

SW Range™

Water Management Systems



Features

- 304 SS vessel construction
- Water regulator
- Flow indicator
- Supplied as complete system
- Non-return valve

Benefits

- Suitable for a range of challenging environments
- Maintains vessel water level and pressure
- Visually alerts the user of an inboard seal failure
- The SW Range has all the components required for fast and easy installation
- Protects plant water supply from contamination and maintains vessel pressure in the event of supply interruption



SW Range

The AESSEAL® SSE10™ and SSE25™ vessels are used as the core of a modular Water Management System Range (SW2™ & SW3™). The environmentally friendly SW Range have significantly contributed to the global drive for water conservation. AESSEAL® Water Management Technology can save 6.3 Million litres / 1.7 Million US gallons of water per pump per year! The Water Management Range starts with the SW2™, which is piped as an API Plan 53A configuration (see Figure 1). This is a self regulating system which can both refill and re-pressurise itself upon any mechanical seal upsets. The SW3™ is piped in the same way as the SW2™ and has the addition of finned tubing to deal with high heat applications. All vessels are designed and manufactured in accordance with ASME VIII Div.1 and all SW systems comply with Pressure Equipment Directive PED (2014/68/EU)

SW Range Operating Principle

(SW2™ shown below)

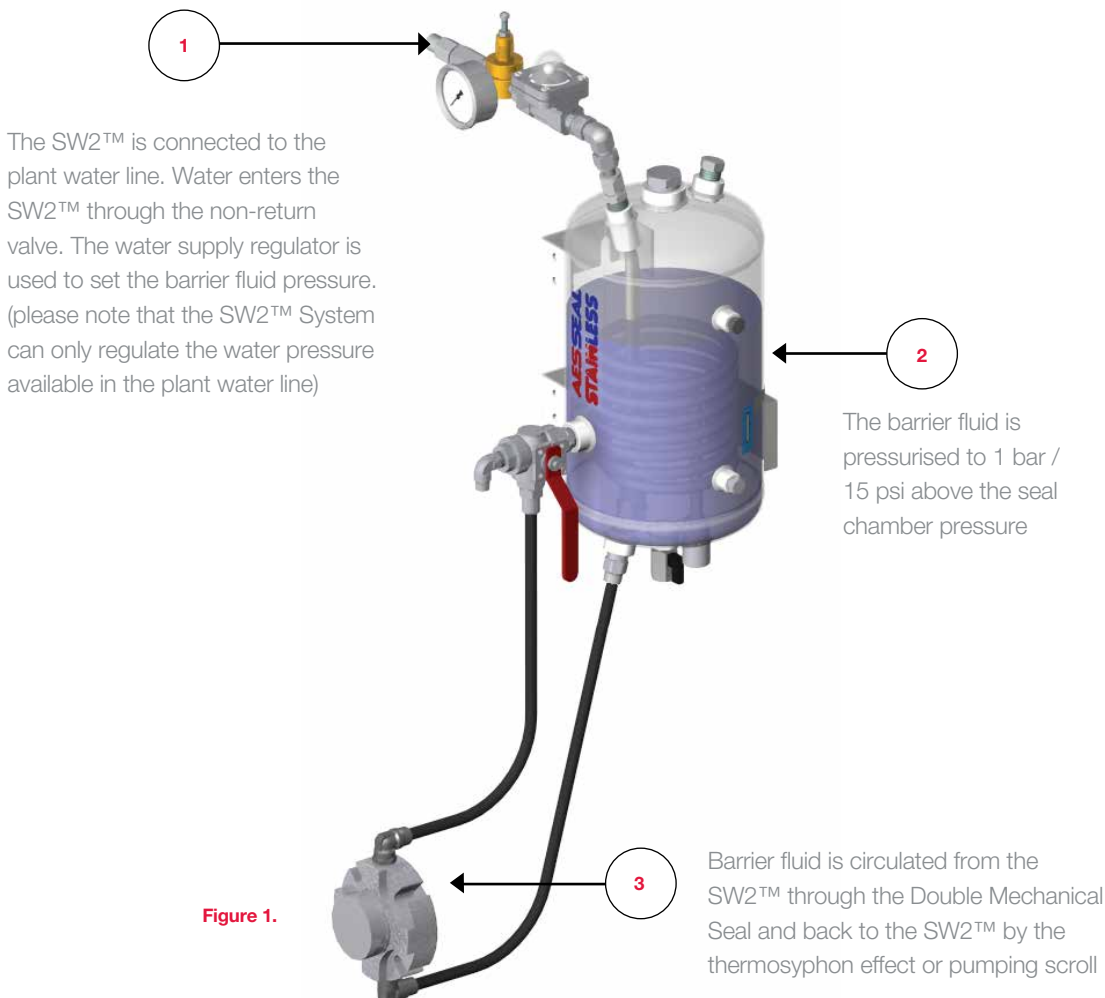


Figure 1.



Specifications

System Specification:

Maximum Set Pressure: 6 barg / 87 psig*

Maximum Design Pressure: 10 barg / 145 psig

Minimum Working Pressure: 1 barg / 15 psig

Maximum Temperature: 80°C / 176°F (with suitably rated piping / hosing)

Minimum Temperature: 0°C / 32°F**

* 8 Barg can be achieved with optional expansion vessel

** Protection against freezing required for water below 0°C

Vessel:

Construction: 304 Stainless Steel

Capacity: 10 litres / 2.64 gal (US) Or 25 litres / 6.60 gal

Connections: 1/2" NPT for seal feed and return hoses

Finish: White powder coated

Designed to: ASME VIII Div.1



SW Range System Components:

Non-Return Valve: Stainless Steel

Water Supply Regulator: Brass, max outlet pressure 10 bar / 150 psi (Stainless Steel option available)

Pressure Gauge: Brass (Stainless Steel option available)

Flow Indicator: Stainless Steel

Ball Valve (Drain): Nickel plated brass

12mm (1/2") Hose Kit (SW2™ Only): Nylon

3-way valve (SW2™ Only): Nickel plated brass (Stainless Steel option available)

Finned Tubing (SW3™ Only): Cupro Nickel

Optional Extras:

Cooling Coil

Finned Tubing: Cupro Nickel

Pressure Switch: Safe area, explosion proof and intrinsically Safe options

Level Switch: Safe area, explosion proof and intrinsically Safe options

Stainless Steel Braided flexible hose

Hard pipe kit

In-line Water Filter: UV stabilized material, 8 bar / 120 psi max pressure (we strongly recommend the use of an in-line filter with the SW range)

Expansion Vessel: Stainless steel, used for higher set pressures

The SW Range is commonly used with the following seals:



DMSF™



CDSA™

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®.



EXPERIENCE THE EXCEPTIONAL

To experience the exceptional, please contact your local representative. Discover full details on our website:

www.aesseal.com

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



WARNING

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