

10-FLEX

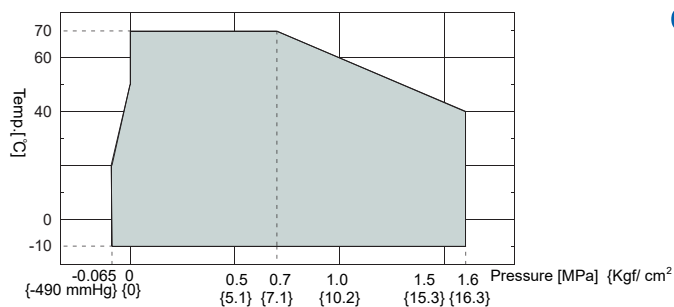
FLEXIBLE RUBBER JOINT



FEATURES

- Compact type becomes available with 1.6MPa specification.
- Durability : Reciprocating pressure test for 20,000 cycles or above.
- Good ability to isolate sound and vibration.
- Easy installation on pipes and no need packing.
- Ease water pulsation and hammer.

OPERATING CONDITIONS AND PERFORMANCE



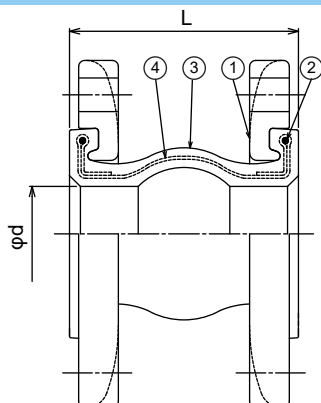
Operating Condition

- **Max. Working Pressure** : 1.6 Mpa
- **Working Temperature** : -10 to 70 °C.
* For high temp. application, please consult us. *
- **Bursting Pressure** : 3 times or more of W/P at at normal temp.

APPLICATIONS

This product is mainly applicable for piping systems in commercial and industrial building and plants
Applicable fluids are exclusively water including cold water, warm water, cooled water, sea water, etc.
This product can not be used for drinking water, pool water, oil or boiled water.

STRUCTURE



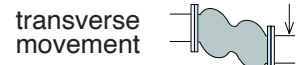
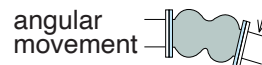
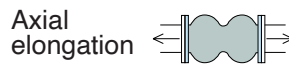
No.	Parts	Material
1	Flange	Mild Steel / Ductile Iron
2	Reinforcing Ring	Carbon Steel
3	Shell Rubber	Synthetic Rubber
4	Reinforcing Cord	Synthetic Fiber

- Flanges with mild steel and ductile iron in JIS10K, ANSI150, PN16 are standard. For other flanges, please consult us.
- Standard rubber shell material is Neoprene. EPDM and other rubber materials are available upon request.

DIMENSIONS AND ALLOWABLE MOVEMENTS

Nominal Dia.	Dimension [mm]		Mass [Kg]	Allowable Movement [mm]				Installation Tolerances [mm]			
	L	ød		TM	AE	AC	AM	TM	AE	AC	AM
40mm (1 1/2")	100	40	3.7	10	10	10	5°	4	3	3	2°
50mm (2")	100	50	4.7	10	10	10	5°	4	3	3	2°
65mm (2 1/2")	100	65	5.7	10	10	10	5°	4	3	3	2°
80mm (3")	100	75	7.0	10	10	10	5°	4	3	3	2°
100mm (4")	100	100	7.7	10	10	10	5°	4	3	3	2°
125mm (5")	120	125	10	10	10	10	5°	4	3	3	2°
150mm (6")	120	150	13	10	10	10	5°	4	3	3	2°
200mm (8")	120	200	18	10	10	10	5°	4	4	4	2°
250mm (10")	130	250	25	10	10	10	5°	4	4	4	2°
300mm (12")	130	300	34	10	10	10	5°	4	4	4	2°

* AC : Axial Compression, AE : Axial Elongation, AM : Angular Movement, TM : Transverse Movement



- Mass indicates only the case with PN16 (Mild Steel) flanges.
- Products should be used within the given allowable movements only.
- Tolerances for installation are included in the allowable movements
(Allowable movements = Tolerance for installation + Operating movements).
- Please note that the information in the above table is for single movement only. In case of complex movements, please do adjustment by using the following formula.

$$CAE(\text{or } CAC) = A.E(\text{or } A.C.) \times 1 - \left(\frac{T.M. - A.T.M.}{T.M.} \times \frac{A.M. - A.A.M.}{A.M.} \right)$$

CAE = Corrected Axial Elongation

CAC = Corrected Axial Compression

TM = Allowable Transverse Movement

AE = Allowable Axial Elongation

AC = Allowable Axial Compression

AM = Allowable Angular Movement

ATM = Actual Transverse Movement

AAM = Actual Angular Movement

* There is reaction force from rubber joints due to the load of the internal pressure, so during the installation, please fix the pipe tightly to ensure the joints work efficiently. in case the pipe cannot be fixed tightly, please use the control unit for the joints.

Note : The content of this catalog is subject to change without prior notice.