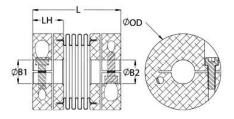




## BC26-3/4"-15MM-A

Ruland BC26-3/4"-15MM-A, 3/4" x 15mm Bellows Coupling, Aluminum, Clamp Style, 1.625" (41.3mm) OD, 2.035" (51.7mm) Length





## Description

Ruland BC26-3/4"-15MM-A is a clamp bellows coupling with 0.7500" x 15mm bores, 1.625" (41.3mm) OD, and 2.035" (51.7mm) length. It is zerobacklash and has a balanced design for reduced vibration at high speeds. BC26-3/4"-15MM-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 BC26-3/4"-15MM-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. BC26-3/4"-15MM-A is carefully manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

## **Product Specifications**

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Bore (B1)	0.7500 in	Small Bore (B2)	15 mm
B1 Max Shaft Penetration	0.946 in (24.0 mm)	B2 Max Shaft Penetration	0.946 in (24.0 mm)
Outer Diameter (OD)	1.625 in (41.3 mm)	Bore Tolerance	+0.001 in / -0.000 in (+0.03 mm /
			-0.00 mm)
Length (L)	2.035 in (51.7 mm)	Length Tolerance	+/- 0.030 in (0.76 mm)
Hub Width (LH)	0.710 in (18.05 mm)	Recommended Shaft Tolerance	+0.0000 / -0.0005 " (+0.000 / -0.013 mm)
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 (7.00 Nm)	Angular Misalignment	2.0°
Dynamic Torque Non-Reversing	125 lb-in (14.00 Nm)	Parallel Misalignment	0.010 in (0.25 mm)
Static Torque	250 lb-in (28.0 Nm)	Axial Motion	0.020 in (0.51 mm)
Torsional Stiffness	550 lb-in/Deg (63 Nm/Deg)	Moment of Inertia	0.103451 lb-in <sup>2</sup> , 30.274 x10 <sup>-6</sup> kg-m <sup>2</sup>
Maximum Speed	10,000 RPM	Full Bearing Support Required?	Yes
Zero-Backlash?	Yes	Balanced Design	Yes
Torque Wrench	<u>TW:BT-1R-1/4-41.0</u>	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 (Ibs)	0.269800	UPC	634529129272
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	normal/typical conditions the hubs a cases, especially when the smallest	are capable of holding up to the rated	ilure point of the metal bellows. Unde d torque of the metal bellows. In some shafts are undersized, slippage on the are available to provide additional

	torque capacity in the shaft/hub connection when required. Please consult technical support for more assistance.		
Prop 65	<b>WARNING</b> 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 <a href="https://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> .		
Installation Instructions			
	<ol> <li>Align the bores of the BC26-3/4"-15MM-A bellows coupling on the shafts that are to be joined and determine if the misalignment parameters are within the limits of the coupling. (<i>Angular Misialignment:</i> 2.0°, <i>Parallel Misalignment:</i> 0.010 in (0.25 mm), <i>Axial Motion:</i> 0.020 in (0.50 mm))</li> <li>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.</li> <li>Before tightening the screw on the second hub, rotate the coupling by hand to allow it to reach its free length.</li> <li>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.</li> <li>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 (24.0 mm).</li> </ol>		