KISTLER

DOUBLE-SPHERE HIGH PRESSURE RUBBER EXPANSION JOINT WITH RING

With Floating Flanges

KISTLER Series KDR

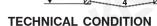
Double sphere are designed for piping systems to absorb pipe movements, relieve stress, reduce system noise/vibration, compensate for misalignment/offset and to protect rotating mechanical equipment against start-up surge forces. The KSITLER Series KDR rubber expansion joint can be made from different rubber materials depending on media and application. They are desiged to take up axial, lateral, angular and torsional movements along with vibrations in piping. KISTLER Engineers can solve anticipated problems of vibration, noise, shock, corrosion, abrasion, stresses and space by incorporating rubber expansion joints into designed piping systems. The steel flanges easily rotate on the bellows which makes it easier to line up the bolt holes during installation when mating flanges are out of line. With a temperature rating of -10°C to 80°C, the standard size range from 1.1/2" to 12" I.D. can be with the working pressure at 300 psi. and size 14" to 48" have working pressure at 150 psi.

MATERIALS

ITEM NO.	DESCRIPTION	MATERIAL		
1	Outer Cover, Inner Tube	Synthetic Rubber (NBR)		
2	Reinforcing Fabric	Synthetic Fiber		
3	Wire, Reinforcing Ring	Carbon Steel Wire		
4	Flange	Carbon Steel / Stainless Steel		

Fig. KDR

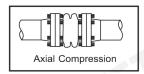


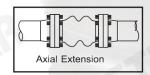


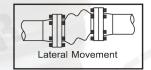
Model	KDR				
Size I.D.	1.1/2" - 12"	14" - 48"			
Working Pressure	300 psi	150 psi			
Burst Pressure	625 psi	342 psi			
Vacuum Rating	650 m	nm/Hg			
Temperature	-10°C to 80°C				

Installed with control rods to prevent internal pressure and motion by over limit usage and vacuum dropping. Control rods and reinforcing ring unit must be installed when pressure (test surge, operating, starting a pump, etc.) exceeds the rating.

Allowable Movements









WITH CONTROL RODS

TABLE OF MAIN PARAMETERS OF NORMAL CORE DIAMETER, LENGTH, DISPLACEMENT VALUE

Normal core diameter DN		Length (L)	Axial displacement		Lateral	Ammulan
(mm.)	(inch.)	(mm.)	Compression (mm.)	Extension (mm.)	(mm.)	Angular
40	1.1/2"	165	50	30	45	35°
50	2"	165	50	30	45	35°
65	2.1/2"	170	50	30	45	35°
80	3"	175	50	30	45	35°
100	4"	225	50	35	40	35°
125	5"	225	50	35	40	35°
150	6"	225	50	35	40	35°
200	8"	325	60	35	35	30°
250	10"	325	60	35	35	30°
300	12"	325	60	35	35	30°
350	14"	340	50	40	30	30°
400	16"	350	50	40	30	30°
450	18"	350	50	40	30	30°
500	20"	350	50	40	30	30°
600	24"	400	50	40	30	30°
700	28"	400	50	40	30	20°
800	32"	400	50	40	30	20°
900	36"	400	50	40	30	20°
1000	40"	400	50	40	30	20°
1200	48"	400	50	40	30	20°

NOTE: 1. Standard material is EPDM. The products are not applicable to oil. Other kinds of rubber material are optional.

- 2. Standard rated working pressure is 20 bars (up to 300 mm.) and 10 bars (for larger size than 300 mm.)
- 3. Applicable fluids: Air, Compressed air, water, sea water, hot water, weak acid, alkalis, etc.
- 4. Flange drilling: JIS, DIN, ANSI, BS and other standard drilling for your specification.
- 5. Tolerances for installation should not over 30% of Allowable movements.