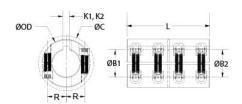




SPC-31-31-F

Ruland SPC-31-31-F, 1-15/16" x 1-15/16" Rigid Coupling, Black Oxide Steel, Two-Piece Clamp Style With Keyway, 3 3/8" OD, 4 7/8" Length





Description

Ruland SPC-31-31-F is a two-piece rigid coupling with 1.9375" x 1.9375" bores, 3 3/8" OD, 4 7/8" length, and 1/2" x 1/2" keyways. It has precision honed bores to ensure they are collinear and do not introduce misalignment or vibration into the system making it suitable for high precision servo appliactions as well as shaft to shaft connections. SPC-31-31-F has opposing hardware for a balanced design. Proprietary Nypatch® anti-vibration coating on hardware allows for even seating of the screw, repeated screw installations, prevents galling, and maintains high holding power. It eliminates the need to treat screws upon receipt greatly reducing installation time. Forged screws test beyond ANSI standards to ensure maximum holding power. Tightly controlled bore tolerance of +.002"/+.0005" is maintained. SPC-31-31-F is made from 1215 lead-free steel with a proprietary black oxide finish that produces a fine glossy finish while increasing holding power and resisting corrosion. It is machined from solid bar stock that is sourced exclusively from North American mills and is RoHS3 and REACH compliant. SPC-31-31-F is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

Ruland Manufacturing 7.593100 8483.60.8000 Performance ratings are for guidance	Country of Origin UPC UNSPC te only. The user must determine sures you to the chemical Ethylene The	Impregnated with Naphthenic Oil, Centrifugally Dried USA 634529022979 31163009 itability for a particular application.
7.593100 8483.60.8000	UPC UNSPC	Impregnated with Naphthenic Oil, Centrifugally Dried USA 634529022979 31163009
		Impregnated with Naphthenic Oil, Centrifugally Dried USA
Ruland Manufacturing	Country of Origin	Impregnated with Naphthenic Oil, Centrifugally Dried
		Impregnated with Naphthenic Oil,
-40°F to 350°F (-40°C to 176°C)	Finish Specification	Hot Process Black Oxide,
Yes	Material Specification	1215 Carbon Steel Bar
Yes	Zero-Backlash?	Yes
No	Nypatch® Anti-Vibration Hardware?	Yes
15.1006 lb-in ²	Maximum Speed	4,000 RPM
8 ea	Rated Torque	Rating Coming Soon
570 lb-in	Screw Location (R)	1.391 in
5/16 in	Screw Finish	Black Oxide
3/8-24	Screw Material	Alloy Steel with Nypatch®
0.094 in	Recommended Shaft Tolerance	+0.0000 in / -0.0005 in
4 7/8 in	Clearance Diameter (C) MAX	3.657 in
3 3/8 in	Bore Tolerance	+0.0020 in / +0.0005 in
2.437 in	B2 Max Shaft Penetration	2.437 in
1/2 in	` '	1/2 in
	2.437 in 3 3/8 in 4 7/8 in 0.094 in 3/8-24 5/16 in 570 lb-in 8 ea 15.1006 lb-in ² No Yes	1/2 in Keyway (K2) 2.437 in B2 Max Shaft Penetration 3 3/8 in Bore Tolerance 4 7/8 in Clearance Diameter (C) MAX 0.094 in Recommended Shaft Tolerance 3/8-24 Screw Material 5/16 in Screw Finish 570 lb-in Screw Location (R) 8 ea Rated Torque 15.1006 lb-in² Maximum Speed No Nypatch® Anti-Vibration Hardware? Yes Zero-Backlash? Yes Material Specification

Installation Instructions

- 1. Align the SPC-31-31-F two-piece rigid coupling on the two shafts to be connected. There should be no misalignment.
- 2. Tighten the Nypatch® screws in two stages, starting with the inside screws. Using a 5/16 in torque wrench, tighten the inside screws to 285 lb-in which is half the recommended seating torque. Repeat

the process for the outside screws, tightening to half the recommended seating torque.

- 3. Be sure to maintain the gap of 0.094 in between the two halves during installation.
- 4. Tighten the screws to the full recommended seating torque of 570 lb-in following the same pattern, starting with the inside screws first.
- 5. For optimum results do not exceed the shaft penetration length of 2.437 in.