FLOWSERVE

Installation Instructions

Supplementary PSS II and III

For Goulds 3410 Pumps



Experience In Motion

Installation of a PSS II and III 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 and III 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 and III installation in Table 1.

Table 1

Pump Model	3410 S	3410 M	3410 L	3410 XL
Sleeve Diameter and Seal Size	1.750"	2.125"	2.750"	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" x 2" long	1/2" x 2 1/4" long	1/2" x 2 1/4" long	1/2" x 2 1/4" long
Number of Bolts	2	2	2	2
Distance from Stuffing Box to Slinger	2.38"	2.69"	2.55"	2.94"
Distance from Stuffing Box to Bearing Frame*	2.54"	2.74"	2.70"	3.09"
Distance from Stuffing Box to Labyrinth	-	2.44"	2.18"	-
Minimum Distance Required For PSS II and III Installation* *	2.40"	2.62"	2.62"	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 and FIS175eng, PSS III 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).

© Copyright 2005 Flowserve Corporation

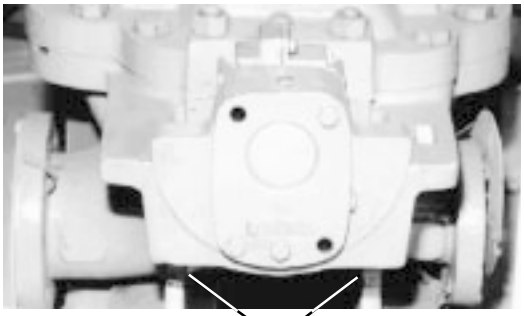


Figure 1

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.



Figure 2



Figure 3

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.



Figure 4

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

FLOWSERVE®

TO REORDER REFER TO
B/M #_____
F.O. _____

USA and Canada
Flowserve Corporation
Flow Solutions
Kalamazoo, Michigan USA
Telephone: 1 269 381 2650
Telefax: 1 269 382 8726

Europe, Middle East, Africa
Flowserve Corporation
Flow Solutions
Roosendaal, The Netherlands
Telephone: 31 165 581400
Telefax: 31 165 552622

Asia Pacific
Flowserve Corporation
Flow Solutions
Singapore
Telephone: 65 684 65100
Telefax: 65 674 71963

Latin America
Flowserve Corporation
Flow Solutions
Mexico City
Telephone: 52 55 5567 7170
Telefax: 52 55 5567 4224

FIS146eng REV 06-05 Printed in USA

To find your local Flowserve representative
and find out more about Flowserve Corporation, visit www.flowserve.com

Flowserve Corporation has established industry leadership in the design and manufacture of its products. When properly selected, this Flowserve product is designed to perform its intended function safely during its useful life. However, the purchaser or user of Flowserve products should be aware that Flowserve products might be used in numerous applications under a wide variety of industrial service conditions. Although Flowserve can provide general guidelines, it cannot provide specific data and warnings for all possible applications. The purchaser/user must therefore assume the ultimate responsibility for the proper sizing and selection, installation, operation, and maintenance of Flowserve products. The purchaser/user should read and understand the Installation Instructions included with the product, and train its employees and contractors in the safe use of Flowserve products in connection with the specific application.

While the information and specifications contained in this literature are believed to be accurate, they are supplied for informative purposes only and should not be considered certified or as a guarantee of satisfactory results by reliance thereon. Nothing contained herein is to be construed as a warranty or guarantee, express or implied, regarding any matter with respect to this product. Because Flowserve is continually improving and upgrading its product design, the specifications, dimensions and information contained herein are subject to change without notice. Should any question arise concerning these provisions, the purchaser/user should contact Flowserve Corporation at any one of its worldwide operations or offices.

ISO 9000
Certified

flowserve.com