

SBF6000

Description

- The Stramek Thermosiphon systems of the SBF6000 range meet all the requirements to supply mechanical seals in accordance with the API 682 guidelines.
- The vessels are equipped with all essential connections for fitting additional components. The range is available in two standard vessel sizes (shown: SBF6000) with dished heads; a version which can be dismantled is also available as an option. The modular system allows the SBF6000 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: Plan 52, Plan 53A

Technical Features

- A version which can be dismantled is also available as an option: for optimum and simple cleaning of the vessel interior
- Modular system: combination with a wide range of system components possible
- Operating limits up to 50 bar / 200°C: suitable for a wide range of demanding operating conditions
- Robust design with weld-pad type sight-glass for optimum visual level monitoring




Functional Description

- The SBFS system performs all the basic functions of a buffer/barrier system for the operation of double seals:
 - to pressurize the buffer chamber
 - leakage compensation
 - buffer/barrier fluid is circulated by thermosiphon 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 issues a signal whenever the level of buffer/barrier fluid is too low

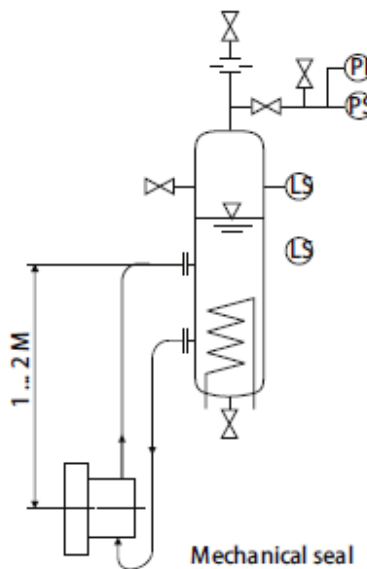
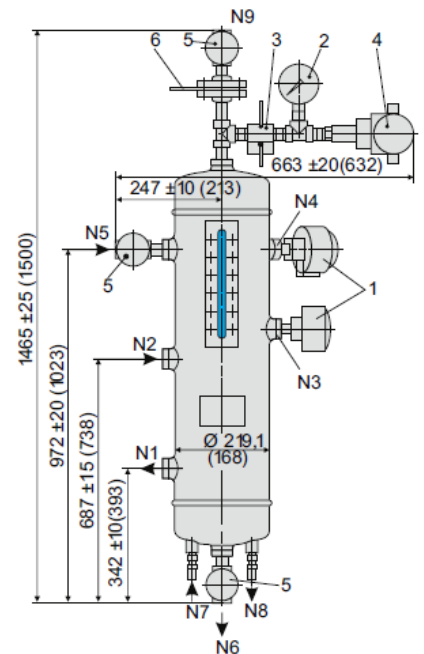
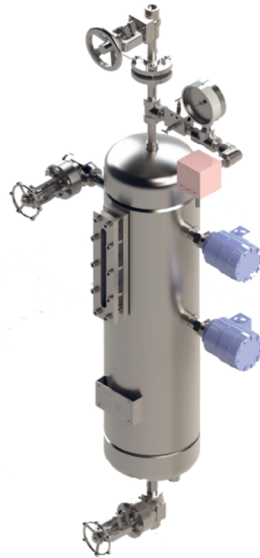
Standards

PED 97/23 EC
ASME VIII, Div. 1

Industrial Applications

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

Installation, Details, Options



- Operating and installation diagram for a SBF 6000 system
- The SBF vessel must always be installed higher than the mechanical seal
- The buffer/barrier fluid flows via the return pipe into the vessel and is cooled
- The exchange of fluid takes place by the thermosiphon principle or by forced circulation, e.g. with a pumping screw
- Connection pipes to the seal should be designed with as little resistance as possible

Thermosiphon System (API Plan 52)

Item	Description	Item	Description
N1	to the mechanical seal	1	Level switch
N2	from the mechanical seal	2	Manometer
N3	Level switch	3	Manifold
N4	Level switch	4	Pressure switch
N5	Filling connection	5	Shut-off valve
Bottom		6	Orifice
N6	Drain		
N7	Cooling water IN		
N8	Cooling water OUT		
Cover			
N9	Connection to flare		

Dimensions for BFS6002 / BFS6003 values in brackets for SBF6000 / SBF6001