

API PLAN 32

Seal Support System



Product Description

API Plan 32 is a piping arrangement containing strainers, pressure control valve, flow meter, pressure gauge, temperature gauge, check valve along with pipe fittings.

Objective

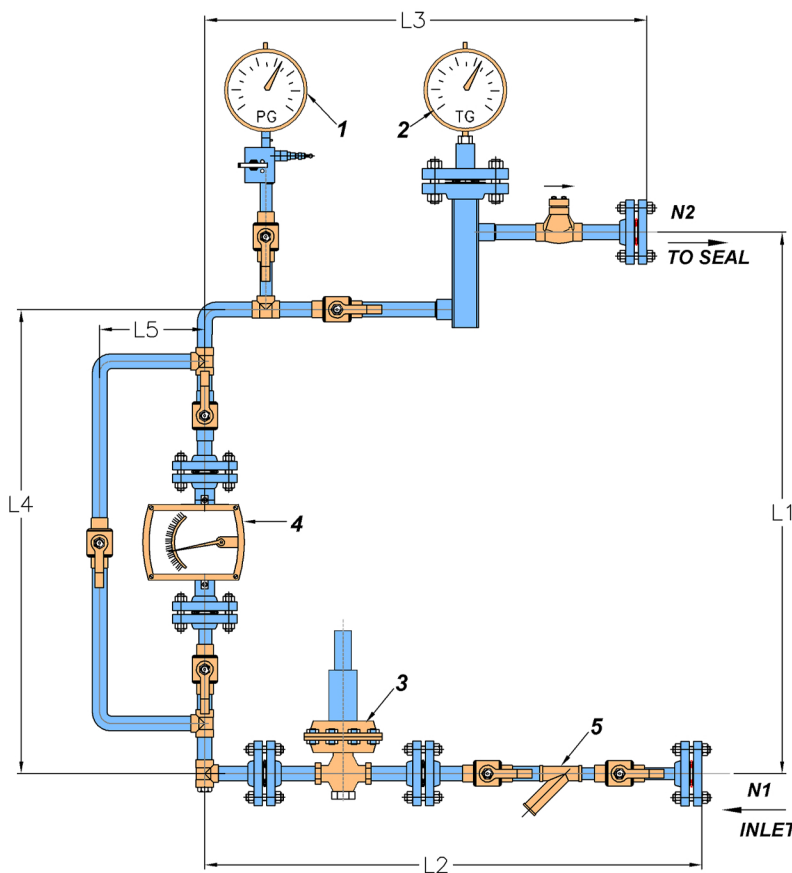
- 1.API Plan 32 is used to provide a cool external flush to the remove the solid particles past the throat bush back to pump suction.
- 2.Plan 32 in conjunction with close-clearance throat bush helps in isolating the solid particles to reach the seal faces
- 3.Plan 32 is used when a process stream is difficult to condition is a way that will provide adequate cooling and lubrication to the mechanical Seals.

Advantages

- 1.Increased Seal life as only clean process liquid is available to the seal faces
- 2.Improved MTBF for the pump system
- 3.Solids from the process liquid is removed ensuring clean environment around the Mechanical Seal Faces.
- 4.Product temperature is reduced which enhances the performance of Mechanical Seal
- 5.With by-pass line for strainers and flow-meters, they can be repaired while plan 32 in operation itself.

Technical Features

- 1.Throat bush design is critical so as to ensure minimum velocity of 32 feet/Sec for the plan 32 external fluid.
- 2.Pressure of plan 32 liquid to be maintained at higher pressure than box pressure, preferably 2 Kg/Cm2 above box pressure.
- 3.Check valve or Non-Return valve in the Seal inlet line to prevent reverse flow of the process liquid into the plan 32 system.
- 4.Plan 32 employs PCV to ensure downstream pressure required for Mechanical Seals
- 5.Optional Heat exchanger may be employed if the variable external clean liquid is at higher temperature
- 6.Use of pressure transmitter in the piping can be used for monitoring the seal failures
- 7.Employment of strainer ensures clean liquid availability to the mechanical seal
- 8.Flow - meter used in the line can be used to know the flow-rate of the plan 32 liquid



Item	Description
1	Pressure gauge
2	Temperature gauge
3	Sapcv
4	Flow Meter
5	Y- Strainer