



API

基于机械密封和密封辅助系统制造商在碳氢化合物和石化行业积累的知识和经验，API（美国石油协会）创建了API 682标准。

该标准涵盖了机械密封和系统设计，认证产品主要方面的测试和应用，确保机械密封符合API682标准，并且符合API要求的工况条件。

为了满足API 682标准的要求，FBU设计了A系列集装式API 682标准机械密封。A系列使用模块化设计可最大限度地提高互换性，允许在各种配置下进行单密封和双密封设计。所有API密封件都经过严格的可靠性测试。

API (The American Petroleum Institute) created the API 682 standard for mechanical seals and sealing systems based on the accumulated knowledge and experience of manufacturers and users of equipment in the hydrocarbon and petrochemical industry.

The standard Glands all major aspects of mechanical seal and system design, qualification testing and application and ensures seals sold into the market as API682 compliant meet the demanding requirements of the API environment.

To meet the needs of API 682 standard, FBU created the A line of Cartridge API 682 seals. The A line uses modular design to maximize interchangeability, allowing single and dual seals in a variety of configurations.

All the API seals are tested rigorously for their reliability.

卧式安装
Horizontal

ASTL(1CW-FL)

单端面集装式密封 布置方式为1

API 682 Type A Arrangement 1 Single Seal

接触式平衡式机械密封，使用范围广，为各种简单工况的首选密封形式。应用于非碳氢化合物，不闪蒸化合物以及闪蒸化合物介质工况。过程介质可以通过浮动的节流衬套回收和收集。

The Type ASTL(1CW-FL) is a single cartridge seal designed to provide low emission/leakage for most refinery application. It is applied in Non-Hydrocarbon, Non-Flashing Hydrocarbon, and Flashing Hydrocarbon services. Process leakage is further contained with a floating segmented bushing allowing it to be transported to a suitable drain or vapor reGlandly system.

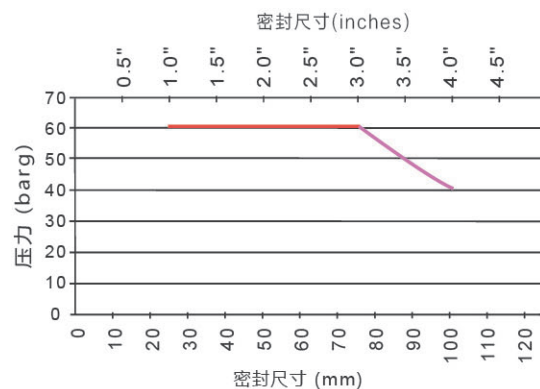
产品特征Key Features

- 单端面旋转推进式设计
- 模块化环面设计
- 液压平衡式环面设计
- 低泄漏优化环面设计
- 支持对密封吹扫和冷却
- Single rotary pusher seal design.
- Monolithic seal faces.
- Hydraulically balanced seal faces.
- Low Emission Optimized face design.
- Quench and drain environmental ports.

运行参数Operating Conditions

温度/Temperature	-40°C to +220°C (Application and Seal Material Dependent)
压力/Pressure	0-40 Bar
转速/Pressure	Upto 20 m/s

压力图Pressure Chart



ASTL-各部件信息

NO	描述/Description	材质/Material
1	轴套/Sleeve	316SS
2	弹簧/Springs	Alloy 276
3	动环座/Rotary Hold	316SS
4	推环/Push Ring	316SS
5	卡簧/Clamp Ring	316SS
6	动环/Rotary Face	Carbon/SSIC
7	静环/Stationary Face	SSIC/TC
8	压盖/Gland	316SS
9	弹簧/Springs	316SS
10	衬套/Bush Ring	Carbon
11	挡环/Retaining Ring	316SS
12	定位块/Clips	316SS
13	定位环/Setting Ring	316SS
14	O型圈/O-Ring	EPR/Viton®/Aflas®/Kalrez®
15	O型圈/O-Ring	EPR/Viton®/Aflas®/Kalrez®
16	O型圈/O-Ring	EPR/Viton®/Aflas®/Kalrez®
17	O型圈/O-Ring	EPR/Viton®/Aflas®/Kalrez®
18	O型圈/O-Ring	EPR/Viton®/Aflas®/Kalrez®
19	驱动螺钉/Drive Screw	Alloy 276
20	定位块螺钉/Clips Screws	316SS

卧式/安装
Horizontal

ADTN(2CW-CW)

