



# HIGH PERFORMANCE BUTTERFLY VALVE 高性能蝶阀

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# 高性能蝶阀 High Performance Butterfly Valve

**DAGO**

## 高性能蝶阀 High Performance Butterfly valve

一般的高性能蝶阀为双偏心结构。双偏心结构是在设计时将阀轴偏离密封面中心，形成第一个偏心；轴稍稍离管路中心线，形成第二个偏心，偏心的目的在于使蝶阀开至大约20°之后，阀座与密封圈之间脱离，从而减少摩擦。

The high performance butterfly valve is a double eccentric structure. Double eccentric structure is in the design of the valve shaft from the sealing surface of the center, forming the first eccentric shaft; a little out of the pipeline center line, forming second eccentric, eccentric butterfly valve to make the opening to about 20 degrees after the detachment between the seat and the sealing ring, thereby reducing friction.

软密封阀座选用TFE、PTFE、RTFE，防火结构符合API607的防火试验，在发生火灾时具有密封能力。

密封结构具有本质的防火能力，可保持零泄漏。可在不拆蝶阀、阀杆的情况下更换阀座，上下阀杆处设有低摩擦系数的轴套，减少了阀门启闭时阀杆的摩擦力。

双偏心的设计结构，减少了开启频繁的密封副上下两端的磨损。

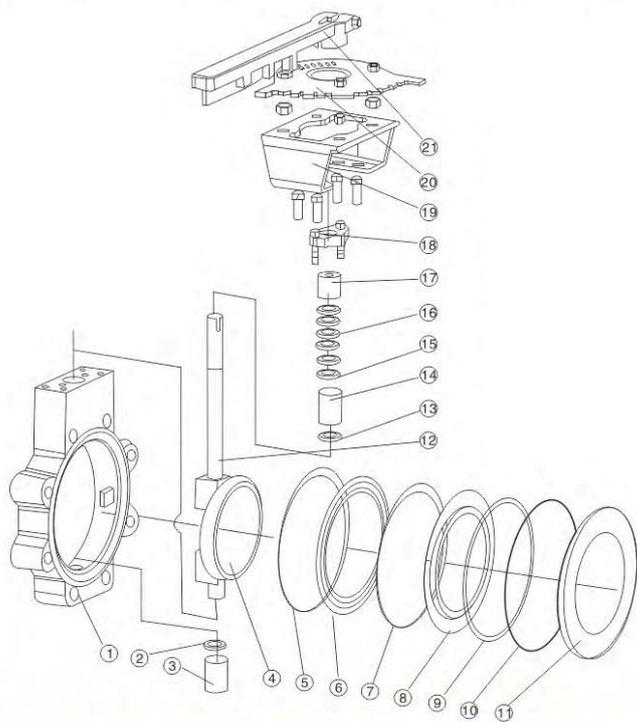
阀门与驱动装置接口符合ISO5211。

The soft sealing seat adopts TFE, PTFE and RTFE. The fireproof structure conforms to the API607 fire test, and has the sealing ability when the fire occurs.

The sealing structure has the essential fireproof ability and can keep zero leakage. The valve seat can be replaced without removing the disc and stem, and there is no low friction sleeve at the upper and lower valve stem, which reduces the friction of the valve stem when the valve is opened and closed.

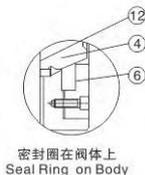
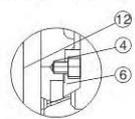
Double eccentric structure decreases the damage of secondary sealing when the valve is opening or closing frequently.

The interface of the valve and the driving mechanism is suitable for ISO5211, and the quality of product is controlled seriously according to ISO5211.



多层次硬密封结构  
Multilayer Metal Seated Structure

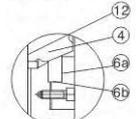
密封圈在蝶板上  
Sealing Ring on Disc



密封圈在阀体上  
Seal Ring on Body

硬密封结构  
Metal Seated Structure

阀座在阀体上  
Valve Seat on the Valve Body



弹性圈硬密封结构  
Flexible Ring Metal Seated Structure

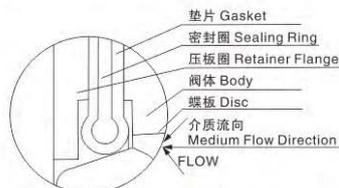
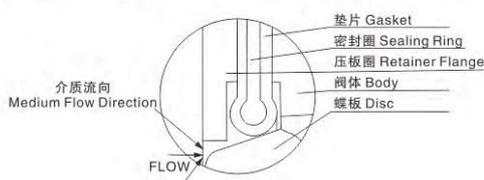
## 阀座密封原理 Sealing Principle of Seat

