

2221

DOUBLE MECHANICAL SEALS FOR SULZER PROCESS PUMPS SPECIAL SOLUTION FOR AHLSTAR PUMPS



► TECHNICAL FEATURES

- Stationary compensating seal end face with double-balanced design, ensuring stable operation even under pressure fluctuations.
- Single set of multi-spring compensation structure, providing more uniform compensating force on the seal face.
- Double mechanical seal with single-set spring configuration and piston-type sliding O-ring design, featuring large axial runout that does not affect spring load.
- Modular design with standardized universal components, facilitating reduced maintenance costs.
- The spring is not in contact with the medium, ensuring a long service life of the mechanical seal.
- Positioned by the shaft shoulder for easy installation, which reduces the risk of human error. No measurement is required during installation.
- Inlaid ring surface structure: the seal ring has no drive pin, avoiding seal face rupture during startup.

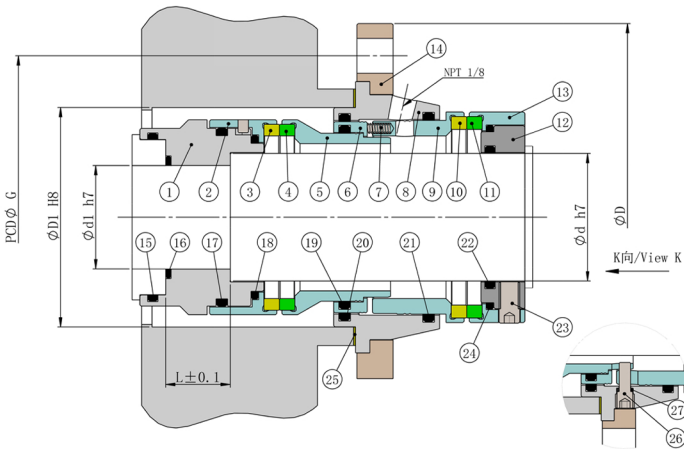
► APPLICABLE CHAMBERS TYPE

Dimensions Compliant with Sulzer APP Pumps, Covering Shaft Diameters Including 30, 40, 50, 60, 80, 90.

► TYPICAL INDUSTRIAL APPLICATIONS

The 2221 Series is a double-balanced mechanical seal, specifically designed for harsh applications in the pulp and paper industry as well as stock applications. This seal is typically used in pumps handling abrasive and environmentally hazardous liquids in digesters, evaporation, and causticizing facilities of pulp mills. Engineered as a pressurized double mechanical seal, its double-balanced feature allows it to be utilized as an unpressurized double-ended unit. The Type 2221 seal is exclusively designed for Sulzer's APP Series pumps.

► PRODUCT STRUCTURE DIAGRAM



► RECOMMENDED PIPING PLANS

Between seals	52, 53A, 53B, 53C, 54
---------------	-----------------------

► PERFORMANCE CAPABILITIES

Seal Chamber Pressure	≤ 20 bar
Buffer Chamber Seal Water Pressure	≤ 15 bar
Temperature	-20 °C ~+ 180 °C
Sliding velocity	≤ 20 m/s
Material Options	316SS, Duplex Steel, etc.
Suitable Media	Water, various types of oils, solvents, pulp, and other media

► THE COMPARISON CHART OF STANDARD MATERIAL

NO.	Name	Material
1	Limit Sleeve	316SS
2	Internal Rotating Seat	316SS
3	Internal Rotary Face	SSIC/RBSIC
4	Internal Stationary Face	SSIC/RBSIC
5	Internal Stationary Seat	316SS
6	Spring Plate	316SS
7	Spring	316SS
8	Gland	316SS
9	External Stationary Seat	316SS
10	External Stationary Face	SSIC/RBSIC
11	External Rotary Face	SSIC/RBSIC
12	Clamp Ring	316SS
13	External Rotating Seat	316SS
14	Gland Insert	316SS
15,16,17	O-Ring	EPR/Viton/Aflas/Kalrez
18,19,20	O-Ring	EPR/Viton/Aflas/Kalrez
21,22,24	O-Ring	EPR/Viton/Aflas/Kalrez
23	Drive Screws	316SS
25	Gasket	PTFE
26	Clip Screws	316SS
27	O-Ring	EPR/Viton/Aflas/Kalrez

FBU SEALING TECHNOLOGY (SUZHOU) CO.,LTD

No.183, Yinhe Road, High Tech Industrial Development
Zone Changshu Suzhou, Jiangsu, 215533

+86-512-57011188
sale@fbuseals.com
www.fbuseals.com

FBU is certified to API Q1,
ISO 9001, ISO 14001

