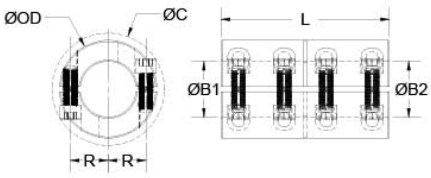
SPX-28-28-F

Ruland SPX-28-28-F, 1-3/4" x 1-3/4" Rigid Coupling, Black Oxide Steel, Two-Piece Clamp Style, 3 1/8" OD, 4 1/2" Length





Description

Ruland SPX-28-28-F is a two-piece rigid coupling with 1.7500" x 1.7500" bores, 3 1/8" OD, and 4 1/2" length. 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. SPX-28-28-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. SPX-28-28-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. SPX-28-28-F is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

Bore (B1)	1.7500 in	**Small Bore (B2)**	1.7500 in
B1 Max Shaft Penetration	2.250 in	**B2 Max Shaft Penetration**	2.250 in
Outer Diameter (OD)	3 1/8 in	**Bore Tolerance**	+0.0020 in / +0.0005 in
Length (L)	4 1/2 in	**Clearance Diameter (C) MAX**	3.365 in
Recommended Gap	0.094 in	**Recommended Shaft Tolerance**	+0.0000 in / -0.0005 in
Forged Clamp Screw	3/8-24	**Screw Material**	Alloy Steel with Nypatch®
Hex Wrench Size	5/16 in	**Screw Finish**	Black Oxide
Seating Torque	570 lb-in	**Screw Location (R)**	1.305 in
Number of Screws	8 ea	**Rated Torque**	18500 in-lb
Moment of Inertia	9.9493 lb-in^2	**Maximum Speed**	4,000 RPM
Full Bearing Support Required?	No	**Nypatch® Anti-Vibration Hardware?**	Yes
Precision Honed Bores?	Yes	**Zero-Backlash?**	Yes
Balanced Design	Yes	**Material Specification**	1215 Carbon Steel Bar
Temperature	-40°F to 350°F (-40°C to 176°C)	**Finish Specification**	Hot Process Black Oxide, Impregnated with Naphthenic Oil, Centrifugally Dried
Manufacturer	Ruland Manufacturing	**Country of Origin**	USA
Weight (lbs)	6.231700	**UPC**	634529026311
Tariff Code	8483.60.8000	**UNSPC**	31163009
Note 1	Performance ratings are for guidance only. The user must determine suitability for a particular application.		
Prop 65	⚠**WARNING** This product can expose you to the chemical Ethylene Thiourea, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.		

Installation Instructions

1. Align the SPX-28-28-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 2.250 in.