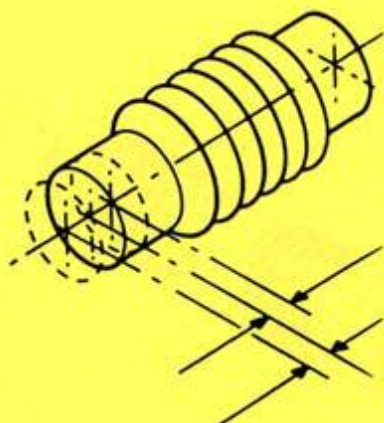


INTERFLEX

INTERFLEX HOSE & BELLAWS LTD.

Ludlow Business Park
Ludlow
Shropshire. SY8 1XF
Telephone: (01584) 878500
Facsimile: (01584) 878115

STAINLESS STEEL STANDARD SINGLE AXIAL EXPANSION JOINTS



APPLICATION Widely used to absorb thermal expansion in pipe systems carrying water, steam, oils, and gases.

CONSTRUCTION Each joint comprises hydraulically formed convolutions in grade 321 stainless steel, complete with flow sleeve in 321 grade stainless steel, and fitted with carbon steel welding ends, screwed ends or flanges to any national standard.

Units are shop tested at 1.5 x rated design pressure.

INSTALLATION These joints must always be located in straight lengths of pipe, with anchors at each end sized to carry pressure thrust, bellows spring rate forces and guide/support friction forces. Use only one joint between two anchors. Guide spacing and detail, is extremely important to ensure pipe expansion is directed into axis of bellows. Support in accordance with normal practice. Please consult us if in any doubt.

DESIGN STANDARDS All joints are designed to conform to the requirements of EJMA (Expansion Joint Manufacturers Association), using data verified by independent tests. Where applicable the units conform to BS 6129, an essential standard for manufacturer, purchaser and installers of expansion joints.

ALTERNATIVE CONSTRUCTIONS Convolution sets and end fittings in 304, 316, 310 Stainless Steel, Nickel or Nickel Alloys, vanstone facing, telescopic internal sleeves, external shrouds.

DELIVERY TIME Convolution sets for items in this leaflet are held in stock. Eliminating the convolution forming time ensures the speediest response to your delivery requirement.

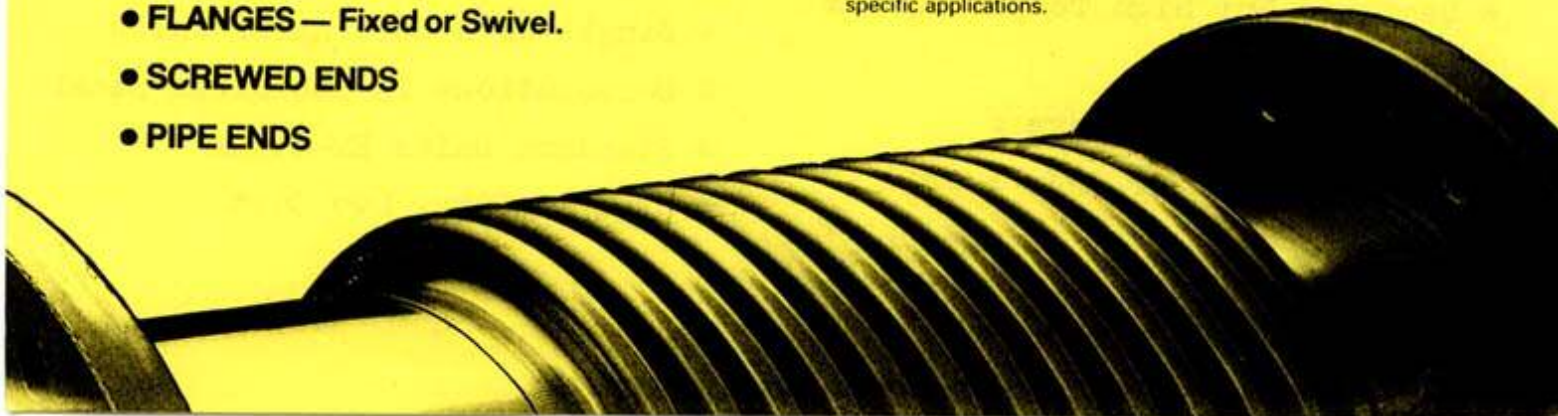
QUALITY Our policy is to maintain a quality management system which ensures the highest product reliability and company service to industry.