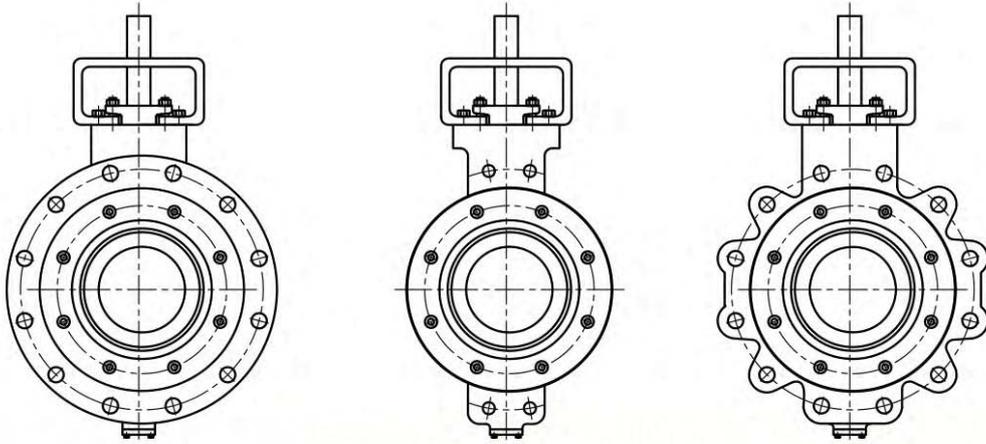
1、蝶板处于关闭状态，介质从阀座上游进入，在介质力的作用下，密封圈紧贴蝶板密封面，由于密封圈的弹性和变形作用，保证密封副的密封。

2、蝶板处于关闭状态，介质从阀座下游进入，在压板上下挤压下，密封圈克服介质的作用力，紧贴蝶板密封面，保证密封副的密封。

1.The disc is under closing, media enters from the upstream of seat, as media's action of force, seal ring clings to seal surface because of seal ring's resilience and deformation effect to assure the secondary has a good sealing.

2.The disc is under closing, media enters from the downstream of seat, as pressure plate extrudes up and down, seal ring covers the media's force action, and clings to the seal surface to assure the secondary has a good sealing.





### 主要零件材质 Material for Main Parts

序号 NO.	零件名称 Part Name	材料 Material	可选材料 Optional Materials
1	阀体 Body	铸钢 Cast steel	不锈钢、蒙乃尔 Stainless Steel, Monel
2	调整垫A Adjusting pad A	不锈钢 Stainless steel	不锈钢、蒙乃尔 Stainless Steel, Monel
3	下轴套 Bottom Bushing	聚四氟乙烯+黄铜 PTFE + Brass	自润滑黄铜 Self lubricating Brass
4	蝶板 Disc	铸钢 Cast Steel	不锈钢、蒙乃尔 Stainless Steel, Monel
5	垫片 Gasket		
6	密封圈 Seal Ring	PTFE/PTFE+SS	SS+柔性石墨 SS+Flexible graphite
6a	阀座 Seat	碳钢 Carbon steel+13Cr	不锈钢、蒙乃尔 Stainless Steel, Monel
6b	垫片 Gasket		柔性石墨 Flexible graphite
6c	密封圈 Sealing ring	不锈钢 Stainless Steel	-
6d	垫片 Gasket		柔性石墨 Flexible Graphite
7	垫片 Gasket		柔性石墨 Flexible Graphite
8	防火圈 Fire Safe Ring	不锈钢 Stainless Steel	-
9	垫片 Gasket		柔性石墨 Flexible Graphite
10	挡圈 Ring	NBR	FPM
11	压板圈 Retainer Flange	碳钢 Carbon Steel	不锈钢、蒙乃尔 Stainless Steel, Monel
12	阀杆 Stem	不锈钢 Stainless Steel	不锈钢、蒙乃尔 Stainless Steel, Monel
13	调整垫 Adjusting Pad	不锈钢 Stainless Steel	不锈钢、蒙乃尔 Stainless Steel, Monel
14	上轴套 Upper Bushing	聚四氟乙烯+黄铜 PTFE + Brass	自润滑黄铜 Self lubricating brass
15	填料垫 Packing	不锈钢 Stainless Steel	不锈钢、蒙乃尔 Stainless Steel, Monel
16	填料 Packing	柔性石墨 Flexible graphite	PTFE
17	填料压套 Packing Gland	碳钢 Carbon steel	不锈钢 Stainless Steel
18	填料压板 Packing Plate	不锈钢 Stainless steel	不锈钢 Stainless Steel
19	连接支架 Connecting Bracket	碳钢 Carbon steel	-
20	限位板 Limit Plate	碳钢 Carbon steel	不锈钢 Stainless Steel
21	手柄 Handle	碳钢 Carbon steel	-

提示：1、壳体材料压力温度等级表见  
2、壳体材料化学成分及力学性能见  
3、内件材料及推荐服务范围见

Tip: 1, shell material pressure temperature table see  
2, shell material chemical composition and mechanical properties see  
3, Materials and recommendations are available