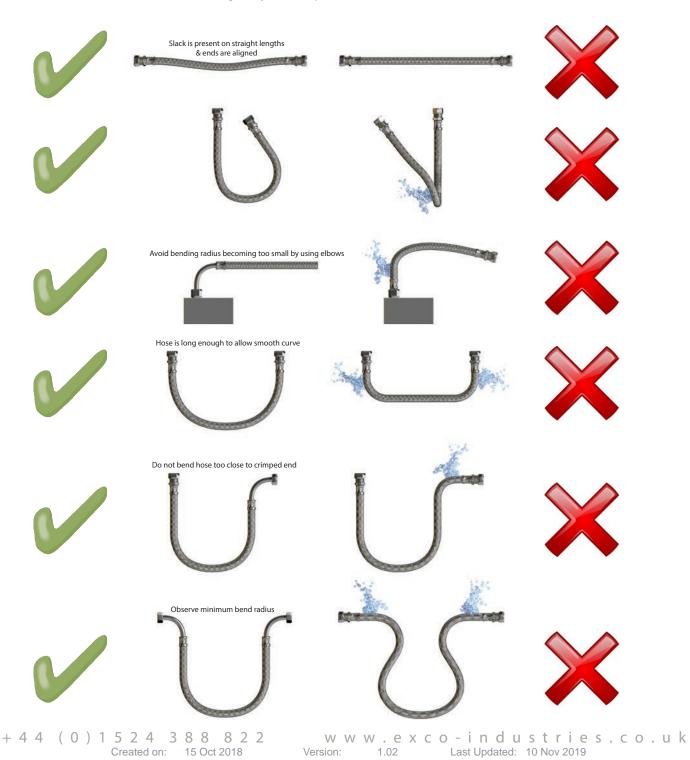
25 Year Design Life

ISO9001 Quality System

Manufactured at EXCO in the UK

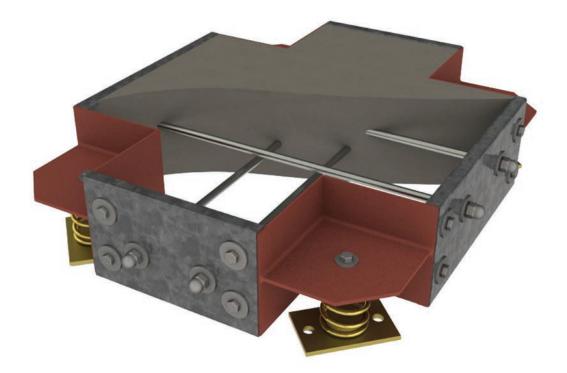
Installation

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



Inertia Base





- **EXCO** Inertia Bases are supplied in a flat pack form to allow ease of installation on site, but can be delivered assembled if required. These are supplied with spring mounts and all fixings required to assemble the inertia base.
- **EXCO** can calculate the size of inertia base required. Please forward the pump details to DST Group Sales Office. As standard the EXCO Inertia Bases are supplied either 150mm or 300mm deep.
- **EXCO** Inertia Bases are supplied to provide no less than 1.5 : 1.0 Rate of inertia. As standard these bases are supplied with Springs.
- **EXCO** can, if required supply these bases fully assembled and cast with a 24N mix of concrete.
- **EXCO** advise that EXCO/***/PN16T Tied EXCO D-Flex Pump Flexibles are used for isolating vibration from pump connections.

Please Note:

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

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

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





Anti-Vibration Mount for Plant & Machinery

Enclosed Spring for Greater Stability.

