

# GOULDS 3196 MT 10" AND 13" BACK COVER/SEAL CHAMBER CONVERSION ASSEMBLY INSTRUCTIONS

Section	Forms
Effective	Oct 2004
Replaces	ASD198,rev B

## SCOPE:

The Blackmer System One back cover/seal chambers allow the use of an oversized seal chamber with a tangential flush on the Goulds 3196 MT.

The Goulds shaft diameter is 1.75" through the back cover.

Obstruction distances from the back cover/seal chamber face are as follows:

Deflector	2.72"
Labyrinth Seal	2.68"
Shaft Sleeve	2.46"
Frame Adapter	2.85"

Part Numbers:

### Back Cover/Seal Chamber Assembly

316SS 10"	#99241
316SS 13"	#99242

### Optional Throat Bushing Assembly

Carbon	#99247
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### Optional Labyrinth Seals

Thrust End 1 1/8"	#98775
Radial End 1 3/4"	#98780

## DISASSEMBLY:

1. Remove the existing casing, impeller and back cover.
2. If labyrinth seals are being installed, remove the frame adapter and thrust bearing housing. Remove the radial and thrust lip seals.

## BACK COVER/SEAL CHAMBER HOUSING INSTALLATION:

1. If labyrinth seals are being used, break the sharp edges on the housing bores with a round file. Install the labyrinth seals using the instructions provided and install the thrust bearing housing and frame adapter back into place.
2. Refer to the mechanical seal installation instructions provided with the seal. Select the appropriate O-ring material and replace, if necessary.
3. Slide the seal onto the pump shaft.
4. If the carbon throat bushing is being used, install the compatible -149 O-ring on the O.D. and lubricate it. Slide the bushing into the impeller side of the back cover, and insert the retaining ring into its groove.
5. Assemble the back cover/seal chamber assembly to the frame adapter using the two (2) nuts provided.
6. Assemble the impeller and casing to the pump using the gasket provided
7. Set the impeller clearance.
8. Assemble the seal to the back cover/seal chamber using the seal installation instructions.

