

AST 50

OUTSIDE SEAL



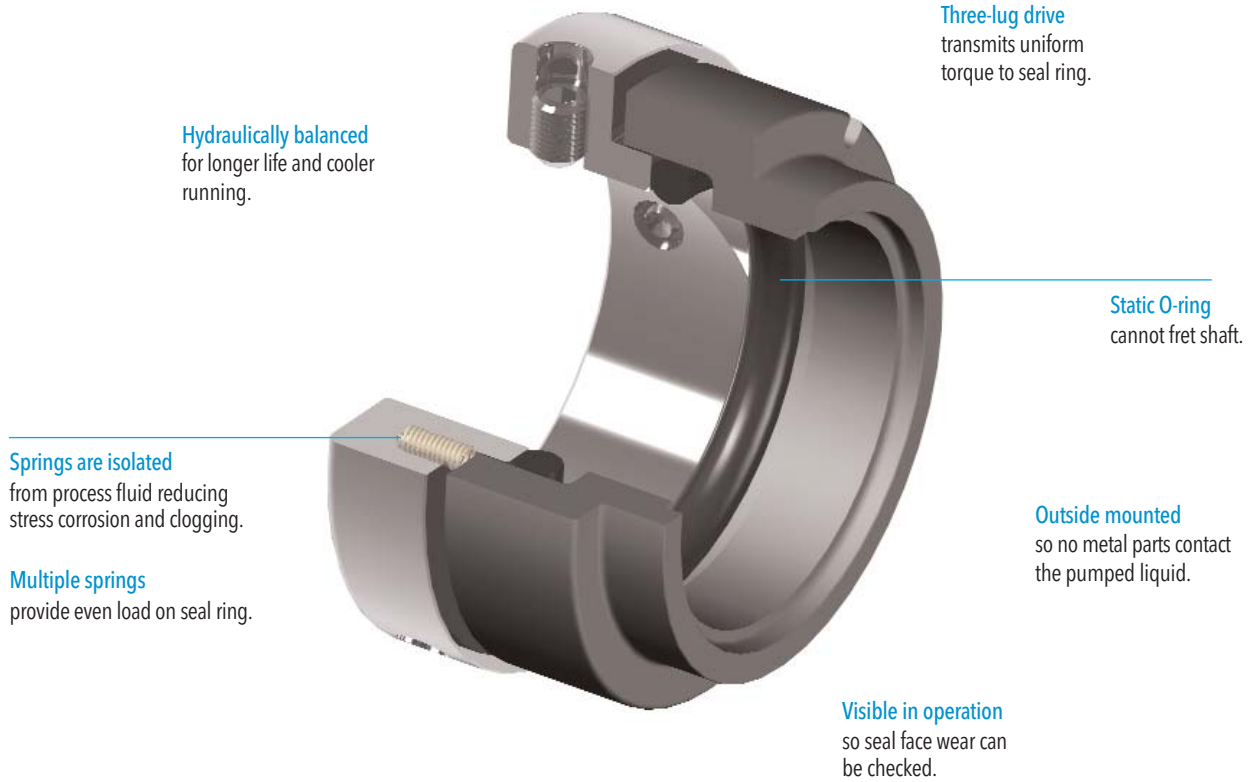
The AST 50 Mechanical Seal is readily accessible, not hidden in the stuffing box, so it's easy to install and replace. Since the proper spring compression is preset, there are only three steps to installation. Just slide the rotary unit over the shaft until it comes in contact with the stationary face, tighten the drive ring to the shaft, and remove the retaining clips.

The AST 50 Seal is designed for use

- where an outside seal is required,
- as a low cost replacement for seals made of exotic metals,
- in corrosive fluids that attack inside-mounted mechanical seals,
- in food processing where the seal must be cleaned in place for sanitation.

This seal has no metal parts in direct contact with the pumped fluid. The multiple springs are also isolated from the fluid. Unlike reverse-mounted inside seals, the AST 50 is hydraulically balanced for use as an outside seal.

AST 50



Hydraulically balanced
for longer life and cooler running.

Three-lug drive
transmits uniform torque to seal ring.

Springs are isolated
from process fluid reducing stress corrosion and clogging.

Static O-ring
cannot fret shaft.

Multiple springs
provide even load on seal ring.

Outside mounted
so no metal parts contact the pumped liquid.

Visible in operation
so seal face wear can be checked.

OFF THE SHELF...

AST 50 seals fit all ANSI pumps and many others which require a single outside seal to withstand an extremely corrosive environment or for low pressure service.

Clamped L-shape and T-shape stationaries are available in silicon carbide and alumina ceramic.

MATERIALS OF CONSTRUCTION

Metal components:	316 Stainless Steel standard; Alloy 20 and Hastelloy C-276 ¹ available
Rotating seal ring:	Carbon-Graphite or Silicon Carbide
Stationary seal ring:	Sintered Silicon Carbide or Alumina Ceramic
Springs:	Hastelloy C-276
O-rings:	Fluoroelastomer, EPDM, Aflas ² , or Isolast ³ perfluoroelastomer

OPERATING LIMITS

Pressure:	28 in (710 mm) Hg vacuum to 150 PSIG (10 bar) maximum, depending on shaft size and speed.
Temperature:	To 400°F (205°C), depending on O-ring elastomer limits in fluid sealed

Notes: ¹Trademark of Haynes International Inc., ²Trademark of Asahi Glass Co. Ltd., ³Trademark of Busak+Shamban