



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

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

Standard and optional equipment

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

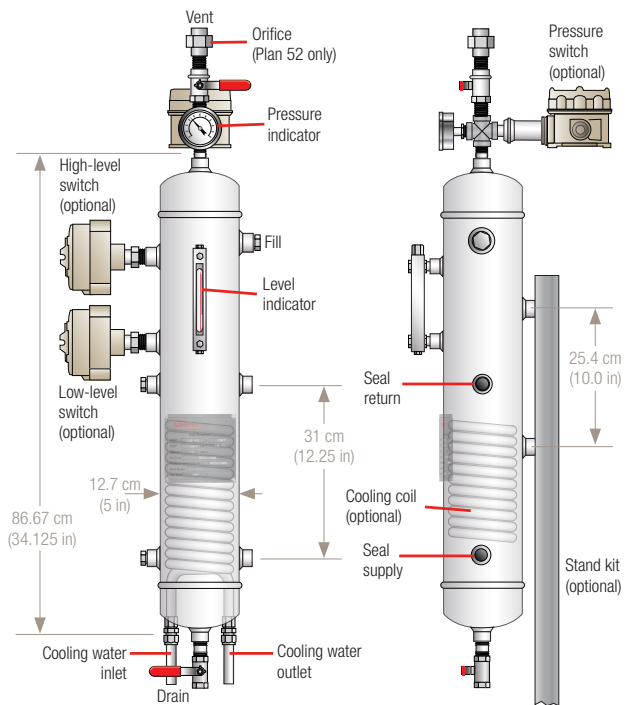


Piping plans and applications

Piping Plan	Description	Purpose	Application
Plan 52	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.
Plan 53A	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)



Headquarters
 Flowserve Corporation
 5215 North O'Connor Blvd.
 Suite 2300
 Irving, Texas 75039-5421 USA
 Telephone: +1 937 890 5839

USA and Canada
 Kalamazoo, Michigan USA
 Telephone: +1 269 381 2650

Europe, Middle East, Africa
 Etten-Leur, The Netherlands
 Telephone: +31 765 028 200

Asia Pacific
 Singapore
 Telephone: +65 6544 6800

Latin America
 Mexico City
 Telephone: +52 55 5567 7170

SSFLY000030 (EN/AQ) August 2019
 ©2019 Flowserve Corporation. All rights reserved.
 This document contains registered and unregistered trademarks of Flowserve Corporation. Other company, product, or service names may be trademarks or service marks of their respective companies.