

6" and 8" GOULD 3196 ST and DURCO MKII GRPI BACK COVER/SEAL CHAMBER ASSEMBLY INSTRUCTIONS

Section	Forms
Effective	Oct 2004
Replaces	ASD202,rev B

SCOPE:

The Blackmer System One back cover/seal chambers allow the use of an oversized seal chamber (3.50 diameter) with a tangential flush (1/8" NPT) on both the Goulds ST and Durco GRPI pumps.

Gould 3196 ST 6" and 8"

The shaft diameter through the seal chamber on the Goulds ST is 1.375" diameter. The back cover/seal chamber seal opening is a 2.18" diameter, and there are four 3/8"-16 studs on a 3.50 B.C.

Durco MKII GRPI 6" and 8"

The shaft diameter through the seal chamber on the Durco GRPI is 1.125" diameter. The back cover/seal chamber seal opening is a 1.91" diameter, and four 3/8"-16 studs are on a 3.50 B.C.

NOTE:

The 6" and 8" back cover/seal chambers for the Goulds ST and Durco GRPI are designed to fit closely around the shaft at the opening on the impeller side to act as a restriction. This opening can be enlarged by machining to increase flow into the seal chamber, if necessary.

DISASSEMBLY:

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

ASSEMBLY:

1. Install the mechanical seal per the seal installation instructions.
2. Assemble the back cover/seal chamber to the bearing frame.
3. Screw the impeller to the shaft.
4. If installing on a Durco, set the impeller clearance to 0.015" minimum off the back cover/seal chamber.
5. Install the gasket onto the back cover/seal chamber and assemble the pump.
6. If installing on a Goulds, set the impeller clearance 0.015" off the casing.
7. Assemble the seal to the pump according to the seal installation instructions.

