



2 Bore code
B Without keyway

Bellows couplings with inch-inch bore

Dimensions in: inches - *millimeters*

1 d₁	3 d₂ - d₃ +0.001 Bore (in-in) Recommended shaft tolerance -0.001															
0.75 19	3/16-3/16	3/16-1/4	1/4-1/4	-	-	-	-	-	-	-	-	-	-	-	-	-
1.06 27	1/4-1/4	1/4-3/8	1/4-1/2	3/8-3/8	3/8-1/2	1/2-1/2	-	-	-	-	-	-	-	-	-	-
1.26 32	1/4-1/4	1/4-3/8	1/4-1/2	1/4-5/8	3/8-3/8	3/8-1/2	3/8-5/8	1/2-1/2	1/2-5/8	5/8-5/8	-	-	-	-	-	-
1.57 40	3/8-3/8	3/8-1/2	3/8-5/8	3/8-3/4	3/8-7/8	1/2-1/2	1/2-5/8	1/2-3/4	1/2-7/8	5/8-5/8	5/8-3/4	5/8-7/8	3/4-3/4	3/4-7/8	7/8-7/8	-

Bellows couplings with metric-metric bore

Dimensions in: millimeters - *inches*

1 d₁	3 d₂ - d₃ H8 Bore (mm-mm) Recommended shaft tolerance h7															
19 0.75	5-5	5-6	5-8	6-6	6-8	8-8	-	-	-	-	-	-	-	-	-	-
27 1.06	6-6	6-8	6-10	8-8	8-10	10-10	-	-	-	-	-	-	-	-	-	-
32 1.26	10-10	10-12	10-14	12-12	12-14	14-14	-	-	-	-	-	-	-	-	-	-
40 1.57	12-12	12-15	12-19	15-15	15-19	19-19	-	-	-	-	-	-	-	-	-	-

Bellows couplings with metric-inch bore

Dimensions in: millimeters - *inches*

1 d₁	3 d₂ - d₃ H8 Bore (mm-in) Recommended shaft tolerance h7															
19 0.75	5-3/16	5-1/4	6-3/16	6-1/4	8-3/16	8-1/4	-	-	-	-	-	-	-	-	-	-
27 1.06	6-1/4	6-3/8	6-1/2	8-1/4	8-3/8	8-1/2	10-1/4	10-3/8	10-1/2	-	-	-	-	-	-	-
32 1.26	10-1/4	10-3/8	10-1/2	10-5/8	12-1/4	12-3/8	12-1/2	12-5/8	14-1/4	14-3/8	14-1/2	14-5/8	-	-	-	-
40 1.57	12-3/8	12-1/2	12-5/8	12-3/4	12-7/8	15-3/8	15-1/2	15-5/8	15-3/4	15-7/8	19-3/8	19-1/2	19-5/8	19-3/4	19-7/8	-

Dimensions in: millimeters - inches

d ₁	d ₄ Thread	l ₁	l ₂ Recommended shaft insertion depth	l ₃	l ₄	Tightening torque of the screw in Nm ≈
19 0.75	M 2	30 1.18	10.5 0.41	3 0.12	6.8 0.27	0.5
27 1.06	M 2.5	35 1.38	12.5 0.49	3.5 0.14	10.3 0.41	0.9
32 1.26	M 3	46 1.81	15.5 0.61	4.3 0.17	12 0.47	1.5
40 1.57	M 4	51 2.01	16 0.63	5 0.20	15 0.59	3.5

d ₁	Rated torque in Nm	Max. speed (min ⁻¹)	Moment of inertia in kgm ²	Static torsional stiffness in Nm/rad	Max. shaft misalignment		
					Lateral	Axial	Angular in °
19 0.75	1.5	33,000	8.6 x 10 ⁻⁷	170	0.15 0.006	± 0.5 ±0.020	1.5
27 1.06	2.3	23,000	3.6 x 10 ⁻⁶	800	0.15 0.006	± 0.5 ±0.020	1.5
32 1.26	4.5	19,000	1.1 x 10 ⁻⁵	1600	0.2 0.008	± 0.7 ±0.028	1.5
40 1.57	10	15,000	2.8 x 10 ⁻⁵	2700	0.2 0.008	± 1 ±0.039	1.5

Specification



- Hub
Aluminum **AL**
Anodized finish, natural color
- Bellows
Stainless steel **NI**
AISI 304
- Socket cap screws DIN 912
Steel, blackened finish
- Crimp ring
Brass
- Temperature resistant up to 248 °F (120 °C)
- ISO Fundamental Tolerances → page QVX
- Stainless Steel Characteristics → page QVX
- RoHS compliant

On request

- Bore with keyway

Information

Bellows couplings GN 2244 transmit angle positions and torques with extreme precision and zero backlash. The metal bellows also reliably compensates for shaft misalignments and runout tolerances. The clamping hubs make bellows couplings very easy to install.

They are used in applications where precise position and movement transmission is required, such as in the servo drive systems of machine tools and in industrial robots.

see also...

- *Elastomer Jaw Couplings GN 2240 (with Clamping Hub)* → page QVX
- *Beam Couplings GN 2246* → page QVX
- *Installation Information on Couplings* → page XYZ
- *Technical Information on Couplings* → page XYZ

How to order	
1	Outside diameter d ₁
2	Bore code
3	Bore d ₂ -d ₃
4	Material (Hub)
5	Material (Bellows)

1 2 3 4 5
GN 2244 - 19 - B3/16 - 1/4 - AL - NI

3.1
3.2
3.3
3.4
3.5
3.6
3.7
3.8
3.9
3.10

