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|----------------------------|--------------------------------------------------|-------------------------------|------------------------------------------------|
| O.D. (D):                  | 3.125 in (79.4 mm)                               | Dynamic Torque Non-Reversing: | 675 lb-in (76 Nm)                              |
| Brand:                     | Ruland                                           | Bore Tolerance:               | +0.001 in / -0.000 in<br>(+0.03 mm / -0.00 mm) |
| Torsional Stiffness:       | 3500 lb-in/Deg(395.5 Nm/Deg)                     | B2 Max Shaft Penetration:     | 1.750 in (44.5 mm)                             |
| Shaft Tolerance:           | +0.0000 in / -0.0005 in<br>+0.000 mm / -0.013 mm | Material:                     | Aluminum                                       |
| Zero-Backlash?:            | Yes                                              | Bore (B1):                    | 42 mm                                          |
| Balanced Design:           | Yes                                              | Bore (B2):                    | 1.6250 in                                      |
| UNSPC:                     | 31163018                                         | Keyway:                       | Yes                                            |
| Cap Screw:                 | M8                                               | Keyway (K1):                  | 12 mm                                          |
| Static Torque:             | 1350 lb-in (152 Nm)                              | Keyway (K2):                  | 3/8 in                                         |
| Dynamic Torque Reversing:  | 337.5 lb-in (38 Nm)                              | B1 Max Shaft Penetration:     | 1.750 in (44.5 mm)                             |
| Hex Wrench Size:           | 6.0 mm                                           | Seating Torque:               | 39 Nm                                          |
| Maximum Speed:             | 10000 RPM                                        | Screw Material:               | Alloy Steel                                    |
| Angular Misalignment:      | 2.0 deg                                          | Length (L):                   | 3.808 in (96.7 mm)                             |
| Parallel Misalignment:     | 0.012 in (0.30 mm)                               | Screw Finish:                 | Black Oxide                                    |
| Axial Motion:              | 0.030 in (0.76 mm)                               | ISO 9001:2015:                | Certified                                      |
| Bellows Attachment Method: | Epoxy                                            | REACH:                        | Compliant                                      |
| Length Tolerance:          | +/- 0.030 in (0.76 mm)                           | RoHS3:                        | Compliant                                      |
| Recommended Hex Key:       | Metric Hex Keys                                  | Conflict Minerals:            | Compliant                                      |
| B1 Min Shaft Penetration:  | 0.875 in (22.2 mm)                               | Tariff Code:                  | 8483.60.8000                                   |
| Temperature:               | -40°F to 200°F (-40°C to 93°C)                   | Number of Screws:             | 2                                              |
| Product Group:             | Bellows Coupling Standard Length                 | B2 Min Shaft Penetration:     | 0.875 in (22.2 mm)                             |

|           |                                  |
|-----------|----------------------------------|
| COMPONENT | Bellows Coupling Standard Length |
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**BCK50-42MM-1 5/8"-A**  
**Ruland**  
42mm X 1 5/8" Bores, 3.125" (79.4 Mm), Od,  
3.816" (96.9 Mm) Length, Bellows Coupling  
With Keyways, High Stiffness, Aluminum

|             |
|-------------|
| UNIT        |
| Inch/Metric |
| SHEET       |