



Krank & Luo industries

FOCUS ON DEVELOPMENT

上海德托康国际贸易有限公司

Company Brochure 宣传册

Butterfly valves
Ball Valves
Gate Valves
High Performance BFV
Knife Gate Valves
Globe Valves

For Industrial applications

上海德托康国际贸易有限公司

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Our philosophy

我们很高兴向您介绍Krank & Luo Industries Shanghai，这是一个领先的德中合作企业，专注于为多个行业提供工业阀门，包括钢铁、化工、石油化工、航运、糖业和半导体等。作为Wouter Witzel阀门和Interapp阀门的总代理，K&L Industries供应高品质的产品，广泛应用于全球顶尖的工厂制造商。

我们负责当地公司的工业阀门的进出口，确保我们的供应链涵盖可持续发展、采购和库存规划，并在从订单执行到优化的整个过程中保持完全透明和协调。凭借在中国和德国超过10年的行业经验，我们能够有效满足冶金、石油化工和船舶制造等领域的需求。我们的本地分销商确保从欧洲到中国客户的无缝供应链，使我们能够为关键项目提供高度专业的材料和解决方案。

在K&L Industries，我们的理念基于两个原则：为客户提供最佳的建议和解决方案，并促进文化与技术之间的协作理解。我们期待着与您合作，并为您提供量身定制的卓越服务和解决方案。



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上海德托康国际贸易有限公司

产品线【进口阀】

EuroValve

Centric design to EN593 & API609
vulcanize bonded liner (seat)

按照EN593和API609设计的硫化橡胶中线蝶阀

Size/口径

up to DN2200(88")/最大口径到
DN2200(88")

Rating/压力等级

欧标:PN10/PN16/PN25
美标:Class150
适用于高真空工况

Body Material/阀体材质

DI/CS 球墨铸铁/铸钢

Disc Material/蝶板材质

SS/AIBr/DSS 不锈钢/铝青铜/双向
不锈钢/其他特殊材料

Liner/内衬

EPDM/NBR/FPM 三元乙丙橡胶/丁
腈橡胶/氟橡胶

Operation/执行器

手柄, 齿轮箱, 气动执行器, 电动执
行器, 液动执行器



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产品线【进口阀】

Dynaxe高性能双偏心蝶阀

Econaxe高性能双偏心蝶阀

K&L - EMT - Tripex三偏心蝶阀

高性能双偏心蝶阀

设计标准 EN593 & API609

阀座位于阀体上 (Econaxe)

阀座位于蝶板上 (Dynaxe)

尺寸范围: 最大到 DN600 (24") / DN900 (36")

压力等级: Cl.150 (20bar), Cl.300 (50bar)

材料: CS, SS, (S)DX, (Ni)AluBr, 6Mo, Ti, etc.

阀座: 弹性阀座、软密封、防火配置、金属密封

执行器: 手动或其他



Krank & Luo – 中线衬氟蝶阀【进口阀】

描述

适用于侵蚀性、腐蚀性和高纯工况，提供开关或调节功能的PTFE内衬中线蝶阀

产品特征

- 阀体结构 B1 对夹 DN 32-600
B3 支耳 DN 32-400
B4 U型法兰 DN 400-900
 - 面对面尺寸 依据 ISO 5752/20, EN 558-1/20
 - 顶法兰 依据 EN ISO 5211
16 bar (DN 32-300)
 - 最高工作压力 10 bar (DN 350-600)
6 bar (DN 700-900)
 - 连接标准 PN10, PN16, ANSI cl. 150
以及2129 table D + E和JIS 10K等
 - 温度范围 -20°C ~ 200°C 依据工况，其他温度请联系工厂，具有相应的冲击试验证书。
内衬和包裹蝶板的孔隙率检测依据DIN EN 60243-1。请联系工厂，查看测试证书。
 - 阀门测试 密封性测试依据 EN 12266-1 leakage rate A。
每个阀门的扭矩值均已记录。
- CE** BIANCA蝶阀满足欧盟压力设备指令的安全要求2014/68/EU (PED) 附录 1, 流体组别1和组别2。
- SIL** BIANCA蝶阀满足IEC 61508 / 61511, 适用于在安全性相关的系统中进行操作，安全完整性等级为SIL 3。
- EX** BIANCA蝶阀的特殊版本可用于潜在爆炸性环境中。
- TA-Luft** 可提供 EN ISO 15848
- FDA 和 (EU) No. 10/2011** Bianca使用的Teflon®符合FDA 21 CFR 177.1550 和(EU) No.10/2011



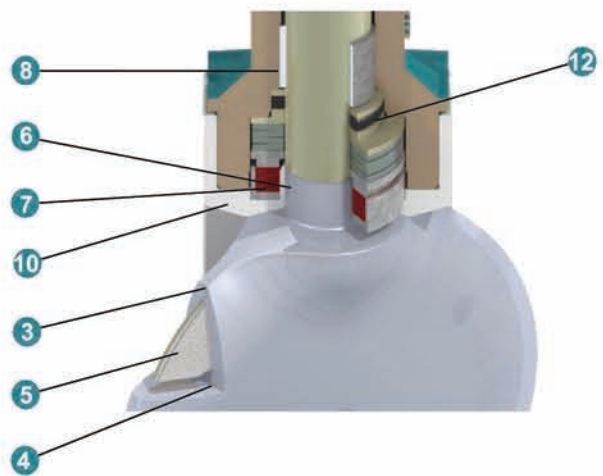
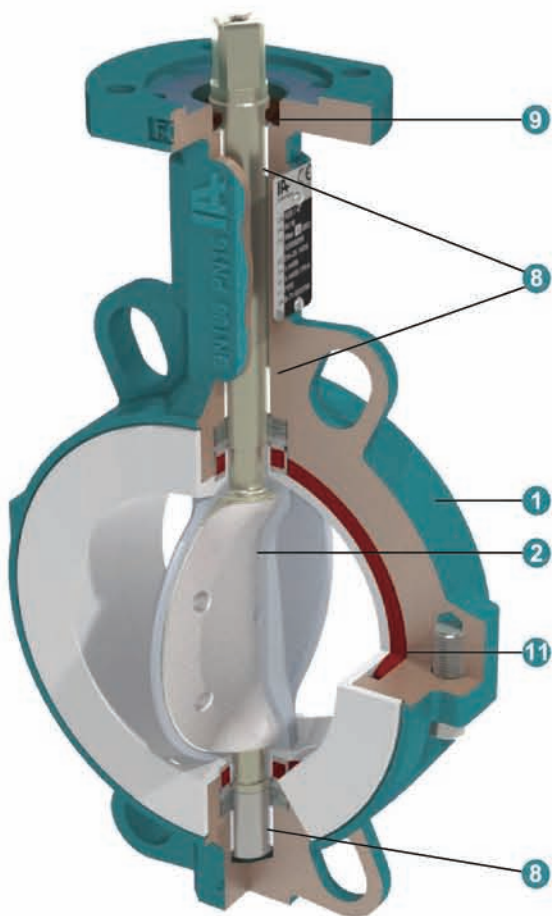
B1
对夹



B3
支耳



B4
U型法兰



1	分体式阀体，材质为球铁EN-JS 1025
2	一体式、防挤出蝶板/轴
3	最小厚度3 mm的PFA包裹
4	PFA包裹通过物理方式和蝶板锁定
5	流线型薄的蝶板，允许高kV值
6	轴部PFA包裹
7	预应力弹性轴封
8	自润滑轴承
9	外部轴密封
10	腔室内衬，防止径向“冷流”
11	嵌入阀体的弹性背衬
12	可选TA-Luft VDI 2440 / EN ISO 15848

BIANCA HP 无尘室生产



用超纯水清洁零部件



阀门在10000级/ISO 7级洁净室中，进行组装、测试和包装



超纯空气中的气密性测试

扭矩值 (PTFE内衬, 含安全系数)

DN	32/40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	750	800	900	
2.5 bar																		2500		
6 bar											675	900	1100	1300	1750	2100	2800	3100	4000	
10 bar								189	330	476	810	1080	1320	1560	2100					
16 bar	21	25	39	43	73	87	146	227	396	571										

Krank & Luo – PFA内衬球阀,带ISO顶法兰

描述

全通径PFA内衬球阀,带法兰连接和三片式阀体,适用于腐蚀性应用。

产品特点

- 口径范围 DN 15 – 100
- 法兰连接 PN 10/16 (ANSI cl. 150)
- 面间距标准 DIN 3202-F1 / EN 558-1
- 最大工作压力 16 bar
- 工作温度 -50 °C 至 180 °C
- 防静电版本 依客户需求

