NEWLY DEVELOPED PRODUCT

TSS SEAL SENSOR

TSURUMI PUMP

TSURUMI PUMP | TSS SEAL SENSOR 1 HP. ~ 20 HP. | TECHNICAL DATA

Tsurumi offers, (as an option) an externally mounted seal sensor * (as shown in Fig. 1).

It is a probe type sensor that senses the incursion of water into the seal chamber. The seal sensor is mounted in place of the oil chamber plug, (as shown in Fig. 3).

The seal sensor is wired in series with the control circuit relay,(as shown in Fig. 2).

Sequence of Operation

Should the bottom seal fail, water will enter the seal chamber. The amount of water will increase until the oil/water mixture becomes conductive. At that point the seal sensor will cause the seal fail detector relay to actuate. This causes the seal sensor warning light to illuminate and stay on until the unit is repaired.

Fig. 2 TYPICAL WIRING DIAGRAM

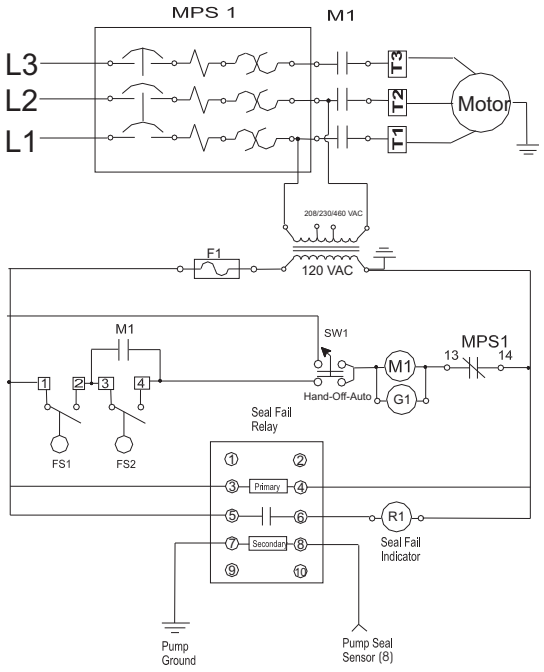


Fig. 1

SEAL SENSOR

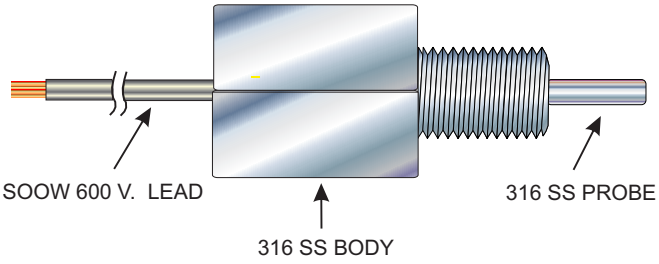
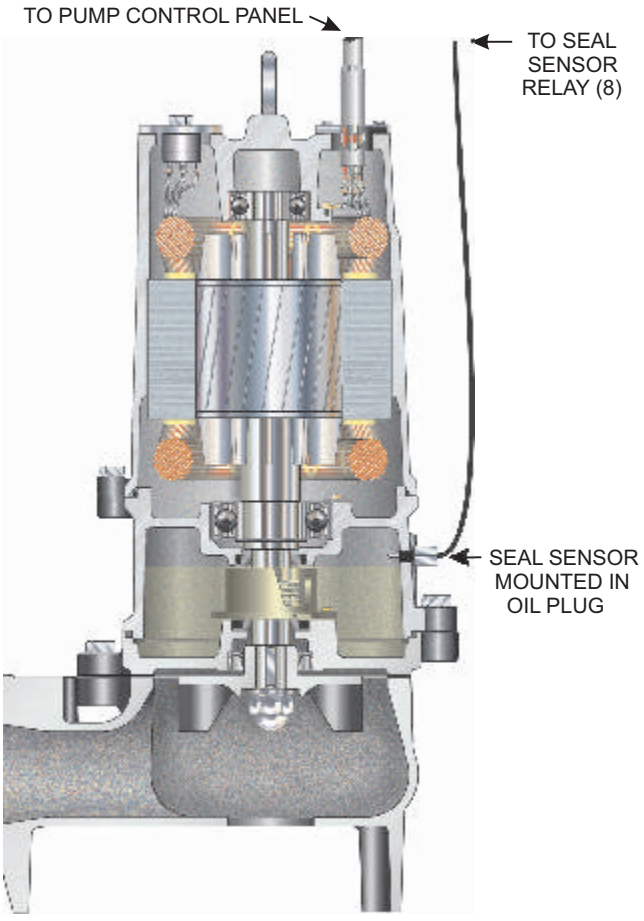


Fig. 3



* CHECK INDIVIDUAL PRODUCT BULLETIN FOR THIS OPTIONAL FEATURE.

TSURUMI PUMP

SEAL MOISTURE PROBE

8mm Probe: P/N TSMP-8 (1 hp pump)

P/N TSMP-8

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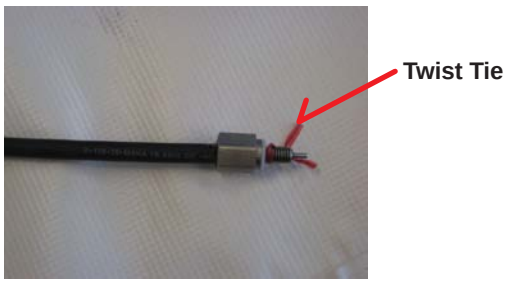
Installation of Seal Moisture Probe

1) To avoid leaking oil, position the pump on it's side so the Oil Plug is on the top.

2) Remove the Oil Plug.

