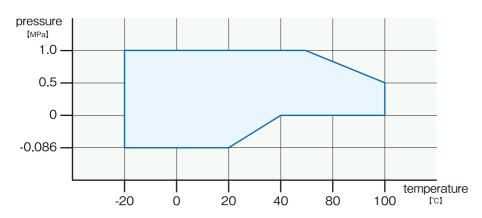
DL-FLEX Spherical flexible joint produced by coating the outer surface of fluoropolymer with synthetic rubber

DL-FLEX

Excellent heat and chemical resistance due to the use of fluoropolymer at fluid contact portion Other properties include water repellency, oil repellency, and non-stickiness.

Pressure / Temperature

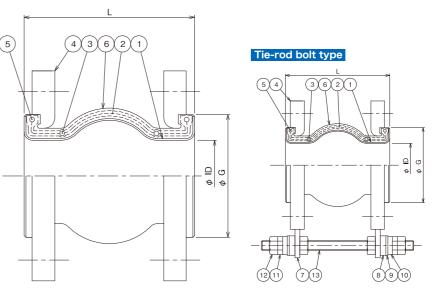


- Please make sure that the highest operating pressure and the highest operating temperature are with in the operating range before use.
- Max. operating pressure: 1.0MPa(Based on the graph of operating range above)
- Max. operating temperature: 100°C (Based on the graph of operating range above)
- Please contact us if gas is flowing through the pipe because the highest operating pressure becomes different.
- (1) This product cannot be used in areas with repeated and frequent pressure changes, such as the delivery side of pressurizing or pressure boosting water pumps.
- (2) The sealing performance may be lowered due to the characteristics of the material. Please re-tighten the seal or use a gasket in such cases.

Handling instructions

- This product generates reactive force due to the load of the inner pressure. Thus, fixing points or supports are required for installed pipes. (Please see p. 26-28.)
- Please see p. 26-28 for other cautions.

Structure



No	Name	Material					
1	Bellows	PTFE					
2	Reinforcing cord	Synthetic fiber					
3	Reinforcing ring	SWRH					
4	Flange	SS400, SUS304 etc.					
5	Reinforcing ring	SWRH					
6	Outer rubber	Synthetic rubber					
7	Tie-rod holder	SUS304 etc.					
8	Buffer	Urethane etc.					
9	Washer	SS400, SUS304 etc.					
10	Spherical seat	SS400, SUS304 etc.					
11	Spherical nut	SS400, SUS304 etc.					
12	Nut	SS400, SUS304 etc.					
13	Tie-rod bolt	SS400, SUS304 etc.					

- The standard product uses the JIS10K flange. Flanges with other specification, such as JIS5K, JIS20K, tap water, JPI, ANSI can also be used. Besides the standard products SS400 and SUS304, acceptable materials of the flange include SUS316, SUS316L, S25C, and PVC.
- Unichrome plating, hot-dip galvanized materials (Zn plating), and painted materials are acceptable for the SS400 flange.
- Please see "Handling precautions" for PVC flanges. (Please see p. 26-28.)
- Products with tie rod bolts can be produced. (Tie rod bolts for D-FLEX come with spherical washers, spherical nuts, and shockabsorbing materials as standard attachments.)

Size

NB	φID [mm]	φG [mm]	L [mm]	Tolerance of displacement			Dimensional tolerance for installation				
				expansion [mm]	contraction [mm]	eccentricity [mm]	angular rotation	expansion [mm]	contraction [mm]	eccentricity [mm]	angular rotation
15A	20	50	150	10	13	7	10°	2	2	2	2°
20A	25	57		10	13	7	10°	2	2	2	2°
25A	25	65		10	13	7	10°	2	2	2	2°
32A	36	73		10	13	10	10°	2	2	2	2°
40A	36	73		10	13	10	10°	2	2	2	2°
50A	48	87		13	16	10	10°	3	3	3	3°
65A	62	108		13	16	10	10°	3	3	3	3°
80A	72	118		13	16	10	10°	3	3	3	3°
100A	98	150		13	16	10	10°	3	3	3	3°
125A	124	174		13	16	10	10°	3	3	3	3°
150A	149	206		13	16	10	10°	3	3	3	3°

- Please make sure that deflections remain within permissible range during operation.
- Please note that the permissible deflection includes the size tolerance of installation. (Permissible deflection = tolerance of installation + Operating deflection)
- The deflections in the chart indicate independent deflections. Corrections are required when there are multiple deflections.
- Please see p. 26 for the method of correcting deflections.
- The ϕ G values in the chart indicate the standard sizes when a JIS10K flange is used.

80