



ASSEMBLY TORQUE REQUIREMENTS: NOTE: DO NOT OVERTIGHTEN FASTENERS. ALL FASTENERS ARE METRIC. (105) Screw, 40 - 50 in. lbs (4.5 - 5.6 Nm). (134) Screw, 40 - 50 in. lbs (4.5 - 5.6 Nm).

(240) Screw, 40 - 50 in. lbs (4.5 - 5.6 Nm).

- LUBRICATION / SEALANTS

 ① Apply Lubriplate FML-2 grease to all "O" rings, "U" cups and mat
- ing parts.

 ② Apply Loctite 271 to threads.
 ③ Apply anti-coive
 - Apply anti-seize compound to threads and bolt and nut flange heads which contact pump case when using stainless steel fas-teners.

- 323734-101 nitoties P2025-XXXX-XXX-8: 103 (4), 111, 128 (2), 132, 133 (3), 134 (4), 135, 136, 137, 136, 137, 146, 141, 146, 147, 176 (2), 139, 200, 233, 240 (2), 241, 242, 243 and 244.
 637374-5 for models PE205-XXX-XXX-8: 76, 105 (4), 111, 128 (2), 132, 133 (3), 134 (4), 135, 136, 137, 138, 139, 140, 141, 146, 147, 176 (2), 199, 200, 233, 240 (2), 241, 242, 243 and 244

Page 7 of 8

PARTS LIST / PX20X-XXX-XXX-B() AIR MOTOR SECTION

			AIR	ΜO
Item	Description (size)	Qty	Part No.	Mti
101	Center Body (PX20A-XXX-XXX-B)	(1)	94028	[A]
	(PX20S-XXX-XXX-B)	(1)	94109	[SS]
103	Bushing	(1)	94092	[D]
105	Screw (M6 x 1 - 6g x 20 mm)	(4)	95887	[SS]
111	Spool	(1)	95651	[D]
118	Actuator Pin (0.250"x 2.276" long)	(2)	94083	[SS]
121	Sleeve	(2)	94084	[D]
127	90° St. Elbow (1-1/2 - 11-1/2 N.P.T.)	(1)	94860	[C / I]
128	Set Screw (1/4" - 20 x 1/4")	(2)	Y29-42-S	[SS]
❷ 132	Gasket	(1)	94099	[B]
133	Lockwasher (1/4") (PX20A-XXX-XXX-B)	(3)	Y117-416-C	[C]
	(PX20 <u>S</u> -XXX-XXX-B)	(3)	Y14-416-T	[SS]
134	Screw (M6 x 1 - 6g x 30 mm)	(4)	96358	[SS]
135	Valve Housing (PD20A-XXX-XXX-B)	(1)	96334-1	[A]
	(PD20S-XXX-XXX-B)	(1)	96337-1	[SS]
	(PE20A-XXX-XXX-B)	(1)	96334-2	[A]
	(PE20S-XXX-XXX-B)	(1)	96337-2	[SS]
136	Plug (PX20A-XXX-XXX-B)	(1)	96335	[A]
	(PX20S-XXX-XXX-B)	(1)	96339	[SS]
❷ 137	"O" Ring (1/16" x 2" o.d.)	(1)	Y325-32	[B]
⊚ 138	"U" Cup (3/16" x 1.792" o.d.)	(1)	95966	[B]
⊚ 139	"U" Cup (3/16" x 1-1/4" o.d.)	(1)	Y186-50	[B]
140	Valve Insert	(1)	95650	(Ck)
141	Valve Plate	(1)	95659	(Ck)
9 @ 146	"O" Ring (3/32"x 1-1/16" o.d.)	(1)	Y325-118	[B]
9 	"O" Ring (1/8" x 1/2" o.d.)	(2)	Y325-202	[B]

[A] = Aluminum	[D] = Acetal
[B] = Nitrile	[I] = Iron
[Br] = Brass	[Sp] = Santoprene
[C] = Carbon Steel	[SS] = Stainless Ste
(Ck) = Ceramic	IUI = Polyurethan

AIR MOTOR SECTION SERVICE

Service is divided into two parts - 1. Pilot Valve, 2. Major Valve. GENERAL REASSEMBLY NOTES:

- NICHAL REASSEMBLY NOTES: Air Motor Section service is continued from Fluid Section repair. Inspect and replace old parts with new parts as necessary. Look for deep scratches on metallic surfaces, and nicks or cuts in "O"
- rings.