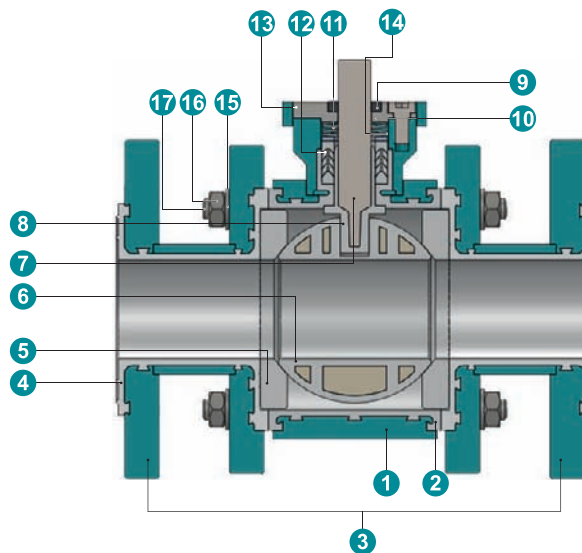


TLBVA球阀满足欧盟压力设备指令的安全要求2014/68/EU (PED);
若带防静电内衬,则符合ATEX 2014/34/EU。



结构

序号	描述	材料
1	阀体	碳钢1.0037, 环氧树脂/聚酯涂层
2	阀体内衬	PFA / PFA防静电
3	法兰	碳钢1.0037, 环氧树脂/聚酯涂层
4	法兰内衬	PFA / PFA防静电
5	阀座密封	PTFE / PTFE防静电
6	球	DN 15 - 20: PTFE + 25 % GF / PTFE防静电 DN 25 - 100: PFA 或 强化钢外覆PFA防静电
7	阀杆	碳钢1.6580 / 30CrNiMo8
8	阀杆包覆材质	PFA / PFA防静电
9	垫圈	PTFE防静电
10	顶法兰止推环	不锈钢1.4571 / X6CrNiMoTi17-12-2 / ≈ AISI 316Ti
11	弹簧垫圈	弹簧钢 51Si7 / 1.5025
12	填料函	PTFE / PTFE防静电
13	螺栓	不锈钢A4
14	填料函垫圈	不锈钢1.4571 / X6CrNiMoTi17-12-2 / ≈ AISI 316Ti
15	垫片	不锈钢A2
16	螺母	不锈钢A2
17	螺栓	不锈钢A2



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Krank & Luo – 球阀系列

应用介绍 General application

化学 Chemical
石油化工 Petrochemical
油品& 气体 Oil & gas
蒸汽 Steam
食品& 饮料 Food & beverage
机械&设备 Machinery and equipment
暖通设备 Air conditioning facilities
有毒有害介质 Toxic and lethal
其他管道 General piping



产品特点 Features & key point

- 低扭力、高性能；是降低成本的关键，也是客户关注的焦点；我们可以做到。
Low torque high performance , is the key to cost saving, is the focus of customer focus, we can do it.
- ISO5211 标准的执行器连接平台设计，享受更多的安装便利性。
ISO5211 standard mounting of actuators, enjoy more flexibility in installation.
- 防爆出型阀杆、防静电阀杆设计，是我们的标准产品。
Blow-out proof stem and anti static stem design is our standard product.
- 我们承诺“零”泄漏，因为我们制造的钢球真圆度是无与伦比的。
We guarantee zero leakage, because sphericity tolerance of the ball is unsurpassed.
- 多种材质的阀座选择，能应用与不同的介质。
Different material of the valve seat, can be suitable for various medium.
- 带锁定功能的手柄以及其他特殊设计。
Locking handle and special handle design.
- 特殊的控制要求，我们同样可以满足。
The special control requirements, we can do it



技术数据 Technical data

口径 Size	: 15mm to 500mm
压力等级 Pressure rating	: ASME Class150/300/600/1500 PN16/PN25-40/PN65 JIS 10K/20K
温度 Temperature	: -29°C to 220°C
材质 Material	: WCB CF8 CF8M CF3M Monel Hastelloy C **
泄漏等级 Leakage class	: Class VI (soft seat)
操作形式 Operation type	: Manual , Pneumatic, Electric, Electro-hydraulic
设计 标准 Design	: ASME B16.34 / API608 GB/T12224 GB/T12237 JIS B 2001
法兰连接面标准 End Connection	: ASME B16.5 EN1092-1 HG 20592 JIS B 2220
总长标准 Face to face	: ASME B16.10 GB/T12221 B2002 10K/20K
测试标准 Test	: API 598 API6D
防火测试 Fire test	: API607
质量标准 Quality	: ISO9001

自控阀配套附件

Automatic control valve accessories



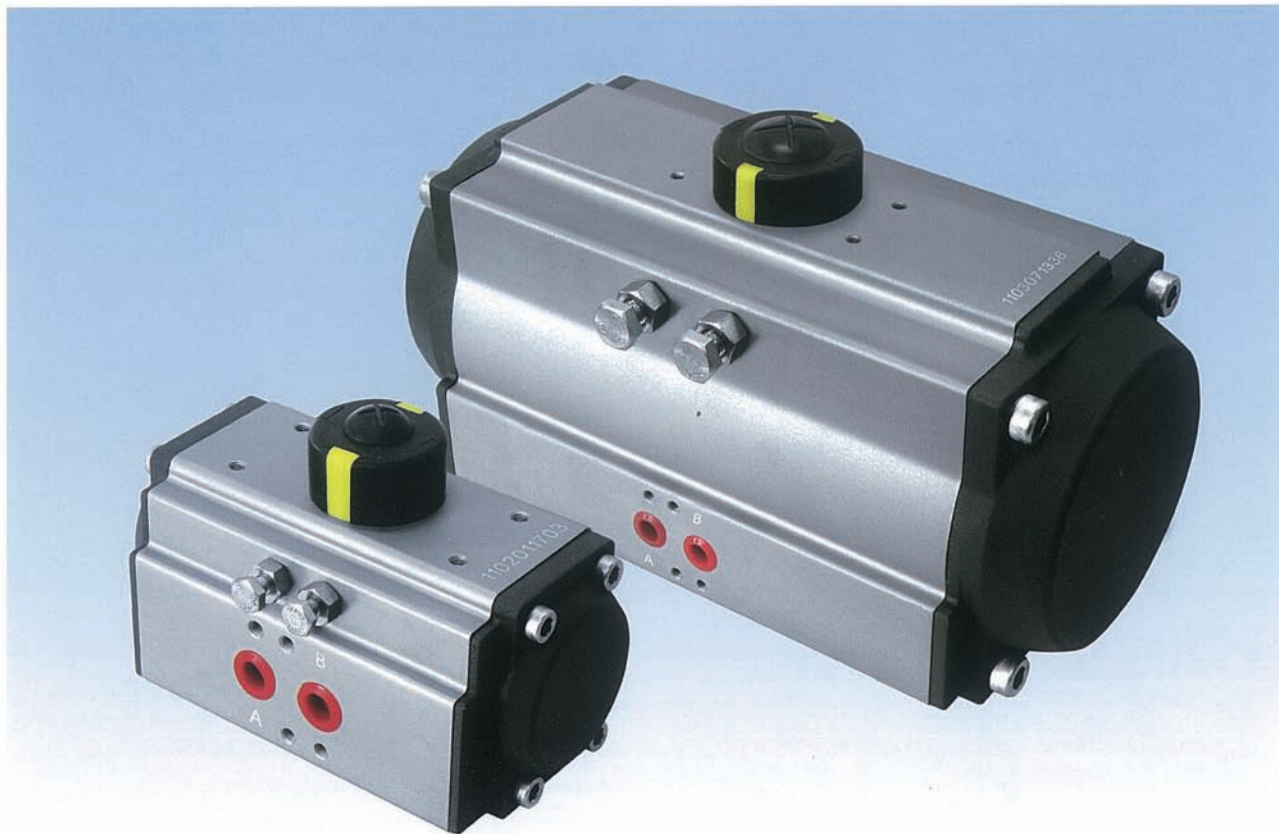
- 电磁阀 Solenoid valves
- 回讯开关 Limit Switches
- 电气定位器 E/P positioner
- 气气定位器 P/P positioner
- 气锁阀 Air lock valve
- 增速继动器 Booster
- 远程气控阀 Remote air valves
- 快排阀 Quick release valves
- 信号比较器 signal comparator

阀座材质 Seat material

- PTFE
- PTFE+glass
- PTFE+carbon
- PTFE+steel powder
- PPL (option)

