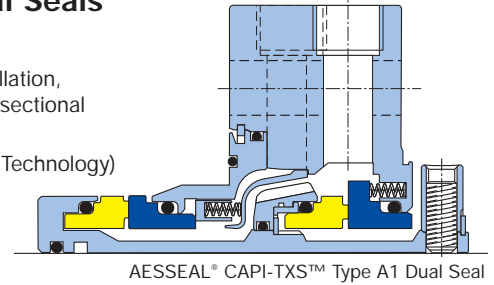


API Seal and System Range

Having supplied the Hydrocarbon processing and associated industry sectors since the early 1990's, AESSEAL has a proven track record of extending equipment life, reducing expenditure on seals and optimising inventory levels for customers in over 80 countries.

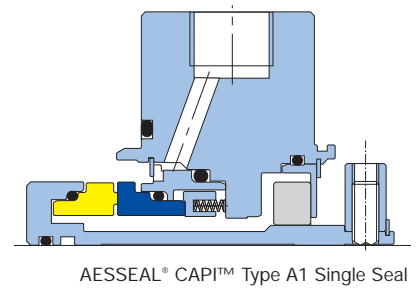
Type A, B and C Category I Single & Dual Seals

- Employs Qualification Tested API 682 Technology
- Thin cross section (TXS) seal designs for mature asset installation, including API 610, 5th Ed. with a 0.500"/12mm radial cross sectional space between the shaft and seal chamber
- Robust and reliable seal face drive (Patented Floating Drive Technology) reduces high stress points at equipment start-up
- Probably the most compact single and dual API cartridge seals on the market which employ API 682 qualified technology
- All sizes available from 1.000" to 6.000" (24mm - 150mm)



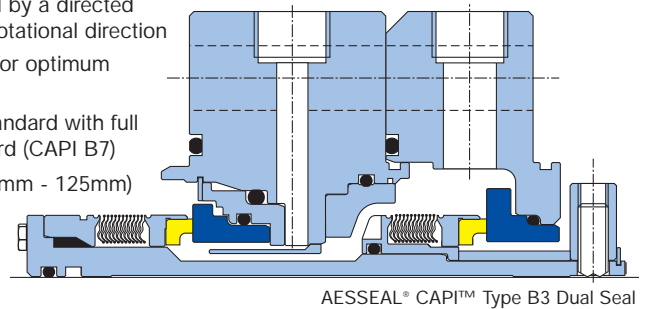
Type A Category II & III Single & Dual Seals

- Qualification Tested to API 682
- Stationary flexible element offered as standard for improved pusher design performance as outlined in API 682 Section 6.1.1.5. Rotary design is available on request.
- Multi-port flush design offered as standard for optimum seal face cooling
- World-leading bi-directional pumping ring performance with 0.062" (1.5mm) radial clearance between rotor and stator; conforming with API 682 Section 8.6.2.3 WITHOUT COMPROMISE
- All sizes available from 1.000" to 6.000" (24mm - 150mm)



Type B Category II & III Single & Dual Seals

- Qualification Tested to API 682
- Effective seal face heat dissipation achieved by a directed barrier fluid flow path, irrespective of shaft rotational direction
- Multi-port flush design offered as standard for optimum seal face cooling
- 12 edge welded bellows convolutions as standard with full graphite secondary seal available as standard (CAPI B7)
- All sizes available from 1.000" to 5.000" (24mm - 125mm)



Bellows Convolution Materials:
Alloy 718, AM350 and Alloy 276 as standard

Seal Face Holder Materials:
Alloy 42, Alloy 625, 316L S/S and Alloy 276 as standard

For more information see the individual product brochures

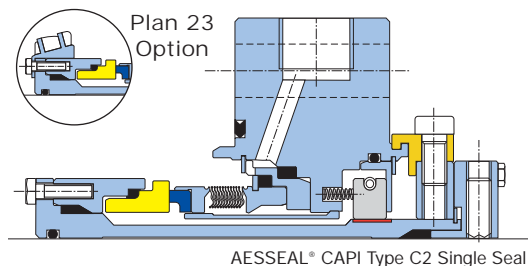


CAPI MAIN

API Seal and System Range

Type C Single & Dual Seals

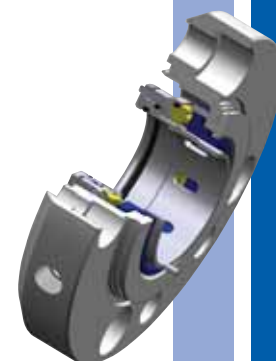
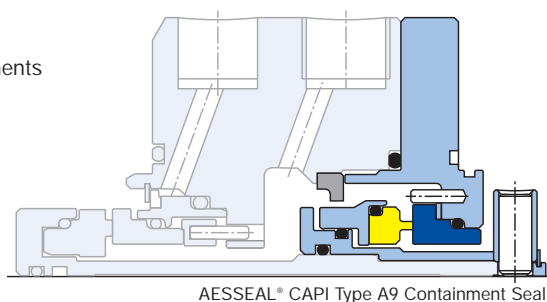
- Qualification Tested to API 682
- Effective seal face heat dissipation achieved by directed barrier fluid flow path in both single and dual designs
- World-leading bi-directional pumping ring performance with 0.062" (1.5mm) clearance between rotor and stator, conforming with API 682 Section 8.6.2.3 WITHOUT COMPROMISE
- Segmented floating containment bush operates on a hard plated cartridge sleeve as standard (single seal)
- Identical seal face technology employed at the inboard and outboard positions (dual seal)
- All sizes available from 1.000" to 5.000" (24mm - 125mm)



Containment Seals

- Containment seal technology that exceeds the requirements of API 682 Ed 3, Section 4.2 and ISO 21049
- Eliminates the need for liquid barrier systems
- High heat dissipation properties due to AESSEAL's close-coupled technology supplied in a robust, short working length pusher design
- Isolation bushing available
- Modular design to all Type A, B and C configurations
- All sizes available from 1.000" to 3.375" (24mm - 85mm)

*Larger sizes available on application

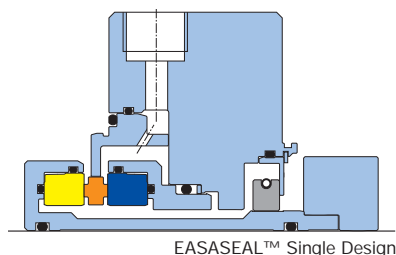


High Pressure Seals

EASASEAL™ - Advanced High Pressure Sealing Technology

This unconventional yet innovative design employs a robust, uniformly shaped floating face, which acts as an interface between the rotary and the stationary seal faces. In single seal format, process pressure acts on the outside circumference of the floating face. This creates a force that is uniformly distributed through the centroid of the seal face. Unlike conventional seal face technology, the floating face is centroidally balanced and will not twist or deform under pressure. This ensures the seal faces remain flat and damage free.

- Verification Tested Category II, High Pressure Seal Technology, applicable for pipeline duties
- Excellent performance in high shaft speed applications
- Ideal for produced water re-injection applications
- Centroidally balanced design ensures seal longevity
- Available in soft/hard and hard/hard seal face combinations, which have been tested at over twice the PV limit of conventional technology
- Offered in single, double and dual formats and containment seal



EASASEAL™



API PIPING PLANS

For more information
see the individual
product brochures.

