

# FRAME S 6" and 8" GOULDS 3196ST and DURCO MKII GRPI BACK COVER/SEAL CHAMBER ASSEMBLY INSTRUCTIONS

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**FORM**  
**573**

Section	Forms
Effective	Oct 2004
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## SCOPE:

The Blackmer System One Frame S Back Cover/Seal Chambers allow the use of an oversized seal chamber (3.50 inside diameter) with a tangential flush (1/8" NPT) on the Frame S Power End.

The Frame S shaft diameter through the seal chamber is 1.500 diameter. The Frame S Back Cover/Seal Chamber seal opening is 2.38 diameter, and there are four 3/8"-16 studs on a 3.50 B.C. The first obstruction distance for the Goulds is 2.38 and for the Durco it is 2.18.

## NOTE:

The Frame S Back Cover/Seal Chambers can be enlarged to a 2.38 diameter at the opening on the impeller side of the Back Cover/Seal Chamber to increase flow into the seal chamber.

Seal glands having larger than a 4.50 outside diameter obstruct the Durco tangential flush access. To obtain access to the tangential flush, grinding or notching part of the gland will be necessary.

## DISASSEMBLY:

1. Remove the existing casing, impeller and back cover,

## ASSEMBLY:

1. Refer to the mechanical seal installation instructions and slide the seal onto the shaft.
2. Assemble the back cover/seal chamber to the Frame S Power End.
3. Screw the impeller onto the shaft.
4. If installing on a Durco, set the impeller clearance to .018" minimum (6 lines on the Frame S micrometer nut) off the back cover/seal chamber.
5. Install the casing gasket on the back cover/seal chamber and assemble the wet end.
6. If installing on a Goulds, set the impeller clearance .015" (5 lines) off the casing.
7. Secure the seal to the pump according to the seal installation instructions.



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