Standard 25mm Deflection

Can be used in Conjunction with Inertia Bases



Model	Overall Width (mm)	Bolt Centres (mm)	Bolt Ø	Fixing Bolt Ø	Weight Range (Kg)	Deflection (mm)
DS/0-0050	130	110	M10	M12	11-23	25
DS/0-0080	130	110	M10	M12	18-37	25
DS/0-0130	130	110	M10	M12	30-60	25
DS/0-0200	130	110	M10	M12	45-91	25
DS/0-0300	130	110	M10	M12	68-137	25
DS/0-0500	130	110	M10	M12	114-228	25
DS/0-0630	130	110	M10	M12	148-296	25
DS/0-0800	130	110	M10	M12	182-364	25
DS/1-0150	173	148	M12	M12	34-69	25
DS/1-0200	173	148	M12	M12	45-91	25
DS/1-0300	173	148	M12	M12	68-137	25
DS/1-0500	173	148	M12	M12	114-228	25
DS/1-0750	173	148	M12	M12	170-341	25
DS/1-1000	173	148	M12	M12	227-455	25
DS/1-1200	173	148	M12	M12	273-546	25
DS/1-1400	173	148	M12	M12	318-637	25
DS/1-2-1700	173	148	M12	M12	386-773	25
DS/1-2-1900	173	148	M12	M12	432-864	25

Please Note

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

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

Standard housing is powder coated, the standard spring is BZP, other coatings can be offered for external use. Please advise if your application is extenal.

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

Restrained Spring Mount

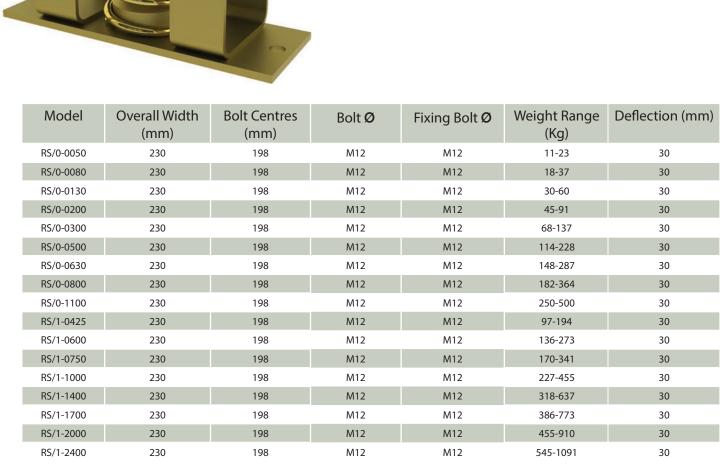


2 Year Guarantee

25 Year Design Life

ISO9001 Quality System

Manufactured in the UK



Please Note:

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

Plant and pipework can be loaded unevenly, therefore different spring loads maybe required at different locations - EXCO 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 extenal.

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

Open Spring Mount



2 Year Guarantee

25 Year Design Life

ISO9001 Quality System

Manufactured in the UK



Model	Overall Width (mm)	Bolt Centres (mm)	Bolt Ø	Fixing Bolt Ø	Weight Range (Kg)	Deflection (mm)
OS/0-0050	130	92	M12	M10	11-23	30
0S/0-0080	130	92	M12	M10	18-37	30
OS/0-0130	130	92	M12	M10	30-60	30
OS/0-0200	130	92	M12	M10	45-91	30
OS/0-0300	130	92	M12	M10	68-137	30
OS/0-0500	130	92	M12	M10	114-228	30
OS/0-0630	130	92	M12	M10	148-287	30
OS/0-0800	130	92	M12	M10	182-364	30
OS/0-1100	130	92	M12	M10	250-500	30
OS/1-0425	165	120	M12	M12	97-194	30
OS/1-0600	165	120	M12	M12	136-273	30
OS/1-0750	165	120	M12	M12	170-341	30
OS/1-1000	165	120	M12	M12	227-455	30
OS/1-1400	165	120	M12	M12	318-637	30
OS/1-1700	165	120	M12	M12	386-773	30
OS/1-2000	165	120	M12	M12	455-910	30
OS/1-2400	165	120	M12	M12	545-1091	30

Please Note:

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

Plant and pipework can be loaded unevenly, therefore different spring loads maybe required at different locations - EXCO 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 extenal.