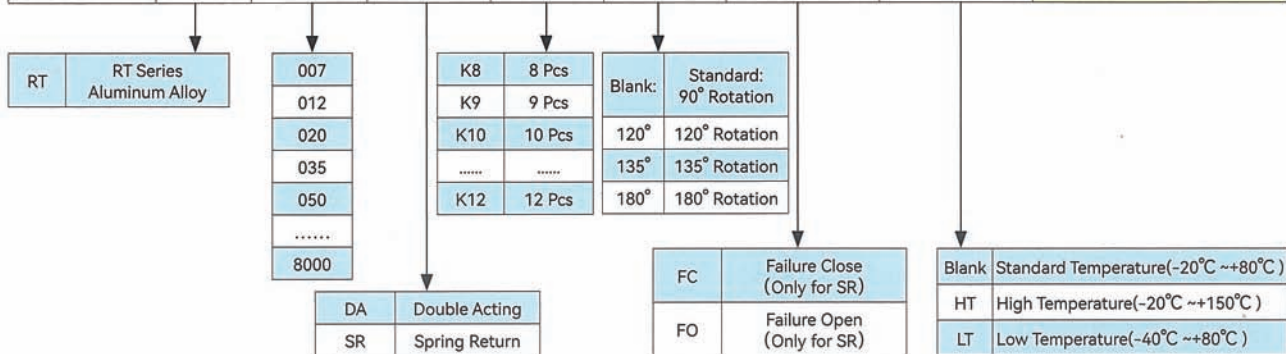
RT 系列气动执行器

RT Series Pneumatic Actuator



订购 How To Order

单元 Unit	1	2	3	4	5	6	7	产品代号 Model No.:
内容 Content	系列 Series	代码 Code	动作形式 Acting Type	弹簧数量 Spring Qty.	行程 Stroke Travel	阀门故障位置 Valve Failure Position	工作温度 Working Temperature	
代号 Code	RT	020	SR	K10	Blank	FC	Blank	RT 020 SR K10 FC



- ASTM6005 压铸铝合金缸体可以采用硬质氧化、环氧树脂喷涂（根据要求喷涂兰色、橙色、黄色等）、PTFE 涂层或镀镍满足不同要求。
- 镀镍合金钢、高精度一体式输出轴同时符合 NAMUR、ISO5211、DIN3337 标准。可根据客户要求定制尺寸和不锈钢材料。
- 使用介质：压缩空气、无腐蚀性气体和油；
- 气源压力：2.5 ~ 8 bar
- 行程调节：活塞在两端位置有 ±5 度的可调节范围；
- 润滑：在正常工作条件下，不需添加润滑剂；
- 安装：适合室内或室外安装；
- 最高使用压力：输入气压不超过 10 bar。
- 工作温度：

标准型（使用丁腈橡胶 O 型圈）：-20°C ~ +80°C

低温型（使用低温丁腈橡胶 O 型圈）：-40°C ~ +80°C

高温型（使用氟橡胶 O 型圈）：-15°C ~ +150°C

超低温型：-55°C ~ +80°C 可选



- According to different requirements, the die-casting ASTM 6005 body can be treated with hard anodized, epoxy resin spraying. (Different color is available such as blue, orange, yellow ect.) PTFE coated or nickel plated.
- Nickel plated alloy steel, high-precision integrated output pinion simultaneously comply with NAMUR, ISO5211, DIN3337 standards. Dimension and stainless steel materials can be customized according to customer requirements.
- Medium used: Compressed air, non corrosive gas, and oil;
- Air supply pressure: 2.5~8 bar
- Stroke adjustment: The piston has an adjustable range of ±5 degrees at both ends.
- Lubrication: Under normal working conditions, there is no need to add lubricant;
- Installation: Suitable for indoor or outdoor installation;
- Maximum operating pressure: Input air pressure shall not exceed 10 bar.
- Operating temperature:
 - Standard type (NBR O-ring): -20°C to +80°C
 - Low temperature type (L-NBR O-ring): -40°C to +80°C
 - High temperature type (Viton O-ring): -15°C to +150°C
 - Super low temperature: -55°C ~ +80°C is available.



球阀

Ball Valve

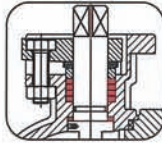
格南型浮动球阀结构特点

Cast Steel Float Ball Valve Structure Characteristics

① 阀杆多重密封设计 Stem multiple seal design

底部垫片 + 中间 O 型圈 + 填料多重密封，有效保证阀杆上部密封部位不会产生泄漏。

The bottom gasket + intermediate o-ring + packing multiple seal, effectively ensure that the upper sealing part of the stem does not leak.



② 阀杆防吹出设计 Stem blowout proof design

采用下装式阀杆，阀杆下部没有轴肩，即使拆掉压盖螺栓螺母，阀杆也不会因腔体内压而吹出阀体，确保人身安全。

Use the lower mounted valve stem, the lower part of the stem is provided with a shaft shoulder. Even if the nut is removed, the stem will not blow out of the body to ensure the safety of the body.

③ 阀座弹性密封设计 Seat resilient seal design

阀座密封部位采用弹性结构设计，有效降低阀杆操作扭矩，启闭轻松，低压、高压密封可靠。

The seat sealing part is designed with elastic structure, which can effectively reduce the valve stem operation torque, and the opening and closing are easy, and the low pressure and high pressure seal are reliable.



④ 符合 ISO5211 高平台设计 Comply with ISO5211 high platform design

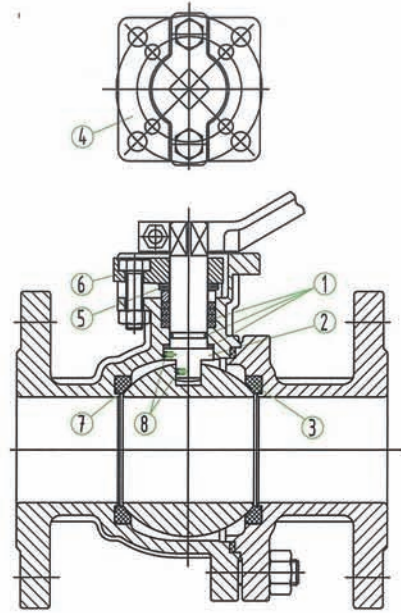
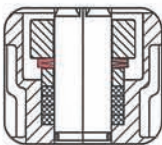
ISO 5211 标准安装平台，与阀体一体，执行器可直接安装，安装方便，经济可靠。

ISO 5211 standard installation platform, integrated with the body, the actuator can be installed directly, easy to install, economical and reliable.

⑤ 双层蝶形弹片装置设计 Design of double butterfly shrapnel device

被预先压紧的两片蝶形弹片在阀杆出现微漏时会起到补偿的作用，释放其预紧的变形，再次压紧填料，确保填料持久密封。

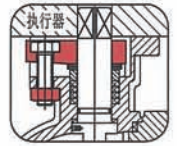
The two pieces of butterfly shears pressed in advance will compensate for the leakage of the valve stem, release its pretensioned deformation, and press the packing again to ensure the sealing of the packing.



⑥ 下沉式压盖设计 Design of the sunken gland

填料压盖凹入平台，不影响执行器安装，当长期使用发生填料泄漏时，只需紧固下部螺母可将填料压紧，执行器不用拆卸。

The packing gland is concave into the platform, which does not affect the actuator installation. When packing leakage occurs after long term use. The packing can be compressed simply by fastening the lower nut. The actuator is not disassembled.



⑦ 防火结构设计 Fire protection structure design

当周边发生火灾时，阀座受热烧毁，球体在介质力作用下向后移动，与阀体防火唇接触，起到辅助密封，减小介质内漏。

When a fire breaks out in the surrounding area, the valve seat is burned, and the ball moves backward under the force of the medium, contacting with the body's fire-proof lip to assist in sealing and reducing medium leakage.



