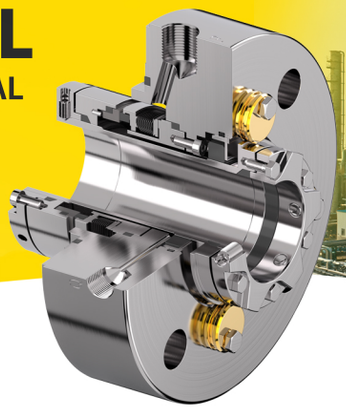
APOG-CSFL

SINGLE CARTRIDGE SEAL
CATEGORY 2/3
TYPE C
1CW-FL





TECHNICAL FEATURES

- Primarily utilized to suit the requirements of the Oil and gas industry application defined by API682.
- The sealing configuration is 1CW-FL, Contacting single wet seal with a floating throttle bushing.
- The combination of static bellows and flexible graphite can effectively cope with various high-temperature or low-temperature working conditions.
- The sealing adopts distributed flushing, which can evenly cool the friction surface.
- Static bellows design exhibits higher stability under high-speed operating conditions. Additionally, it features less mechanical wear and a longer seal service life.
- Equipped with Quench and Drain environmental ports.

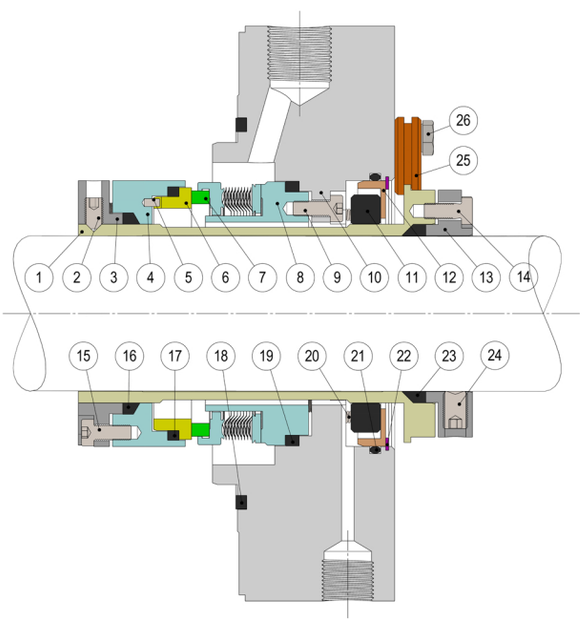
RECOMMENDED PIPING PLANS

Process side	01, 02, 03, 11, 12, 13, 14, 21, 22, 23, 31, 32, 41
Atmospheric side	51, 61, 62, 65A, 65B

PERFORMANCE CAPABILITIES

Shaft diameter	20 ~110 mm (0.79" ~ 4.33")
Pressure	⩽ 16 bar
Temperature	-40 ° C ~+ 400 °C
Sliding velocity	⩽ 30 m/s

PRODUCT STRUCTURE DIAGRAM



PRODUCT DESCRIPTION

- API 682 Category 2/3, Type C, Arrangement 1
- Single seal configuration
- Balanced design
- Independent of direction of rotation
- Cartridge unit
- Stationary metal bellows

TYPICAL INDUSTRIAL APPLICATIONS

- API 610 pumps
- Refining technology
- Oil and gas industry
- Petrochemical industry
- Chemical industry
- Power plant technology
- LPG plants
- Process pumps

THE COMPARISON CHART OF STANDARD MATERIAL

NO.	Name	Material
1	Sleeve	316SS/Hast.C/D2205/D2507/904L
2	Setting Screw	A2-70
3	Clamp Ring	316SS/Hast.C/D2205/D2507/904L
4,8	Metallic Bellows	AM350/Hast.276.Hast.718
5	Pin	316SS
6	Rotary Face	Carbon/SIC/TC
7	Stationary Face	Carbon/SIC/TC
9,14,15	Clamp Screws	A2-70
10	Gland	316SS/Hast.C/D2205/D2507/904L
11	Bush Ring	Carbon
12	Bush Ring Seat	316SS
13	Clamp Ring	316SS
16,17,18	Graphite Gasket	Graphite
19	Graphite Gasket	Graphite
20	Spring	Hast.C
21	O-Ring	FKM/EPDM/Aflas/Kalrez
22	Circlip	316SS
23	Graphite Gasket	Graphite
24	Drive Screws	A2-70
25	Setting Clips	304SS
26	Clip Screws	A2-70

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