



## BUFFER FLUID SYSTEMS FOR DOUBLE SEALS



- TO SUPPORT THE SEALING OF HOT, CRYSTALLIZING OR SEDIMENTARY PRODUCTS
- COST EFFECTIVE MODULAR DESIGN
- FLOAT VALVE AUTOMATICALLY MAINTAINS WATER LEVEL IN TANK
- UNPRESSURIZED
- CERTIFIED LEAK FREE VESSEL
- INCORPORATES TEMPERATURE INDICATION
- COMPLETE SYSTEM INCLUDES ALL HOSES, FITTINGS, ETC.

# AESSEAL® - Buffer Fluid Systems for Double Seals

The BUFFER RESERVOIR™ is an easily installed, low-cost, low-maintenance sealant system for use with Double Mechanical Seals on crystallizing, sedimentary or hot products.

The buffer fluid bathes the seal faces, preventing evaporation or overheating. This greatly increases the expected life of seals on duties such as starch, sugar solutions, caustics, beer wort, hot water (to 80°C (176°F)) and many others.

When purchased as a complete system, flexible hoses, float valve and all fittings are supplied to allow direct connection to a cold water supply, thus eliminating the need for periodic topping up.

## SPECIFICATIONS

- Maintenance friendly - can easily be disassembled and re-assembled within minutes.
- No pump required - fluid circulates through seal by thermosyphon (convection) action.
- Self filling - connect to the plant water line and the water level within the vessel is maintained.
- Modular - can easily be upgraded using AESSEAL® modular parts.
- Environmentally safe - valve will not allow buffer fluid to flow back into the supply line.



- Reservoir**
- Stainless Steel, finished in white powder coat.
  - 10 litres (2.64 galls (US) ) nominal capacity
  - 1/2" NPT (F) connections for seal feed and return hoses.
- Hose**
- 3m (10ft) by 12mm (1/2") flexible nylon hose.
- Fittings**
- Nickel-plated brass push in type.
- Float Valve**
- 'Torbeck' type, WRC approved.
  - 1/2" BSP(M) connection.
- Mounting Details**
- 4 x 11mm diameter holes (7/16")
  - 57.2mm x 150mm (2.25"x 5.91").
- Pedestal (Optional)**
- Height 1500mm (59").
  - Baseplate 200 x 200mm (8" x 8").
  - 304L Stainless Steel.

### Options Available

- Water filter (in-line)
- Sight Glass
- Instrumentation
- Ball Valve Option
- Circulating Pump
- Vertical stand / pedestal

### Further Benefits

- Modular design
- Upgradeable to a fully pressurised system

### 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.



AESSEAL® Seals and Systems are ATEX compliant.

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

- GUARD YOUR EQUIPMENT
- WEAR PROTECTIVE CLOTHING



**WARNING**

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