



ENVIRONMENTAL TECHNOLOGY

# SP RANGE PRESSURE SYSTEMS



## FEATURES

- INTEGRAL 304 SS SCALLOPED WELD PAD LEVEL GAUGE DESIGN
- 304 SS VESSEL CONSTRUCTION
- SATIN BEAD BLAST VESSEL FINISH
- AVAILABLE WITH / WITHOUT COOLING COIL

## BENEFITS

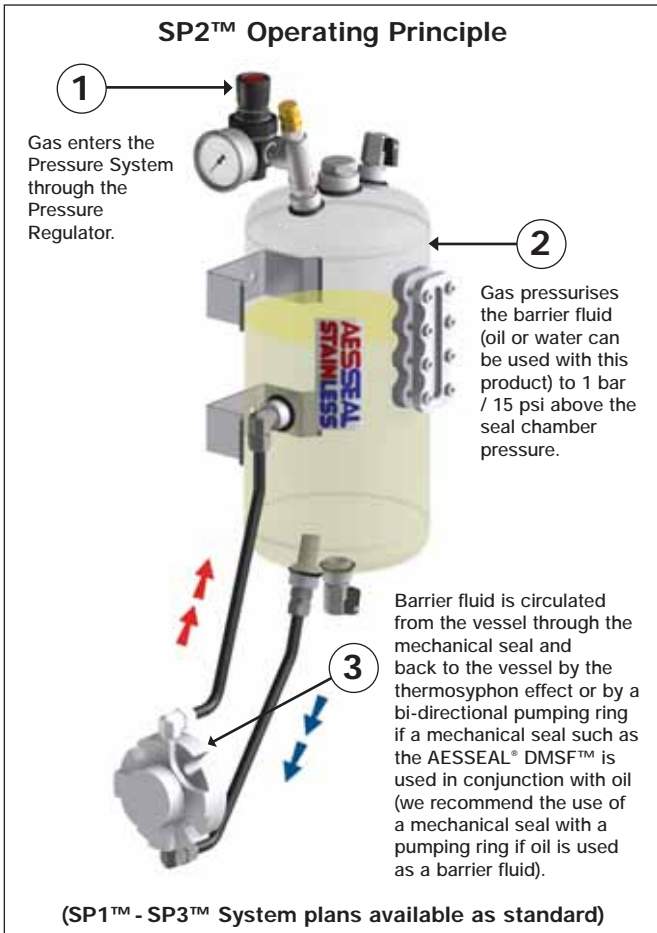
- DISTINCTIVE AND ROBUST VISUAL INDICATION OF BARRIER FLUID LEVEL
- SUITABLE FOR A WIDE RANGE OF ARDUOUS ENVIRONMENTS
- SUITABLE FOR A WIDER RANGE OF INDUSTRIAL ENVIRONMENTS
- ADAPTABLE TO A WIDER RANGE OF MODULAR PIPING PLANS





The AESSEAL® SSE12-P™ and SSE25-P™ robust weld pad vessels are used as the core of a modular Pressure System range (SP1™-SP3™). This range starts with the SP1™, which is a non-pressurised API Plan 52 Buffer System, used to provide cooling to mechanical seal faces. The SP2™ and SP3™ Systems are piped as API Plan 53A Pressure Systems. The SP3™ has the addition of finned tubing to enhance surface area so it can operate on high heat applications. All vessels are designed and manufactured in accordance with ASME VIII Div.1 and certified by TÜV to cover PED requirements.

## SPECIFICATIONS



### Standard Offering:

#### Vessel:

- Construction: 304 Stainless Steel
- Pressure Limit: 16 bar / 230 psi
- Temperature Limit: 100°C / 212°F
- Capacity: 12 liter / 3.00 gal (US), 25 liter / 6.60 gal (US) option available
- Connections: 1/2" NPT for seal feed and return hoses\*
- Finish: Satin bead blast
- Designed to: ASME VIII Div.1 and certified by TÜV to cover PED requirements

#### Weld Pad Level Gauge:

- Construction: 304 Stainless Steel
- Gaskets: PTFE
- Pressure Limit: 16 bar / 230 psi
- Temperature Limit: 100°C / 212°F

#### Optional Extras:

- Relief Valve: Brass/SS options
- Pressure Gauge: Brass/SS options
- Air/N2 Supply Regulator
- Cooling Coil
- Finned Tubing (supplied as standard on the SP3™)
- Pressure Switch: Explosion Proof and Intrinsically Safe options
- Level Switch: Explosion Proof and Intrinsically Safe options
- Top Up Cart
- Oil/Water Hand Pump

\* All finished SP systems come complete with twin furrel compression type SS fittings.

The Pressure Systems are most commonly used with these seals:



DMSF™



CDSA™

The AESSEAL® Pressure Systems can operate under API Plan 52 conditions and can be de-rated to suit operational/geographical pressure requirements.

### BARRIER & BUFFER FLUID SYSTEMS FOR USE WITH DOUBLE MECHANICAL SEALS

AESSEAL® supplies an extensive range of barrier and buffer fluid systems for use with double mechanical seals. Wherever possible AESSEAL® prefers to supply both the seal and the system. In addition the company will suggest suitable barrier or buffer fluids for most applications, based on extensive field experience.

AESSEAL® accepts no responsibility for any problems associated with system design, installation, operation, or the use of an unsuitable barrier or buffer fluid, where the fluid, seal or any part of the system have not been specified and/or supplied by AESSEAL®

THIS DOCUMENT IS DESIGNED TO PROVIDE DIMENSIONAL INFORMATION AND AN INDICATION OF AVAILABILITY. FOR FURTHER INFORMATION AND SAFE OPERATING LIMITS CONTACT OUR TECHNICAL SPECIALISTS AT THE LOCATIONS BELOW.



USE DOUBLE MECHANICAL SEALS WITH HAZARDOUS PRODUCTS. ALWAYS TAKE SAFETY PRECAUTIONS:

- GUARD YOUR EQUIPMENT
- WEAR PROTECTIVE CLOTHING



#### UK Sales & Technical advice:

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**Our Purpose:** *'To give our customers such exceptional service that they need never consider alternative sources of supply.'*

#### USA Sales & Technical advice:

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