燃烧前 Before burnin

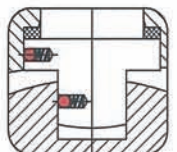


燃烧后 After burning

⑧ 防静电设计 Antistatic design

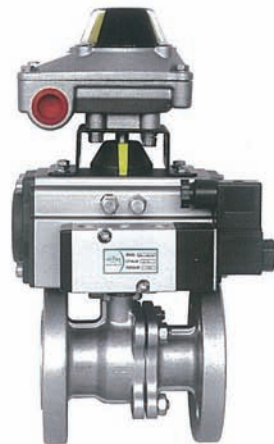
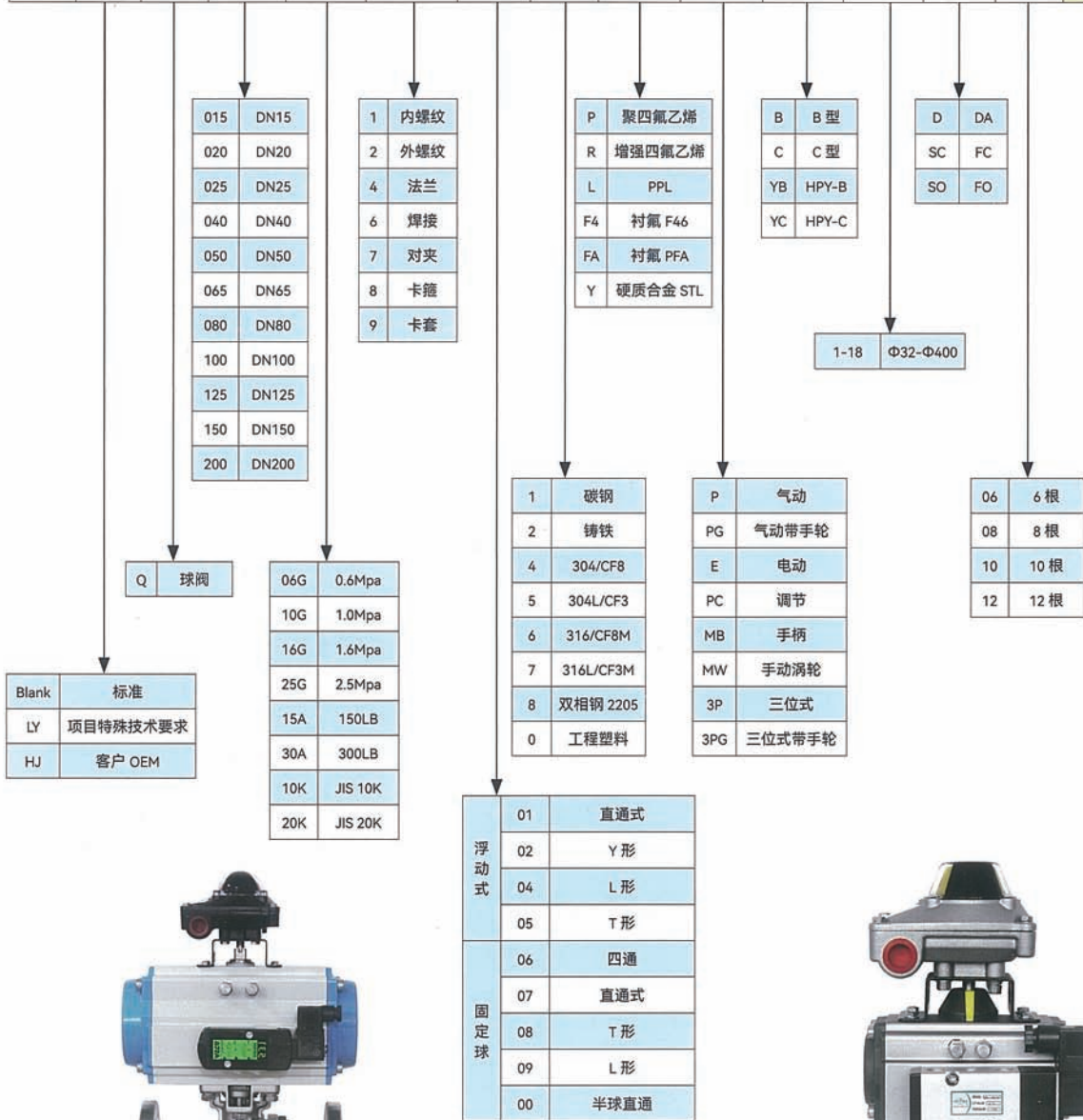
阀杆下部采用防静电结构设计，使钢球在弹簧推动下始终与球槽或阀体紧密接触，可将球体与阀座摩擦产生的静电通过阀杆阀杆传到阀体而释放。

Lower part of the valve stem use anti-static structure design, make steel ball under the spring push always closely contact with the ball groove or body, and the friction produced when the sphere and valve seat can be electrostatic release by stem to the valve body.



订购 How To Order

单元 Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	产品代号 Product code
内容 Content	特殊代码 Special Code	类型代号 Type Code	阀门口径 Diameter	公称压力代号 Nominal Pressure	连接形式代号 Connection	结构形式代号 Structure	阀体 + 阀芯材料 Material	阀座材质 Valve Seat Material	传动形式 Transmission	执行器类型 Actuator	执行器规格 Actuator Model	单双作用 Action	单作用弹簧数 Number of springs	
代号 Code	Blank	Q	015	16G -	4	01 -	44	P-	P	C	5	SC	08	Q015 16G-401-4P-PC5SC08



中线蝶阀

Center Line Butterfly Valve

适用于各种行业,特别是造船、石油化工、重工业、水处理、民用工程、染整行业。

- 设计标准: BS EN-593
- 结构长度: ISO05752 DIN3202
- 平台设计符合 ISO-5211 标准
- 阀门直径: DN40-DN1200
- 法兰标准: DIN PN10, DIN PN16 或 ASME CLASS150
- 可根据客户要求定制

Suitable for various industries, especially shipbuilding, petrochemical, heavy industry, water treatment, civil engineering, dyeing and finishing industries.

- Design standard: BS EN-593
- Structure length: ISO05752 DIN3202
- The platform design complies with ISO-5211 standards
- Valve diameter: DN40-DN1200
- Flange standard: DIN PN10, DIN PN16, or ASME CLASS150
- Customized according to customer requirements

材质 Material

- | | | |
|-----------|-----------------------|-------------------------|
| 阀体 | • Gray Iron | • ASTM A126,CLASSB |
| | • Ductile Iron | • ASTM A536,GR.65-45-12 |
| | • Carbon steel WCB | • ASTM A216-93 |
| | • 304 Stainless Steel | • ASTM A351 GR.CF8 |
| | • 316 Stainless Steel | • ASTM A351 GR.CF8M |



- | | |
|-----------|--|
| 涂层 | • C1 Spray and baking varnish disposal |
| | • C2 Powder polyester painted in different colours |



- | | | |
|-----------|--------------|--------------|
| 阀座 | • EPDM | • Neoprene |
| | • Buna-N | • EPT |
| | • PTFE(EPDM) | • ASTM D2000 |
| | • Viton | • ASTM D2000 |
| | • Silicone | |

- | | | |
|----------|---------------------------------|---------------------|
| 轴 | • Stainless Steel (420/431/630) | • EN 10088-3 1.4122 |
| | • Stainless Steel (316/316L) | • EN 10088-3 1.4404 |
| | • Monel | • BS3076 NA18 |
| | • Aluminium Bronze | • EN1265 |
| | • Other materials on request | |

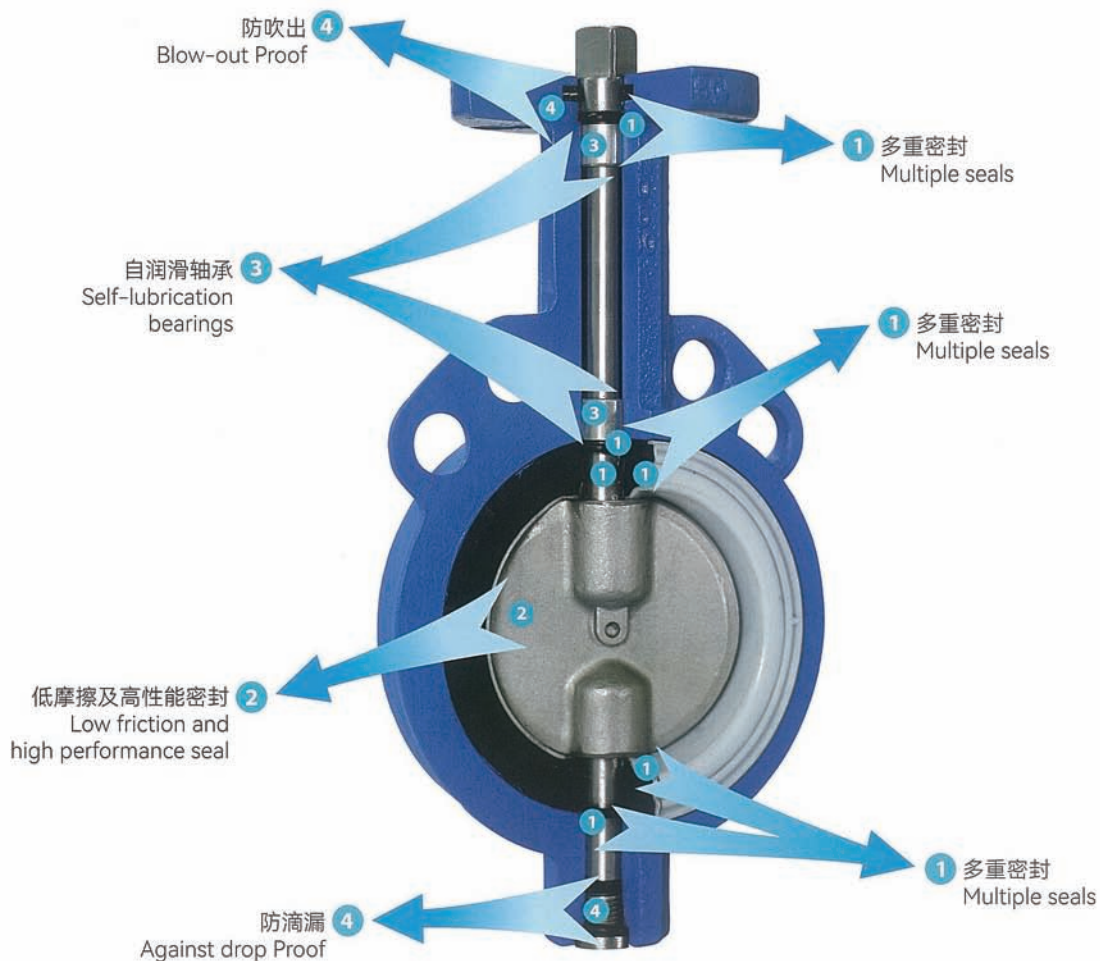
- | | | |
|-----------|-----------------------------------|--------------------|
| 阀板 | • 304 Stainless Steel | • ASTM A351 |
| | • 316 Stainless Steel | • ASTM A351 |
| | • 316L Stainless Steel | • ASTM A351 |
| | • Alum Bronze | • ASTM B148 C95400 |
| | • Ductile Iron Covered Nylon | |
| | • 304 Stainless Steel Covered F46 | |