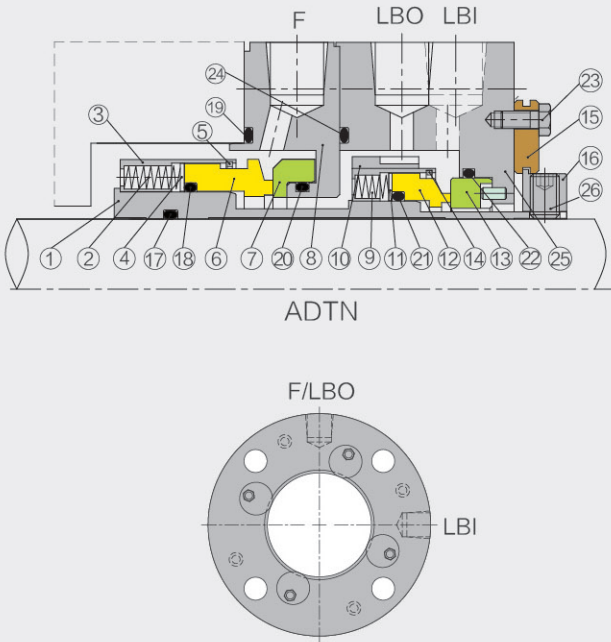
无压双端面串联集装式密封

布置方式为2

API682 Type A Arrangement 2 Dual Unpressurized Cartridge Seal

无压接触式平衡式双端面集装式密封，适用于易燃易爆介质。内侧机封的设计采用ASTN，外侧机封配合52号方案提供额外的抑制密封效果。主要适用于轻烃，芳烃，醋酸等介质工况。

The type ADTN(2CW-CW) is a dual unpressurized cartridge seal designed for hazardous applications. The inboard seal design utilizes the seal low leakage as the type ASTL. The outboard seal provides additional containment in conjunction with an API flushing plan 52. It can be used for the light hydrocarbon, aromatic hydrocarbon, acetic acid.



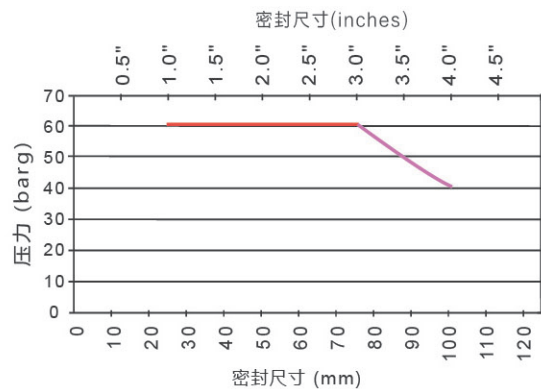
产品特征Key Features

- 双端面旋转式设计
- 模块化环面
- 双平衡式环面设计
- 缓冲液循环效果
- 低排放优化环面设计
- Rotary Dual seal design.
- Monolithic inboard and outboard seal faces.
- Double balanced inboard seal faces.
- Buffer fluid in and out ports available.
- Low Emission Optimized face design.

运行参数Operating Conditions

温度/Temperature	-40°C to +220°C (Application and Seal Material Dependent)
压力/Pressure	0~40 Bar
转速/Pressure	Upto 20 m/s

压力图Pressure Chart



ADTN-各部件信息

NO	描述/Description	材质/Material
1	轴套/Sleeve	316SS
2	一级弹簧/Inboard Springs	Alloy 276
3	一级动环座/Inboard Rotary Holder	316SS
4	一级挡圈/Inboard Retaining Ring	316SS
5	一级卡簧/Inboard Clamp Ring	316SS
6	一级动环/Inboard Rotary Face	Carbon/SSIC
7	一级静环/Inboard Stationary Face	SSIC/TC
8	压盖/Gland	316SS
9	二级弹簧/Outboard Springs	Alloy 276
10	二级动环座/Outboard Rotary Hold	316SS
11	二级挡圈/Outboard Retaining Ring	316SS
12	二级动环/Outboard Rotary Face	Carbon
13	二级静环/Outboard Stationary	SSIC/TC
14	二级卡簧/Outboard Clamp Ring	316SS
15	定位块/Clips	316SS
16	定位环/Setting Ring	316SS
17	O型圈/O-Ring	EPR/Viton®/Aflas®/Kalrez®
18	O型圈/O-Ring	EPR/Viton®/Aflas®/Kalrez®
19	O型圈/O-Ring	EPR/Viton®/Aflas®/Kalrez®
20	O型圈/O-Ring	EPR/Viton®/Aflas®/Kalrez®
21	O型圈/O-Ring	EPR/Viton®/Aflas®/Kalrez®
22	O型圈/O-Ring	EPR/Viton®/Aflas®/Kalrez®
23	定位螺钉/Setting Screw	316SS
24	O型圈/O-Ring	EPR/Viton®/Aflas®/Kalrez®
25	副压盖/Insert Gland	316SS
26	驱动螺钉/Drive Screw	Alloy 276

