

GN 2246

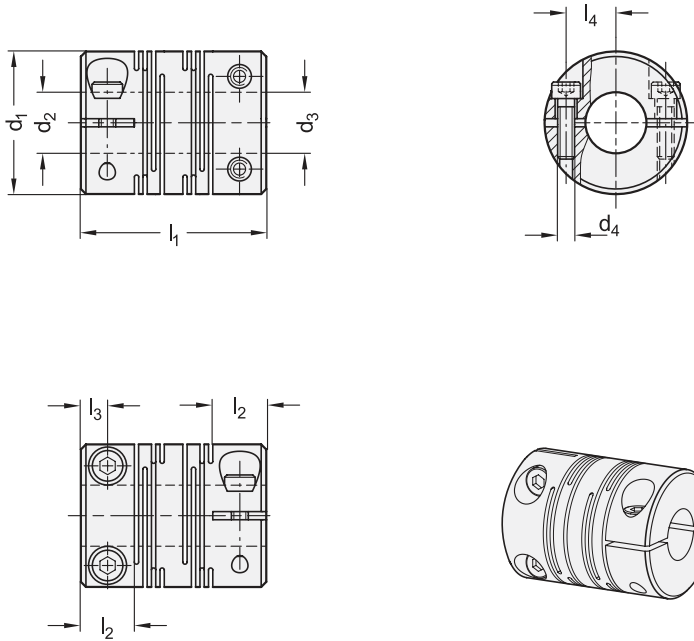
Aluminum / Stainless Steel

Beam Couplings

with Clamping Hub



JWWINCO
A Ganter Company



SS Stainless Steel

2 Bore code

B Without keyway

Bellows couplings with metric-metric bore

Dimensions in: millimeters - inches

| 1 d_1 | 3 $d_2 - d_3$ H8 Bore (mm-mm) Recommended shaft tolerance h7 | | | | | |
|-------------------|--|-------|-------|-----|------|-------|
| 12 0.47 | 4-4 | 4-5 | 5-5 | - | - | - |
| 16 0.63 | 5-5 | 5-6 | 6-6 | - | - | - |
| 20 0.79 | 5-5 | 5-6 | 5-8 | 6-6 | 6-8 | 8-8 |
| 25 0.98 | 6-6 | 6-8 | 6-10 | 8-8 | 8-10 | 10-10 |
| 32 1.26 | 10-10 | 10-12 | 12-12 | - | - | - |

Bellows couplings with metric-inch bore

Dimensions in: millimeters - inches

| 1 d_1 | 3 $d_2 - d_3$ H8 Bore (mm-in) Recommended shaft tolerance h7 | | | | | |
|-------------------|--|--------|-------|--------|--------|---|
| 20 0.79 | 5-1/4 | 6-1/4 | 8-1/4 | - | - | - |
| 25 0.98 | 6-1/4 | 8-1/4 | 8-3/8 | 10-1/4 | 10-3/8 | - |
| 32 1.26 | 10-3/8 | 12-3/8 | - | - | - | - |

| d_1 | d_4 Thread | l_1 | l_2 Recommended shaft insertion depth | l_3 | l_4 | Tightening torque of the screw in Nm \approx |
|------------|-----------------|--------------|---|--------------|-------------|--|
| 12 0.47 | M 2 | 18.5 0.73 | 5 0.20 | 2.5 0.10 | 4 0.16 | 0.5 |
| 16 0.63 | M 2.5 | 23 0.91 | 6.5 0.26 | 3.25 0.13 | 5 0.20 | 1 |
| 20 0.79 | M 2.5 | 26 1.02 | 7.5 0.30 | 3.75 0.15 | 6.5 0.26 | 1 |
| 25 0.98 | M 3 | 31 1.22 | 8.5 0.33 | 4.25 0.17 | 9 0.35 | 1.5 |
| 32 1.26 | M 4 | 41 1.61 | 12 0.47 | 6 0.24 | 11 0.43 | 2.5 |

Dimensions in: millimeters - inches

| Aluminum 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 ° |
| 12 0.47 | 0.4 | 52,000 | 7.8 x 10 ⁻⁸ | 45 | 0.1 0.004 | ± 0.3 ±0.012 | 2 |
| 16 0.63 | 0.5 | 39,000 | 3.4 x 10 ⁻⁷ | 80 | 0.1 0.004 | ± 0.4 ±0.016 | 2 |
| 20 0.79 | 1 | 31,000 | 9.1 x 10 ⁻⁷ | 170 | 0.1 0.004 | ± 0.4 ±0.016 | 2 |
| 25 0.98 | 2 | 25,000 | 2.6 x 10 ⁻⁶ | 380 | 0.15 0.006 | ± 0.5 ±0.020 | 2 |
| 32 1.26 | 4 | 19,000 | 9.7 x 10 ⁻⁶ | 500 | 0.15 0.006 | ± 0.5 ±0.020 | 2 |

| Stainless Steel 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 ° |
| 12 0.47 | 0.3 | 52,000 | 2.2 x 10 ⁻⁷ | 64 | 0.1 0.004 | ± 0.2 ±0.079 | 2 |
| 16 0.63 | 0.5 | 39,000 | 9.0 x 10 ⁻⁷ | 85 | 0.1 0.004 | ± 0.3 ±0.012 | 2 |
| 20 0.79 | 1 | 31,000 | 2.5 x 10 ⁻⁶ | 250 | 0.1 0.004 | ± 0.3 ±0.012 | 2 |
| 25 0.98 | 2 | 25,000 | 7.1 x 10 ⁻⁶ | 330 | 0.15 0.006 | ± 0.4 ±0.016 | 2 |
| 32 1.26 | 3.5 | 19,000 | 2.7 x 10 ⁻⁵ | 850 | 0.15 0.006 | ± 0.5 ±0.020 | 2 |

Specification

- Aluminum **AL**
 - Anodized finish, natural color
 - Temperature resistant up to 302 °F (150 °C)
 - Socket cap screws DIN 912 Steel, blackened finish
- Stainless steel AISI 303 **NI**
 - Temperature resistant up to 392 °F (200 °C)
 - Socket cap screws DIN 912 Stainless steel AISI 304Cu
- ISO Fundamental Tolerances → page QVX
- Stainless Steel Characteristics → page QVX
- RoHS compliant

On request

- Inch bores
- Bore with keyway

Information

Beam couplings GN 2246 transmit angle positions and torques with extreme precision and no backlash. They are manufactured of a single piece and offer high torsional stiffness thanks to the alternating slits. The clamping hubs make beam couplings very easy to assemble.

They are used in applications where precise position and movement transmission is required, such as in the drive systems of position measuring systems and in test benches.

The Stainless Steel version can also be used in environments requiring high corrosion resistance, such as in medical technology (CAT scanners) and food-processing equipment (confectionary machines).

see also...

- Bellows Couplings GN 2244 → page QVX
- Elastomer Jaw Couplings GN 2240 (with Clamping Hub) → 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 |
| | 5 | Material |

GN 2246 - 32 - B10 - 3/8 - NI

3.1
3.2
3.3
3.4
3.5
3.6
3.7
3.8
3.9
3.10

