

SNSD

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



TECHNICAL FEATURES

- Stationary compensating seal end face with double-balanced design, ensuring stable operation even under pressure fluctuations.
- Single-set wave spring compensation structure, providing more uniform compensating force on the seal face.
- Double mechanical seal with single-set wave 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.
- Preassembled seal without a gland, requiring pre-installation with the SNS pump cover.
- No integral flush ports; seal face flushing requires using the flush ports on the Sulzer pump cover.

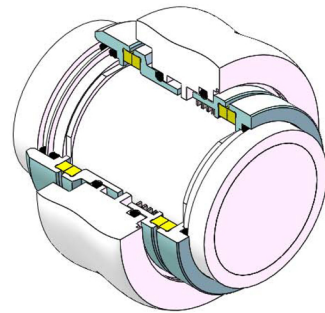
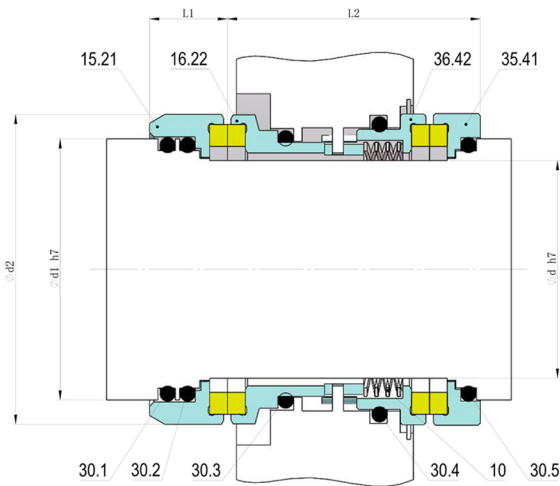
APPLICABLE CHAMBERS TYPE

Dimensions Compliant with Sulzer SNS Pumps, Covering Shaft Diameters Including 30, 40, 50, 60, etc.

TYPICAL INDUSTRIAL APPLICATIONS

The SNSD 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 SNSD seal is exclusively designed for Sulzer’ s SNS Series pumps.

PRODUCT STRUCTURE DIAGRAM



RECOMMENDED PIPING PLANS

Between seals	52, 53A, 53B, 53C, 54
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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
15.21	Rotary Face	SSIC
16.22	Stationary Face	SSIC
36.42	Stationary Face	SSIC
35.41	Rotary Face	SSIC
30.1	O-Ring	FKM/EPDM/Aflas
30.2	O-Ring	FKM/EPDM/Aflas
30.3	O-Ring	FKM/EPDM/Aflas
30.4	O-Ring	FKM/EPDM/Aflas
10	Spring	316SS
30.5	O-Ring	FKM/EPDM/Aflas

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