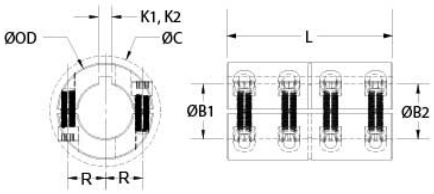
SPC-20-18-F

Ruland SPC-20-18-F, 1-1/4" x 1-1/8" Rigid Coupling, Black Oxide Steel, Two-Piece Clamp Style With Keyway, 2 1/16" OD, 3 1/4" Length





Description

Ruland SPC-20-18-F is a two-piece rigid coupling with 1.2500" x 1.1250" bores, 2 1/16" OD, 3 1/4" length, and 1/4" x 1/4" keyways. SPC-20-18-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-20-18-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-20-18-F is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

Bore (B1)	1.2500 in	**Small Bore (B2)**	1.1250 in
Keyway (K1)	1/4 in	**Keyway (K2)**	1/4 in
B1 Max Shaft Penetration	1.625 in	**B2 Max Shaft Penetration**	1.625 in
Outer Diameter (OD)	2 1/16 in	**Bore Tolerance**	+0.0020 in / +0.0005 in
Length (L)	3 1/4 in	**Clearance Diameter (C) MAX**	2.286 in
Recommended Gap	0.094 in	**Recommended Shaft Tolerance**	+0.0000 in / -0.0005 in
Forged Clamp Screw	1/4-28	**Screw Material**	Alloy Steel with Nypatch®
Hex Wrench Size	3/16 in	**Screw Finish**	Black Oxide
Seating Torque	170 lb-in	**Screw Location (R)**	0.807 in
Number of Screws	8 ea	**Rated Torque**	5000 in-lb
Moment of Inertia	1.3254 lb-in^2	**Maximum Speed**	4,000 RPM
Full Bearing Support Required?	No	**Nypatch® Anti-Vibration Hardware?**	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)**	1.863800
UPC	634529022665	**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 SPC-20-18-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 3/16 in torque wrench, tighten the inside screws to 85 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 170 lb-in following the same pattern, starting with the inside screws first.
5. For optimum results do not exceed the shaft penetration length of 1.625 in.