OTHER PRODUCTS Axial expansion joints up to 300 m m nb for 40 barg rating, up to 600 m m nb for 16 barg rating, up to 900 m m nb for 10 barg rating, and up to 1200 m m nb for 6 barg rating.

TIED, HINGED AND GIMBAL JOINTS Up to 1200 m m nb to absorb angular or lateral expansion, give excellent system control and their use should not be confined just to cases where axial joint anchor forces are excessive.

SPECIAL JOINTS Jacketted, externally pressurised and axial pressure balanced expansion joints, all have specific applications.

- **FLANGES** — Fixed or Swivel.
- **SCREWED ENDS**
- **PIPE ENDS**



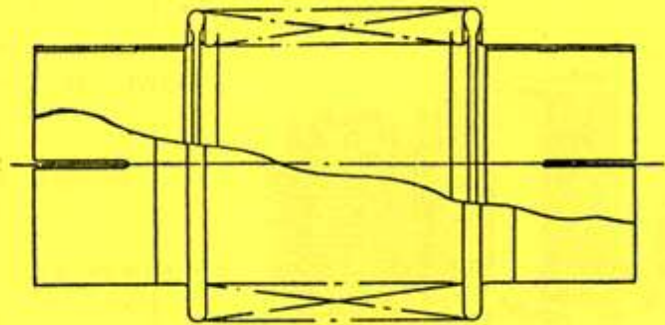
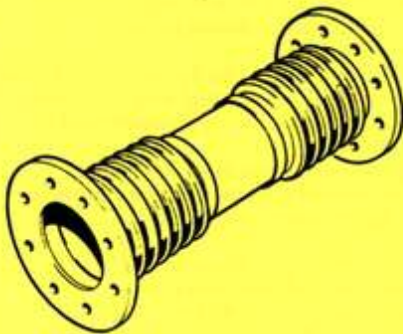
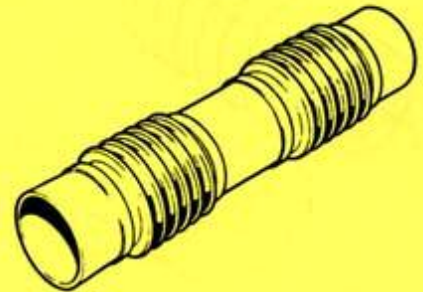
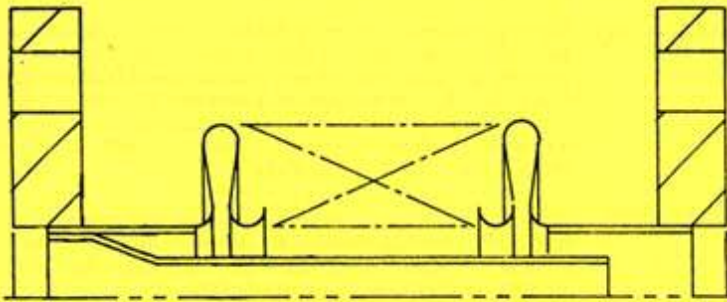
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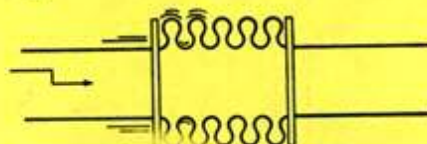
Quality Stainless Steel / Rubber / PTFE Flexible Hoses & Expansion Joints

Expansion Joints for Exhaust Gas Lines



- * For Noise & Vibration Isolation
In Exhaust Gas Lines
- * Designed For High Temperature &
Low Pressure
- * Standard End Fittings :
 - Slotted Cuff Ends ; or
 - BS10 Table 'D' Flanges

- * Sizes From 45 mm to 450 mm NB
- * Larger Sizes Available
- * Single Or Double Axial Units
- * Convolutions In Stainless Steel
- * Standard Units Ex-Stock
- * High Quality, Low Cost