设计特点

- 额定压强 (1.0Mpa、1.6Mpa) 下紧密密封，零泄漏量。
- 先进的多重密封结构，避免阀体接触介质，做到整阀零外漏。
- 阀座密封面的科学设计，使阀座能与阀体管道法兰紧密结合，无需其它配件。
- 先进的蝶阀形状和配合，保证整阀密封性能更高，扭矩更低、流量更大、流阻更小，双向使用。
- 多标准体系设计制造，适用多种连接法兰，互换性高。
- 所有部件都经过防腐处理，适用于各种复杂的工作环境。

Designing Features

- Tight sealing and Zero leakage under rated pressure (1.0Mpa and 1.6Mpa).
- Advanced multi-sealing design to free valve body from direct contact with working media and to ensure Zero leakage.
- Scientific design for the sealing surface of Valve seat to make a tight connection between the seat and Valve body, between the seat and flange without any additional accessories.
- Advanced valve shape and mounting pattern design to ensure a better sealing, small torque, bigger flow and lower fluid resistance as flexible two-side connection.
- Designed and produced based on multi-standard system so the valve could be applied to flanges of various type, thus the valve enjoys excellent interchang ability.
- Because all the parts are undergone preservative treatment, the valve could be applied to Hard environment.



双偏心蝶阀

Double Offset Butterfly Valve

高寿命、高性能

寿命测试和实际应用证明，该结构阀门其使用寿命要大大高于普通阀门。当然，实际的性能取决于介质、压力和温度条件。氧、氮、氢、水及清洁介质使用这种阀门是最为理想。

双向密封结构

采用了利用阀板和座环上的介质压力，使两者紧密接合的新结构。因为介质压力越高，封闭性将越好，所以，其可靠性极高。

在构造上，两个方向无论哪一方受力，都可利用其介质压力，使阀板和座环（红色箭头所示）紧密接合。

切断和调节控制

- 具有优良的控制特性
- 流量特性曲线等比变化
- 调节范围广
- 即使用于控制仍能紧密密封



Long Life & High Performance

Testing and using indicate that a combination of components yields significantly longer life than a standard configuration valve. Actual cycle performance is subject to media, pressure and temperature conditions. Applications such as oxygen, nitrogen, hydrogen, water and clean media are ideally suited for option.

Double Direction Sealing

When pressure is on the insert side, pressure is applied under the seat lip, This further amplifies the sealing force between the disc and the seat.

When pressure is on the non-insert side, the disc moves into the seat, Due to the spherical profile of the disc, the more the disc moves into the seat, the tighter the shut-off. Excessive movement of the seat is limited by the flexible lip which contacts the bottom of the groove in the insert ring.

On-Off And Control Applications

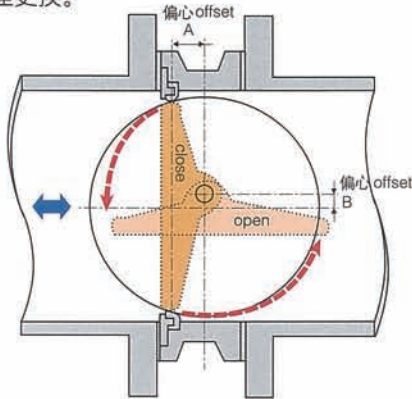
- Superior control characteristics
- Inherent flow characteristic is modified
- equal percentage
- Wide range ability
- Tight shut off even in control applications

双偏心结构特性

设计上，阀板相对于阀体和阀座设置了两个偏心量 A 和 B，因此在完全关闭前，阀板与阀座将维持在无接触状态。这种双偏心结构，可提供下列好处：

由于本体一侧的阀座和阀板之间的摩擦极少，因此可延长阀座的使用寿命，而且可用最小扭矩进行轻松的操作。座环的更换极为简单。

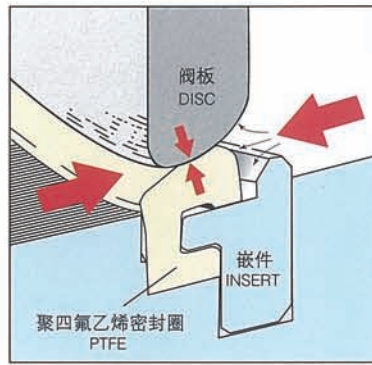
拆下本体一侧的嵌件，便可在现场取下座环，简单地进行阀座更换。



Double Offset Stem and Disc Design

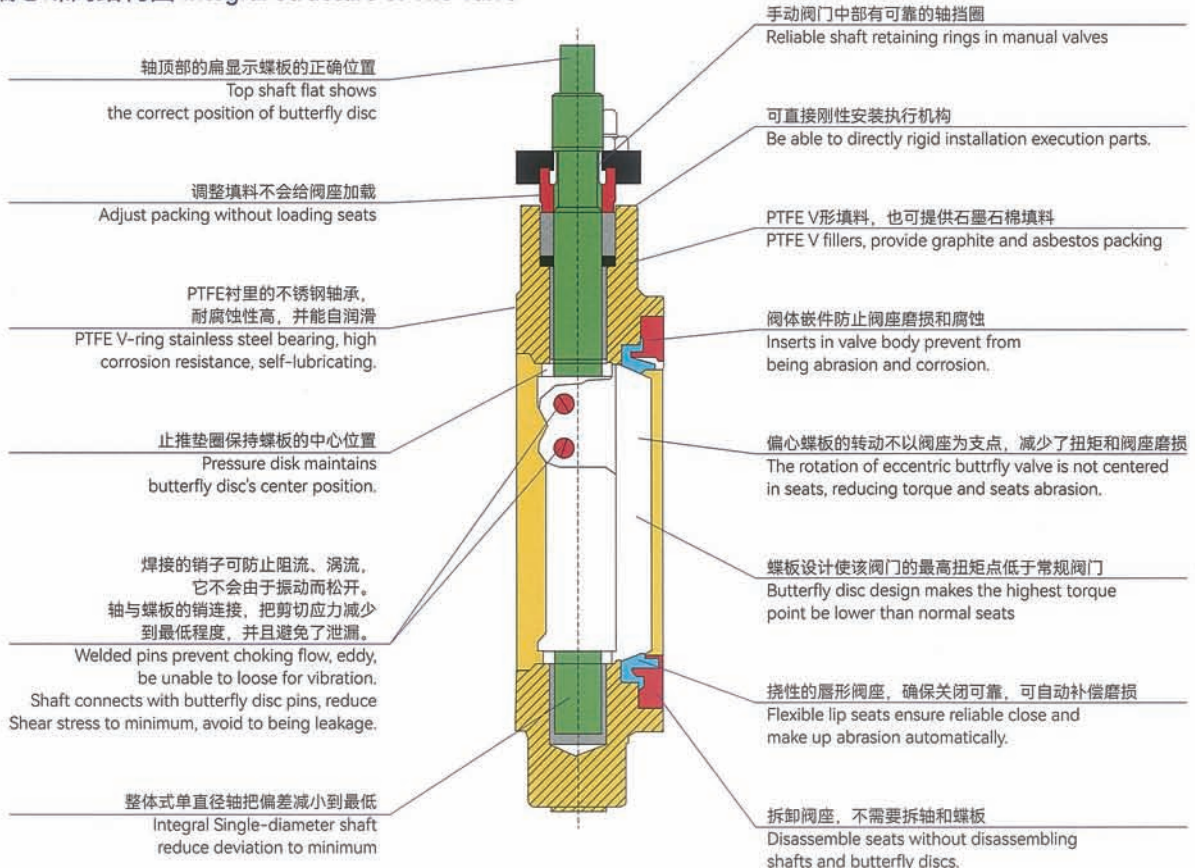
The double offset design of the reduced seat wear and bidirectional, zero leakage, shut off throughout the full pressure range.

At the initial point of disc opening, the offset disc produces a cam-like action, pulling the disc from the seat. this cam-like action reduces seat wear and eliminates seat deformation when the disc is in the open position. When open, the disc does not contact the seat, therefore seat service life is extended and



operating torques are reduced. As the valve closes, the cam-like action converts the rotary motion of the disc to a linear type motion to effectively push the disc against the seat prevents undesirable material build-up from slurries or suspended solids. The insert carry virtually equal loads while anchoring the disc to the stem, permitting accurate disc closure for consistent sealing and positive shut off.

