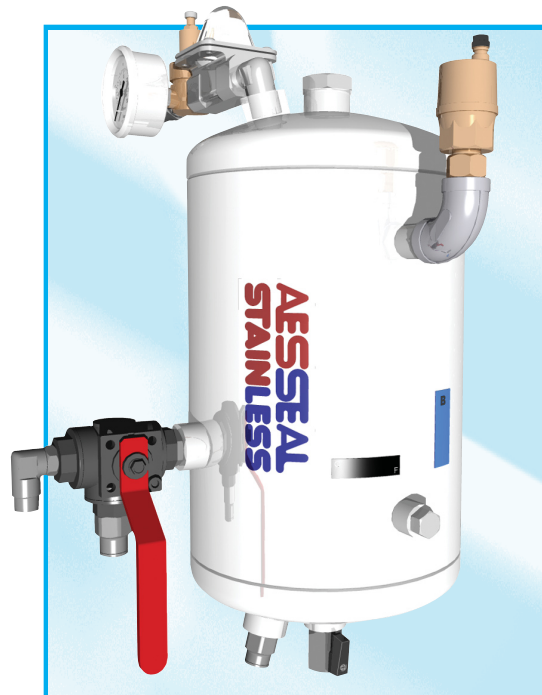




ENVIRONMENTAL TECHNOLOGY

# SW RANGE

## Water Management Systems



### FEATURES

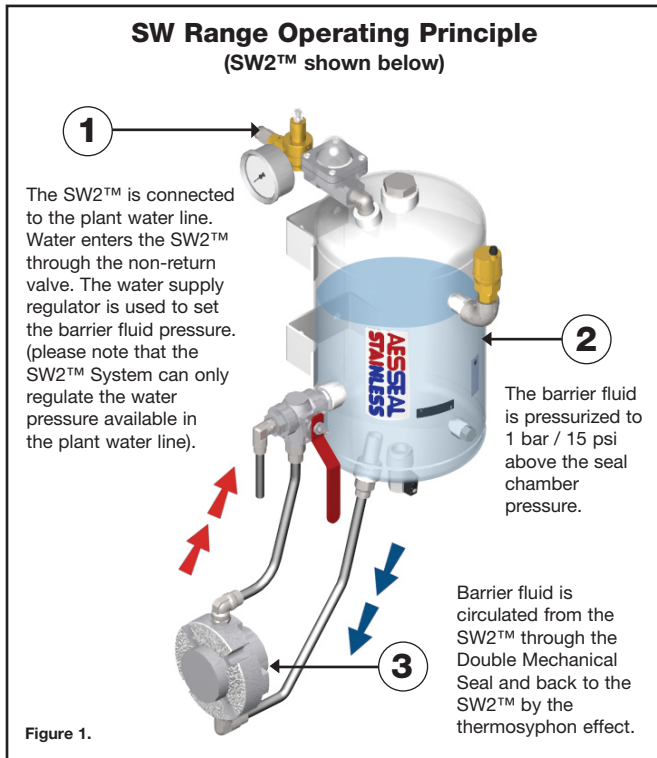
### BENEFITS

- |                                      |   |
|--------------------------------------|---|
| <b>304 SS VESSEL CONSTRUCTION</b>    | • <b>SUITABLE FOR A RANGE OF CHALLENGING ENVIRONMENTS</b>   |
| <b>WATER REGULATOR</b>               | • <b>MAINTAINS VESSEL WATER LEVEL AND PRESSURE</b>  |
| <b>FLOW INDICATOR</b>                | • <b>VISUALLY ALERTS THE USER OF AN INBOARD SEAL FAILURE</b>  |
| <b>NON-RETURN VALVE</b>              | • <b>PROTECTS PLANT WATER SUPPLY FROM CONTAMINATION AND MAINTAINS VESSEL PRESSURE IN THE EVENT OF SUPPLY INTERRUPTION</b> |
| <b>SUPPLIED AS A COMPLETE SYSTEM</b> | • <b>THE SW RANGE HAS ALL THE COMPONENTS REQUIRED FOR FAST AND EASY INSTALLATION</b>                                      |



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, saving global industry in excess of 5 billion gallons/19 billion litres of water per year. The Water Management Range starts with the SW2™, which is piped as an API Plan 53A System (see Figure 1). This is a self regulating system which can both refill and re-pressurize 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 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:** 10 liters / 2.64 gal (US), or 25 liters / 6.60 gal (US)
- **Connections:** 1/2" NPT for seal feed and return hoses\*
- **Finish:** White Powder Coat or Satin Bead Blast
- **Designed to:** ASME VIII Div.1 and certified by TÜV to cover PED requirements

#### SW Range System Components:

- **Non-Return Valve:** Brass
- **Water Supply Regulator:** Brass, Max Outlet Pressure 10 bar / 150 psi (SS option available)
- **Pressure Gauge:** Brass (SS option available)
- **Flow Indicator:** SS
- **Air Vent Valve:** Brass
- **Ball Valve (Drain):** Nickel Plated Brass
- **12mm (1/2") Hose Kit (SW2™ Only):** Nylon
- **3-way valve (SW2™ Only):** Brass (SS option available)
- **Finned Tubing (SW3™ Only):** Cupro Nickel

#### Optional Extras:

- **Cooling Coil**
- **Finned Tubing:** Cupro Nickel
- **Pressure Switch:** Explosion Proof and Intrinsically Safe options
- **Level Switch:** Explosion Proof and Intrinsically Safe options
- **SS Braided flexible hose**
- **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)

\* all finished SW Systems come complete with Brass Fittings.

The SW Range is commonly used with the following seals:



DMSF™

CDSA™

SW3™ Water Management System with the addition of finned tubing for hot applications



Figure 2.

**WaterAid** Charity registration number 288701

**WaterAid - water for life** - The international NGO dedicated exclusively to the provision of safe domestic water, sanitation and hygiene education to the world's poorest people.

#### Commitment to Global Water Conservation and a Clean Environment

For each water management system sold, 1% of net sales will be donated to WaterAid.

### 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**



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