

# Stein Seal<sup>®</sup> Company High Performance Type-A Contacting Wet API 682 Seals



**API 682 Seal Assembly**



**Exploded View**

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 duel 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.

With over 55 years of seal design, manufacturing and testing for the industrial and aerospace markets Stein Seal Company has the experience to solve your sealing problems. Stein Seal provides sealing solutions to meet customer needs. To discuss a specific application or for more information please contact the Stein Seal Company directly.

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# Stein Seal® Company

## High Performance Type-A Contacting Wet API 682 Seals



### Performance Capabilities:

Pressure: Up to 610 psig (42 bar g)

Temperature: -40°F to 480°F (-40°C to 250°C)

Speed: Up to 5000 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 up to 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 1 in. (25mm) to 5 in. (127 mm) in 0.125 in. (3 mm) increments.



All specifications, instrumentation and capabilities subject to change without notice.

### For More Information Contact:

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