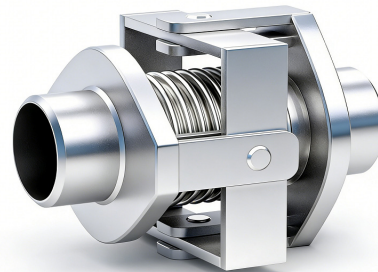


Stainless Steel Expansion Bellows (Universal Gimbal Type)

Product Features

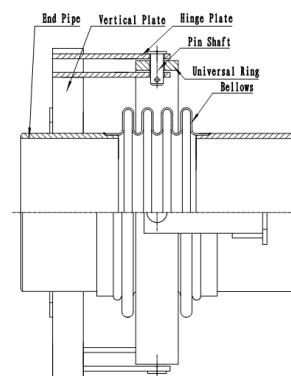
1. Absorbs angular rotation and low forces on the piping system
2. Withstand pressure, thrust load, and no main anchors required
3. Transmits shear loads and prevents torsion on bellows
4. Made of stainless steel 304/316, Inconel 600, Hastelloy X, and other materials of the bellows.
5. Available in both import and domestic models.



Description

Devel® Stainless Steel Expansion Bellows(Universal Gimbal Type) is designed to permit angular rotation in any plane by the use of two pairs of hinges affixed to a common floating gimbal ring.

Unlike the hinged type expansion joint, which can absorb angular rotation in a single plane only, the gimbal joint can absorb angular rotation in any plane. The ability of the gimbal expansion joint to absorb angular rotation in any plane is most often applied by using two gimbal joints, which act together to absorb movement. Gimbals, like hinges, are designed to transmit the pressure thrust and are used in pairs or in conjunction with a hinged joint. A gimbal ring is either round or square. For round gimbals, the torsional moment shall be considered, and for square gimbals, the instability due to the bending shall be considered.



Single Universal Hinge Expansion Joint

Product Structure Diagram

Nominal Diameter(DN)		Number of convolutions (n)	Install Length* Weld end (mm)	Install Length* Flange end (mm)	Max Outer Diameter O.D. (mm)	Angular Movement $\pm(^{\circ})$
mm	inch					
200	8	4	650	670	560	2.5
250	10	4	650	674	710	2.5
300	12	4	700	774	810	2.5
350	14	4	700	774	900	2.2
400	16	4	700	774	980	1.9
450	18	4	900	874	1150	1.7
500	20	4	900	874	1280	1.6
600	24	4	950	1024	1350	2.2
700	28	4	1000	1124	1400	2.2
800	32	4	1000	1124	1500	1.5
900	36	4	1100	1224	1730	1.8
1000	40	4	1100	1224	2000	1.6

Note: *Install length based on the Devel factory standard. Other lengths can be changed according to your requirement.