

PLAN 52

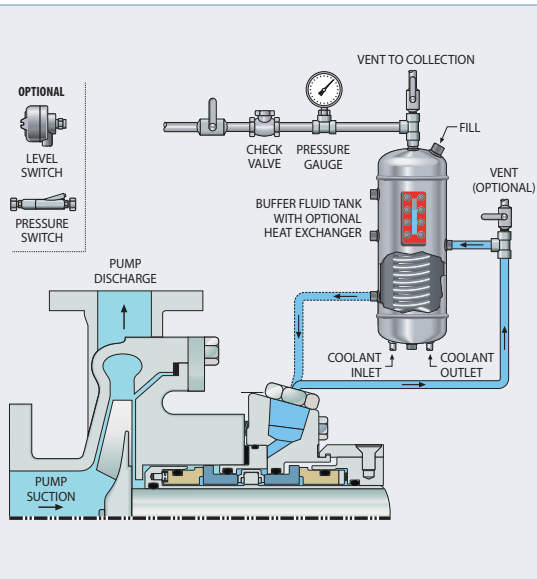
Circulation with External Buffer Fluid Tank

What Dual seal arrangement. External reservoir provides clean buffer fluid to the seal at a pressure lower than seal chamber pressure. A heat exchanger can be used when specified to cool the buffer fluid.

Why To cool and lubricate the outboard seal; to provide a containment seal in case of inboard seal failure.

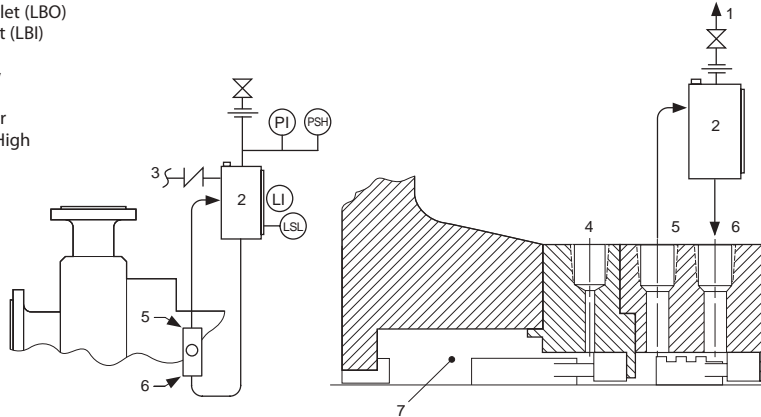
When Used with hazardous products. Not ideal for services where products have high solids content or low vapor pressure.

Note: Tank should be installed at least 0.3 M (1 ft.) above seal and at most 1.2 M (4 ft.) away. Piping should be continuously ascending with minimized bends.



KEY

- 1 — To Collection System
- 2 — Reservoir
- 3 — Make-up Buffer Fluid
- 4 — Flush (F)
- 5 — Liquid Buffer Outlet (LBO)
- 6 — Liquid Buffer Inlet (LBI)
- 7 — Seal Chamber
- LSL — Level Switch Low
- LI — Level Indicator
- PI — Pressure Indicator
- PSH — Pressure Switch High



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