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

Neoprene



Neoprene Mount

Suitable for isolating vibration from packaged units

Pressurisation Units

Please advise the weight and plant footprint requiring isolation for mount recommendations

Weight (Kg)	Material Type	Hole Tapping Size	Dimensions (mm) Width x Height	Part Number
150	Neoprene Commercial Grade Black Rubber	M10	75 x 32	CMC/150/M
300	Neoprene Commercial Grade Black Rubber	M12	90 x 40	CMC/300/M

Neoprene Hanger

Key Points

Isolating vibration from Pipework

Please advise the weight of plant requiring isolation for hanger recommendations

Weight (Kg)	Material Type	Hole Tapping Size	Dimensions (mm) Width x Height	Part Number
150	Neoprene Commercial Grade Black Rubber	M10	75 x 32	CMC/150/M
300	Neoprene Commercial Grade Black Rubber	M12	90 x 40	CMC/300/M

Please Note:

Mount selection should be based upon equipment weight - EXCO can advise on selection at time of ordering.

Plant and pipework can be loaded unevenly, therefore different mount loads maybe required at different locations - Again EXCO can advise on selection at time of ordering.

Mounts when fitted should be loaded equally, installing one mount before another will lead to uneven load.



Standard Spring Hangers



2 Year Guarantee

25 Year Design Life

ISO9001 Quality System

Manufactured in the UK



Model	Overall Width (mm)	Bolt Centres (mm)	Bolt Ø	Fixing Bolt Ø	Weight Range (Kg)	Deflection (mm)
SHO S/0-0050	150	180	M12	M12	11-23	30
SHO S/0-0080	150	180	M12	M12	18-37	30
SHO S/0-0130	150	180	M12	M12	30-60	30
SHO S/0-0200	150	180	M12	M12	45-91	30
SHO S/0-0300	150	180	M12	M12	68-137	30
SHO S/0-0500	150	180	M12	M12	114-228	30
SHO S/0-0630	150	180	M12	M12	148-287	30
SHO S/0-0800	150	180	M12	M12	182-364	30
SHO S/0-1100	150	180	M12	M12	250-500	30
SHO S/1-0425	250	250	M16	M16	97-194	30
SHO S/1-0600	250	250	M16	M16	136-273	30
SHO S/1-0750	250	250	M16	M16	170-341	30
SHO S/1-1000	250	250	M16	M16	227-455	30
SHO S/1-1400	250	250	M16	M16	318-637	30
SHO S/1-1700	250	250	M16	M16	386-773	30
SHO S/1-2000	250	250	M16	M16	455-910	30
SHO S/1-2400	250	250	M16	M16	545-1091	30

Please Note:

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

Plant and pipework can be loaded unevenly, therefore different spring loads maybe required at different locations - EXCO 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 extenal.

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

Spring Hanger with Positioning Plate



2 Year Guarantee

25 Year Design Life

ISO9001 Quality System

Manufactured in the UK

Model	Overall Width (mm)	Bolt Centres (mm)	Bolt Ø	Fixing Bolt Ø	Weight Range (Kg)	Deflection (mm)
SHOS/0/P-0050	150	180	M12	M12	11-23	30
SHOS/0/P-0080	150	180	M12	M12	18-37	30
SHOS/0/P-0130	150	180	M12	M12	30-60	30
SHOS/0/P-0200	150	180	M12	M12	45-91	30
SHOS/0/P-0300	150	180	M12	M12	68-137	30
SHOS/0/P-0500	150	180	M12	M12	114-228	30
SHOS/0/P-0630	150	180	M12	M12	148-287	30
SHOS/0/P-0800	150	180	M12	M12	182-364	30
SHOS/0/P-0110	150	180	M12	M12	250-500	30
SHOS/1/P-0425	250	250	M16	M16	97-194	30
SHOS/0/P-0600	250	250	M16	M16	136-273	30
SHOS/1/P-0750	250	250	M16	M16	170-341	30
SHOS/1/P-1000	250	250	M16	M16	227-455	30
SHOS/1/P-1400	250	250	M16	M16	318-637	30
SHOS/1/P-1700	250	250	M16	M16	386-773	30
SHOS/1/P-2000	250	250	M16	M16	455-910	30
SHOS/1/P-2400	250	250	M16	M16	545-1091	30

Please Note:

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

Plant and pipework can be loaded unevenly, therefore different spring loads maybe required at different locations - EXCO 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 extenal.

