

# E8 Series Seal Support Reservoir

Liquid lubricated dual mechanical seal reliability is vitally dependent on the continuous supply of clean, cool buffer or barrier fluid. E8 Series seal support reservoirs are well-suited to maintain an optimum environment for Plan 52 unpressurized and Plan 53A pressurized dual mechanical seals.

E8 Series seal support reservoirs are an effective and versatile element of a dual mechanical seal system. Configurable with many popular features, the 11-liter reservoir is easy to install and maintain with water or other lubricating fluids. The E8 Series is available for a variety of industry services, including applications in chemical, corn processing, pulp and paper, municipal water and sewage.

## Design parameters

<b>Material</b>	304 stainless	316 stainless
<b>Pressure</b>	11 bar (160 psi)	20 bar (290 psi)
<b>Temperature</b>	-29°C to 100°C (-20°F to 212°F)	-29°C to 200°C (-20°F to 392°F)
<b>Volume</b>	11 liter (3 gal)	11 liter (3 gal)
<b>PED (2014/68/EU)</b>	Cat II	Cat III

## Standard and optional equipment

Component	Plan 52	Plan 53A
<b>Level indicator</b>	standard	standard
<b>Ball valve (2)</b>	standard	standard
<b>Orifice</b>	standard	none
<b>Pressure switch</b>	optional	optional
<b>Level switch</b>	optional	optional
<b>Cooling coil</b>	optional	optional
<b>Stand kit</b>	optional	optional
<b>Hose kit</b>	optional	optional
<b>Hand pump</b>	optional	optional

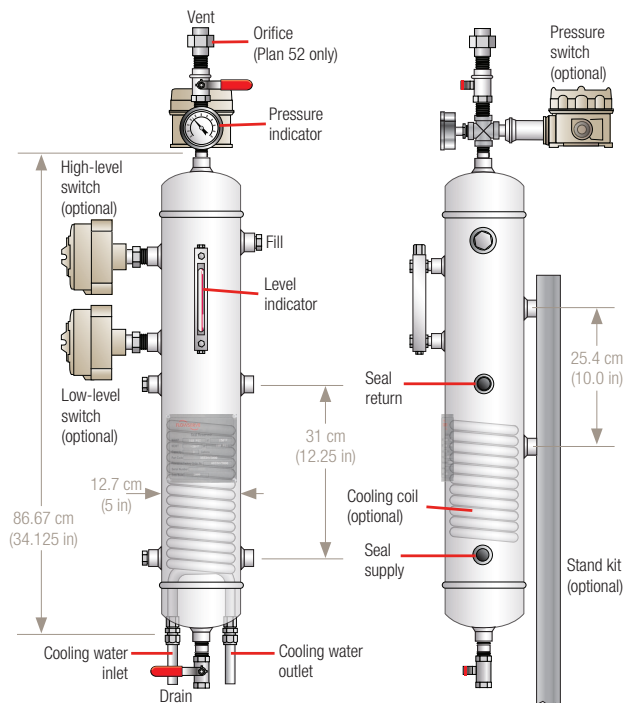


## Piping plans and applications

Piping Plan	Description	Purpose	Application
<b>Plan 52</b>	Unpressurized buffer fluid circulation with an orifice in the vent.	Reduces opportunity for process emissions by allowing the outboard seal to act as a safety backup.	Critical process fluids in applications that don't require complete isolation but the added safety of an installed spare seal is advantageous. Used in general industry services.
<b>Plan 53A</b>	Pressurized barrier fluid circulation set 1–2 bar above process pressure.	Barrier fluid effectively isolates the process fluid for zero process emissions operation.	Hazardous, toxic, aggressive and dirty fluids that are not allowed to leak to the atmosphere. Used in chemical and general industry services.

## Features

- 11-liter reservoir in 304 or 316 SS contains enough buffer/barrier fluid for sufficient seal face lubrication and heat transfer (standard)
- Fluid level indicator in aluminum or 316 SS provides a quick visual measure of fluid level (standard)
- Cooling coil in 316 SS controls the reservoir temperature by means of heating or cooling with water to maintain the optimum seal operating temperature (optional)
- Pressure indicator with stainless steel case and 62 mm (2.4 in) dial accurately displays barrier/buffer pressure in the reservoir (standard)
- Pressure switch triggers a low-pressure alarm if the reservoir pressure decreases on a Plan 53A system or a high-pressure alarm if the reservoir pressure increases on a Plan 52 system (optional)
- Ultrasonic level switches monitor the barrier/buffer fluid level and activate a low or high level alarm, alerting the operator to adjust the fluid level (optional)
- Stand kit of durable painted carbon steel securely supports the reservoir system and accommodates mounting of the optional hand pump (optional)



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