DURCO MKII GRPII 10" AND 13" BACK COVER/SEAL CHAMBER CONVERSION ASSEMBLY INSTRUCTIONS

 363118
 FORM

 Page 1 of 1
 571

 Section
 Forms

 Effective
 Oct 2004

 Replaces
 ASD199,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 Durco MKII GRPII.

Obstruction distances from the back cover/seal chamber face for the 10" and 13" back covers vary because of tangential flush access. They are as follows:

Obstruction	10"	13"
Deflector	2.38	2.61
Labyrinth Seal	2.28	2.51
Frame Adapter	2.48	2.71

Part Numbers:

Back Cover/Seal Chamber Assembly

316SS 10" #99239 316SS 13" #99240

Optional Throat Bushing Assembly

Carbon #99247

Optional Labyrinth Seals

Thrust End 1 1/8" #98775 Radial End 1 7/8" #98781

DISASSEMBLY:

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

ASSEMBLY:

- 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. Assemble the 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/seal chamber, 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. Screw the impeller onto the pump shaft.
- 7. Check the impeller clearance between the impeller and back cover face. The clearance should .015" minimum, adjust if necessary. Assemble the thrust cover and recheck impeller clearance again.
- 8. Assemble the casing to the pump using the gasket provided.
- 9. Assemble the mechanical seal to the back cover/seal chamber using the mechanical seal installation instructions.

