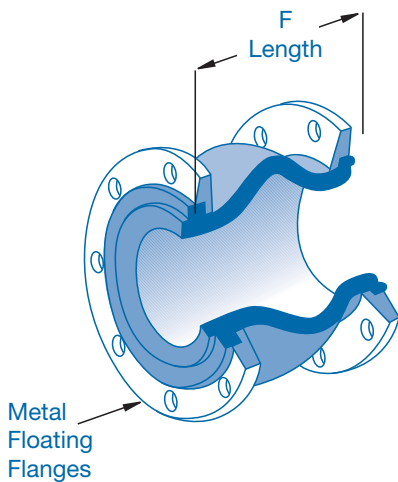




Flow Control

Flexible Piping Systems

Single Sphere expansion joint with Flanges.
 Constructed of a rubber inner liner & outer cover with embedded nylon cord reinforcement and wire reinforced collars.



Available Materials

Material Code	Cover Elastomer	Tube Elastomer	Maximum Operating Temp (°C)
EE	EPDM	EPDM	100
BB	Chloro Butyl	Chloro Butyl	100
HH	Neoprene	Neoprene	100
NP	Neoprene	Nitrile (Buna)	100

Temperature/Pressure Factors

Temperature (°C)	Working Pressure Factor
50	x 1.00
70	x 0.75
100	x 0.50

Type FSF - Single Sphere Connectors with Flanges

Nominal Dia.		'F' installed length mm		Travel mm Min Compr. Extended	Allowable Movements from Neutral				Pressure		Weight kg	
mm	inch	Neutral Length	Min Max Installed		Axial Compr. mm	Axial Ext. mm	Lateral Defl. mm	Angular Defl.	Positive MPa	Vacuum mm	Joint & Flanges	Control Unit Sets
32	1¼"	95	89-97	87-99	8	4	8	15°	1.55	660	2.10	1.40
40	1½"	95	89-97	87-99	8	4	8	15°	1.55	660	2.45	1.99
50	2"	105	99-107	99-110	8	5	8	15°	1.55	660	3.86	2.86
65	2½"	115	107-118	103-121	8	6	10	15°	1.55	660	5.60	3.36
80	3"	130	122-133	118-113	12	6	10	15°	1.55	660	6.40	3.68
100	4"	135	122-140	117-145	18	10	12	15°	1.55	660	7.80	3.27
125	5"	170	156-175	152-180	18	10	12	15°	1.55	660	10.70	3.86
150	6"	180	167-185	162-190	18	10	12	15°	1.55	660	13.20	4.82
200	8"	205	186-212	180-220	25	14	22	15°	1.55	660	18.80	6.36
250	10"	240	221-247	215-254	25	14	22	15°	1.55	660	26.60	10.00
300	12"	260	241-267	235-274	25	14	22	15°	1.55	660	37.70	12.73
350	14"	265	246-273	240-281	25	14	22	15°	1.03	660	54.50	13.41
400	16"	265	246-273	240-281	25	14	22	15°	0.86	660	76.40	12.63
450	18"	265	246-273	240-281	25	14	22	15°	0.86	660	77.30	15.04
500	20"	265	246-273	240-281	25	14	22	15°	0.86	660	79.50	15.50
550	22"	265	246-273	240-281	25	16	22	15°	0.79	660	95.50	15.68
600	24"	265	246-273	240-281	25	16	22	15°	0.76	660	116.00	20.90
700	28"	265	246-273	240-281	25	16	22	15	0.76	660	-	-

Note:

1. Pressure shown are recommended "operating". Test pressure is 1.5 times "operating". Burst pressure is approximate 4 times "operating".
2. Vacuum rating is based on neutral installed length, without external load. Products should not be installed "extended" on vacuum applications.
3. All expansion joints are furnished complete with retaining flanges. Control units are available on special order.