



APOG-CARFBX

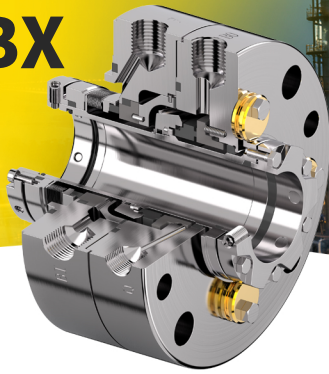
DUAL CARTRIDGE SEAL

CATEGORY 2/3

TYPE C/A

2CW-CW

3CW-FB



TECHNICAL FEATURES

- The sealing configuration is 3CW-FB, Can also be used as 2CW-CW.
- The front end is designed with a corrugated pipe, which can withstand higher temperatures of the medium.
- The stationary ring adopts structural position limiting.
- The inner sealing adopts a double balanced 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.
- Adopting a fixed graphite throttle bushing.
- Equipped with Quench and Drain environmental ports.

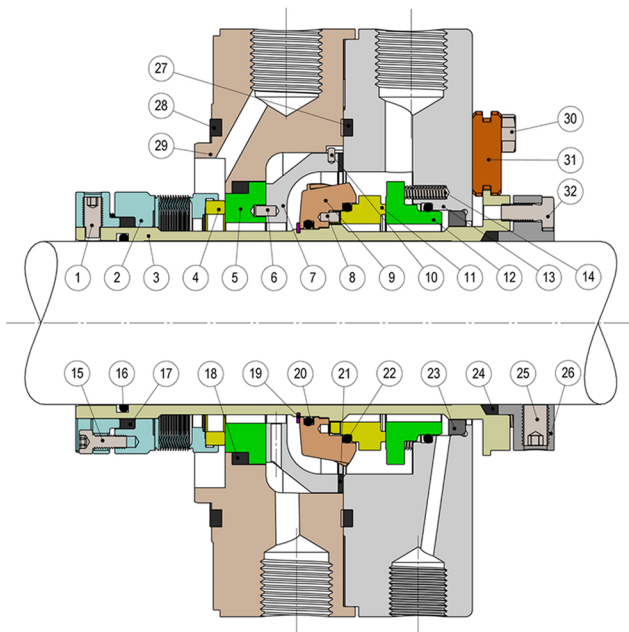
RECOMMENDED PIPING PLANS

Process side	01, 02, 03, 11, 12, 13, 14, 21, 22, 23, 31, 32, 41
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	≤ 16 bar
Temperature	-40 °C ~+ 400 °C
Sliding velocity	≤ 20 m/s

PRODUCT STRUCTURE DIAGRAM



PRODUCT DESCRIPTION

- API 682 Category 2/3, Type C/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

- Chemical industry
- Petrochemical industry
- Oil and gas industry
- Highly volatile hydrocarbons
- Toxic and hazardous media
- Media with poor lubrication properties
- Low solids content and low abrasive media
- Vertical and horizontal ANSI chemical standard pumps

THE COMPARISON CHART OF STANDARD MATERIAL

NO.	Name	Material
1,25	Drive Screw	A2-70
2	Metallic Bellows	AM350/Hast.276.Hast.718
3	Sleeve	316SS/Hast.C/D2205/D2507/904L
4,11	Rotary Face	Carbon/SIC/TC
5,12	Stationary Face	Carbon/SIC/TC
6,8,10	Pin	A2-70
7	Deflector	316SS
9	Rotary Holder	Carbon/SIC/TC
13	Gland	316SS
14	Spring	Hast.C
15	Clip Screw	A2-70
16,20,22	O-Ring	FKM/EPDM/Aflas/Kalrez
17,18,21	Graphite Gasket	Graphite
19	Circlip	316SS
23	BUSH	A Carbon
24,27,28	Graphite Gasket	Graphite
26	Clamp Ring	316SS
29	Gland Insert	316SS/Hast.C/D2205/D2507/904L
30,32	Clip Screws	A2-70
31	Setting Clips	304SS

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