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





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Contamination Control Air & Dirt Separator



Key Points

Microbubble Type

Flanged PN16

10 Bar Working Pressure

110 Degrees C

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

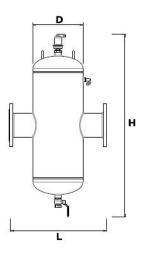
Rreduction in:

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

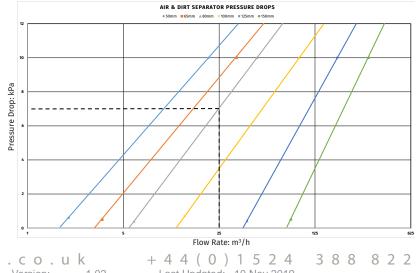
Air and dirt separators are essential when refurbishing older systems or when an open system is converted to a closed system.

- 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
50mm	430mm	168mm	589mm	PN16	12m ³ /h
65mm	430mm	168mm	589mm	PN16	20m ³ /h
80mm	490mm	220mm	780mm	PN16	28m³/h
100mm	490mm	220mm	780mm	PN16	47m ³ /h
125mm	630mm	325mm	952mm	PN16	70m ³ /h
150mm	630mm	325mm	952mm	PN16	100m ³ /h
200mm	810mm	410mm	1266mm	PN16	175m ³ /h



Pressure Drop Chart





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www.exco-industries.co.uk Created on: 15 Oct 2018

Version:

1.02

Last Updated: 10 Nov 2019

Boilers & Heat Exchangers. Chillers Pumps

Whilst increaseing efficiency of:



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
- The separators should normally be fitted where water is at the highest temperature and the lowest pressure available.
 When selecting the position for the separator please be aware that pressure also has a major effect on the release of
- 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. Jet 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 100 mm 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 150mm and above.
- 9. Loose accessories should be fitted to unit using Loctite 577 or suitable threadlocking 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.

Contamination Control ChemPot Dosing Pot



Key Points

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

The Chempot is a hight 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.

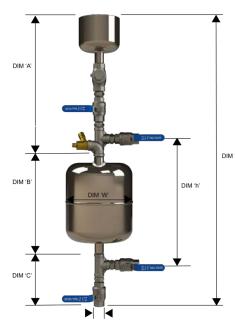
Chempot is fully compliant with the latest BSRIA BG50/2021 recommendations regarding avoiding dead legs and is compliant with Equipment Directive 2014/68/EU Cat SEP and Pressure Equipment (Safety) Regulations 2016.

Sizing:

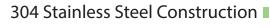
The size of dosing pot installed in a system is not critical as multiple doses of chemicals can be put in to the system to reach the correct concentration.

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.



	SIZE	Con Size	DIM A	DIM B	DIM C	DIMW	DIM H	DIM h	Working Pressure
	3.5L	1/2″	285mm	260mm	130mm	162mm	675mm	310mm	10Bar
и 'н'	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

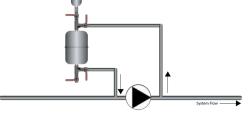


Supplied With Tundish & All Valves

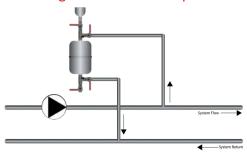
Polished Stainless Steel Finish

Wall Mounting Brackets Fitted

BSRIA Compliant if installed in this configuration



Not BSRIA Compliant if installed in this configuration - But Acceptable



+ 4 4 (0) 1 5 2 4 3 8 8 8 2 2 Last Updated: 10 Nov 2019

Exco Industries Limited June 2016 STANDARD CONDITIONS OF SALE

1) Interpretation

In these conditions the following terms have the following meaning:-

Seller - Exco Industries Limited

 ${\bf Buyer}$ - The person, firm or company purchasing the products subject of the contract between the Seller and the Buyer

