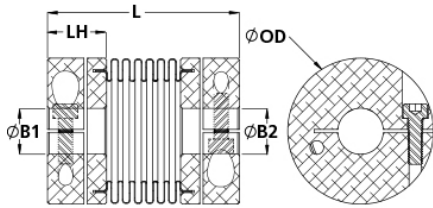




MBCL41-15-15-A

Ruland MBCL41-15-15-A, 15mm x 15mm Bellows Coupling, Increased Misalignment, Aluminum, 41.3mm, OD 58.8 mm length



Description

Ruland MBCL41-15-15-A is a bellows coupling with increased misalignment with 15mm x 15mm bores, 41.3mm OD, and 58.8 mm length. It has more convolutions than comparably sized high stiffness styles allowing for increased misalignment for high-performance applications where shaft misalignment is harder to control. MBCL41-15-15-A is comprised of two anodized aluminum hubs and a stainless steel bellows for lightweight and low inertia. It is also engineered with a balanced design for reduced vibration at high speeds up to 10,000 RPM. The thin walls of the bellows are able to flex while remaining rigid under torsional loads allowing for the accommodation of all forms of misalignment. Hardware is metric and tests beyond DIN 912 12.9 standards for maximum torque capabilities. MBCL41-15-15-A is machined from meticulously selected bar stock that is sourced exclusively from North American mills. It is carefully made in our ISO 9001:2015 advanced manufacturing facility in Marlborough, MA under strict controls using proprietary processes. MBCL41-15-15-A is RoHS3, REACH, and Conflict Minerals compliant.

Product Specifications

Bore (B1)	15 mm	Small Bore (B2)	15 mm
B1 Max Shaft Penetration	24.0 mm	B2 Max Shaft Penetration	24.0 mm
Outer Diameter (OD)	1.625 in (41.3 mm)	Bore Tolerance	+0.03 mm / -0.00 mm
Length (L)	2.316 in (58.8 mm)	Length Tolerance	+/- 0.76 mm
Hub Width (LH)	18.05 mm	Recommended Shaft Tolerance	+0.000 mm / -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	7.00 Nm	Angular Misalignment	3.0°
Dynamic Torque Non-Reversing	14.00 Nm	Parallel Misalignment	0.38 mm
Static Torque	28.0 Nm	Axial Motion	0.76 mm
Torsional Stiffness	39.4 Nm/Deg	Moment of Inertia	0.000x10 ⁻⁵ kg-m ²
Maximum Speed	10,000 RPM	Full Bearing Support Required?	Yes
Average Load at Max Parallel Offset	36.55 N	Average Slope	134.8 N/mm
Zero-Backlash?	Yes	Balanced Design	Yes
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	Epoxy
Manufacturer	Ruland Manufacturing	Country of Origin	USA
Weight (lbs)	0.293446	UPC	63452941802
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.
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