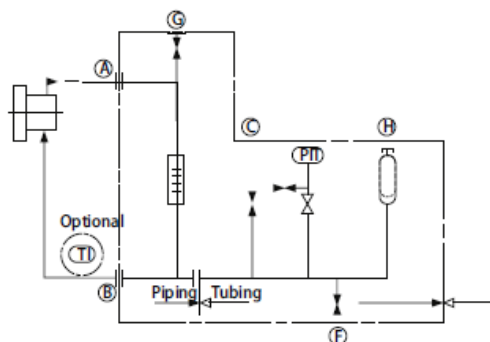
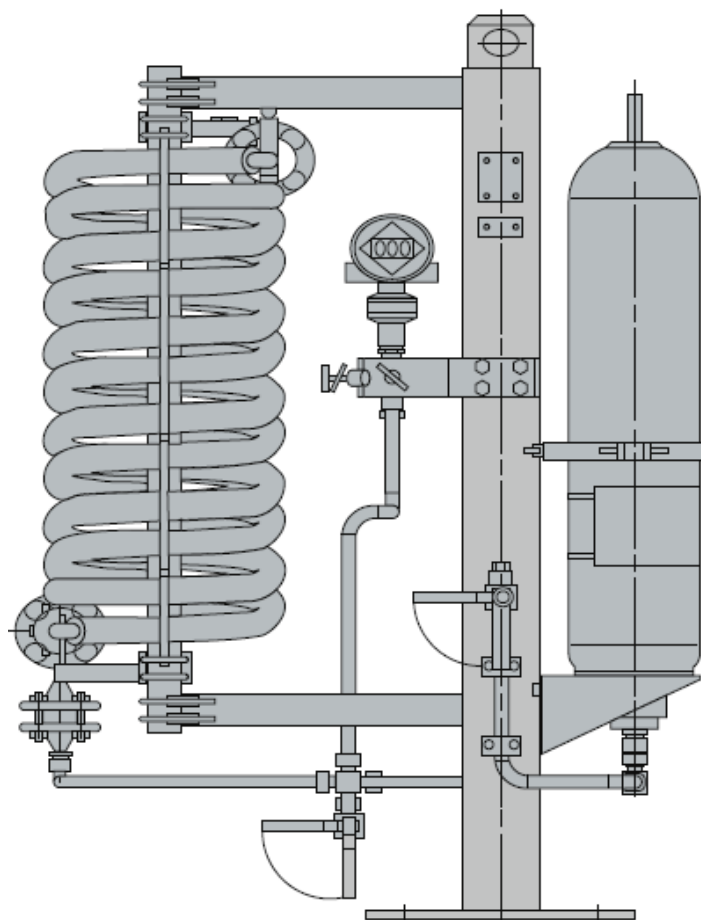


Installation, Details, Options



Operating and installation diagram for a SBF (Plan 53B).

- A From mechanical seal
- B To mechanical seal
- C Fill
- F Drain
- G Vent
- H N2 Precharge



Description

- Pressurized barrier system (closed circuit) for use in seal systems with high pressures and/or for hazardous/environmentally harmful processes.
- The SBF (Plan 53B) range is available with a pressure accumulator, cooler (finned tube, water or air cooler with fan) and a wide range of instruments.
- Circulation in accordance with API 682 / ISO 21049: Plan 53B

Technical Features

- Available with finned tube, water or air coolers with fan.
- Barrier pressure is created without any need for connection to a nitrogen supply.
- Modular system: combination with a wide range of system components/instruments possible.
- Pressurization is by means of a pre-loaded bladder accumulator.
- 5. The nitrogen is separated from the barrier medium by membranes in the accumulator: nitrogen cannot get into the barrier medium or process medium.

Functional Description

- The SBF is designed to perform the following functions of a barrier system:
 - to pressurize the barrier chamber
 - leakage compensation
 - to cool the seal
- Pressurization (> process pressure) prevents the process medium from getting into the barrier circuit or the atmosphere.
- Pressurization is supplied by a pressure accumulator which is pre-loaded with nitrogen.
- Circulation in the barrier circuit takes place by the thermosiphon principle or by forced circulation, e.g. with a pumping screw.

Standards

PED 97/23 EC (Design and production in accordance with EU Pressure Equipment Directive)
ASME VIII, Div. 1 (Design, calculation and production)

Industrial Applications

-  Chemical industry
-  Refining technology
-  Oil and gas industry
-  Petrochemical industry