Products - The goods or materials which shall be the subject of the contract between the Seller and the Buyer

Price - The price specified in the Seller's quotation, acknowledgement, order or otherwise communicated to the Buyer and agreed

2) General

2.1. These conditions prevail over any conditions stipulated by the Buyer, whether express or by implication or incorporation. If the Buyer's documentation shall contain any conditions as to sale and purchase they shall be of no contractual effect between the Seller and the Buyer.

2.2. Save as is otherwise expressly agreed in writing by the Seller or as is expressly provided in these conditions all guarantees, warranties, conditions, representations or stipulations whether expressed or implied and whether arising hereunder or under any prior agreement or statement, or by statute, common law or otherwise are hereby excluded and negated, provided that nothing in this dause or elsewhere in these conditions shall operate to exclude the provisions of Section 12 of the Sales of Goods Act 1979 and the Consumer Rights Act 2015 or to exclude or restrict liability for death or personal injury resulting from the Seller's negligence.

2.3. In the event that the Buyer produces to the Seller at any stage conditions upon which the Buyer will enter any agreement to acquire the Products the terms of these Standard Conditions of Sale shall prevail over the Buyer's conditions in the event of conflict.

3) Orders

3.1. Orders for products shall be in writing and are accepted by the Seller subject to these conditions unless otherwise varied in writing.

3.2. Once an order has been placed by the Buyer it may not be suspended, cancelled or amended without the Seller's prior written agreement. The Buyer shall be responsible for the cost of all purchases, stocks, work-in-progress, labour costs, unrecovered overheads, and other expenses suffered by the Seller as a result of such suspension, cancellation or amendment.

3.3. Products are supplied specifically for the purposes mentioned in the Order/Order Acknowledgement and for no other purposes.

4) The Price

4.1. All prices given, published or put forward are quotations unless otherwise expressly stated therein. Prices quoted are prices prevailing at the date of quotation and are subject to increase. The Seller may at any time before delivery increase the price of the undelivered products or balance of the products by notice in writing to the Buyer. Prices invoiced are prices prevailing at the date of despatch.

4.2. Unless otherwise stated on acceptance, the price of the products shall include the Seller's costs of standard packing, normal insurance and delivery of the products to any one address in the United Kingdom maintained specified in writing by the Buyer and agreed by the Seller prior to delivery.

5) Payment

5.1. Unless otherwise stated on the Seller's invoice or otherwise agreed in writing, payment for the products shall be made not later than thirty days after the end of the month of invoicing but so that the Seller may at any time on or after acceptance by notice in writing to the Buyer vary the terms of payment by demanding immediate payment or (at the Seller's option) adequate security for sums which will be due hereunder.

5.2. Time of payment shall be of the essence and failure by the Buyer to pay the price or any installment thereof in due time shall entitle the Seller to treat such failure as a repudation of the whole contract by the Buyer and to require the Buyer to make immediate payment of all monies due or become due and to recover from the Buyer damages for such breach of contract and/or (at the Seller's option) to charge interest at four per cent per annum above the base rate of Bardays Bank PLC from due date untilpayment.

6) Delivery

Unless otherwise agreed in writing between the Seller and the Buyer the following provisions shall apply:-

6.1. Delivery of the products shall have taken place when the products have been delivered to the address specified on the Seller's quotation, acknowledgement or other document or if the Buyer refuses to accept delivery, at the time when the products are due and ready for delivery in such latter instance the Seller shall be entitled to arrange storage for the products and to charge such storage and other costs to the Buyer and the Buyer shall also be responsible for the payment of interest on any unpaid sum in accordance with clause 5.2.

