

Redflex M-150 Molded Expansion Joint, Single Arch (JRE)

Redflex D-30 Molded Expansion Joint, Double Arch (JRE)


M-150
 Single Arch

D-30
 Double Arch

- Rotating steel flanges ease installation
- Shallow spherical arch design for slurry service
- Requires no gaskets or back-up rings
- Heavy steel flanges withstand misalignment

Redflex M-150, Single Arch, and D-30, Double Arch, Molded Expansion Joints are an economical way to alleviate pipeline stress. A unique design features a flexible rubber arch section with two independent steel flanges drilled to ASME 125 dimensions. Steel flanges rotate freely, allowing the joint to be installed where pipe flanges have rotated out of alignment. Flexibility of the rubber allows the joint to compensate for movement in any direction, as well as absorb vibration.

The arch section is constructed of layers of elastomer reinforced with nylon tire cord. Arches of the M-150 and D-30 are shallow and spherically shaped to prevent possibility of build-up, making these joints excellent for slurry service. The smooth passage provides a non-turbulent flow path through the joint.

Steel flanges are drilled to ASME 125 dimensions, eliminating the need for back-up rings. Flanges are coated with three layers of chromate for a smooth, non-corrosive finish and are available threaded or with through-holes.

Materials of Construction

- **Elastomers:** Ethylene Propylene Diene Terpolymer (EPDM), Chloroprene (CR), Chlorosulfonated Polyethylene (CSM), Chloro-Isobutylene-Isoprene (CIIR)

Flanges

- Zinc Chromate-coated steel

Working Pressure

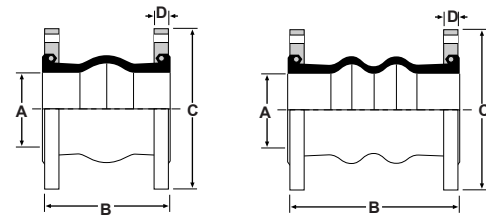
- 1.5-12" (38-305mm) max. working pressure: 225 psi (150 kPa)
- 14-20" (356-508mm) max. working pressure - style I: 60 psi (410 kPa)
- 14-20" (356-508mm) max. working pressure - style II: 100 psi (690 kPa)

Vacuum Rating

- Maximum vacuum: 28" (771mm) Hg

Temperature Rating

- CR - maximum temperature: 212°F (100°C)
- CIIR, EPDM - maximum temperature: 225°F (107°C)


M-150
 Single Arch

D-30
 Double Arch

Redflex M-150, D-30 Molded Expansion Joints Dimensions and Movement

SIZE	A	B		C	D	EXTENSION		COMPRESSION		DEFLECTION		ANGULAR DEFLECTION		WEIGHT lbs/kg	
		M-150	D-30			M-150	D-30	M-150	D-30	M-150	D-30	M-150	D-30	M-150	D-30
		1"	25			6.00	N/A	4.25	0.56	0.38	N/A	0.50	N/A	0.50	N/A
1.25"	32	6.00	7.00	4.63	0.56	0.38	0.44	0.50	0.88	0.50	0.88	31°	45°	5.0	5.3
1.5"	40	6.00	7.00	5.00	0.69	0.38	0.44	0.50	0.88	0.50	0.88	27°	45°	6.1	6.8
2"	50mm	6.00	7.00	6.00	0.81	0.38	0.44	0.50	0.88	0.50	0.88	20°	45°	12.3	9.0
2.5"	65	6.00	7.00	7.00	0.88	0.38	0.44	0.50	0.88	0.50	0.88	17°	43°	12.3	13.3
3"	80	6.00	7.00	7.50	0.88	0.38	0.44	0.50	0.88	0.50	0.88	14°	38°	14.0	14.3
4"	100	6.00	9.00	9.00	0.88	0.50	0.69	0.75	1.31	0.50	1.00	14°	34°	18.3	20.3
5"	125	6.00	9.00	10.00	0.94	0.50	0.69	0.75	1.31	0.50	1.00	11°	29°	22.8	24.5
6"	150	6.00	9.00	11.00	1.00	0.50	0.69	0.75	1.31	0.50	1.00	9°	25°	26.8	29.5
8"	200	6.00	13.00	13.50	1.13	0.50	0.88	0.75	1.75	0.50	1.31	7°	19°	40.6	43.8
10"	250	8.00	13.00	16.00	1.19	0.63	0.88	1.00	1.75	0.75	1.31	7°	15°	56.6	64.1
12"	300	8.00	13.00	19.00	1.81	0.63	0.88	1.00	1.75	0.75	1.31	6°	13°	83.0	95.0
14"	350	8.00	13.75	21.00	1.81	0.63	0.88	1.00	1.75	0.75	1.00	5°	9°	115.0	135.0
16"	400	8.00	13.75	23.50	1.81	0.63	0.88	1.00	1.75	0.75	1.00	4°	8°	165.0	175.0
18"	450	8.00	13.75	25.00	1.81	0.63	0.88	1.00	1.75	0.75	1.00	4°	7°	168.0	180.0
20"	500	8.00	13.75	27.50	1.81	0.63	0.88	1.00	1.75	0.75	1.00	3°	7°	170.0	185.0