

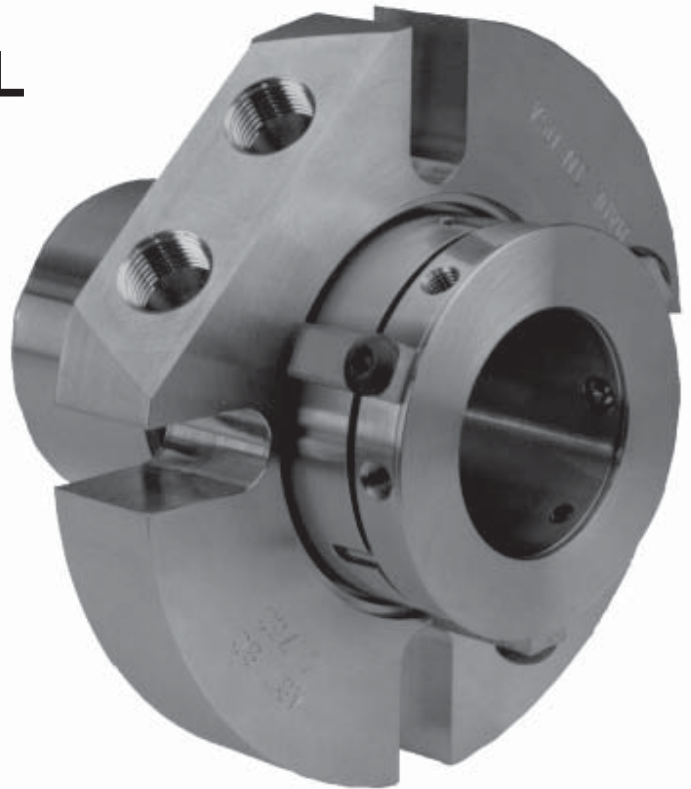
MODEL AST80

DUAL CARTRIDGE SEAL

The SLICK AST80 is two seals packaged in one compact, unitized cartridge assembly for easy installation. Since it is double balanced, it can be used in three ways:

Double Seal: With barrier fluid pressure higher than product pressure, the AST80 prevents leakage of toxic or hazardous fluids into the environment. The barrier fluid provides lubrication to seal gases and non-lubricating fluids.

Tandem Seal: By using a buffer fluid with pressure lower than process, the SLICK AST80 can reduce pressure differential across a single set of seal faces. In tandem mode, the outboard seal of the SLICK AST80 runs as a standby seal. If the inboard seal fails, the outboard seal provides primary protection, eliminating unscheduled equipment shutdowns.



Instantaneous Leakage Control

The barrier fluid between the two seals of the SLICK AST80 eliminates startup failures caused by lack of lubrication at the seal faces and by contamination from the pumped fluid.

Built-in Environmental Control

Use the barrier fluid to cool hot products, to heat thick and crystallizing products, and to keep air away from sensitive products.

Easy Impeller Adjustment

Adjust impeller clearance without removing the seal or dismantling the pump.

Easy replacement on split case and vertical pumps

Pump teardown not required — just slide the seal over the end of the shaft.

OFF THE SHELF...

SLICK seals are available off-the-shelf to fit most ANSI pumps, including enlarged bore pumps, without modification.

...or ENGINEERED

SLICK seals are built to tolerate the radial motion, end play, and vibration in mixers, agitators, slurry pumps, and other rugged services, and are available for shaft sizes from 3.000 to 6.000 inch.

SLICK[®]
SEALING SOLUTIONS

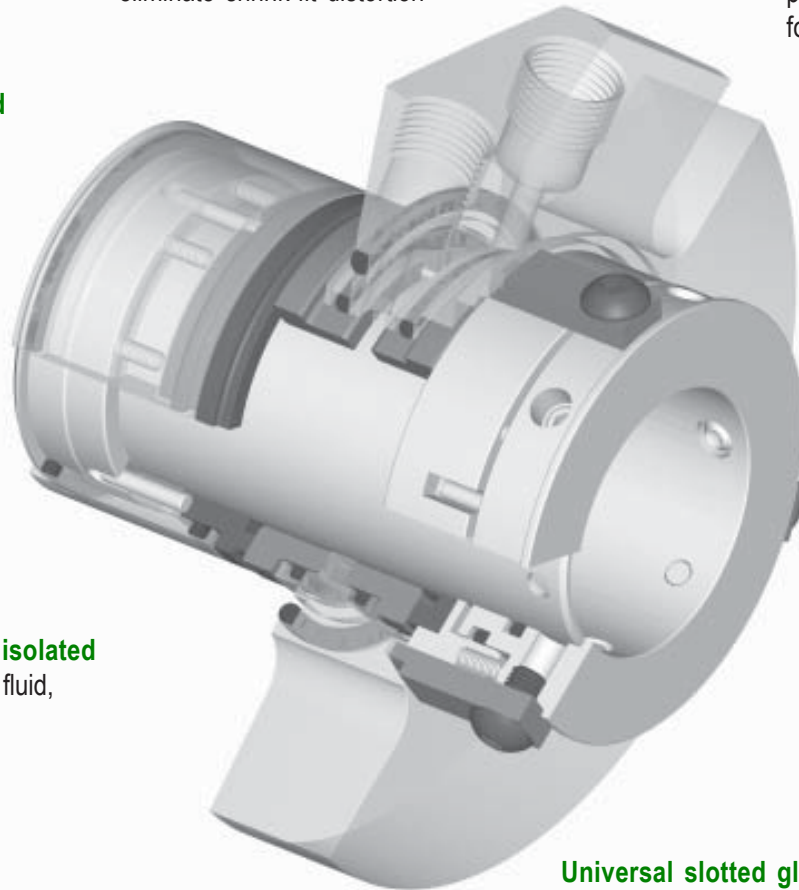
Mechanical Seals

MODEL AST80

Floating seal rings
are field replaceable,
eliminate shrink-fit distortion

Tangential barrier fluid ports
provide shear flow pumping
for optimal cooling

Double balanced
to withstand
pressure reversals
and surges



Springs are isolated
from process fluid,
cannot clog

Metal centering blocks
set radial and axial
position of seal
without measurements

Universal slotted gland
fits most standard bore ANSI pumps without modification.
Seals also in stock for enlarged bore seal chambers

MATERIALS OF CONSTRUCTION:

Metal Components	316 Stainless Steel standard Alloy 20, Titanium, and Hastelloy C-276* available
Rotating seal rings	P-658RC Carbon-Graphite Silicon Carbide (inboard, optional)
Stationary seal rings	Silicon Carbide or Tungsten Carbide
Springs	Hastelloy C-276*
O-rings	Fluoroelastomer, EPDM, Aflas®†, or Kalrez®‡

*Haynes International Inc. Reg. TM
†Asahi Glass Co. Ltd. Reg. TM
‡DuPont Dow Elastomers Reg. TM

OPERATING LIMITS:

Pressure

28 in (710 mm) Hg vacuum to 400 PSIG
(28 bar) maximum, depending on shaft
size and speed.

Temperature

To 500°F (260°C), depending on O-ring
elastomer limits in fluid sealed

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SEALING SOLUTIONS

Distributed By:

ProSpec Technologies Inc.
3235 Wharton Way, Mississauga, Ontario, Canada L4X 2B6
Phn: 905-629-3100 Fax: 905-629-3500
www.prospectech.com email: info@prospectech.com