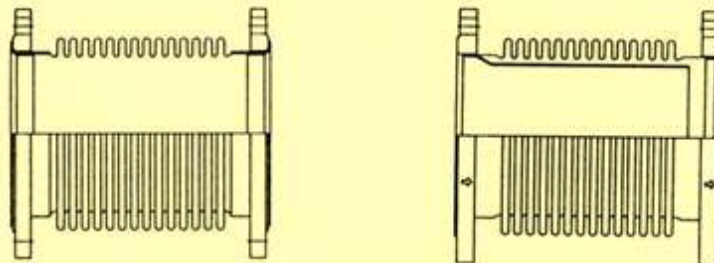




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 Shropshire. SY8 1XF.
 Telephone: (01584) 878500
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SINGLE - AXIAL EXPANSION JOINT - FLANGED



TYPE : SAF/10

Max. Design Pressure - 10 bar
 Max. Design Temperature - 300°C
 Test Pressure - 15 bar

NOMINAL SIZE	PIPE DIAMETER O.D	AXIAL MOVEMENT		OVERALL LENGTH	EFFECTIVE AREA	AXIAL SPRING RATE
		+ OR - MM	TOTAL MM			
MM	MM			MM	CM ²	N/MM
15	21.3	10	20	132	4.2	10
20	26.9	10	20	132	7.2	14
25	33.7	10	20	132	10.5	16
32	42.4	10	20	154	17.7	12
40	48.3	10	20	154	20.8	16
50	60.3	25	50	208	37	67
65	76.1	25	50	208	56	88
80	88.9	25	50	208	75	198
100	114.3	25	50	208	118	257

TYPE : SAF/16

Max. Design Pressure - 16 bar
 Max. Design Temperature - 300°C
 Test Pressure - 24 bar

NOMINAL SIZE	PIPE DIAMETER O.D	MOVEMENT		OVERALL LENGTH	EFFECTIVE AREA	AXIAL SPRING RATE
		+ OR - MM	TOTAL MM			
MM	MM			MM	CM ²	N/MM
50	60.3	25	50	208	37	67
65	76.1	25	50	208	56	88
80	88.9	25	50	208	75	198
100	114.3	25	50	208	118	257
125	139.7	38	76	314	187	206
150	168.3	38	76	314	261	248
200	219.1	50	100	352	441	249
250	273	50	100	352	665	313
300	323.9	50	100	352	918	373
350	357	45	90	325	1200	840
400	406	45	90	325	1530	940
450	457	45	90	325	1929	840
500	508	45	90	343	2342	940
550	559	45	90	310	2895	690
600	610	45	90	310	3394	740

CONSTRUCTION :

321 stainless steel bellows with 321 stainless steel internal flow liners and carbon steel end fittings terminating in flanges to British, European or ANSI standards. This leaflet shows our standard range - bespoke units with alternative materials, pressure ratings, lengths and end fittings are available on request - please contact our Sales Office for further information.

TYPICAL APPLICATIONS :

These units are suitable for use with steam, condensate, hot or cold water oils and chemicals. For applications where all - stainless contact with the flowing medium is required units can be supplied with stainless steel end fittings or with van - stone facings.

INSTALLATION NOTES :

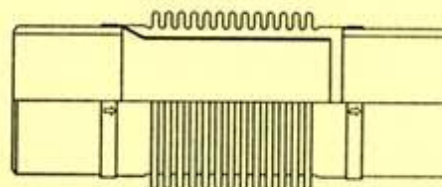
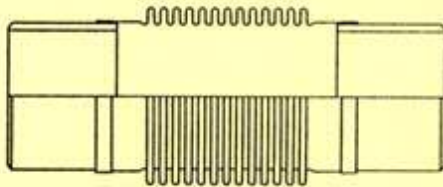
Metallic expansion joints should be specified and installed in accordance with BS 6129 Part 1 (1981). These units are unrestrained and exert pressure thrust forces onto adjacent equipment under internal pressure. Careful attention should therefore be given to anchoring and guiding the pipework.