双偏心蝶阀结构图 Integral Structure of The Valve



三偏心蝶阀

Triple Offset Butterfly Valve

特点与优点

- 阀杆防吹出环
防止阀杆在意外情况下被吹出
- 可更换的阀板密封环
降低现场维护成本
- 动负载填料压盖
标准低排放阀杆密封，泄漏率为百万分之 0~20PPM
动负载具有可预测及不变的填料压缩力，可持续使用
5000 个开关循环操作，而不需要调整或重新填料。
- 可带压更换填料的设计（备选件）
降低现场维护成本
- 全金属密封系统
合金钢 HRC30~45 度
司太立合金 HRC40~60 度
碳化钨 HRC70 度以上
- 过滤网阀杆轴承系统
防止阀杆抱死
- 阀板位置显示
阀杆末端提供简单的阀位指示
- 通用安装支架
执行机构安装支架和阀杆连接符合 ISO5211 标准



- Stem Blow Out Prevention Ring
Prevents stem ejection in the unlikely event internal failure.
- Replaceable Disc Seal
reduces field maintenance costs.
- Live Loading Packing Gland
STANDARD LOW EMISSION STEM SEAL WITH 0~20 PPM
LIVE-LOADING provides predictable and constant packing
compression for more than 5000 cycles before adjustment
or re-packing.
- Removable Packing with Pressure Design(Optional)
- Metal-to-Metal Patented Sealing System
- Filter Stem Bearing System
- Disc Position Indication
Stem end provides fool-proof verification of disc location.
- Universal Mounting
Actuator Mounting Plate and Stem Connection conform to
ISO5211.

工作原理

三偏心蝶阀具有双向无气泡紧密关闭性能。这种几何形状保证阀瓣密封只是在关闭位置时才与阀体阀座接触，因此不会产生摩擦或磨损，并且产生一种扭矩使得弹性密封具有足够的“焊接”性能，确保密封接触的均匀一致性。

三偏心几何形状

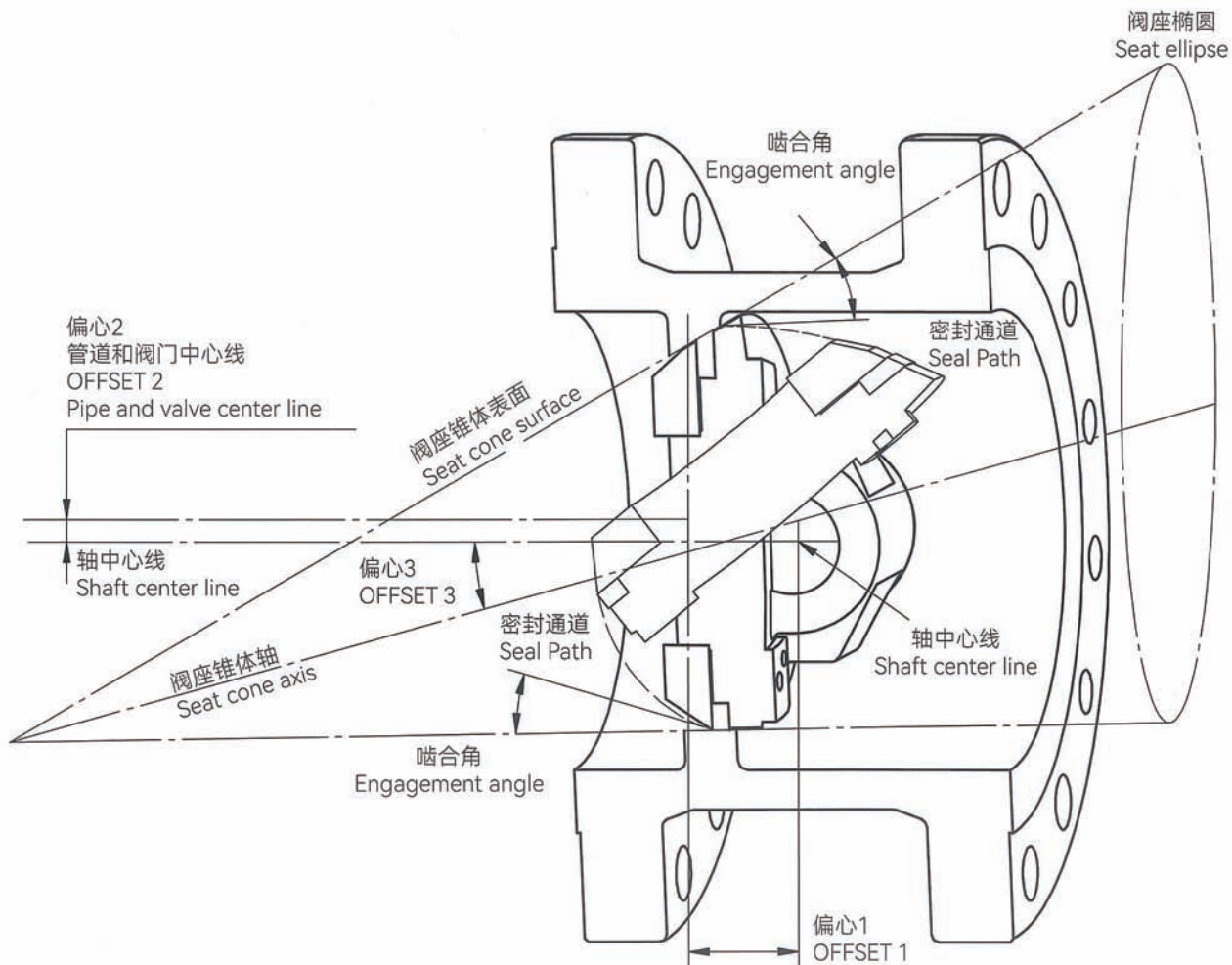
- 偏心 1 阀轴位于阀座轴后面，使得密封能够完全紧密环绕接触整个阀座。
- 偏心 2 阀轴中心线偏离管道和阀门中心线，这就免受阀门开启和关闭的干扰。
- 偏心 3 阀座锥体轴偏离阀轴中心线，这样可以在关闭和开启过程中消除摩擦作用，并且实现环绕整个阀座的均匀一致的压缩密封效果。

Principle of Operation

Triple Offset Butterfly Valve provides a bi-directional bubble tight shut-off. This geometry ensures that the disc seal contacts the body seat only at the final shut-off position without rubbing or galling, providing a torque generated resilient seal with sufficient 'wedging' to ensure a uniform seal contact.

The Triple Offset Geometry

- OFFSET 1 The shaft is offset behind the seat axis to allow complete sealing contact around the entire seat.
- OFFSET 2 The shaft centerline is offset from the pipe and valve which provides interference free opening and closing of the valve.
- OFFSET 3 The seat cone axis is offset from the shaft centerline to eliminate friction during closing and opening and to achieve uniform compressive sealing around the entire seat.



Krank & Luo – BALL VALVE SERIES 球阀系列

制造标准Manufacturer's standard:GB、DIN、API、ANSI、JIS、BS等
公称通径Nominal Diameter:10mm~4000mm及1/2"~160"
工作压力Working pressure:0.25MPa~76.0MPa/150Lb~4500Lb/10K~320K
工作温度Operation temperature: -196°C~816°C

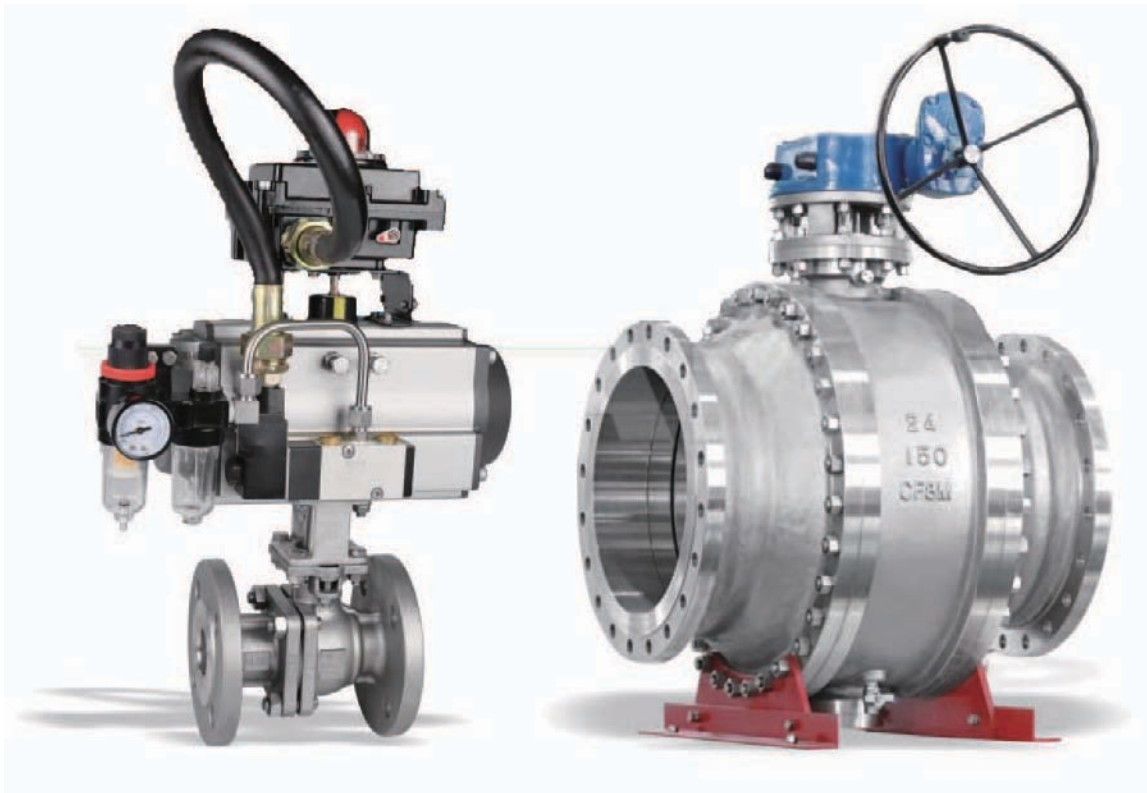
产品材质Product material :

