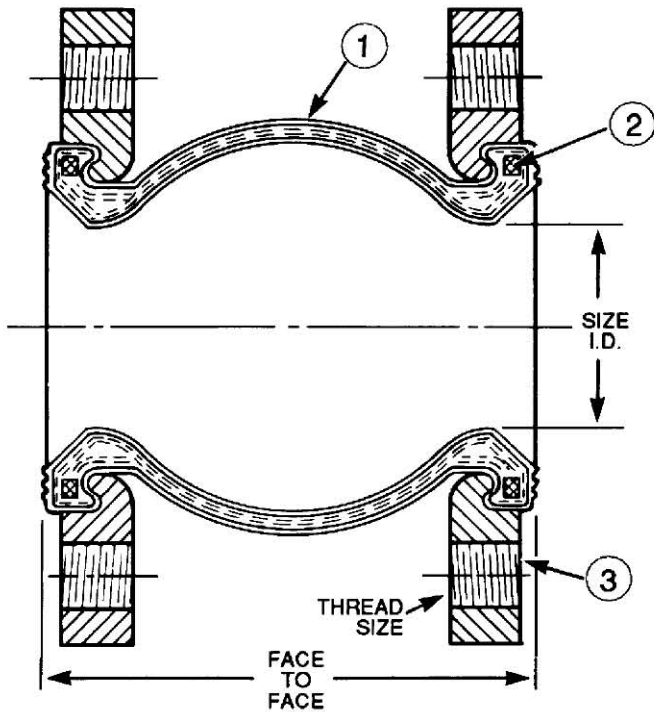


# METRASPHERE STYLE "R" 150# FLANGED

This flexible joint should be installed the length shown on drawing. Piping and equipment connected by this flexible joint must be anchored and guided. If not, control units must be used to prevent movement past design limits. Not intended for torsion.



**OPTIONAL MATERIALS AVAILABLE**  
Go to [www.metroflex.com/](http://www.metroflex.com/)

**TO BE FINISHED WITH CONTROL UNITS**

YES     NO

### LIST OF MATERIALS

ITEM	PART NAME	MATERIAL
1	STANDARD BODY	EPDM
2	WIRE	STEEL
3	FLANGE	PLATE STEEL

MAXIMUM WORKING TEMPERATURE: 230° F.

### \*Maximum Operating Conditions

Temperature (°F)	Maximum Pressure PSI
	12" & Smaller
170°	225
180°	200
190°	175
200°	150
210°	125
220°	100
230°	75

\*EPDM is the standard elastomer for the interior and exterior covering. Contact factory for other elastomers. **Not for steam applications.**

### MOVEMENT CAPABILITY AND FORCES

Qty	Size I.D. (in)	F/F (in)	Pressure* P.S.I.G.	Vacuum (in. Hg.)	AXIAL			DEFLECTION				No. Holes	Thread Size	
					Comp (in)	Approx Force (Lbs)	Elong. (in)	Approx Force (Lbs)	Lateral (in)	Approx Force (Lbs)	Angular (Degrees)			Weight (Lbs)
	2	6	225	16	1/2	55	3/8	73	1/2	55	15	8	4	5/8—11NC
	2-1/2	6	225	16	1/2	102	3/8	68	1/2	97	15	13	4	5/8—11NC
	3	6	225	16	1/2	136	3/8	115	1/2	108	15	14	4	5/8—11NC
	4	6	225	16	5/8	145	3/8	242	1/2	275	15	18	8	5/8—11NC
	5	6	225	16	5/8	172	3/8	196	1/2	308	15	23	8	3/4—10NC
	6	6	225	16	5/8	293	3/8	563	1/2	484	15	28	8	3/4—10NC
	8	6	225	16	5/8	372	1/2	587	1/2	688	15	40	8	3/4—10NC
	10	8	225	16	3/4	398	1/2	455	3/4	781	15	68	12	7/8—9NC
	12	8	225	16	3/4	390	1/2	356	3/4	842	15	94	12	7/8—9NC

CUSTOMER \_\_\_\_\_

PROJECT \_\_\_\_\_

ENGINEER \_\_\_\_\_

ARCHITECT \_\_\_\_\_

PRO. OR P.O. NO. \_\_\_\_\_

**Metroflex.**  
*for pipes in motion*

DESCRIPTION:

**METRASPHERE  
STYLE "R"  
SPHERICAL EXPANSION JOINT**

DRAWING BY:  
JRR

DATE:  
9/4/08

DRAWING NO.  
MSR-REV2