 Take precautions to prevent cutting "O" rings upon installation.

 Lubricate "O" rings with Lubriplate FML-2 grease.

 Do not over-tighten fasteners. Refer to torque specification block on view.
- block on view.

 Re-torque fasteners following restart.

 SERVICE TOOLS To aid in the installation of (168) "O" rings onto the (167) pilot piston, use tool # 204130-T, available from ARO.

PILOT VALVE DISASSEMBLY

- 1. A light tap on (118) actuator pin should expose the opposite
- (121) sleeve, (167) pilot piston and other parts.

 2. Remove (170) sleeve. Inspect inner bore of sleeve for damage.

PILOT VALVE REASSEMBLY

- Clean and lubricate parts not being replaced from service kit. Install new (171 and 172) "O" rings. Replace (170) sleeve.

- OR PARTS **20** 166 Track Gasket (1) 94026 [B] 9 167 Pilot Piston (includes 168 168 "O" Ring (3/32" x 5/8" o.d.) (1) 67164 [U] (2) 94433 169 "U"Cup (1/8"×7/8" o.d.) 170 Piston Sleeve ❷ 171 "O"Ring (3/32"×1-1/8" o.d.) [B] [Br] (1) Y240-9 (1) 94081 (1) Y325-119 (1) Y325-22 (2) Y325-26 [B] ● 9 174 "O" Ring (1/8" x 1/2" o.d.) (2) Y325-202 [B] [Sp] Ø 176 Diaphragm (check valve @ 199 Track Gasket (1) 95666 [B] ② 200 Gasket
 201 Muffler Kit (includes item 127) [B] (1) 96336 (1) 96338 [A] 233 Adapter Plate (PX20A-XXX-XXX-B) 240 Screw (M6 x 1 - 6g x 16 mm) (2) 95991 [SS] ② 241 Track Gasket
 ② 242 "O" Ring (1/16" x 7/32" o.d.) [B] (1) 96344 (1) Y325-5 Ø 243 "O" Ring (1/8" x 5/8" o.d.) (1) Y325-204 [B] (1) Y325-208 [B] **② 244** "O" Ring (1/8" x 7/8" o.d.) ● Lubriplate FML-2 gre (1) 94276 Lubriplate Grease Packets (10) 637308

 - Items included in fluid section service kit,
 Used on models PX20g-XXX-XXX-B() only.
 Used on models PX20g-XXX-XXX-B() only.

Install new (168) "O" rings and (169) seal - Note the lip direction. Lubricate and replace (167) pilot piston. Reassemble remaining parts. Replace (173 and 174) "O" rings. MAJOR VALVE DISASSEMBLY

- Remove (135) valve block and (233) adapter plate, exposing (132 and 166) gaskets and (176) checks.
- Remove (233) adapter plate, releasing (140) valve insert, (141) valve plate, (199, 200 and 241) gaskets and (243 and 244) "0"
- rings. Remove (136) plug and (137) "O" ring, releasing (111) spool.

MAJOR VALVE REASSEMBLY

- Install new (138 and 139) "U" cups on (111) spool LIPS MUST FACE EACH OTHER. Insert (111) spool into (135) valve block. Install (137 and 242) "O" rings on (136) plug and assemble plug to (135) valve block, securing with (105) screws. Install (140) valve insert, (141) valve plate, (199) gasket and (243 and 244). O" rings into (135) valve block, NOTE: Assemble (140) valve insert with "dished" side toward (141) valve plate. Assemble (141) valve plate with part number identification toward (140) valve insert.
- Assemble (200 and 241) gaskets and (233) adapter plate to (135)
- valve block, securing with (240) screws. Assemble (132 and 166) gaskets and (176) checks to (101) cen-
- ter body.
 Assemble (135) valve block and components to (101) center
- body, securing with (134) screws.