

CUSTOM BUILT PERFORMANCE, UNIVERSAL DESIGN

ASSEMBLY CAMS

ASI's Handy-Cams™ not only align the seal, but protect against damage in handling and upon installation, all with the ease of one-step disengagement.

STRESS-RESISTANT GLAND PLATE

Eliminates bending tendency which can result in seal face misalignment, face gasket leakage, and "jamming" of seal components. ASI's unique gland extends beyond the outboard seal face, protecting the seal faces against accidental damage, while providing a safety shield for plant personnel.

HYDRAULIC BALANCE

Seals can operate at higher pressures without overheating.

NO SHAFT MODIFICATION

Seal will install over standard straight shaft or packing sleeve without any modifications.

NON-FRETTING

Shaft o-ring is static and cannot damage equipment.

ISOLATED SPRINGS

Inboard springs are removed from the fluid and cannot clog from sediments in the pumpage. Outboard springs are removed from barrier fluid, providing extra protection in case of barrier fluid contamination.

METAL ENCASED SEAL FACES

Both inboard and outboard faces are encased, protecting plant personnel and the environment from catastrophic seal face failure.

GUARANTEED FACE SQUARENESS

Every ASI seal sleeve (new or repair) is placed on a specially designed machine equipped with an expanding device which holds the shaft sleeve and acts exactly the same as the pump shaft. The nesting surface for the back of the rotary face is then machined at a perfect right angle to the axis of the pump shaft. This, in conjunction with a closely controlled bore v. length ratio, guarantees perfect face squareness every time, every seal, for all ASI assemblies as well as all ASI Encore repairs.

LONGER SEAL LIFE

All o-rings and secondary sealing surfaces are virtually static under normal service conditions and are not required to adjust for misalignment, which provides longer seal life.

PUMPING DEVICE (PATENT # 5,217,234)

The self-circulation device extends the full distance between the inboard and outboard seal faces, removing heat at its source. This insures lubrication and cooling to both sets of sealing faces, in all applications, including vertical.

SIMPLIFIED INSTALLATION

Mechanics are not required to make critical installation measurements to install the seal.

CARTRIDGE MOUNTED

Factory assembled and inspected; each seal is pressure tested prior to shipment.

IMPELLER ADJUSTMENTS IN SERVICE

Disassembling the pump is unnecessary to make any impeller clearance adjustments. The cartridge unit allows you to easily perform this function.

ENVIRONMENTAL PROTECTION

The combination of the Model 595's reciprocal balance and patented heat removal circulation system create a seal unsurpassed in controlling hazardous emissions.

COMPACT DESIGN

The Model 590's design permits use in smaller ANSI pumps without equipment modification - including those with 5/16" cross-section stuffing boxes.

SAFE-T-STUD™ (PATENT # 5,275,421)

ASI's unique drive studs aid in precision alignment and transmit torque from the shaft to the lock collar, a feat virtually impossible with set-screwed alignment devices. These studs actually operate from the inside out, which means they can not be mistaken for set screws (and accidentally loosened) as with dog point set screws; nor can they loosen due to vibration or centrifugal force, as with retaining rings. And, unlike most seal alignment devices which protect the seal in only one direction, all of ASI's alignment devices protect the seal both axially and radially.

