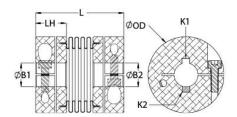




BCK26-12-6-A

Ruland BCK26-12-6-A, 3/4" x 3/8" Bellows Coupling, Aluminum, Clamp Style With Keyway, 1.625" OD, 2.035" Length





Description

Ruland BCK26-12-6-A is a clamp bellows coupling with 0.7500" x 0.3750" bores, 1.625" OD, 2.035" length and 3/16" x 3/32" keyways. It is zero-backlash and has a balanced design for reduced vibration at high speeds. BCK26-12-6-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 BCK26-12-6-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. BCK26-12-6-A is carefully manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

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Bore (B1)	0.7500 in	Small Bore (B2)	0.3750 in			
Keyway (K1)	3/16 in	Keyway (K2)	3/32 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	0.1043 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		Ероху			
Manufacturer	Ruland Manufacturing	Country of Origin	USA			
Weight (lbs)	0.278600	UPC	634529165669			
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. 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					

Installation Instructions

- 1. Align the bores of the BCK26-12-6-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.
- 4. 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.