

METAL EXPANSION JOINTS

- LITERATURE
 - SUBMITTALS/SPECS
 - DRAWINGS
 - INSTALL INSTRUCTIONS
 - O&M MANUALS
 - WHITE PAPERS
- CASE STUDIES

METAL EXPANSION JOINTS

Metragator

Metragator externally pressurized expansion joints

The Metragator solves the problem of long axial travel for expansion joints. It comes standard for movements of 4", 6" and 8". They are available in 150 and 300 psi models, and can be configured as doubles if required.

Maximum Working Pressure: 150 or 300 psi

Maximum Working Temperature: 850°F

Test Pressure: 225/450 psi

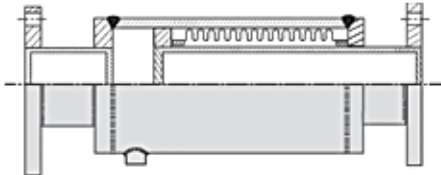
Bellows: 2-Ply T304 S/S

Click the links below to jump to a particular product info table.

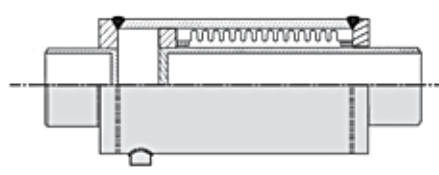
- [Externally Pressurized Expansion Joint 150 lb Flanged](#)
- [Externally Pressurized Expansion Joint 150 lb Grooved End](#)
- [Externally Pressurized Expansion Joint 150 lb Weld End](#)
- [Externally Pressurized Expansion Joint 300 lb Flanged](#)
- [Externally Pressurized Expansion Joint 300 lb Grooved End](#)
- [Externally Pressurized Expansion Joint 300 lb Weld End](#)
- [Additional Bellows Data](#)



"You gotta get a Gator"



FLANGED END



WELD END

Externally Pressurized Expansion Joint 150 lb Flanged

150 PSIG at 850 deg F.

Carbon Steel Body, 304 SS Bellows

Metraflex Part No.	Pipe Size	Compression	Spring Rate Lbs / In.	Effective Area In ²	Weight (lbs)	Casing Diameter	OAL	3D DRAWING
GAT04SF0200	2"	4"	183	13.18	34	5.51	24.88	CAD
GAT06SF0200		6"	115		41		31.61	CAD
GAT08SF0200		8"	92		50		38.38	CAD
GAT04SF0250	2.5"	4"	183	13.18	40	5.51	25.11	CAD
GAT06SF0250		6"	115		48		31.88	CAD
GAT08SF0250		8"	92		58		38.62	CAD
GAT04SF0300	3"	4"	343	20.77	51	6.61	23.89	CAD
GAT06SF0300		6"	235		60		30.11	CAD
GAT08SF0300		8"	172		75		38.42	CAD
GAT04SF0400	4"	4"	200	35.96	66	8.62	24.88	CAD
GAT06SF0400		6"	143		89		31.37	CAD
GAT08SF0400		8"	103		110		37.87	CAD
GAT04SF0500	5"	4"	235	46.35	112	10.75	25.00	CAD
GAT06SF0500		6"	166		133		31.50	CAD
GAT08SF0500		8"	120		165		38.27	CAD
GAT04SF0600		4"	269		138		25.51	CAD

