Pedestal Mount, Cast Iron & Stainless Steel

Series 9203C and 9203S



Upgrade Options:

- Increase dry-run and abrasive resistance with Life Guard Seals
  - Life Guard seals are the OEM standard
- Extend pump life with Stainess Steel
  - Fact: Chemical corrosion, pump cavitation, and abrasive wear are key factors in pump life
  - 316 Stainless Steel pumps provide superior chemical corrosion resistance, while maintaining material strength to prolong the life against abrasive wear
  - 316 Stainless Steel resists cavitation pitting of pumps, extending the wear life
  - Drop in replacements for cast iron pumps

Features

- Available in cast iron and 316 stainless steel for extended pump life
- Pedestal mount, direct drive
- Port sizes: 1-1/2" NPT inlet, 1-1/4" NPT outlet
- 220 x 200 Universal flange available (U)
- Max. fluid temperature: 140°F/60°C
- Impeller: Nylon (cast iron standard); polypropylene (stainless standard); GTX available
- Pump shaft rotation: Counter clockwise when looking at the shaft end; 9203C-R is clockwise
- Pump seals: Cast Iron models – Viton/ceramic standard; Life Guard silicon carbide (B) available; Stainless Steel models – Life Guard silicon carbide standard
- Life Guard seals are the industry standard on OEM equipment
- Stainless steel models now available with universal flanges
- Weight: 19 lbs./8.6 kg

For Flanged Connections You Will Also Need:

☐ Universal Flange Gasket ☐ Universal Flange Clamp

See page 214 for details

Order Information

Model Number	Max GPM	Max LPM	Max PSI	Max PSI (BAR)	Max RPM	Shaft Output
9203C †	140	530	170	11.7	6000	5/8" (15.9 mm) solid shaft
9203C-R (CW)	140	530	170	11.7	6000	5/8" (15.9 mm) solid shaft
9203S †	140	530	170	11.7	6000	5/8" (15.9 mm) stainless steel shaft
9203S-R (CW)	140	530	170	11.7	6000	5/8" (15.9 mm) stainless steel shaft
3430-0332	Seal and o-ring repair kit					
3430-0589	Life Guard silicon carbide seal kit					

† Universal Flange (220 x 200) - Add Suffix "U" (i.e.: 9203C-U
Life Guard silicon carbide seal - Add suffix "B" (i.e.: 9203C-B)

9203C, 9203S, 9203C-R, 9203S-R — U.S. Units

RPM	10 PSI		20 PSI		40 PSI		60 PSI		80 PSI		100 PSI		120 PSI		140 PSI	
	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
2400	80	1.9	65	1.8												
3600	105	5.3	105	5.3	92	5.0	50	3.7								
4200	122	8.2	120	7.9	115	7.7	98	7.1	56	5.3						
5000	140	12.6	140	12.6	138	12.6	130	12.2	118	11.6	88	9.9	45	7.2		
5500	140	14.9	140	14.9	138	14.9	135	15.2	130	15.2	118	14.4	90	12.5	60	9.8
6000	140	17.1	140	17.1	140	17.5	140	18.0	135	18.2	132	18	125	18.2	103	16.3

9203C, 9203S, 9203C-R, 9203S-R — Metric Units

RPM	0.7 BAR		1.4 BAR		2.8 BAR		4.1 BAR		5.5 BAR		6.9 BAR		8.3 BAR		9.7 BAR	
	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP
2400	303	1.9	246	1.8												
3600	397	5.3	397	5.3	348	5.0	189	3.7								
4200	462	8.2	454	7.9	435	7.7	371	7.1	212	5.3						
5000	530	12.6	530	12.6	522	12.6	492	12.2	447	11.6	333	9.9	170	7.2		
5500	530	14.9	530	14.9	522	14.9	511	15.2	492	15.2	447	14.4	341	12.5	227	9.8
6000	530	17.1	530	17.1	530	17.5	530	18.0	511	18.2	500	18	473	18.2	409	16.3

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DISASSEMBLY AND ASSEMBLY INSTRUCTIONS

⚠ Always Àush pump with water, or neutral-izing agent before servicing.

Disassembly

In most cases, seal replacement requires disas-sembly of only the pump half of the unit.

NOTE: Instructions following in [italics] describe procedures for the polypropylene centrifugal pumps, when different than the cast iron pumps.

