APOG-FBPX

DUAL CARTRIDGE SEAL
CATEGORY 2/3
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.

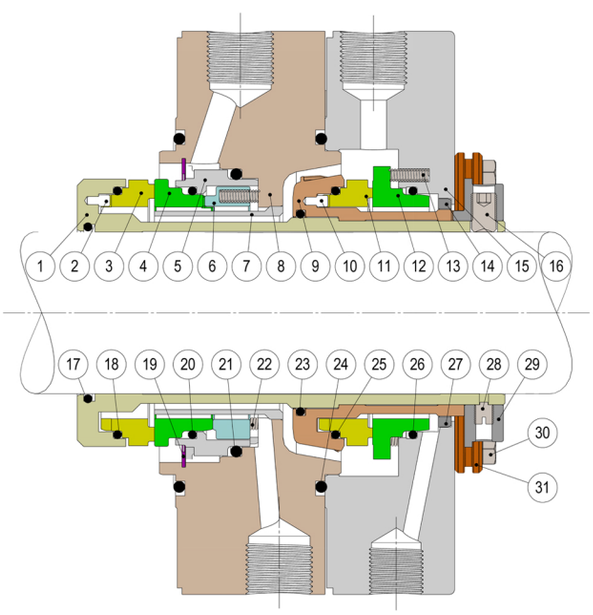
RECOMMENDED PIPING PLANS

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

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



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

- Multiphase pumps API 610pumps
- Oil and gas industry
- Refining technology
- Chemical industry
- Hot waterSour water
- Caustic soda
- AminesCrystallizing media
- Crude oil
- Process water
- Crude oil feed pumps
- Injection pumps

THE COMPARISON CHART OF STANDARD MATERIAL

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

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