



Shandilya Mechanical Seal Support System.

API Plan 52 and 53A for Mechanical Seal Support System

Design Features

- Full Design Compliance with API Standard 682 Third Edition, eliminates the need to provide detailed purchased specification.
- The vessels are equipped with all essential connections for fitting additional components. For ease of dismantling and cleaning the pot is dished end at one end and flanged end at other. The modular system allows vessels to be combined with a wide range of system components such as, level switch/transmitter, pressure switch/transmitter, base frame, etc.
- Circulation in accordance with API 682 / ISO 21049
- Robust Construction Providing life cycle requirements of API

How It Works..?

The Thermo Siphon system performs all the basic functions of a buffer/barrier system for the operation of double seals:

- to pressurize the seal chamber
- leakage compensation
- buffer/barrier fluid is circulated by thermo siphon effect or forced circulation system
- to cool the seal
- to selectively absorb product leakage and prevent dry running (tandem arrangement)

Use compressed air or Nitrogen for pressurization; pressurization is monitored by a pressure switch. The incorporated level switch gives a signal whenever the level of buffer/barrier fluid is too low.

Minimum Design Features:

- Liquid Volume at NLL (Normal Liquid Level): 20 liters (5 gallon)
- Reservoir Construction: 8" Sch 40 Pipe for 20 liter (5 gallon) Capacity.
- LED Based Magnetic Level Indicator
- 316L Stainless Steel Construction for reservoir and any Piping/Components welded directly to reservoir.
- Seal Connections: 18mm (0.75in) minimum for shaft size larger than 60mm (2.5in)
- Internal Cooling Coil: SS316L Seamless Tubing
- Pressure Switch and Pressure Gauge: High Pressure alarm for Arrangement 2 Seals, Low pressure alarm for Arrangement 3 seals.
- Low Level Switch.

Advantages

- Operating limits up to 50 bar / 200°C: suitable for a wide range of demanding operating conditions.
- Day and Night visibility with LED Based Magnetic Level Indicator for optimum visual level monitoring even from the longer distance and wide angle.
- Modular system: combination with a wide range of system components possible.
- Dismantling and cleaning of the pot is possible.