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SINGLE - AXIAL EXPANSION JOINT - WELD ENDS



TYPE : SAP/10

Max. Design Pressure - 10 bar
Max. Design Temperature - 300°C
Test Pressure - 15 bar

NOMINAL SIZE	PIPE DIAMETER O.D	AXIAL MOVEMENT		OVERALL LENGTH	EFFECTIVE AREA	AXIAL SPRING RATE
		+ OR - MM	TOTAL MM			
15	21.3	10	20	122	4.2	10
20	26.9	10	20	122	7.2	14
25	33.7	10	20	122	10.5	16
32	42.4	10	20	144	17.7	12
40	48.3	10	20	144	20.8	16
50	60.3	25	50	266	37	67
65	76.1	25	50	266	56	88
80	88.9	25	50	266	75	198
100	114.3	25	50	266	118	257

TYPE : SAP/16

Max. Design Pressure - 16 bar
Max. Design Temperature - 300°C
Test Pressure - 24 bar

NOMINAL SIZE	PIPE DIAMETER O.D	MOVEMENT		OVERALL LENGTH	EFFECTIVE AREA	AXIAL SPRING RATE
		+ OR - MM	TOTAL MM			
50	60.3	25	50	266	37	67
65	76.1	25	50	266	56	88
80	88.9	25	50	266	75	198
100	114.3	25	50	266	118	257
125	139.7	38	76	372	187	206
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CONSTRUCTION :

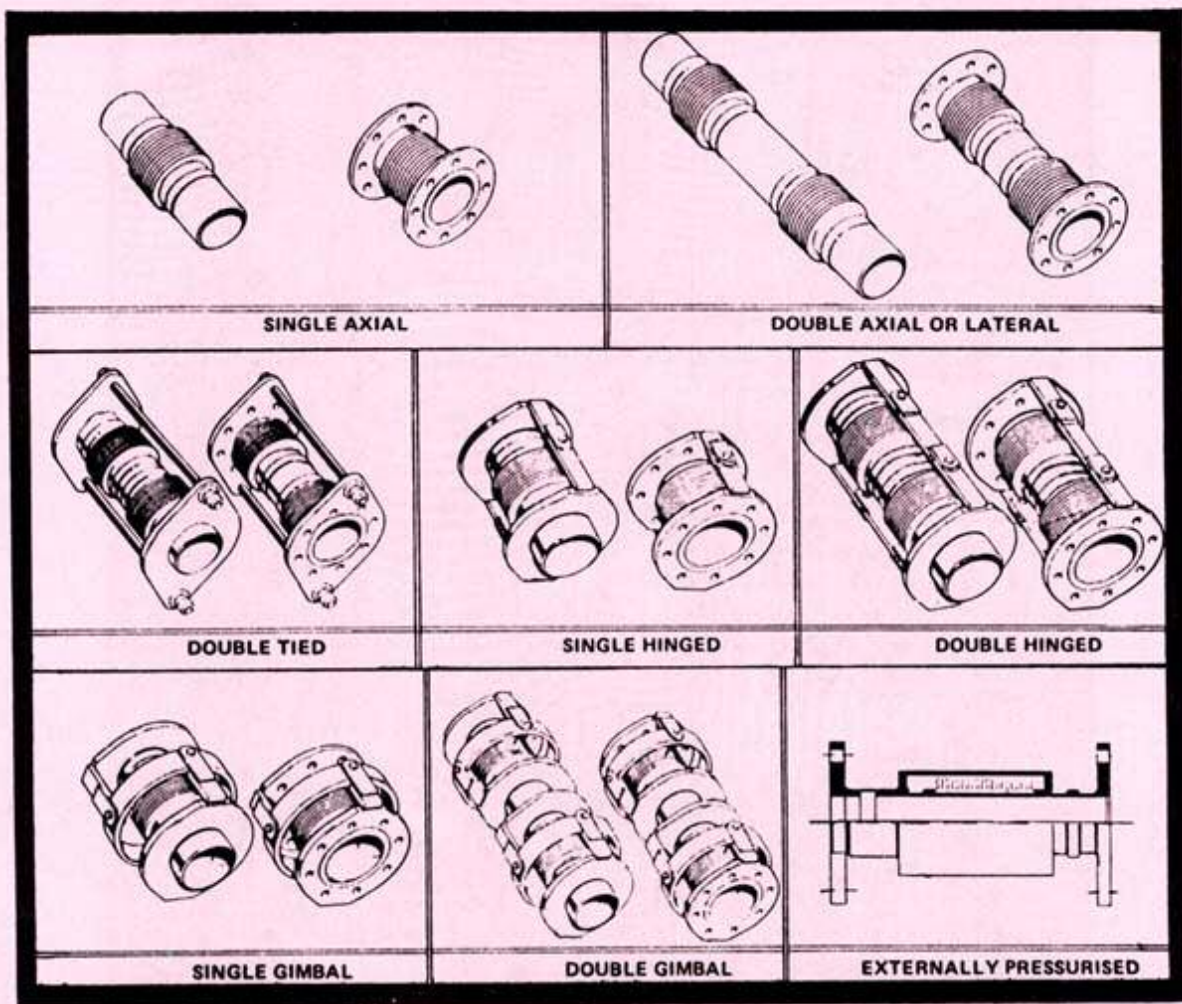
321 stainless steel bellows with 321 stainless steel internal flow liners (when specified) with carbon steel end fittings terminating in weld - ends to British, European or ANSI standards. This leaflet shows our standard range, bespoke units with alternative materials, pressure ratings, lengths and end fittings are available - please contact our Sales Office for further information.

