



Installation Instructions

Supplementary PSS II, III and 4

For Goulds 3410 Pumps



Installation of a PSS II, III and 4 on a Goulds 3410 Pump can be simplified by following the supplemental instructions below. These instructions should be used in conjunction with the standard PSS II, III and 4 Installation Instructions.

1. After making the appropriate checks and prior to installing the seal, remove the slingers on the 3410 S and L models (reference Table 1).
If a labyrinth is used on the bearing frame, the seal will not fit. Check the minimum distance required for PSS II, III and 4 installation in Table 1.

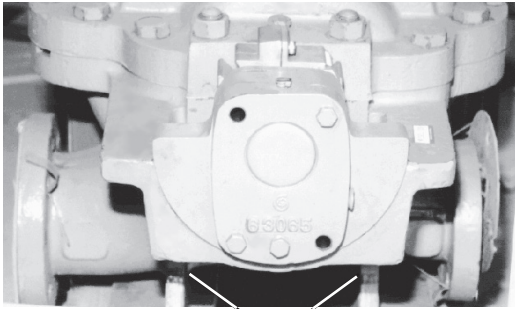
Table 1 Millimeters (inches)

Pump Model	3410 S	3410 M	3410 L	3410 XL
Sleeve Diameter and Seal Size	44.45 (1.750)	53.98 (2.125)	69.85 (2.750)	76.20 (3.000)
Must Slinger Be Removed?	Yes	No	Yes	No
Must Centering Devices Be Removed?	Yes	Yes	Yes	No
Bolt Size and Length Recommended	1/2 - 13 UNC long	1/2 - 13 UNC long	1/2 - 13 UNC long	1/2 - 13 UNC long
Number of Bolts	2	2	2	2
Distance from Stuffing Box to Slinger	60.45 (2.38)	68.33 (2.69)	64.77 (2.55)	74.68 (2.94)
Distance from Stuffing Box to Bearing Frame*	64.52 (2.54)	69.60 (2.74)	68.58 (2.70)	78.49 (3.09)
Distance from Stuffing Box to Labyrinth	- -	61.98 (2.44)	55.37 (2.18)	- -
Minimum Distance Required For PSS II and III Installation* *	60.96 (2.40)	66.55 (2.62)	66.55 (2.62)	66.55 (2.62)

*This is an approximate dimension which varies from pump to pump.

**Assumes that the centering devices are removed.

2. If there is no drain hole in the bottom of the cradle, drill one.
3. Install the seal drive, rotating face, and stationary face per the standard instructions. Reference FIS145eng, PSS II Installation Instructions, FIS175eng, PSS III Installation Instructions and FIS231eng, PSS 4 Installation Instructions.
4. Prior to gland installation, remove the gland centering devices from seals being installed in the 3410 S, M, and L models (reference Table 1).



Bearing Housing Bolts

Figure 1

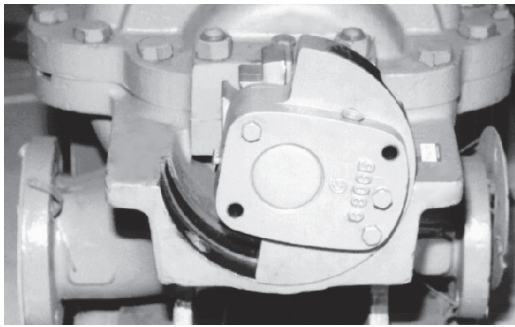


Figure 2

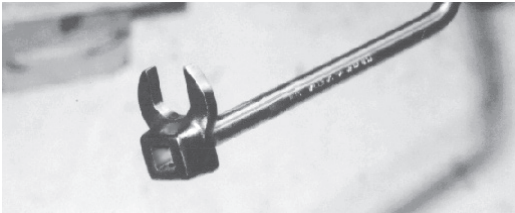


Figure 3

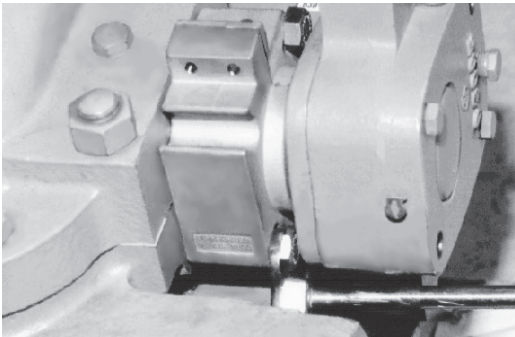


Figure 4

5. Assemble the gland halves around the seal but do not yet bolt the gland to the pump.

6. Remove the bolts holding the bearing housing, Figure 1.

7. Install both gland bolts. Install the lower bolt by rotating the bearing housing 90 degrees for easier access. See Figure 2. Tighten the bolts evenly with the gland visually centered. Use a crow foot-wrench to tighten the lower bolt. See Figures 3 and 4. Draw the bolts up evenly. Finger tight plus one half turn is usually adequate.

8. Reinstall the bearing housing bolts and complete the PSS II, III and 4 installation per the standard installation instructions.



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