WCB、A105、LCB、LF2、WC6、F11、WC9、F22、QT450、ZG1CrSMO、F5、ZG20CrMoV、ZG15Cr1Mo1V、12Cr1MoV、C12A、F91、F92、CF8、F304、CF8M、F316、CF3、F304L、CF3M、F316L、CF8C、F347、F304H、F316H、F321H、4A、F51、5A、F53、Inconel、Monel、铜合金(Copper alloy)、钛合金(Titanium alloy)、哈氏合金(Hastelloy alloy)、镍合金(Nickel alloy)

适用工况:石油、化工、天然气、电站、核电、军工、市政、冶金、建筑、制药、造纸、煤矿、水泥、排污、环保、新能源等行业

Applicable working conditions: petroleum, chemical, natural gas, power plants, nuclear power, military, municipal, metallurgical, construction, pharmaceutical, papermaking, coal mining, cement, pollution discharge, environmental protection, new energy industries





固定式法兰球阀
Fixed flange ball valve



气动三片式丝扣球阀
Pneumatic three-piece screw ball valve



气动法兰球阀
Pneumatic flanged ball valve



气动V型球阀
Pneumatic V-type ball valve



气动三通法兰球阀
Pneumatic three-way flanged ball valve



电动法兰球阀
Electric flanged ball valve



蜗轮固定式法兰球阀
Worm gear fixed flanged Ball valve



电动高平台法兰球阀
Electric high platform flange ball valve

控制阀由阀体、阀盖、执行器组成,可选配金属波纹管密封或延长杆。阀门可适配气动、电动、液动或手动执行器以及相关仪表附件。

用于工艺过程和具有工业要求的工厂的控制阀。名义阀门尺寸从1/2" 到10" (15到250毫米) 压力等级ANSI Class 125到Class 300温度范围-320 °F到+800 °F (-196 °C到+427 °C) 。



Features

- Modular design, rugged and heavy duty construction, full range of body and trim materials
 - One-piece ultra-rigid valve bonnet and yoke up to size 6"
 - Field retrofittable extension bonnets and metal bellows seals
 - Many configurations, e.g. Cryogenic or 'Lethal service'
 - Self-adjusting, live-loaded PTFE V-ring stuffing box
 - Port-guided V-port asymmetric plugs above CV 20 standard
 - Excellent dynamic response and high trim stability
 - Self-locking seats, exchangeable for various CV values
 - Low height, reversible, multi-spring/rolling diaphragm actuator
 - NAMUR (IEC 534-6) accessory mounting standard
 - Complete selection of actuators options, positioners and control accessories
- Standard versions - available combinations: see Table 1
- Body ASTM Cast A 126 Cl. B, A 216 WCB, A 351 CF8M, alternatively Forged A105 or A 182 F316
 - End connections ANSI Class 125 with FF-Flanges, Class 250 Female threaded NPT, Class 150 or 300 with RF-Flanges
 - Packing PTFE V-ring spring-loaded/self-adjusting, temperature range 15 °F to 430 °F (-10 °C to +220 °C)
 - Trim equal percentage characteristic , metal-to-metal seal



Krank & Luo industries
FOCUS ON DEVELOPMENT
上海德托康国际贸易有限公司

Our Products

➤ Resilient Seated Wedge Gate Valves



Acc. to EN1171

with flange connection

DN40-DN1200/PN10

DN50-DN800/PN16

Face to face length according to EN558

Basic series 14(F4) and basic series15(F5)

Resilient seated, with no rising stem

Material

Valve body and cover, GJS-400-15

Stem ,1.4021,1.4301,1.4401,1.4462,1.4057,or according to your requirements.

Rubber material for the plate and sealing, NBR or EPDM

Optional items

hand wheel,bare shaft, electric actuator, or pneumatic actuator

Application

Drinking water or sewage water

➤ Knife Gate Valve

Knife gate valve with flange connection

Face to face length according to EN558

Basic series 20(K1)

DN50-DN300/PN10

DN350-DN800/PN4

DN1000-DN1200/PN2.5

Equipped with rising stem or no rising stem

Material

Valve body, GJS-400-15 or CF8M

Cover, carbon steel or stainless steel

Plate, 1.4301,1.4401,1.4462or according to your requirements

Stem,1.4021,1.4057,1.4301,1.4401,1.4462,or according to your requirements



Rubber sealing parts, NBR or EPDM

Optional items hand wheel, chain wheel, electric actuator, or pneumatic actuator

➤ Rubber flap check valve

Acc. to EN12334

With flange connection

DN50-DN300/PN10

DN50-DN300/PN16

Face to face length acc. To EN558

Basic series 48(F6)

Resilient seated

Material:

Body: GJS-400-15

Rubber sealing: NBR or EPDM



➤ Swing check valve

Acc. to EN12334

With flange connection

DN50-DN300/PN10

DN50-DN300/PN16

Face to face length

Acc. To EN558

Basic series 48(F6)

With inside shaft or lever and adjustable weight

Resilient seated or metal seated

Material:

Body: GJS-400-15

Metal Seated: 1.4301, 1.4401, bronze

Rubber sealing: NBR or EPDM

Shaft: 1.4021, 1.4057, 1.4301, 1.4401



➤ Double eccentric butterfly valve

Acc. To EN593, with flange connection

DN80-DN1200/PN10

DN80-DN1200/PN16

DN80-DN1200/PN25

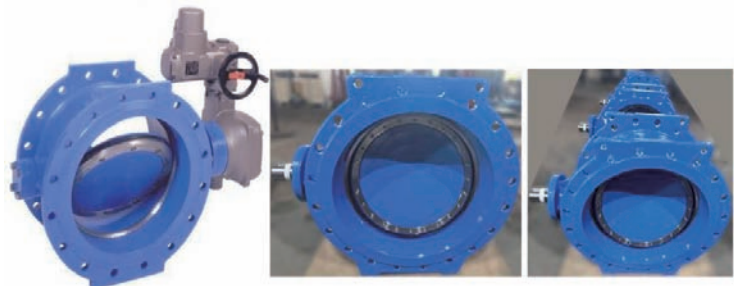
Face to face length, acc. To EN558

Basic series 14(F4)

Resilient seated

Material:

Body: GJS-400-15



Krank & Luo – Knife Gate Valve (Non-rising)

 <p>Krank & Luo industries FOCUS ON DEVELOPMENT 上海德托康国际贸易有限公司</p>	Technical Data Sheet 技术数据单	
	Product Name 产品名称	Non-rising stem Knife Gate Valve with handwheel DN50-600 暗杆刀阀带手轮DN50-600

