

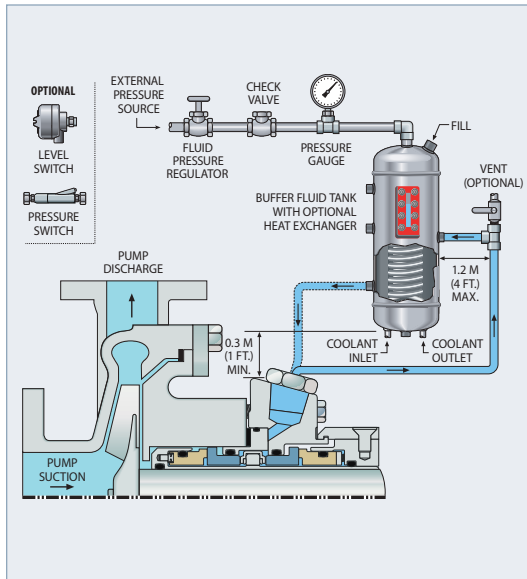
PLAN 53A

Circulation with Pressurized External Barrier Fluid Tank

What Dual seal arrangement. A pressurized, external reservoir provides clean fluid to the inboard and outboard seals. Barrier fluid pressure is higher than seal chamber pressure. A heat exchanger can be used when specified to cool or heat the barrier fluid.

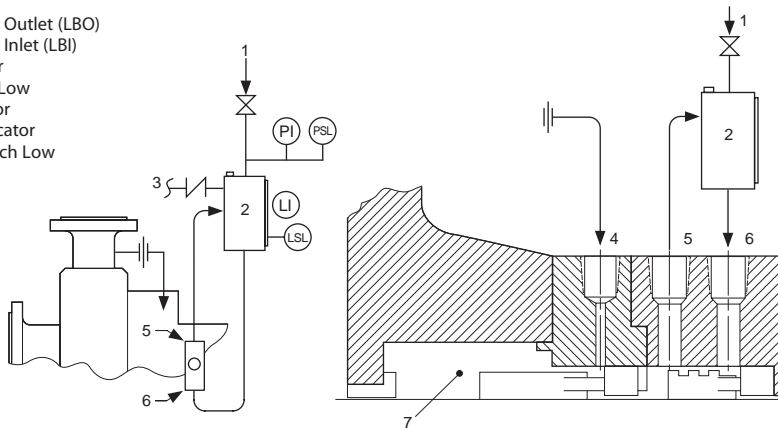
Why To manage the temperature and lubricate the inboard and outboard seal faces; to provide clean lubrication to the inboard and outboard seal faces; to protect against solids penetrating and damaging the inboard seal faces.

When Used with hazardous products and/or products with high solids content; sealing process fluids with low vapor pressure; Used with low viscosity, non-lubricating process fluids.



KEY

- 1 — From External Pressure Source
- 2 — Reservoir
- 3 — Make-up Buffer Fluid
- 4 — Flush (F)
- 5 — Liquid Barrier Outlet (LBO)
- 6 — Liquid Barrier Inlet (LBI)
- 7 — Seal Chamber
- LSL — Level Switch Low
- LI — Level Indicator
- PI — Pressure Indicator
- PSL — Pressure Switch Low



Drawing reproduced from ANSI/API Standard 682, Third Edition, September 2004, courtesy of the American Petroleum Institute.