

CIRCULATORS | SEAL AND IMPELLER REPLACEMENT | INSTALLATION AND OPERATING INSTRUCTIONS

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1.0 COMPASS R CIRCULATOR

- 1 Turn off the pump power at panel, leaving it installed in the line
- 2 Ensure electrical power is disconnected and locked out
- 3 Close the water supply at the points closest to the pump's inlet and outlet
- 4 For safety, allow water to cool to 100°F (40°C) before draining the system. It is best to leave the drain valve open while working on the system
- 5 Place a pan under the pump to collect the drain water
- 6 Bleed the water pressure from the pump
- 7 While holding the pump/motor, loosen the V-Clamp
- 8 Remove the motor assembly straight out from the volute being careful of the attached impeller from the plumbing system
- 9 Remove Impeller Retaining Nut and lock washer
- 10 Remove Impeller
- 11 Remove Seal & Spring from the motor shaft with a flathead screw driver
- 12 Note the position of stationary seal (depth in adapter plate) and then pry out the original seal
- 13 Lubricate seal and shaft and replace stationary of new seal and spring into stationary section of new seal into adapter plate and check that seal is fully seated
- 14 Replace original O-Ring with new O-Ring, apply O-Ring lubricant
- 15 Reinstall the Impeller
- 16 Reinstall motor assembly into volute and tighten the V-Clamp

The Compass R seal kit includes a mechanical seal and an O-Ring Seal Kit part # 816706-025K

2.0 S&H, 1050&1060 CIRCULATORS

- 1 Remove the pump bracket from the body. Remove the impeller, damaged seal assembly, ceramic insert and rubber cup. Clean the recess in bearing bracket coverplate and install a new retainer cup and ceramic insert. Check the condition of the shaft sleeve. If scored, replace the shaft assembly. Otherwise, clean shaft extension and polish sleeve with a fine crocus cloth, using a rotating motion, if required.
- 2 Press against the coupler end of the shaft to take up play while pressing new seal firmly against the stationary face. A slight amount of clean vaseline may be put on shaft sleeve to assist installation. Press down firmly and evenly, using two screw-drivers and pushing against the four ears of driving band (the metal ring around rubber bellows), or around top outer edge of driving band on models S25 to S57, H32 to H54 and series 1050 (1B to 2B).
- 3 Do not use spring washer on models S25, S35 and H32 current style circulators, where recess to locate spring is provided on impeller hub.
- 4 Continue pressing against coupler end of shaft, re-mount impeller and re-assemble the seal bearing assembly into body. If necessary, install a new body gasket and clean gasket surface of both volute and bracket.

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