Metraflex Part No.	Pipe Size	Compression	Spring Rate Lbs / In.	Effective Area In ²	Weight (lbs)	Casing Diameter	OAL	3D DRAWING
GAT04SW0200	2"	4"	183	13.18	26	5.51	24.25	CAD
GAT06SW0200		6"	115		33		30.98	CAD
GAT08SW0200		8"	92		42		37.76	CAD
GAT04SW0250	2.5"	4"	183	13.18	29	5.51	24.49	CAD
GAT06SW0250		6"	115		37		31.26	CAD
GAT08SW0250		8"	92		47		37.99	CAD
GAT04SW0300	3"	4"	343	20.77	38	6.61	23.27	CAD
GAT06SW0300		6"	235		47		29.49	CAD
GAT08SW0300		8"	172		62		37.80	CAD
GAT04SW0400	4"	4"	200	35.96	59	8.62	24.25	CAD
GAT06SW0400		6"	143		73		30.75	CAD
GAT08SW0400		8"	103		94		37.24	CAD
GAT04SW0500	5"	4"	235	46.35	91	10.75	24.25	CAD
GAT06SW0500		6"	166		112		30.75	CAD
GAT08SW0500		8"	120		144		37.52	CAD
GAT04SW0600	6"	4"	269	58.90	114	12.80	24.76	CAD
GAT06SW0600		6"	189		139		31.50	CAD
GAT08SW0600		8"	138		177		37.76	CAD
GAT04SW0800	8"	4"	332	88.82	153	14.02	27.24	CAD
GAT06SW0800		6"	235		185		33.74	CAD
GAT08SW0800		8"	166		238		40.98	CAD
GAT04SW1000	10"	4"	400	124.62	186	15.98	25.98	CAD
GAT06SW1000		6"	280		227		32.99	CAD
GAT08SW1000		8"	200		288		39.25	CAD
GAT04SW1200	12"	4"	463	166.63	226	17.99	25.98	CAD
GAT06SW1200		6"	326		273		32.24	CAD
GAT08SW1200		8"	235		346		38.74	CAD
GAT04SW1400	14"	4"	1328	212.00	212	20.00	24.50	CAD
GAT06SW1400		6"	885		212		32.00	CAD
GAT08SW1400		8"	1053		212		41.75	CAD
GAT04SW1600	16"	4"	1425	276.00	276	22.00	24.50	CAD
GAT06SW1600		6"	950		276		32.00	CAD
GAT08SW1600		8"	712		276		41.75	CAD

[Top](#)

**Externally Pressurized Expansion Joint 300 lb Flanged
300 PSIG at 850 deg F.**

Metraflex Part No.	Pipe Size	Compression	Spring Rate Lbs / In.	Effective Area In ²	Weight (lbs)	Casing Diameter	OAL	3D DRAWING
MEPB04S316A0200	2"	4"	388	12.00	49	5.63	25.75	CAD
MEPB06S316A0200		6"	260		63		34.75	CAD
MEPB08S316A0200		8"	194		72		41.75	CAD
MEPB04S316A0250	2.5"	4"	388	12.00	56	5.63	25.75	CAD
MEPB06S316A0250		6"	260		73		34.75	CAD
MEPB08S316A0250		8"	194		84		41.75	CAD
MEPB04S316A0300	3"	4"	504	16.00	75	6.63	24.75	CAD
MEPB06S316A0300		6"	380		87		31.25	CAD
MEPB08S316A0300		8"	252		106		39.75	CAD
MEPB04S316A0400	4"	4"	850	30.00	121	8.63	25.75	CAD
MEPB06S316A0400		6"	566		141		32.50	CAD
MEPB08S316A0400		8"	424		170		41.25	CAD
MEPB04S316A0500	5"	4"	1002	42.00	158	10.75	24.50	CAD
MEPB06S316A0500		6"	668		181		30.75	CAD
MEPB08S316A0500		8"	501		203		36.75	CAD
MEPB04S316A0600	6"	4"	1140	53.00	190	10.75	25.25	CAD
MEPB06S316A0600		6"	760		214		31.25	CAD

