APOG-BR1FX

SINGLE CARTRIDGE SEAL
CATEGORY 1
TYPE B
1CW-FX



TECHNICAL FEATURES

- Primarily utilized to suit the requirements of the Oil and gas industry application defined by API682.
- The sealing configuration is 1CW-FX, Contacting single wet seal with a fixed throttle bushing.
- Rotary metal bellows design.
- The sealing adopts distributed flushing, which can evenly cool the friction surface.
- Implement pressure limiting.
- Equipped with Quench and Drain environmental ports.

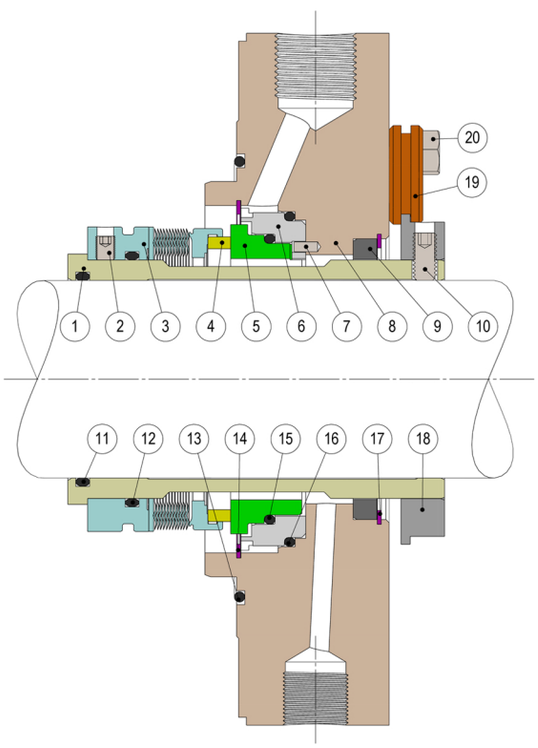
RECOMMENDED PIPING PLANS

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

PERFORMANCE CAPABILITIES

Shaft diameter	20 ~110 mm (0.79" ~ 4.33")
Pressure	⩽ 40 bar
Temperature	-40 ° C ~+ 260 °C
Sliding velocity	⩽ 20 m/s

PRODUCT STRUCTURE DIAGRAM



PRODUCT DESCRIPTION

- API 682 Category 2 and 3, Type B, Arrangement 1 seal
- Single seal configuration
- Balanced design
- Independent of direction of rotation
- Cartridge Construction
- For plain shafts
- Rotary metal bellows design
- Shrink fitted seal ring and solid stationary ring

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	Drive Screw	A2-70
3	Metallic Bellows	AM350/Hast.276.Hast.718
4	Rotary Face	Carbon/SIC/TC
5	Stationary Face	Carbon/SIC/TC
6	Deflector	316SS/Hast.C/D2205/D2507/904L
7	Pin	316SS
8	Gland	316SS
9	Bush Ring	Carbon
10	Drive Screw	A2-70
11	O-Ring	FKM/EPDM/Aflas/Kalrez
12	O-Ring	FKM/EPDM/Aflas/Kalrez
13	O-Ring	FKM/EPDM/Aflas/Kalrez
14	Circlip	316SS
15	O-Ring	FKM/EPDM/Aflas/Kalrez
16	O-Ring	FKM/EPDM/Aflas/Kalrez
17	Circlip	316SS
18	Clamp Ring	316SS
19	Setting Clips	304SS
20	Setting Screw	A2-70

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