



APOG-CRFB

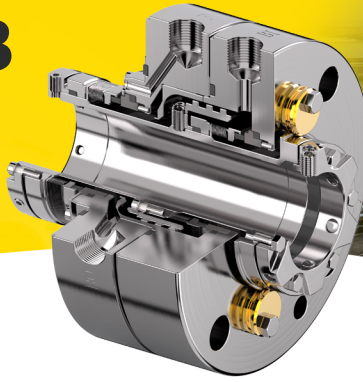
DUAL CARTRIDGE SEAL

CATEGORY 2/3

TYPE C

2CW-CW

3CW-FB



TECHNICAL FEATURES

- Primarily utilized to suit the requirements of the Oil and gas industry application defined by API682.
- Both inner and outer seals adopt a design combining flexible graphite and metal bellows, which maximally ensures reliability under high and low temperature operating conditions.
- Under high and low temperature operating conditions, the special pump efficiency ring design can maximize the dissipation of heat generated by the front-end medium.
- The stationary ring adopts structural position limiting.
- Pumping screw for media with higher viscosity also available.
- 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.
- Rugged design for long operating life.

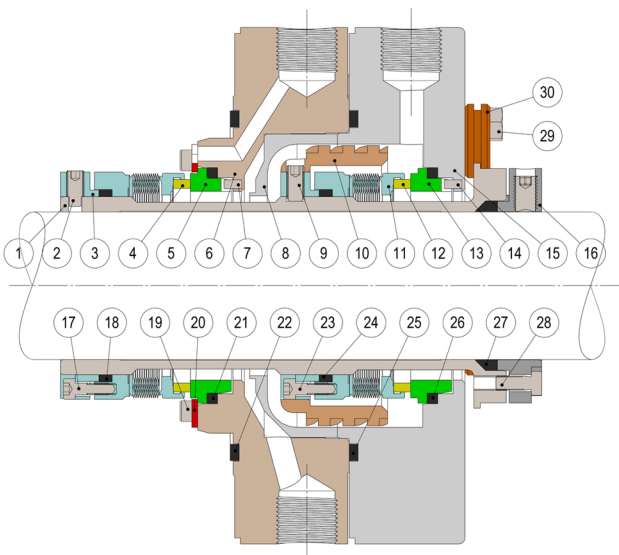
RECOMMENDED PIPING PLANS

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 ~+ 400 °C
Sliding velocity	≤ 20 m/s

PRODUCT STRUCTURE DIAGRAM



PRODUCT DESCRIPTION

- API 682 Category 2 and 3, Type B, Arrangement 2& 3 seal
- Dual seal in face-to-back configuration
- Balanced design
- Independent of direction of rotation
- Cartridge construction
- For plain shafts
- Rotary metal bellows design

TYPICAL INDUSTRIAL APPLICATIONS

- API 610 pumps
- Chemical & Petrochemical industry
- Cold media
- Highly viscous media
- Hot media
- Power plant
- Refining technology
- Oil and gas 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
2,9,29	Drive Screw	A2-70
3,11	Metallic Bellows	AM350/Hast.276.Hast.718
4,12	Rotary Face	Carbon/SIC/TC
5,13	Stationary Face	Carbon/SIC/TC
6	Gland Insert	316SS/Hast.C/D2205/D2507/904L
7,14	Pin	316SS
8	Deflector	316SS
10	Rotary Holder	316SS
15	Gland	316SS
16	Clamp Ring	316SS
17,19,23	Clip Screws	A2-70
18,21,22	Graphite Gasket	Graphite
20	Thrust Ring	316SS
24,25,26	Graphite Gasket	Graphite
27	Graphite Gasket	Graphite
28,30	Clip Screws	A2-70
31	Setting Clips	304SS

FBU SEALING TECHNOLOGY (SUZHOU) CO.,LTD

No.183, Yinhe Road, High Tech Industrial Development
Zone Changshu Suzhou, Jiangsu, 215533

+86-512-57011188
sale@fbuseals.com
www.fbuseals.com

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