6.2. The delivery date or dates specified on the Seller's acceptance of order are estimates only. The Seller shall not be liable for failure to deliver by such date or dates or for any damage or loss arising directly or indirectly out of delay in delivery; nor shall the Buyer be entitled to refuse to accept the Products because of latedelivery.

6.3. Where delivery is to be made by installments, each delivery shall be deemed for such purpose to be the subject of a separate contract and any failure whatsoever by the Seller in respect of any one delivery shall not entitle the Buyer to repudiate the contract or any installments remaining to be delivered thereunder.

6.4. The risk of any loss or damage to or deterioration of the products shall be borne by the Buyer from the time delivery has taken place in accordance with clause 6.1.

6.5. In respect of sea transit the Seller shall not be required to give the Buyer the notice relating to insurance of the products referred to in Section 32(3) of the Sales of Goods Act 1979 and the Consumer Rights Act 2015.

6.6. The Buyer is deemed to have accepted the Products after a period of 3 days after the date of delivery.

6.7. The Buyer shall make all necessary arrangements to take delivery of the Product on the date when the Products are tendered for delivery.

7) Property

Notwithstanding delivery and the passing of risk:-

7.1. The property in the products shall remain the Sellers until payment in full has been made to the Seller by the Buyer for the products and all other sums due to the Seller at the date of delivery of the products.

7.2. Where full payment has not been made to the Seller and the Buyer uses the products in his manufacturing process or incorporates the products with other products the property in the products shall be retained by the Seller insofar as such products are identifiable and insofar as they are incorporated with other products the Seller's title in the products shall transfer into the product of which the products form a part. The Seller also reserves the right to trace into the proceeds of sale of the products or of the products of which the products form a part to the extent that the Seller remains unpaid.

7.3. Until such payment is made the Buyer shall hold all products and materials the property in which is vested in the Seller on a fiduciary basis only and in any of the events specified above the Buyer shall store such products and materials so as to be marked and clearly identifiable as the property of the Seller in any dispute relating thereto.

7.4. The Buyer grants the Seller the right of entry (by force, if necessary) upon the Buyer's premises to recover the products if the Buyer is in breach.

8) Lien

The Seller shall in respect of all unpaid debts due from the Buyer under the same or any other contract have a general lien on all products and property of the Buyer in its possession (although the products or some of therm may have been paid for) and shall after the expiration of fourteen days written notice to the Buyer be entitled to dispose of such products and property as it deems fit, and apply the proceeds towards such debts.

9) Loss/Damage/Storage

9.1. Unless otherwise agreed in writing between the Buyer and Seller the Seller may deliver against any order an excess and/ or deficiency up to ten per cent of weight or volume ordered without any liability whatsoever to the Buyer save that the price shall be adjusted accordingly.

9.2. The Buyer shall inspect the products immediately upon delivery and shall within 3 days of such delivery (time being of the essence) give notice in writing to the Seller and the carrier of all claims on account of damage to or total or partial loss of Products in transit. Claims for non-delivery must be submitted in writing to the Seller within fourteen days after notification of despatch. Quality claims must be made in writing immediately after the Buyer learns of the defect and in any event not later than thirty days after the Buyer's receipt of the products. Any daim not made in writing and received by the Seller within the aforesaid timelimits shall be deemed waived.

9.3. If the Buyer establishes to the satisfaction of the Seller that products have been damaged in transit or that the consignment is incomplete, the Seller will, at the Seller's option, repair or replace such products or credit the Buyer with the value thereof as appropriate, provided that the Buyer shall have given to the Seller written notification (otherwise than upon the carrier's delivery document) of such damage or shortage as provided in clause 9.2. The Seller shall be permitted a reasonable opportunity to inspect any damaged consignment and to investigate any shortage.

9.4. Save as provided in clause 9.3 above, the Seller shall not be liable to the Buyer for any loss or damage arising out of or in connection with products damaged or shortages.

9.5. If the Seller fails to make delivery or makes defective delivery of any one installment such failure or defective delivery shall not vitiate the contract as reaards other installments.

