

# CAPITM Type A - API 682 Single Pusher Seal

AESSEAL®

## Oil & Gas Industry Products

Single high performance low emission pusher seal.

To suit API 610 (ISO 13709) Pumps, API 682 (ISO 21049) qualification tested.

Large internal clearances for improved safety.



ENVIRONMENTAL TECHNOLOGY

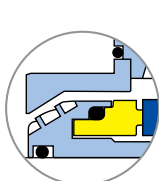


# CAPI™ Type A - API 682

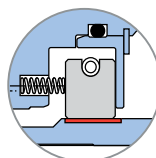
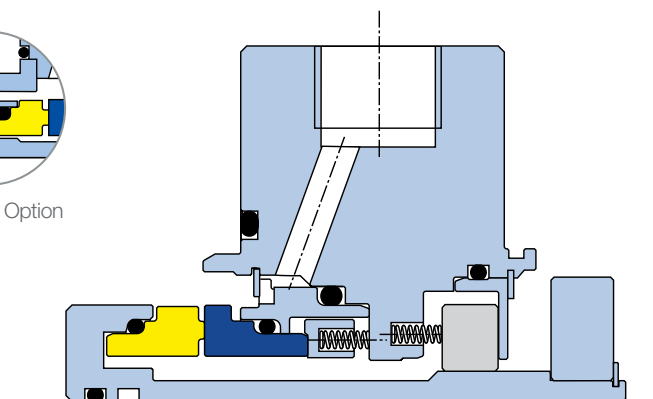
## Single Pusher Seal

The CAPI™ range is primarily utilized to suit the requirements of the oil, gas and petrochemical industries.

Services include hydrocarbons, chemicals, aqueous fluids and some acids. The CAPI™ Type A can be, and is, applied to many other industry sectors.



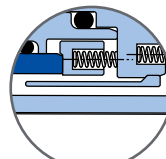
Plan 23 Option



Segmented Bush Option

### KEY FEATURES

- Optional Plan 23 bi-directional taper vane pumping ring reduces inventory for between bearing pump.
- Temperatures -40°C to +260°C (-40°F to +500°F) – elastomer dependent
- Peripheral speeds up to 25 m/s (5000 ft/min)
- Non clogging - springs out of the product - for contaminated and particulate-bearing services
- Optional Plan 62 Quench baffle option
- Fixed or floating throttle bush options. Segmented bush option for reduced steam loss
- Stationary flexible element provides angular misalignment capability, improved reliability where loss of perpendicularity between seal chamber face and shaft exist due to pump case distortion
- Multi-port flush



Quench Baffle Option

### General Description

#### API 682 Type A

Cartridge mounted single multiple spring pusher type seal.

#### Arrangement 1

Seal configurations having one seal per cartridge assembly.

#### API Designation

1CW-FL (floating throttle bush)  
1CW-FX (fixed throttle bush)

#### Category 2 & 3

API682 is qualified as category 3. The seal may also be offered as a category 2.

#### Size Range

20mm (0.750") – 110mm (4.375")  
For shaft sizes above 110mm (4.375"), consult AESSEAL® Technical department.

#### Materials

316L as standard.  
Alternative corrosion resistant materials available, contact AESSEAL®.

#### Face Options

Soft & Hard Face combinations available  
Standard material:  
Premium Anti Blister Carbon / Resin  
Impregnated Carbon / Reaction Bonded  
Silicon Carbide / Sintered / Silicon Carbide / Tungsten Carbide

#### Piping Plans

01, 02, 11, 13, 14, 21, 23, 31, 32, 61, 62



**WARNING**

Use double mechanical seals with hazardous products. Always take safety precautions:

- Guard your equipment
- Wear protective clothing

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