APOG-FB

DUAL CARTRIDGE SEAL
CATEGORY 1
TYPE A
2CW-CW
3CW-FB



TECHNICAL FEATURES

- The sealing configuration is 3CW-FB, Can also be used as 2CW-CW.
- The inner sealing adopts distributed flushing, which can evenly cool the friction surface.
- The inner sealing adopts a double balanced integral ring design, which can effectively reduce the impact of pressure fluctuations and is suitable for both. arrangement 2 and arrangement 3.
- The outer sealing, combined with the Plan 52, provides additional suppression sealing effect, while the Plan 53A/53B/54 maximizes the suppression of high-risk fluid leakage into the atmosphere.
- Well perform under Arrangement 2 or Arrangement 3 operation, containment control or eliminate of process emissions.
- Equipped with Quench and Drain environmental ports.
- Adopting a fixed graphite throttle bushing.

PRODUCT DESCRIPTION

- API 682 Category 1, Type A, Arrangement 2/3
- Dual seal configuration
- Balanced design
- Independent of direction of rotation
- Cartridge construction
- Robust construction with shrink-fitted seal face
- Heavy duty solid seat design

TYPICAL INDUSTRIAL APPLICATIONS

- Oil and gas industry
- Refining technology
- Chemical industry
- Hot water
- Sour water
- Caustic soda
- Amines
- Crystallizing media
- Crude oil
- Process water

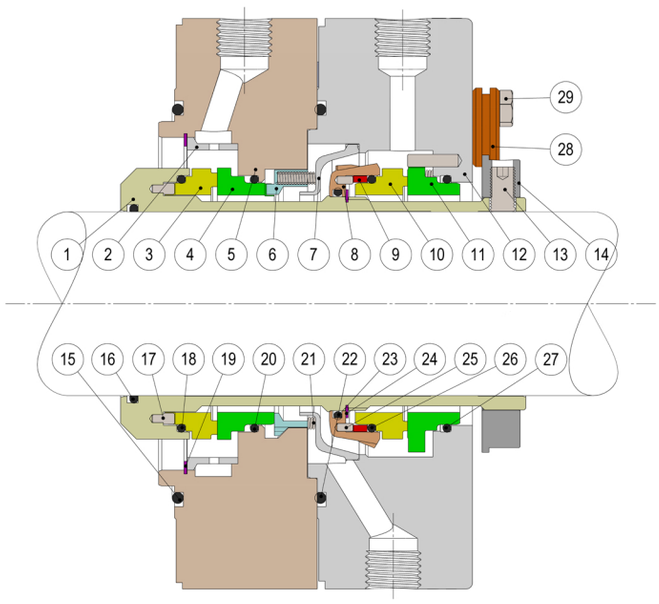
RECOMMENDED PIPING PLANS

Process side	01, 02, 03, 11, 12, 13, 14, 21, 22, 23, 31, 32, 41
Between seals	52, 53A, 53B, 53C, 54
Atmospheric side	61, 62, 65A, 65B
(Throttle bushing on request)	

PERFORMANCE CAPABILITIES

Shaft diameter	20 ~110 mm (0.79" ~ 4.33")
Pressure	⩽ 40 bar
Temperature	-40 ° C ~ +260 °C
Sliding velocity	⩽ 30 m/s

PRODUCT STRUCTURE DIAGRAM



THE COMPARISON CHART OF STANDARD MATERIAL

NO.	Name	Material
1	Sleeve	316SS/Hast.C/D2205/D2507/904L
2,7	Deflector	316SS/Hast.C/D2205/D2507/904L
3,10	Rotary Face	Carbon/SIC/TC
4,11	Stationary Face	Carbon/SIC/TC
5	Gland Insert	316SS/Hast.C/D2205/D2507/904L
6	Springs Seat	316SS
8	Rotary Holder	316SS
9	Drive Ring	A2-70
12	Gland	316SS
13	Drive Screw	A2-70
14	Clamp Ring	316SS
15,16,18	O-Ring	FKM/EPDM/Aflas/Kalrez
17,25	Pin	316SS
19,24	Circlip	316SS
20,22,23	O-Ring	FKM/EPDM/Aflas/Kalrez
21	Spring	Hast.C
26,27	O-Ring	FKM/EPDM/Aflas/Kalrez
28	Setting Clips	304SS
29	Clip Screws	A2-70

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