

API Plan 53A Seal Support System (Pressurized Barrier Fluid Reservoir)

TYPE : API PLAN 53A

Reservoir & Coil :

- SS 316 / SS 316L / Carbon Steel / Duplex SS / Alloy Construction

Tubing & Valves :

- SS 316 / Monel / Hastelloy C-276 / Duplex SS / Needle, Block, Check & Drain Valves

Instrumentation :

- Pressure Gauge / Level Gauge / Pressure & Level Switches / Transmitters / Alarms

Operating Limits :

Size : On request

Speed : Seal dependent

Pressure : Barrier at least 1.4 bar (20 psi) above seal chamber

Temperature : On request; barrier fluid and elastomer dependent

Application :

- Mixers, Agitators, Reactors & Vacuum Services
- Heat-Transfer Fluid Services
- Refinery & Petrochemical Light Hydrocarbons
- Hazardous, Toxic & Odorous Chemicals
- Dirty, Abrasive or Polymerizing Fluids
- Services Where Leakage to Atmosphere Is Not Allowed



API Plan 53A Seal Support System (Pressurized Barrier Fluid Reservoir)

Features :

- **Pressurized Dual-Seal Support** with clean barrier fluid to the inboard faces.
- **Pumping-Ring Circulation** without an external circulation pump.
- **Leakage Directed to the Process**, not to atmosphere.
- **Instrumentation-Ready** for pressure and level alarms.
- **Dismantlable Reservoir** for cleaning and inspection.
- **Clean, Compatible Barrier Fluid** for long seal life.

➤ **DIMENSIONS AND CONNECTIONS ON REQUEST**