3) Remove the twist tie securing the HDPE (plastic) Washer on the Probe threads.

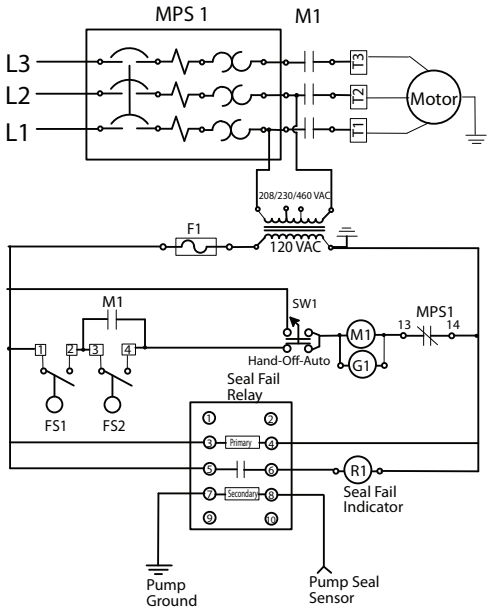


4) Thread Probe into threaded Oil Plug hole while rotating the cable spool to avoid twisting of cable.

5) Tighten the Probe to the recommended Torque. AVOID OVERTIGHTENING.

8mm Probe: 60 in/lbs.

6) Connect the wire of the Moisture Probe to the control panel using the instructions provided with the control panel. The sample schematic on this page is provided to illustrate the connection point for the Probe.



TSURUMI PUMP

SEAL MOISTURE PROBE

10mm Probe: P/N TSMP-10 (2 hp pump)

P/N TSMP-10

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Installation of Seal Moisture Probe

1) To avoid leaking oil, position the pump on it's side so the Oil Plug is on the top.

2) Remove the Oil Plug.

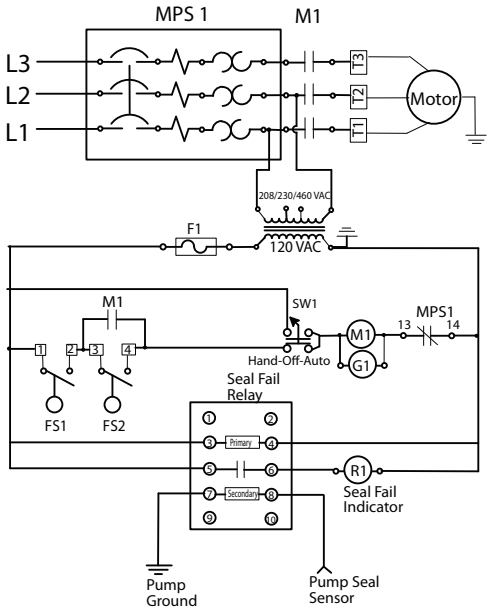
3) Remove the twist tie securing the HDPE (plastic) Washer on the Probe threads.

4) Thread Probe into threaded Oil Plug hole while rotating the cable spool to avoid twisting of cable.

5) Tighten the Probe to the recommended Torque. AVOID OVERTIGHTENING.

10mm Probe: 70 in/lbs.

6) Connect the wire of the Moisture Probe to the control panel using the instructions provided with the control panel. The sample schematic on this page is provided to illustrate the connection point for the Probe.



TSURUMI PUMP

SEAL MOISTURE PROBE

12mm Probe: P/N TSMP-12 (3 hp - 20 hp pump)

P/N TSMP-12

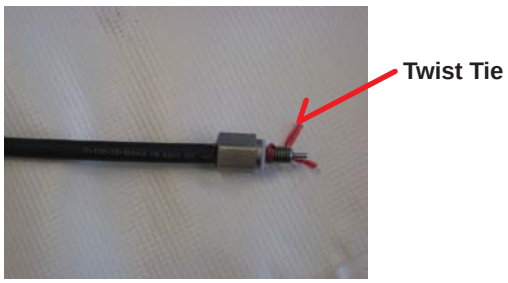
12mm Probe: P/N TSMP-12 (3 hp - 20 hp pump)

Installation of Seal Moisture Probe

1) To avoid leaking oil, position the pump on it's side so the Oil Plug is on the top.

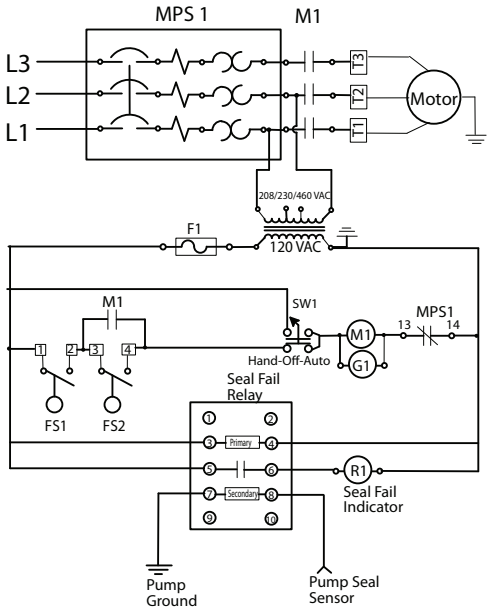
2) Remove the Oil Plug.

3) Remove the twist tie securing the HDPE (plastic) Washer on the Probe threads.



4) Thread Probe into threaded Oil Plug hole while rotating the cable spool to avoid twisting of cable.

5) Tighten the Probe to the recommended Torque. AVOID OVERTIGHTENING.

12mm Probe: 80 in/lbs.

6) Connect the wire of the Moisture Probe to the control panel using the instructions provided with the control panel. The sample schematic on this page is provided to illustrate the connection point for the Probe.