卧式安装
Horizontal

ADTB(3CW-FB)

加压双端面串联集装式密封

布置方式为3

API682 Type A Arrangement 3 Dual Pressurized Cartridge Seal

加压接触式平衡式双端面机械密封，最大程度的抑制高危流体和气体的外界泄漏。

介质在53和54号缓冲液的抑制下不会向外界泄漏。常用于轻烃，芳烃，等易燃易爆介质。

The type ADTB is a dual pressurized cartridge seal designed for maximum containment of hazardous fluids and light hydrocarbons. The outboard seal retains the barrier fluid using either an API flushing plan 53 or 54. It is the most used in light hydrocarbon, aromatic hydrocarbon flammable and explosive sealing product.

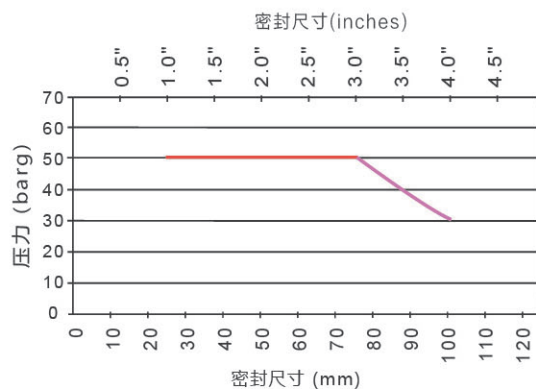
产品特征Key Features

- 双端面旋转式设计
- 模块化环面
- 双平衡式环面设计
- 隔离液循环效果
- 低排放优化环面设计
- 压力反渗漏平衡式设计
- 接液口直线连接
- Rotary Dual seal design.
- Monolithic inboard and outboard seal faces.
- Double balanced inboard seal faces.
- Barrier Fluid in and out ports available.
- Low Emission Optimized face design.
- Reverse Pressure Hydraulically Balanced Mating Ring.
- Tangential Outlet Barrier Fluid Connections.

运行参数Operating Conditions

温度/Temperature	-40°C to +260°C (Application and Seal Material Dependent)
压力/Pressure	0~40 Bar
转速/Pressure	Upto 20 m/s

压力图Pressure Chart



ADTB-各部件信息

NO	描述/Description	材质/Material
1	轴套/Sleeve	316SS
2	一级弹簧/Inboard Springs	Alloy 276
3	一级动环座/Inboard Rotary Holder	316SS
4	一级挡圈/Inboard Retaining Ring	316SS
5	一级卡簧/Inboard Clamp Ring	316SS
6	一级动环/Inboard Rotary Face	Carbon/SSIC
7	一级静环/Inboard Stationary Face	SSIC/TC
8	压盖/Gland	316SS
9	二级弹簧/Outboard Springs	Alloy 276
10	二级动环座/Outboard Rotary Hold	316SS
11	二级挡圈/Outboard Retaining Ring	316SS
12	二级动环/Outboard Rotary Face	Carbon
13	二级静环/Outboard Stationary	SSIC/TC
14	二级卡簧/Outboard Clamp Ring	316SS
15	定位块/Clips	316SS
16	定位环/Setting Ring	316SS
17	O型圈/O-Ring	EPR/Viton®/Aflas®/Kalrez®
18	O型圈/O-Ring	EPR/Viton®/Aflas®/Kalrez®
19	O型圈/O-Ring	EPR/Viton®/Aflas®/Kalrez®
20	O型圈/O-Ring	EPR/Viton®/Aflas®/Kalrez®
21	O型圈/O-Ring	EPR/Viton®/Aflas®/Kalrez®
22	O型圈/O-Ring	EPR/Viton®/Aflas®/Kalrez®
23	定位螺钉/Setting Screw	316SS
24	O型圈/O-Ring	EPR/Viton®/Aflas®/Kalrez®
25	副压盖/Insert Gland	316SS
26	驱动螺钉/Drive Screw	Alloy 276