MEPB08S316A0600		8"	570		239		37.50	CAD
MEPB04S316A0800	8"	4"	2424	83.00	295	12.75	26.75	CAD
MEPB06S316A0800		6"	1616		336		33.50	CAD
MEPB08S316A0800		8"	1212		377		40.00	CAD
MEPB04S316A1000	10"	4"	3266	135.00	396	16.00	28.50	CAD
MEPB06S316A1000		6"	2177		452		35.75	CAD
MEPB08S316A1000		8"	1633		534		44.75	CAD
MEPB04S316A1200	12"	4"	3491	182.00	540	18.00	30.50	CAD
MEPB06S316A1200		6"	2327		610		38.25	CAD
MEPB08S316A1200		8"	1745		712		47.75	CAD
MEPB04S316A1400	14"	4"	2656	212.00	732	20.00	30.75	CAD
MEPB06S316A1400		6"	1770		828		28.50	CAD
MEPB08S316A1400		8"	1328		966		48.00	CAD
MEPB04S316A1600	16"	4"	2850	276.00	798	22.00	31.50	CAD
MEPB06S316A1600		6"	1900		905		29.25	CAD
MEPB08S316A1600		8"	1424		1060		48.75	CAD

[Top](#)

Externally Pressurized Expansion Joint 300 lb Grooved End

Metraflex Part No.	Pipe Size	Compression	Spring Rate Lbs / In.	Effective Area In ²	Weight (lbs)	Casing Diameter	OAL	3D DRAWING
MEPB04S332A0200	2"	4"	388	12.00	35	5.63	23.25	CAD
MEPB06S332A0200		6"	260		48		32.00	CAD
MEPB08S332A0200		8"	194		58		39.25	CAD
MEPB04S332A0250	2.5"	4"	388	12.00	36	5.63	23.25	CAD
MEPB06S332A0250		6"	260		52		32.00	CAD
MEPB08S332A0250		8"	194		63		39.25	CAD
MEPB04S332A0300	3"	4"	504	16.00	47	6.63	22.25	CAD
MEPB06S332A0300		6"	380		59		28.50	CAD
MEPB08S332A0300		8"	252		78		37.25	CAD
MEPB04S332A0400	4"	4"	850	30.00	74	8.63	22.75	CAD
MEPB06S332A0400		6"	566		94		29.50	CAD
MEPB08S332A0400		8"	424		124		38.50	CAD
MEPB04S332A0500	5"	4"	1002	42.00	97	10.75	21.50	CAD
MEPB06S332A0500		6"	668		120		27.50	CAD
MEPB08S332A0500		8"	501		143		33.75	CAD
MEPB04S332A0600	6"	4"	1140	53.00	106	10.75	21.50	CAD
MEPB06S332A0600		6"	760		130		27.50	CAD
MEPB08S332A0600		8"	570		155		33.75	CAD
MEPB04S332A0800	8"	4"	2424	83.00	168	12.75	22.50	CAD
MEPB06S332A0800		6"	1616		209		29.00	CAD
MEPB08S332A0800		8"	1212		250		35.75	CAD
MEPB04S332A1000	10"	4"	3266	135.00	216	16.00	23.75	CAD
MEPB06S332A1000		6"	2177		272		30.75	CAD
MEPB08S332A1000		8"	1633		354		40.00	CAD
MEPB04S332A1200	12"	4"	3491	182.00	185	18.00	25.00	CAD
MEPB06S332A1200		6"	2327		355		32.50	CAD
MEPB08S332A1200		8"	1745		457		42.25	CAD
MEPB04S332A1400	14"	4"	2656	212.00	373	20.00	25.00	CAD
MEPB06S332A1400		6"	1770		468		32.50	CAD
MEPB08S332A1400		8"	1328		607		42.25	CAD
MEPB04S332A1600	16"	4"	2850	276.00	418	22.00	25.00	CAD
MEPB06S332A1600		6"	1900		525		32.50	CAD
MEPB08S332A1600		8"	1424		680		42.25	CAD

[Top](#)

Externally Pressurized Expansion Joint 300 lb Weld End

Metraflex Part No.	Pipe Size	Compression	Spring Rate	Effective Area	Weight	Casing	OAL	3D DRAWING
--------------------	-----------	-------------	-------------	----------------	--------	--------	-----	------------

