

**BPMA**  
The Pump Industry Association

Winner of the  
2005 BPMA  
"Environmental  
Contribution of  
the Year Award"



ENVIRONMENTAL TECHNOLOGY

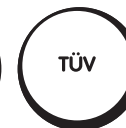
## SWFF-TF™ WATER MANAGEMENT SYSTEM



### FEATURES

### BENEFITS

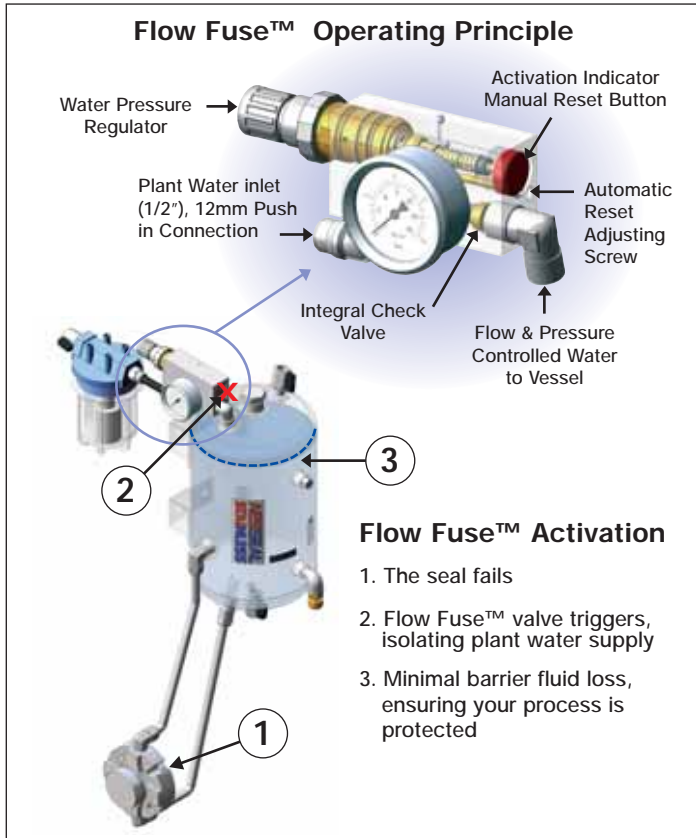
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|------------------------------------|--|
| <b>FLOW SENSING SHUT OFF VALVE</b> | • PROTECTS THE PROCESS FROM BARRIER FLUID CONTAMINATION UPON CATASTROPHIC SEAL FAILURE |
| <b>WATER MANAGEMENT ELEMENTS</b>   | • MAINTAINS WATER LEVEL AND PRESSURE, WHICH REDUCES DUE TO NORMAL SEAL OPERATION       |
| <b>AUTOMATIC RESET FACILITY</b>    | • PROTECTS THE MECHANICAL SEAL FROM RUNNING DRY DURING PROCESS UPSETS                  |
| <b>THERMAL RELIEF VALVE</b>        | • MAINTAINS SYSTEM PRESET PRESSURE BY ACCOMMODATING ANY THERMAL EXPANSION              |





The Flow Fuse™ is arguably one of the greatest seal support system developments in the past ten years. This product now allows the use of a water management system in applications which cannot tolerate product contamination upon catastrophic seal failure. When water and pressure are lost due to the natural leakage across the seal faces, the system allows water level and pressure to be maintained with the aid of the integral pressure regulator. However, if the inboard seal fails, the Flow Fuse™ immediately shuts down and prevents further plant water entering the vessel and the process. The device can be installed so that it is automatically reset in the event of activation caused by a periodic face upset or installed on manual reset should complete shut down be required. The Flow Fuse™ contains an integral check valve to ensure that the plant water supply is not contaminated should the product leak into the vessel. The system also has an integral thermal relief valve which helps to reduce the bulk temperature inside the vessel should it increase above the desired value.

## SPECIFICATIONS



### Standard Offering:

#### Vessel:

- **Construction:** 304 Stainless Steel
- **Pressure Limit:** 16 bar / 230 psi
- **Temperature Limit:** 100°C / 212°F
- **Capacity:** 10 liter / 2.64 gal (US), or 25 liter / 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

#### SWFF-TF™ Components:

- **Flow Fuse™:** Nickel plated brass construction, 10 bar / 150 psi maximum pressure
- **Thermal Fuse™:** Brass construction
- **In-line Filter:** 1 micron, UV stabilized material, 8 bar / 120 psi maximum pressure

#### Optional Extras:

- **Cooling Coil**
- **Finned Tubing**
- **Pressure Switch:** Safe Area, Intrinsically Safe and Explosion Proof options
- **Level Switch:** Safe Area, Intrinsically Safe and Explosion Proof options
- **SS Braided Flexible Hose**
- **SS Hard Pipe**

### 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®.

**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.

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.



INVESTOR IN PEOPLE



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

- GUARD YOUR EQUIPMENT
- WEAR PROTECTIVE CLOTHING



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**POLYFLON®**

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