1. Remove the four casing cap screws with 9/16" box end wrench. Tap pump casing on discharge port with rubber hammer, if necessary, to break loose from mounting Àange. Check inside of pump casing including suction port. If badly eroded [or damaged], pump casing should be replaced. Remove O-ring and discard. O-ring should always be replaced. [Using a 1/2" wrench, remove the six bolts from the front. Also remove the 5/16" screw from the rear near the outlet port].
2. To remove the impeller nut, clamp the Àange in a vise and insert a large screwdriver or ¿le (at least 10" long) into impeller vanes to prevent impeller from turning when loosening nut. Use a socket wrench (3/4" for Series 9000C or 5/8" for Series 9200C and 9400C) to remove the impeller nut by turning it counter–clockwise. [Use 7/8" deep socket wrench to remove plastic seal nut, then 9/16" deep socket to remove metal jam nut, rubber gasket and washer].
3. Once nut [and washer] is removed, place a screwdriver on each side behind the impel-ler and pry away from the mounting Àange. Remove key from the shaft. Remove O-ring from the mounting Àange.
4. Using two screwdrivers positioned opposite each other, pry the rotary portion of the seal from the shaft.
5. [Remove plastic back cover Àange. Knock seal out from back with a hammer and screwdriver].
6. Remove stationary seat and boot by prying out with two small screwdrivers in manner similar to impeller removal. (Caution: The seal will be damaged from removal. A new seal MUST be used when pump is reassembled).
7. Use a circular bottle-type wire brush to clean the pump ports and seal areas. It is also recommended that the pump casing and mounting Àange be further cleaned in a solvent tank to remove rust and corrosion particles. [Do not wire brush seal bore & ports on poly models].

Assembly

This is a universal kit. Some parts are not required for your pump and are to be discarded. Be ex-tremely careful with the new seal. Take special care not to scratch the lapped sealing faces of the rotary washer and stationary seat.

1. Lubricate seal cavity in mounting Àange with WD-40, LPS or equivalent.
2. Install the stationary portion of the mechanical seal by sliding over the shaft with the ceramic side out.
3. To seat the seal in the seal cavity, use a piece of 3/4" PVC pipe 4" to 6" in length. Press it in ¿rmly and squarely. Lubricate sealing surface on seal after it is seated.

IMPORTANT: Make sure seal cavity is clean and lubricated.

4. Before installing the rotary portion of the seal, be sure that the pump shaft and inside of seal is clean and free of any lubricants. Only water should be used in these areas to assist installation.
5. To install the rotary portion of the mechanical seal, place it over the shaft with the carbon side facing in, and press until it bottoms out against the stationary portion.

IMPORTANT: Do not lubricate shaft prior to installation of the rotary seal.

6. Install the gasket onto the shaft; adjust seal.
7. Insert key into shaft key slot. Place impeller on shaft. Put [washer, jam nut and gasket] impeller nut on shaft end and using a large screwdriver or ¿le in the impeller vanes for support, tighten impeller nut securely.
8. Install O-ring on mounting Àange. Replace O-ring if worn or damaged.
9. Place pump casing on mounting Àange, insert and tighten bolts evenly.

PENTAIR

HYPRO®

Centrifugal Pump Seal Repair Kit

Form L-0379C
Rev. A

■ Kit No. 3430-0826, Buna-N
Kit No. 3430-0827, Viton
Seal Kit for Series 9200C, 9300C, 9300P and 9400C Centrifugal Pumps

■ Kit No. 3430-0828, Buna-N
Kit No. 3430-0829, Viton
Seal Kit for Series 9400P, 9000P, 9000C, 9200P and 9500C Centrifugal Pumps

GENERAL SAFETY INFORMATION

⚠ California Proposition 65 Warning – This product and related accessories contain chemicals known to the State of California to cause cancer, birth defects or other repro-ductive harm.

1. WARNING: DO NOT PUMP FLAMMABLE OR EXPLOSIVE FLUIDS SUCH AS GAS-OLINE, FUEL OIL, KEROSENE, ETC. DO NOT USE IN EXPLOSIVE ATMOSPHERES. THE PUMP SHOULD BE USED ONLY WITH LIQUIDS COMPATIBLE WITH THE PUMP COMPONENT MATERIALS. FAILURE TO FOLLOW THIS WARNING CAN RESULT IN PERSONAL INJURY AND/OR PROPERTY DAMAGE AND WILL VOID THE PRODUCT WARRANTY.
2. Be sure all exposed moving parts such as PTO shafts and adapters are properly shielded or guarded and that all coupling devices are securely attached before applying power.
3. Pumps mounted directly on to PTO shaft or other power shaft must be prevented from rotating with the power shaft. Pump must Àoat freely on the power shaft and must not be tied rigidly to equipment on which it is mounted.
4. DO NOT EXCEED recommended speed, pressure and temperature for pump and equipment being used.
5. BEFORE SERVICING, disconnect all power, make sure all pressure in the system is re-lieved, drain all liquids from the system and Àush.
6. Secure the discharge lines before starting the pump. An unsecured line may whip, causing personal injury and/or property damage.
7. Check hose for weak or worn condition before each use. Make certain that all connections are tight and secure.
8. Periodically inspect the pump and the system components. Perform routine maintenance as required.
9. Protect pump from freezing conditions by draining liquid and pumping rust inhibiting antifreeze solution through the system, coating the pump interior.
10. Use only pipe, hose and ¿ttings rated for the maximum PSI rating of the pump.

For more detailed information on the repair procedures for Hypro Centrifugal Pumps, please refer to Hypro Form Nos. L-0300AG, L-0310C, or L-1526 that was shipped with your pump. If you do not have a copy of the form you need and would like to get one, please call your local dealer, or Hypro at 800-424-9776 and ask for the Customer Service Representative for your area.

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