

**Easyflex**™

# Single Arch Expansion Joints



- ⇒ Greater Movements.
- ⇒ Higher Pressure Ratings.
- ⇒ No gaskets required.
- ⇒ Absorbs & Isolates Vibrations/Noise/Shock.
- ⇒ Molded Design for better quality upto size 14" NB.
- ⇒ Reduces System Noise.
- ⇒ Absorbs Pipe Movement/Stress.
- ⇒ Compensates for Misalignment/Offset.
- ⇒ Available with tie rod assembly (Specially Recommended) from 25NB to 350NB (see construction features)



## Temperature Ratings

Standard (-) 10° to 70°C  
 Special (-) 10° to 150°C

\* Expansion Joints for special applications in different Polymers and Pressure ratings available as per customer specifications.

## Movement Capability

Nominal Bore (mm)	Length (mm)	Axial Corp. (mm)	Axial Elongation (mm)	Transverse Deflection (mm)	Angular Movement		Torsional Movement Deg.	
					Bore (mm)	Deg.		
20	- 25	125	12	6	12	25	14.5	3
32	- 200	150	12	6	12	50	14.5	3
						75	10	3
						100	7.5	3
						125	6	3
						150	5	3
						200	5	3
250	- 500	200	19	10	12	250 - 300	4	3
						350 - 400	2.5	2
						450 - 500	2	1
550	- 600	250	22	11	12	500 - 600	2	1
650	- 1000	300	25	12	12	650 - 750	2	1
						850 - 1000	1.5	1
1050	- 1800	300	25	12	12	1050 - 1800	1.5	1

\*Standard PN10 and PN16 REJ design chart for sizes 25NB to 350NB available on next page

- ⇒ Due to policy of continual improvement, the specifications are subject to change without prior notice.
- ⇒ Measurements are subject to 5% tolerance.
- ⇒ To achieve good results do not over load fitting more than designed parameters as per drawing / catalogue.
- ⇒ Compliance - As per FSA Standards USA.

**Easyflex**<sup>TM</sup>

# Single Arch Expansion Joints



## PN - 10

Nominal Size (I.D.)		Length Nominal f.f.	Flange Dia Nominal	Flange Thick	Expansion Joint Style	BS 10 Table D			ANSI 125/150# LBS			Operating Conditions	
INS.	MM					Hole Dia	No. of Holes	B.C.D. (Approx)	Hole Dia	No. of Holes	B.C.D. (Approx)	Pressure Design	Test Pressure
		MM	MM	MM		MM	NOS.	MM	MM	NOS.	MM		
1	25	150	114	14	EF 812	14	4	83	16	4	79	10 Bar	15 Bar
1.25	32	150	121	14	EF 812	14	4	87	16	4	89	10 Bar	15 Bar
1.5	40	150	126	14	EF 812	14	4	98	16	4	98	10 Bar	15 Bar
2	50	150	152	14	EF 812	18	4	114	19	4	121	10 Bar	15 Bar
2.5	65	150	178	14	EF 812	18	4	127	19	4	148	10 Bar	15 Bar
3	80	150	191	14	EF 812	18	4	146	19	4	152	10 Bar	15 Bar
4	100	150	229	14	EF 812	18	4	178	19	8	191	10 Bar	15 Bar
5	125	150	254	14	EF 812	18	8	210	22	8	216	10 Bar	15 Bar
6	150	150	279	14	EF 812	18	8	235	22	8	241	10 Bar	15 Bar
8	200	150	343	19	EF 812	18	8	292	22	8	298	10 Bar	15 Bar
10	250	200	406	19	EF 812	21	8	356	25.4	12	362	10 Bar	15 Bar
12	300	200	483	19	EF 812	21	12	406	25.4	12	362	10 Bar	15 Bar
14	350	200	533	22	EF 812	24	12	470	28.6	12	476	10 Bar	15 Bar

## PN - 16

Nominal Size (I.D.)		Length Nominal f.f.	Flange Dia Nominal	Flange Thick	Expansion Joint Style	BS 10 Table E			ANSI 125/150# LBS			Operating Conditions	
INS.	MM					Hole Dia	No. of Holes	B.C.D. (Approx)	Hole Dia	No. of Holes	B.C.D. (Approx)	Pressure Design	Test Pressure
		MM	MM	MM		MM	NOS.	MM	MM	NOS.	MM		
1	25	150	114	14	EF 812	16	4	83	16	4	79	16 Bar	24 Bar
1.25	32	150	121	14	EF 812	16	4	87	16	4	89	16 Bar	24 Bar
1.5	40	150	126	14	EF 812	16	4	98	16	4	98	16 Bar	24 Bar
2	50	150	152	14	EF 812	19	4	114	19	4	121	16 Bar	24 Bar
2.5	65	150	178	14	EF 812	19	4	127	19	4	148	16 Bar	24 Bar
3	80	150	191	14	EF 812	19	4	146	19	4	152	16 Bar	24 Bar
4	100	150	229	14	EF 812	19	4	178	19	8	191	16 Bar	24 Bar
5	125	150	254	14	EF 812	19	8	210	22	8	216	16 Bar	24 Bar
6	150	150	279	14	EF 812	22	8	235	22	8	241	16 Bar	24 Bar
8	200	150	343	19	EF 812	22	8	292	22	8	298	16 Bar	24 Bar
10	250	200	406	19	EF 812	22	12	356	25.4	12	362	16 Bar	24 Bar
12	300	200	483	19	EF 812	25	12	406	25.4	12	362	16 Bar	24 Bar
14	350	200	533	22	EF 812	25	12	470	28.6	12	476	16 Bar	24 Bar

### Standard Pressure Rating from 400 NB.

- 400 NB - 600 NB - 7.5 kg/sq cm<sup>2</sup>
- 650 NB - 1600 NB - 6 kg/sq cm<sup>2</sup>
- 1600 NB - 1800 NB - 4.5 kg/sq cm<sup>2</sup>

- ⇒ Higher Pressure Ratings and Movement Capabilities Available.
- ⇒ Expansion Joints are available in a variety of polymers for different applications duty conditions.
- ⇒ For Sizes above 1800 NB and also for Higher Pressure Rating Bellows can be designed as per customer requirement.
- ⇒ Vaccum - 26 inches of HG.
- ⇒ Please refer to our engineering department for special duty conditions/pollymers.