MACHINING INSTRUCTIONS FOR CONVERTING THE GOULDS 8" ST BACK COVER/SEAL CHAMBER FOR USE ON THE FRAME S

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Parts needed

Hardware Conversion Kit No. 99700

Includes: (2) 1/4-20 Studs

(2) 1/4-20 Nuts

(4) 3/8-16 Regular Hex Nuts(4) 3/8 D-Shaped Washers

(1) Adapter Plate Drilling Template

Newer Goulds 8" ST Back Cover/Seal Chambers have been modified to eliminate some machining operations when converting it for use on Frame S. Two 1/4-20 UNC tapped holes for use when mounting the Back Cover/Seal Chamber to the Frame S frame adapter have been added. A raised O-ring surface (45 RMS) has been extended out to a 3.00 diameter to leave a sealing surface for both O-ring and gasket mounted seals.

The original design must have these (2) 1/4-20 tapped holes machined to mount onto the Frame S frame adapter.

The Goulds 8" Wet End uses an adapter plate between the Back Cover and the casing. Two thru holes must be drilled into the adapter plate for the 1/4-20 studs on the Back Cover/Seal Chamber.

NEW VERSION

- 1. Remove the (4) 3/8-16 studs and (2) 5/16-18 studs.
- 2. Bore out the Back Cover/Seal Chamber to 2.38 diameter .09 deep, then machine 25° angle.
- 3. Bore out the bottom of the Back Cover/Chamber from 2.18 diameter to 2.38 diameter to existing depth and from 1.41 diameter to a 1.520 diameter.
- 4. Lay template into the recess on the Adapter Plate and align it with the 5/8-11 casing bolts. Mark the two .06 dia. holes on the horizontal centerline. Drill two (2) .281 dia. clearance holes into the adapter plate and deburr.
- 5. Install the (2) 1/4-20 studs and (4) 3/8-16 seal chamber gland studs into the Back Cover/Seal Chamber.

OLD VERSION

- 1. Remove the (4) 3/8-16 studs and (2) 5/16-18 studs.
- 2. Drill and tap the (2) 1/4-20 UNC holes as shown, deburr surface.
- 3. Bore out the Back Cover/Seal Chamber to 2.38 diameter .09 deep, then machine 25° angle.
- 4. Bore out the bottom of the Back Cover/Seal Chamber from 2.18 diameter to 2.38 diameter and bore out the 1.41 diameter to 1.520 diameter.
- 5. Lay template into the recess on the Adapter Plate and align it with the 5/8-11 casing bolts. Mark the two .06 dia. holes on the horizontal centerline. Drill two (2) .281 dia. clearance holes into the adapter plate and deburr.
- 6. Install the (2) 1/4-20 studs and (4) 3/8-16 seal chamber gland studs into the Back Cover/Seal Chamber

