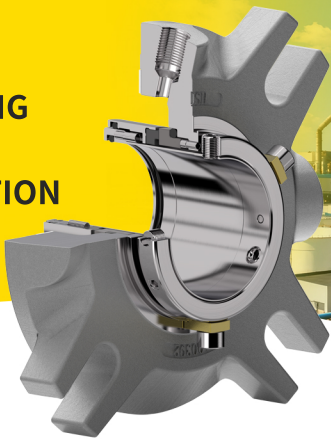


ESMA

ECONOMIC SINGLE END SEALING
SERIES THE ECONOMICALLY
EFFICIENT SINGLE SEAL SOLUTION
FOR CENTRIFUGAL PUMPS



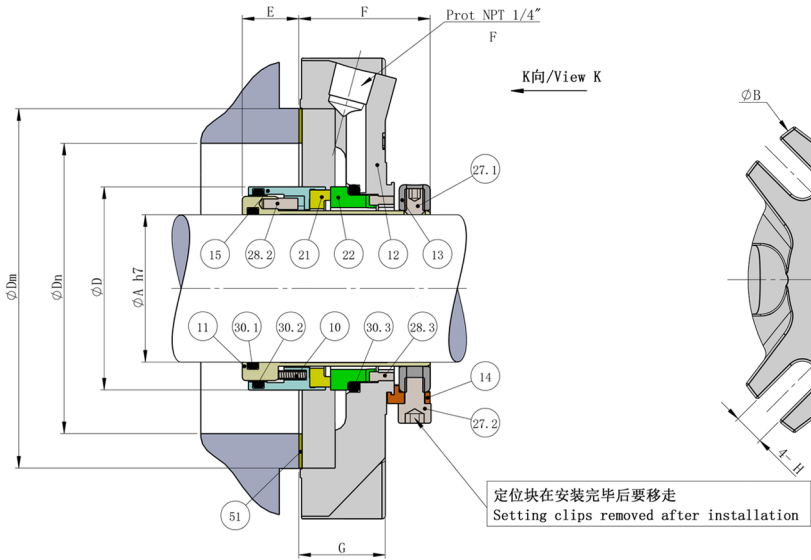
► TECHNICAL FEATURES

- Rotary pusher cartridge seal.
- Hydraulically balanced seal faces to reduces heat generation, reduces energy consumption, and extends seal life.
- Modular design, standardization of universal components, allows maximum flexibility and delivery performance.
- Multi-Spring Design, springs are placed out of the product media to eliminate clogging and prolong the seal life.

► PERFORMANCE CAPABILITIES

Shaft diameter	1.375 "to 3.625" (34.9mm to 66.67mm)
Pressure	≤ 15 bar
Temperature	-20 ° C ~+ 120 ° C
Sliding velocity	≤ 20 m/s

► PRODUCT STRUCTURE DIAGRAM



► APPLICABLE CHAMBERS TYPE

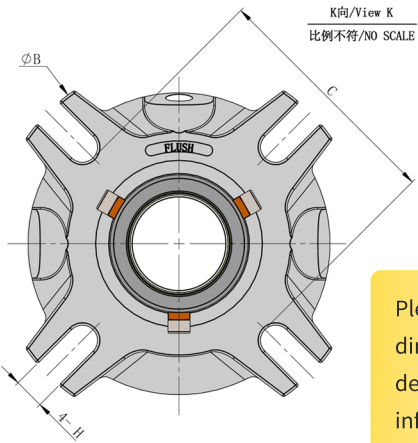
- Suitable for ANSI standard chambers
- Complies with ASME B73.1 and B73.2 standard pump chamber dimensions
- Modular cartridge design, provide sealing solutions for general applications
- Dimensions range from 1.375 "to 3.625" (34.9mm to 66.67mm)

► TYPICAL INDUSTRIAL APPLICATIONS

- Chemical and Petrochemical Industry
- Oil, Gas and Energy Sector
- Water Treatment and Environmental Protection Engineering
- Pharmaceutical and Food & Beverage Industries
- Hazardous Chemicals and Specialized Industries
- Marine and Offshore Engineering

► RECOMMENDED PIPING PLANS

Process side	01, 02, 03, 11, 12, 13, 14, 21, 22, 31, 32, 41
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Please refer to the ESMA dimensional sample for detailed dimensional information.

<https://www.fbuseals.com/ESMA-Single-Cartridge-Mechanical-Seal-for-Chemical-Pumps-pd521700748.html>

► THE COMPARISON CHART OF STANDARD MATERIAL

NO.	Name	Material
11	Shaft Sleeve	316SS
15	Rotating Seat	316SS
21	Rotary Face	Carbon/SSIC/TC
22	Stationary Face	SSIC/TC
12	Gland	316SS
13	Clamp Ring	316SS
30.1,30.2	O-Ring	EPR/Viton/Aflas/Kalrez

NO.	Name	Material
30.3	O-Ring	EPR/Viton/Aflas/Kalrez
51	Gasket	PTFE
10	Spring	Alloy 276
27.1	Drive Screw	316SS
14	Setting Clip	Brass
27.2	Clip Screw	316SS
28.2,28.3	Pin	304SS

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