9.6. The right of the Buyer to set off the value of any shortage, defective products or products not otherwise conforming to contract shall be restricted to the specific invoice for the products in question and shall not apply to previous or future accounts.

10) Liability/Limitation and Warranty

10.1. All conditions, guarantees, or warranties express or implied by statute, common law or otherwise including (but without prejudice to the generality of the foregoing) conditions, guarantees or warranties as to quality, fitness for purpose or description of the products or their life or wear or use under any conditions whether known or made known to the Seller or not are hereby excluded.

10.2. The Seller's liability for any and all direct loss or damage resulting to the Buyer from defects in the products or any other cause shall be limited to the purchase price of the quantity of the products in respect of or in relation to which such loss or damage is claimed. The Seller shall not be liable for any loss, damage or expense caused to the Buyer by reason of any labour costs or other expenditure incurred by the Buyer or for any indirect or consequential loss or damage howsoever arising. Subject as aforesaid the Seller shall be under no liability in contract or in tort for any loss or damage or personal injury arising directly out of the supply or use of the products or containers other than death or personal injury resulting from the negligence of the Seller within the meaning of Section 1 of the Unfair Contract Terms Act 1977 and the Consumer Rights Act 2015.

11) Force Majeure

11.1. Deliveries may be partially or totally suspended by either party during any period in which it is prevented from manufacturing, delivering or taking delivery of the products through any circumstances outside its control. If because of such circumstances, the Seller is unable to supply the total requirement of the products the Seller may allocate its available supply (after satisfaction of its own requirements) amongst all of its customers, including those not under contract, as the Seller thinks fit. Deliveries so suspended shall be cancelled without liability, but the contract between the parties shall otherwise remain unaffected.

11.2. For the purpose of these conditions, circumstances outside the Seller's control include acts of God, strikes, lock-outs, other industrial action, fire, accident, lightning, earthquakes, storms, floods, explosion, war, governmental restriction and any other circumstances, whether similar or dissimilar, beyond the reasonable control of the Seller.

12) Indemnity

The Buyer shall indemnify the Seller in respect of all damage or injury occurring to any person, firm, company or property and against all actions, suits, daims and demnads, charges or expenses in connection therewith for which the Seller may become liable in respect of the products sold under the contract in the event that the damage or injury shall have been occasioned otherwise than by the negligence of the Seller.

13) Default

The Seller reserves the right (without prejudice to its other rights and remedies) either to terminate the contract between the parties or to suspend further deliveries under it or require payment in advance in the event that the Buyer fails to pay for any one delivery when the same becomes due or the Buyer's financial responsibility becomes unsatisfactory to the Seller or if the Buyer, being a company, goes into liquidation or has a receiver appointed or not being a company has a receiving order made against him or enters into any arrangement or composition with creditors.

14) V.A.T.

All prices quoted are exclusive of all import duties, V.A.T. and other imposts which will be for the Buyer's account and should be added to the price as appropriate.

15) Intellectual Property

No representation, warranty or indemnity is given by the Seller that the products do not infringe any letters patent, trademarks, registered designs or other industrial rights.

16) Product Liability

16.1. The Buyer shall ensure that the products are transported, stored, fitted and used in accordance with any specifications or instructions which the Seller may provide.

16.2. The Buyer shall ensure that customers of the products incorporating the products shall be warned of the nature of the products and shall be given any information in respect of any claims made against the Seller where the Buyer has failed to comply with clause 16.1 above.

17) Assignability

The contract of which these conditions form part is personal to the Buyer and the benefit thereof shall not be assigned without the Seller's written consent.

18) Proper Law

These conditions and the contract between the parties shall be construed and applied in accordance with the Law of England and the English Courts shall have sole jurisdiction in any dispute relating thereto.

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ISO 9001, ISO 14001 OHSAS 18001



Hoses & Bellows



Fire Sleeve Pipe Wraps & Intumescent Mastic



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 Way
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 Lancashire
 LA3
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