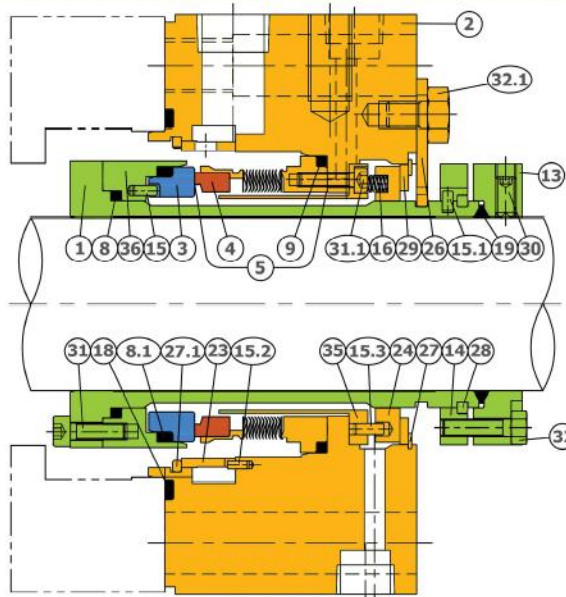




# HIGH PERFORMANCE TYPE-C CONTACTING WET API 682 SEALS

## API 682 - SSSMB SEAL ASSEMBLY



PN	PART
1	---- SLEEVE
2	---- GLAND RING
3	---- ROTATING FACE
4	---- STATIONARY FACE
5	---- BELLOWS ASSEMBLY
8	---- ROTATING FACE GASKET
8.1	---- ROTATING FACE GASKET
9	---- STATIONARY FACE GASKET
13	---- DRIVE COLLAR
14	---- ADJUSTING COLLAR
15	---- LOCK PIN
15.1	---- LOCK PIN
15.2	---- LOCK PIN
15.3	---- LOCK PIN
16	---- SPRING
18	---- GLAND GASKET
19	---- SLEEVE GASKET
23	---- MULTIPORT RING
24	---- FLOATING THROTTLE BUSH
26	---- SETTING PLATE
27	---- SNAP RING
27.1	---- SNAP RING
28	---- SPLIT RING
29	---- BACKUP PLATE
30	---- SET SCREW
31	---- CAP SCREW
31.1	---- CAP SCREW
32	---- HEX. BOLT
32.1	---- HEX. BOLT
36	---- ROTATING FACE BODY

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 C bellows 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 C bellows 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

**Bellows Hardware :** Inconel 718,  
Hastelloy C-276  
**Other Hardware :** 316 SS, Carpenter 42  
**Rotating Face :** SiC  
**Stationary Face :** Carbon, SiC  
**Secondary Seal :** Grafoil

### OPERATING CONDITIONS

**Media :** Hydro-Carbon, Heat Transfer Fluid  
**Pressure :** ≤ 290 psi-g (20bar-g)  
**Temperature \* :** - 167°F ~ 797°F (-75°C ~ 425°C)  
**Speed :** ≤ 151 ft/sec (46 m/s)

### 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.

\* Depending on material selected

All specifications, instrumentation and capabilities subject to change without notice

P/N: SSSMB\_API-23

[www.steinseal.in](http://www.steinseal.in)