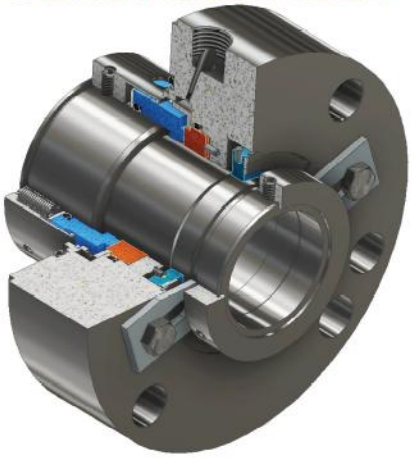
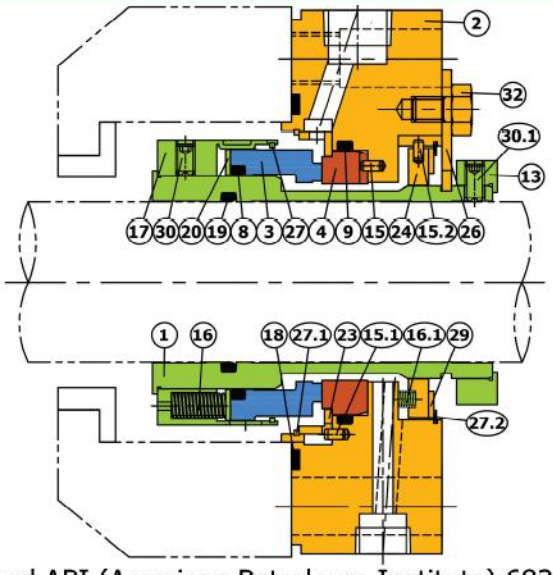
HIGH PERFORMANCE TYPE-A CONTACTING WET API 682 SEALS

API 682 - SSMSB SEAL ASSEMBLY





PN		PART
1	----	SLEEVE
2	----	GLAND RING
3	----	ROTATING FACE
4	----	STATIONARY FACE
8	----	ROTATING FACE O-RING
9	----	STATIONARY FACE O-RING
13	----	DRIVE COLLAR
15	----	LOCK PIN
15.1	----	LOCK PIN
15.2	----	LOCK PIN
16	----	SPRING
16.1	----	SPRING
17	----	SPRING HOLDER
18	----	GLAND O-RING
19	----	SLEEVE O-RING
20	----	RETAINING RING
23	----	MULTIPORT RING
24	----	FLOATING THROTTLE BUSH
26	----	SETTING PLATE
27	----	SNAP RING
27.1	----	SNAP RING
27.2	----	SNAP RING
29	----	BACKUP PLATE
30	----	SET SCREW
30.1	----	SET SCREW
32	----	HEX. BOLT

The Stein Seal Company has developed API (American Petroleum Institute) 682 seals for the oil and gas industry market. Stein Seal has designed, manufactured and tested a Type A pusher seal, Arrangement 3, dual pressurized cartridge seal for this market. In an Arrangement 3 design the barrier fluid pressure is kept higher than the seal chamber pressure and is designed to handle and contain hazardous and light hydrocarbon fluids. The process-end face (inner) seal is specially balanced to handle reverse pressures while the atmospheric-end (outer) seal will contain the barrier fluids.

The Stein Seal Type A pusher seal is also available in Arrangement 1 and 2. An Arrangement 1 seal is a single contacting wet cartridge seal with a bushing. Arrangement 2 cartridge seal is the same configuration as the Arrangement 3 seal but is an un-pressurized dual seal where the barrier fluid pressure is kept lower than the seal chamber fluid pressure. The atmospheric-end (outer) seal will provide additional containment of hazardous fluids.

The Stein Seal Company seals designed for the oil and gas industry are built and qualification tested according to the rigorous API 682 standard's test protocols.

MATERIALS

Hardware : 316 SS, Alloy C-276
Rotating face : BRCG, Antimony Carbon, RBSiC, SSiC
Stationary face : RBSiC, SSiC
Elastomers : FKM, FFKM

OPERATING CONDITIONS

Media : Petroleum, Chemical Solvents, Weak Medium Acids, Water, Oil, Alkali etc..
Pressure : Upto 610 psig (42bar-g)
Temperature * : - 40°F ~ 480°F (-40°C ~ 250°C)
Speed : ≤ 82 ft/min (25 m/sec)

FEATURES

- Seal designs are fully compliant to API 682 design guidelines.
- Precise control of seal face tolerances provide superior performance such as low leakage, less heat generation and longer life.
- Modular cartridge design for quick installation and precise shaft alignment.
- Seals fit in most popular pump seal housings.
- Seals are pressure balanced to extend operating range including pressure reversals upto 40 psi (2.75 bar).
- High performance grades of carbon and carbide faces are used in all designs.
- Seals are available for shaft sizes ranging from 1inch (25mm) to 5inch (127mm) in .125inch (3mm) increments.

API 682 SEALS

* Depending on material selected

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