

Molded Expansion Joints

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



The molded M-150 and D-30 Redflex Expansion Joints are an economical way to alleviate pipeline stress. This unique design features a flexible rubber arch section with two independent steel flanges drilled to ANSI 125# dimensions. The steel flanges rotate freely, allowing the joint to be installed where pipe flanges have rotated out of alignment. The 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 multiple layers of rubber reinforced with nylon tire cord. The arches of the M-150 and D-30 are shallow and spherically shaped to prevent any possibility of buildup, making these joints extremely well-suited for slurry service. The smooth passage also provides a non-turbulent flow path through the joint.

The steel flanges are drilled to ANSI 125# dimensions, and eliminate the need for backup rings. The flanges are coated with three layers of chromate for a smooth, noncorrosive finish and are available threaded or with through-holes.

Materials of Construction

▶ ELASTOMERS

Neoprene, Chlorobutyl, EPDM or Hypalon®

▶ FLANGES

Zinc Chromate-Coated Steel

▶ OPERATING CONDITIONS

1-1/2" — 12" max. working pressure

14" — 20" max. working pressure: Style I

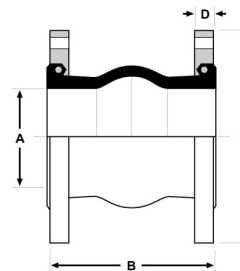
14" — 20" max. working pressure: Style II

Maximum Vacuum

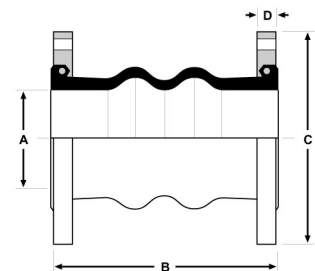
Neoprene: Maximum Temperature

Chlorobutyl, EPDM: Maximum Temperature

225 psi
60 psi
100 psi
28" Hg
212°F
225°F



M-150
Single Arch



D-30
Double Arch

Dimensions and Movement D-30 ANSI Class 150 Flanges

Size	A	B		C	D	Weight		Elongation		Compression		Deflection		Angular	
		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"	1"	6"	N/A	4 1/4"	9/16"	3.8	N/A	3/8"	N/A	1/2"	N/A	1/2"	N/A	37°	N/A
1-1/4"	1-1/4"	6"	7"	4 5/8"	9/16"	5.0	5.3	3/8"	7/16"	1/2"	7/8"	1/2"	7/8"	31°	45°
1-1/2"	1-1/2"	6"	7"	5"	11/16"	6.1	6.8	3/8"	7/16"	1/2"	7/8"	1/2"	7/8"	27°	45°
2"	2"	6"	7"	6"	13/16"	12.3	9.0	3/8"	7/16"	1/2"	7/8"	1/2"	7/8"	20°	45°
2 1/2"	2-1/2"	6"	7"	7"	7/8"	12.3	13.3	3/8"	7/16"	1/2"	7/8"	1/2"	7/8"	17°	43°
3"	3"	6"	7"	7-1/2"	7/8"	14.0	14.3	3/8"	7/16"	1/2"	7/8"	1/2"	7/8"	14°	38°
4"	4"	6"	9"	9"	7/8"	18.3	20.3	1/2"	11/16"	3/4"	1-5/16"	1/2"	1"	14°	34°
5"	5"	6"	9"	10"	15/16"	22.8	24.5	1/2"	11/16"	3/4"	1-5/16"	1/2"	1"	11°	29°
6"	6"	6"	9"	11"	1"	26.8	29.5	1/2"	11/16"	3/4"	1-5/16"	1/2"	1"	9°	25°
8"	8"	6"	13"	13-1/2"	1-1/8"	40.6	43.8	1/2"	7/8"	3/4"	1-3/4"	1/2"	1-5/16"	7°	19°
10"	10"	8"	13"	16"	1-3/16"	56.6	64.1	5/8"	7/8"	1"	1-3/4"	3/4"	1-5/16"	7°	15°
12"	12"	8"	13"	19"	1-13/16"	83.0	95	5/8"	7/8"	1"	1-3/4"	3/4"	1-5/16"	6°	13°
14"	14"	8"	13-2/4"	21"	1-13/16"	115.0	135	5/8"	7/8"	1"	1-3/4"	3/4"	1"	5°	9°
16"	16"	8"	13-3/4"	23-1/2"	1-13/16"	165.0	175	5/8"	7/8"	1"	1-3/4"	3/4"	1"	4°	8°
18"	18"	8"	13-3/4"	25"	1-13/16"	168.0	180	5/8"	7/8"	1"	1-3/4"	3/4"	1"	4°	7°
20"	20"	8"	13-3/4"	27-1/2"	1-13/16"	170.0	185	5/8"	7/8"	1"	1-3/4"	3/4"	1"	3°	7°