

# CAPITM Type A - API 682 Dual Pusher Seal



## Oil & Gas Industry Products

To suit API 610 (ISO 13709) Pumps, API 682 (ISO 21049) qualification tested.  
Arrangement 2 or arrangement 3 operation.  
Containment or elimination of process emissions.  
Large internal clearances for improved safety.



ENVIRONMENTAL TECHNOLOGY

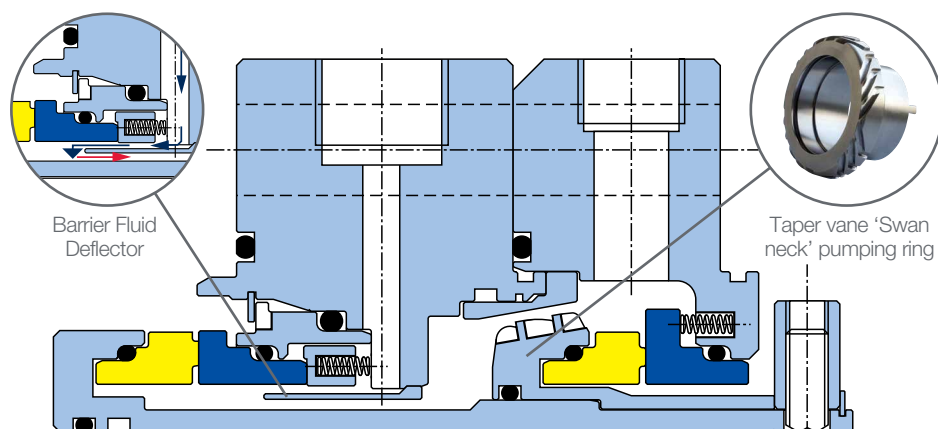


# CAPI™ Type A - API 682

## Dual 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.



### KEY FEATURES

- Inner seal cooling provided by barrier fluid deflector
- Patented high efficiency taper vane pumping ring with large internal clearances, Bi directional for inventory reduction on between bearings pumps
- Optional Plan 23 and Plan 62
- 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
- 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
- Double Hydraulically Balanced Inboard Seal Faces:- Designed to withstand barrier and process pressure fluctuations

### General Description

#### API 682 Type A

Cartridge mounted dual multi-spring pusher type seal. Type A design specification.

#### Arrangement 2

Buffer fluid less than seal chamber pressure.

#### Arrangement 3

Barrier fluid pressure above seal chamber pressure.

#### API Designation

2CW-CW (Wet /Wet unpressurised)

3CW-FB (Wet/Wet pressurised)

#### 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

Outer seal 51, 52, 53A, B, C, 54  
Inner seal 01, 02, 11, 13, 14, 21, 31, 32 (optional plans 62 and 23)



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