This is a SAFETY ALERT SYMBOL.
When you see this symbol on the product, or in the manual, look for one of the following signal words and be alert to the potential for personal injury, death or major property damage.

**DANGER**

Wars of hazards that WILL cause serious personal injury, death or major property damage.

**WARNING**

Wars of hazards that CAN cause serious personal injury, death or major property damage.

**CAUTION**

Wars of hazards that CAN cause personal injury or property damage.

**NOTICE:**

Indicates special instructions which are very important and must be followed.

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**NOTICE:**

Blackmer pumps **MUST** only be installed in systems, which have been designed by qualified engineering personnel. The system **MUST** conform to all applicable local and national regulations and safety standards.

These instructions are intended to assist in the installation of Blackmer cartridge mechanical seals, and **MUST** be kept with the pump.

Blackmer pump service shall be performed by qualified technicians **ONLY**. Service shall conform to all applicable local and national regulations and safety standards.

Thoroughly review the pump manual, all instructions and hazard warnings, **BEFORE** performing any work on the Blackmer pump.

Maintain **ALL** system and Blackmer pump operation and hazard warning decals.
NOTICE:
THE APPROPRIATE BLACKMER PUMP MANUAL AND
PARTS LIST MAY BE OBTAINED FROM THE
BLACKMER WEBSITE (WWW.BLACKMER.COM) OR BY
CONTACTING BLACKMER CUSTOMER SERVICE.

PUMP INSTRUCTION SHEETS AND PARTS LISTS

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* Discontinued models

NOTICE:
MAINTENANCE AND TROUBLE SHOOTING MUST BE
DONE BY AN INDIVIDUAL EXPERIENCED WITH PUMP
MAINTENANCE AND THE TYPE OF SYSTEM INVOLVED.

NOTICE:
The following instructions include only the
steps necessary to remove and replace the
Blackmer Cartridge Mechanical Seal. Before
proceeding, read and follow all mechanical
seal related instructions and hazard
warnings provided in the appropriate pump
"INSTALLATION, OPERATION AND MAINTENANCE" manual.

CARTRIDGE MECHANICAL SEAL REMOVAL
1. Before removing the head assembly, clean the pump shaft
thoroughly, making sure the shaft is free of nicks and
burr.
2. With the head assembly removed, use two large
screwdrivers to carefully push the backside of the seal
jacket to remove the mechanical seal cartridge from the
head. DO NOT damage the head. See Figure 1.

CARTRIDGE MECHANICAL SEAL INSTALLATION
1. Clean the head seal recess, removing any debris, nicks or
burr. On models with discs install the disc (71) in the
head recess before installing the mechanical seal.
2. With a small amount of quality O-ring lubricant, lubricate
the mechanical seal O-rings (Ref. Nos. 153D and 153L).
3. Position the mechanical seal jacket with the drive tangs
INWARD, and push the seal assembly into the head seal
recess. The stationary seat pin MUST be positioned
between the lugs in the back of the head recess.

Figure 1 – Mechanical Seal Removal