

# SWM™ & SWP™

Entry Level Water Management Systems



## Features

- 304 SS vessel construction
- Weld pad level gauge (SWP™ only)
- Non-return valve

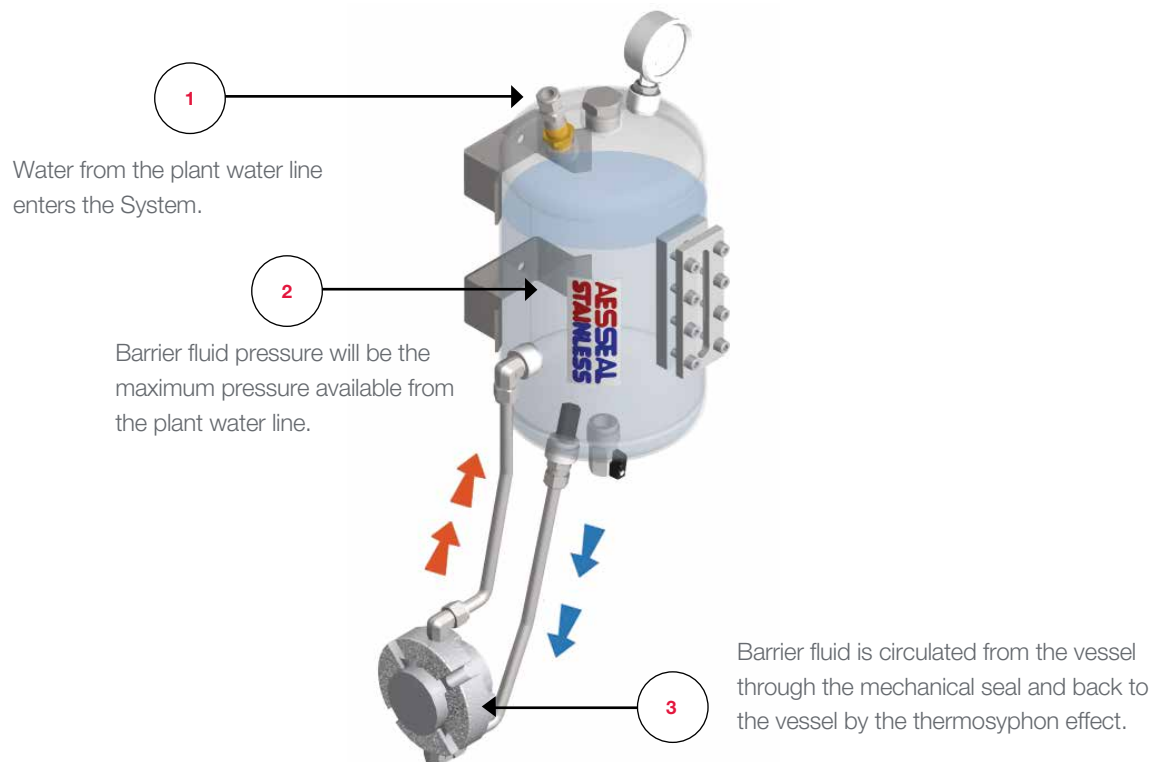
## Benefits

- Suitable for a range of challenging environments
- Robust and industrially acceptable visual indication of fluid level
- Protects plant water supply from contamination, and maintains vessel pressure in the event of supply interruption

The AESSEAL® SWM™ (System Water Management) and SWP™ (System Weld Pad) vessels are lower cost alternatives to the SW™ Range of Water Management Systems.

Both the SWM™ and SWP™ utilize the pressure available from the plant water line to pressurise the barrier fluid inside the vessel. This provides a pressurised barrier fluid that maintains a stable fluid film across the seal faces. The non-return valve protects the plant water line from process contamination and also maintains the maximum pressure from the plant water line. All vessels are designed and manufactured in accordance with ASME VIII Div.1 and certified by TÜV to cover PED requirements.

## **SWM™ / SWP™ Range Operating Principle**





## 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

**SWM™ capacity:** 10 litres / 2.64 gal (US)

**SWP™ capacity:** 12 litres / 3 gal (US)

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

**Finish:** White powder coat (SWM™ only) and satin bead blast (SWP™ only)

**Designed to:** ASME VIII Div.1

### Included Components (SWM™ & SWP™):

**Non-return valve:** Stainless Steel

**Pressure gauge:** Brass (Stainless Steel options available)

**Ball valve (drain):** Nickel plated Brass

### SWM™ & SWP™ Optional Extras:

**Pressure gauge:** Brass (Stainless Steel options available)

**Cooling coil**

**Finned tubing**

**Pressure switch:** Safe area, explosion proof and intrinsically Safe options

**Level switch:** Safe area, explosion proof and intrinsically Safe options

**3-way valve:** Brass / Stainless Steel options

**In-line filter:** 1 micron, UV stabilizer material 8 bar/120 psi maximum pressure

**Pressure regulator:** Brass max outlet pressure 10bar/150psi (Stainless Steel options available)

**Flow indicator:** Stainless Steel

\* Depending on components fitted this may be lower contact AESSEAL® for advise

\*\* All finished SWP™ systems come complete with twin ferrule compression type Stainless Steel Fittings.



## 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®.



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For further information and safe operating limits contact our technical specialists at the locations below.



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**AESSEAL plc is certified to:**

ISO 9001, ISO 14001, ISO/IEC 20000, ISO/IEC 27001,  
ISO/TS 29001, ISO 37001, ISO 45001 & ISO 50001



Net Zero champions globally



INVESTOR  
IN PEOPLE

Use double mechanical seals with hazardous products.

Always take safety precautions:

- Guard your equipment
- Wear protective clothing



**WARNING**

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