TYPICAL APPLICATIONS :

These units are suitable for use with steam, condensate, hot or cold water oils and chemicals. For applications where all - stainless contact with the flowing medium is required units can be supplied with stainless steel end fittings.

INSTALLATION NOTES :

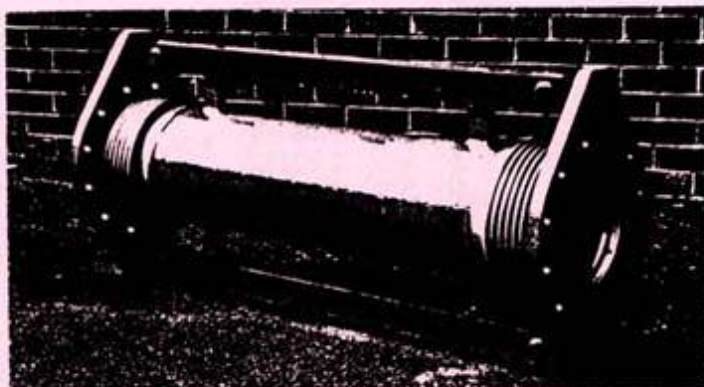
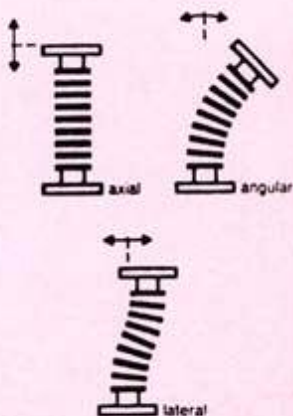
Metallic expansion joints should be specified and installed in accordance with BS 6129 Part 1 (1981). These units are unrestrained and exert pressure thrust forces onto adjacent equipment under internal pressure. Careful attention should therefore be given to anchoring and guiding the pipework.



The fields of applications for metallic expansion joints span a vast range - wherever high stresses are induced in pipework & ducting systems, pressure vessels, etc, due to thermal expansion, vibrations, misalignment, and pipe movements, the expansion joint can sometimes be the only adequate flexible element which meets all requirements.

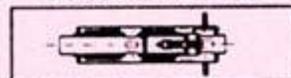
Interflex Metallic Expansion Joints are high quality products designed with all the characteristics expected to solve these problems - they are vacuum-tight, pressure-tight, maintenance-free, corrosion resistant, cover wide temperature and diameter ranges, and absorb axial, lateral, and angular movements.

They are used successfully not only in simple applications such as steam lines, heating & ventilating systems, and vehicle exhaust pipes, but also in sophisticated areas such as power generation and petro-chemical industries.



OTHER DESIGNS

EXTERNALLY PRESSURISED
PRESSURE BALANCED



PRESSURE BALANCED



SQUARE & RECTANGULAR



INTERFLEX

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