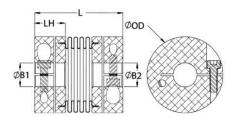




BC26-12-12-A

Ruland BC26-12-12-A, 3/4" x 3/4" Bellows Coupling, Aluminum, Clamp Style, 1.625" OD, 2.035" Length





Description

Ruland BC26-12-12-A is a clamp bellows coupling with 0.7500" x 0.7500" bores, 1.625" OD, and 2.035" length. It is zero-backlash and has a balanced design for reduced vibration at high speeds. BC26-12-12-A is comprised of two anodized aluminum hubs and a stainless steel bellows. The bellows are able to flex while remaining rigid under torsional loads allowing for all types of misalignment to be accommodated. This bellows coupling is lightweight and has low inertia making it suitable for applications with speeds up to 10,000 RPM. Hardware is metric and tests beyond DIN 912 12.9 standards for maximum torque capabilities. Ruland BC26-12-12-A has four convolutions allowing for high torsional rigidity and making it an excellent fit for precise positioning stepper servo applications as well as encoders. It is machined from solid bar stock that is sourced exclusively from North American mills and RoHS3 and REACH compliant. BC26-12-12-A is carefully manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

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Product Specifications					
Bore (B1)	0.7500 in	Small Bore (B2)	0.7500 in		
B1 Max Shaft Penetration	0.946 in	B2 Max Shaft Penetration	0.946 in		
Outer Diameter (OD)	1.625 in	Bore Tolerance	+0.001 in / -0.000 in		
Length (L)	2.035 in	Length Tolerance	+/- 0.030 in		
Hub Width (LH)	0.710 in	Recommended Shaft Tolerance	+0.0000 in / -0.0005 in		
Forged Clamp Screw	M4	Screw Material	Alloy Steel		
Hex Wrench Size	3.0 mm	Screw Finish	Black Oxide		
Seating Torque	4.6 Nm	Number of Screws	2 ea		
Dynamic Torque Reversing	62.5 lb-in	Angular Misalignment	2.0°		
Dynamic Torque Non-Reversing	125 lb-in	Parallel Misalignment	0.010 in		
Static Torque	250 lb-in	Axial Motion	0.020 in		
Torsional Stiffness	550 lb-in/Deg	Moment of Inertia	0.102152 lb-in ²		
Maximum Speed	10,000 RPM	Full Bearing Support Required?	Yes		
Zero-Backlash?	Yes	Balanced Design	Yes		
Torque Wrench	TW:BT-1R-1/4-41.0	Recommended Hex Key	Metric Hex Keys		
Material Specification	Hubs: 2024-T351 Aluminum Bar Bellows: Type 321 Stainless Steel	Temperature	-40°F to 200°F (-40°C to 93°C)		
Finish Specification	Sulfuric Anodized MIL-A-8625 Type II, Class 2 and ASTM B580 Type B Black Anodize	Bellows Attachment Method	Ероху		
Manufacturer	Ruland Manufacturing	Country of Origin	USA		
Weight (lbs)	0.258300	UPC	634529062852		
Tariff Code	8483.60.8000	UNSPC	31163018		
Note 1	Stainless steel hubs are available upon request.				
Note 2	Torque ratings are at maximum misalignment.				
Note 3	Performance ratings are for guidance only. The user must determine suitability for a particular application.				
Note 4	Torque ratings for the couplings are based on the physical limitations/failure point of the metal bellows. Under normal/typical conditions the hubs are capable of holding up to the rated torque of the metal bellows. In some cases, especially when the smallest standard bores are used or where shafts are undersized, slippage on the shaft is possible below the rated torque of the metal bellows. Keyways are available to provide additional torque capacity in the shaft/hub connection when required. Please consult technical support for more				

assistance.

Prop 65

▲ WARNING This product can expose you to chemicals including Ethylene Thiourea and Nickel (metallic), known to the State of California to cause cancer, and Bisphenol A and Ethylene Thiourea, known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Installation Instructions

- 1. Align the bores of the BC26-12-12-A bellows coupling on the shafts that are to be joined and determine if the misalignment parameters are within the limits of the coupling. (*Angular Misialignment:* 2.0°, *Parallel Misalignment:* 0.010 in, *Axial Motion:* 0.020 in)
- 2. Fully tighten the M4 screw on the first hub to the recommended seating torque of 4.6 Nm using a 3.0 mm hex torque wrench.
- 3. Before tightening the screw on the second hub, rotate the coupling by hand to allow it to reach its free length.
- Tighten the screw on the second hub to the recommended seating torque. Make sure the coupling remains axially relaxed and the misalignment angle remains centered along the length of the coupling.
- 5. The shafts may extend into the relieved portion of the bore as long as it does not exceed the shaft penetration length of 0.946 in.