			Lbs / In.	In ²	(lbs)	Diameter		
MEPB04S330A0200	2"	4"	388	12.00	35	5.63	23.25	CAD
MEPB06S330A0200		6"	260		48		32.00	CAD
MEPB08S330A0200		8"	194		58		39.25	CAD
MEPB04S330A0250	2.5"	4"	388	12.00	36	5.63	23.25	CAD
MEPB06S330A0250		6"	260		52		32.00	CAD
MEPB08S330A0250		8"	194		63		39.25	CAD
MEPB04S330A0300	3"	4"	504	16.00	47	6.63	22.25	CAD
MEPB06S330A0300		6"	380		59		28.50	CAD
MEPB08S330A0300		8"	252		78		37.25	CAD
MEPB04S330A0400	4"	4"	850	30.00	74	8.63	22.75	CAD
MEPB06S330A0400		6"	566		94		29.50	CAD
MEPB08S330A0400		8"	424		124		38.50	CAD
MEPB04S330A0500	5"	4"	1002	42.00	97	10.75	21.50	CAD
MEPB06S330A0500		6"	668		120		27.50	CAD
MEPB08S330A0500		8"	501		143		33.75	CAD
MEPB04S330A0600	6"	4"	1140	53.00	106	10.75	21.50	CAD
MEPB06S330A0600		6"	760		130		27.50	CAD
MEPB08S330A0600		8"	570		155		33.75	CAD
MEPB04S330A0800	8"	4"	2424	83.00	168	12.75	22.50	CAD
MEPB06S330A0800		6"	1616		209		29.00	CAD
MEPB08S330A0800		8"	1212		250		35.75	CAD
MEPB04S330A1000	10"	4"	3266	135.00	216	16.00	23.75	CAD
MEPB06S330A1000		6"	2177		272		30.75	CAD
MEPB08S330A1000		8"	1633		354		40.00	CAD
MEPB04S330A1200	12"	4"	3491	182.00	185	18.00	25.00	CAD
MEPB06S330A1200		6"	2327		355		32.50	CAD
MEPB08S330A1200		8"	1745		457		42.25	CAD
MEPB04S330A1400	14"	4"	2656	212.00	373	20.00	25.00	CAD
MEPB06S330A1400		6"	1770		468		32.50	CAD
MEPB08S330A1400		8"	1328		607		42.25	CAD
MEPB04S330A1600	16"	4"	2850	276.00	418	22.00	25.00	CAD
MEPB06S330A1600		6"	1900		525		32.50	CAD
MEPB08S330A1600		8"	1424		680		42.25	CAD

[Top](#)

ADDITIONAL BELLOWS DATA

SIZE	BELLOWS EFFECTIVE AREA		BELLOWS SPRING CONSTANT					
	(Inches Squared)		(Lbs. / Inch / Corrugation)					
	150 PSI Rating	300 PSI Rating	150 PSI Rating			300 PSI Rating		
			4"	6"	8"	4"	6"	8"
2"	13	12	183	115	92	388	260	194
2-1/2"	13	12	183	115	92	388	260	194
3"	21	16	343	235	172	504	380	252
4"	36	30	200	143	103	850	566	424
5"	47	42	235	166	120	1002	668	501
6"	59	53	269	189	138	1140	760	570
8"	89	83	332	235	166	2424	1616	1212
10"	125	135	400	280	200	3266	2177	1633
12"	167	182	463	326	235	3491	2327	1745
14"	212	212	1328	885	1053	2656	1770	1328
16"	276	276	1425	950	712	2850	1900	1424
18"	338	338	1596	1064	798	3192	2128	1596
20"	404	404	1766	1177	883	3532	2354	1766

24"	481	481	1936	1290	968	3872	2580	1936
30"	562	562	2106	1404	1053	4212	2808	2106
36"	635	635	2255	1503	1128	4510	3006	2255

[Top](#)

The Metraflex Company, 2323 W. Hubbard Street, Chicago, IL 60612 | 800-621-4347 | 312-738-3800 | Fax 312-738-0415 | [Email for information.](#)
Copyright © 2000-2011 Metraflex, Inc. Metraflex, Metraloop, Fireloop and Cablesphere are registered trademarks of The Metraflex Company.
All Rights Reserved