

## **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.