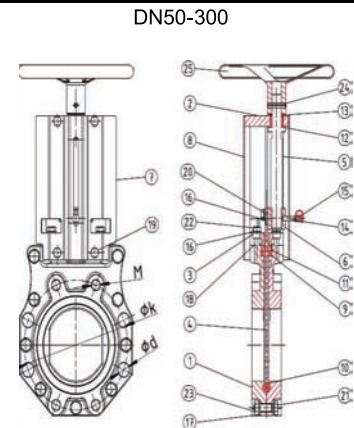
I . Main features 主要特点

1	Regulate or cut off flows which contain coarse particle, sticky paste, floating dirt and other media 调节或切断含有大颗粒, 粘稠的, 悬浮物或其他介质
2	Range of application: water supply and drainage, urban sewage, pulp, paper, slurries or powders on/off control 应用范围: 给排水, 城市污水, 纸浆, 污泥或粉末等的开关控制
3	served under the pressure rating PN10 for DN50-DN300, PN8 for DN350-DN400 and PN6 for DN500-DN600 压力等级: PN10 DN50-DN300, PN8 DN350-DN400, PN6 DN500-DN600
4	Service temperature under 70° C 操作温度70 ° C 以下
5	non-rising stem and bi-direction structures 暗杆, 双向结构
6	Stainless steel material knife can prevent the leakage led by corrosion 不锈钢材质阀板防止因腐蚀而导致的泄露
7	Reliable resilient sealing, U-type gasket can effectively avoid leakage after cutting off the mediums which contains piece, particle and fiber 软密封, U型密封垫, 可以有效避免在切断含有片状, 颗粒和纤维状介质而泄露
8	Full clear bore for optimum flow 全通径设计以实现最佳流量
9	Flanges dimension and mounting holes conform to EN1092-2 PN10 法兰尺寸及安装孔符合EN1092-2 PN10
10	Face to face dimension and tolerances: EN558-1 series 20 面到面尺寸及公差符合EN558-1 系列20
11	Excellent corrosion resistance for body due to epoxy coating thickness min. 250 µm 极好的耐腐蚀特性, 由于阀体喷涂环氧树脂厚度250 µm
12	Options available 可选项: I : Close direction 关闭方向: <input type="checkbox"/> Clockwise Close II : Gasket material 密封材质: <input type="checkbox"/> NBR <input type="checkbox"/> EPDM III: Epoxy powder 环氧粉末: <input type="checkbox"/> Akzo RAL 5015 <input type="checkbox"/> Akzo RAL 5015 WRAS IV: Plate 阀板: <input type="checkbox"/> 1.4301 <input type="checkbox"/> 1.4401 V: Side plate 护罩: <input type="checkbox"/> A2 <input type="checkbox"/> Carbon steel epoxy coated
13	Default configuration 默认配置: I : Clockwise Close 顺时针关闭 II : NBR gasket for sealing 密封材质NBR III: Akzo epoxy powder RAL 5015 环氧树脂粉末RAL5015 IV: Plate: 1.4301 阀板: 1.4301 V: Side plate: Carbon steel epoxy coated 防护罩: 碳钢喷涂环氧树脂




II . Material and Coating 材质及喷涂

Item	Description	Material&STD
1	Body 阀体	Ductile iron EN-GJS-400-15 EN1563
2	Support 支撑	Ductile iron EN-GJS-400-15 EN1563
3	Gland 密封	Ductile iron EN-GJS-400-15 EN1563
4	Plate 阀板	1.4301(X5CrNi18-10) / 1.4401 EN10088-1
5	Stem 阀杆	1.4057(X17CrNi16-2) EN10088-1
6	Stem nut	albronze
7-8	Side plate 护罩	A2 / Carbon steel epoxy coated
9	Gasket 密封	NBR
10	Body gasket 阀体密封	NBR
11	pressure plate 压盘	POM
12	Bushing 套	POM
13	Washer 垫圈	POM



Krank & Luo – Knife Gate Valve (Rising stem)

 Krank & Luo industries <small>FOCUS ON DEVELOPMENT</small> 上海德托康国际贸易有限公司	Technical Data Sheet 技术数据单	
	Product Name 产品名称	Rising stem Knife Gate Valve with handwheel DN50-600明杆刀闸带手轮 DN50-600

I . Main features 主要特点

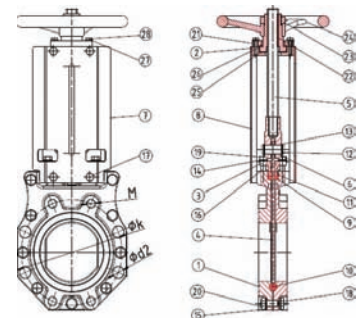
1	Regulate or cut off flows which contain coarse particle, sticky paste, floating dirt and other media 调节或切断含有大颗粒, 粘稠的, 悬浮物或其他介质
2	Range of application: water supply and drainage, urban sewage, pulp, paper, slurries or powders on/off control 应用范围: 给排水, 城市污水, 纸浆, 污泥或粉末等的开关控制
3	served under the pressure rating PN10 for DN50-DN300, PN8 for DN350-DN400 and PN6 for DN500-DN600 压力等级: PN10 DN50-DN300, PN8 DN350-DN400, PN6 DN500-DN600
4	Service temperature under 70° C 操作温度 70 ° C 以下
5	Rising stem and bi-direction structures 明杆, 双向结构
6	Stainless steel material knife can prevent the leakage led by corrosion 不锈钢材质 阀板防止因腐蚀而导致的泄露
7	Reliable resilient sealing, U-type gasket can effectively avoid leakage after cutting off the mediums which contains piece, particle and fiber 软密封, U型密封垫, 可以有效避免在切断含有片状, 颗粒和纤维状介质而泄露
8	Full clear bore for optimum flow 全通径设计以实现最佳流量
9	Flanges dimension and mounting holes conform to EN1092-2 PN10 法兰尺寸及安装孔符合 EN1092-2 PN10
10	Face to face dimension and tolerances: EN558-1 series 20 面到面尺寸及公差符合 EN558-1 系列 20
11	Excellent corrosion resistance for body due to epoxy coating thickness min. 250 μm 极好的耐腐蚀特性, 由于阀体喷涂环氧树脂厚度 250 μm
12	Options available 可选项: I : Close direction 关闭方向: <input type="checkbox"/> Clockwise Close 顺时针关闭 II : Gasket material 密封材质: <input type="checkbox"/> NBR <input type="checkbox"/> EPDM III: Epoxy powder 喷涂粉末: <input type="checkbox"/> Akzo RAL 5015 <input type="checkbox"/> Akzo RAL 5015 WRAS IV: Plate 阀板材质: <input type="checkbox"/> 1.4301 <input type="checkbox"/> 1.4401 V: Side plate 防护罩材质: <input type="checkbox"/> A2 <input type="checkbox"/> Carbon steel epoxy coated 碳钢喷涂
13	Default configuration 默认配置: I : Clockwise Close 顺时针关闭 II : NBR gasket for sealing 密封件材质 NBR III: Akzo epoxy powder RAL 5015 环氧树脂粉末 RAL5015 IV: Plate: 1.4301 阀板 1.4301 V: Side plate: Carbon steel epoxy coated 防护罩: 碳钢喷涂环氧树脂



II . Material and Coating 材质及喷涂

Item 序号	Description 描述	Material & STD 材质及标准
1	Body 阀体	Ductile iron EN-GJS-400-15 EN1563
2	Support 支撑	Ductile iron EN-GJS-400-15 EN1563
3	Gland 密封	Ductile iron EN-GJS-400-15 EN1563
4	Plate 闸板	1.4301(X5CrNi18-10) / 1.4401 EN10088-1
5	Stem 阀杆	1.4021(2Cr13) EN10088-1
6	Fork lift 支撑杆	1.4301(X5CrNi18-10) EN10088-1
7-8	Side plate 防护罩	Stainless steel A2 / Carbon steel epoxy coated
9	Gasket 密封垫	NBR
10	Body gasket 阀体密封	NBR
11	pressure plate 压盘	POM
12	Pin 销	Stainless steel A2
13	Closing ring 闭合环	Steel

DN50-300





Krank & Luo industries

FOCUS ON DEVELOPMENT

上海德托康国际贸易有限公司

**Designed
for all
industrial-applications**

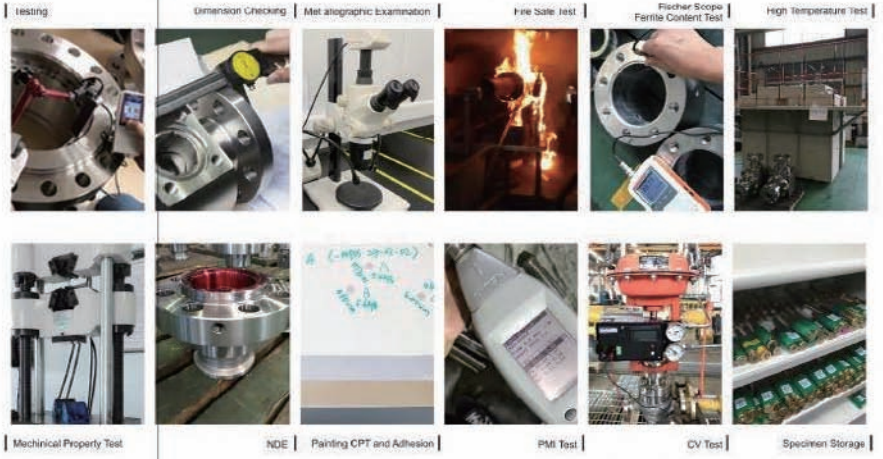


PRODUCTION PROCESS



INSPECT

Inspection is a very important part to control the valve quality. Krank & Luo industries has different kinds of inspection equipment to cover most of special test requirement.



SPECIAL MATERIAL VALVE

We manufacture valve in special materials such as Titanium, Inconel, Hastelloy, Incoloy, Monel, Alloy20, super duplex and other corrosion resistant alloys. Our product type includes Ball, Globe, Gate, Check, DSB, HP Butterfly, etc. We have a variety of forged valve material in stock. Having valve body forgings allows us to provide timely deliveries at short notice of complete valves in a variety of pressure classes and material grades that end users come to rely on in most instances, for these urgent valves, please feel free to contact us.

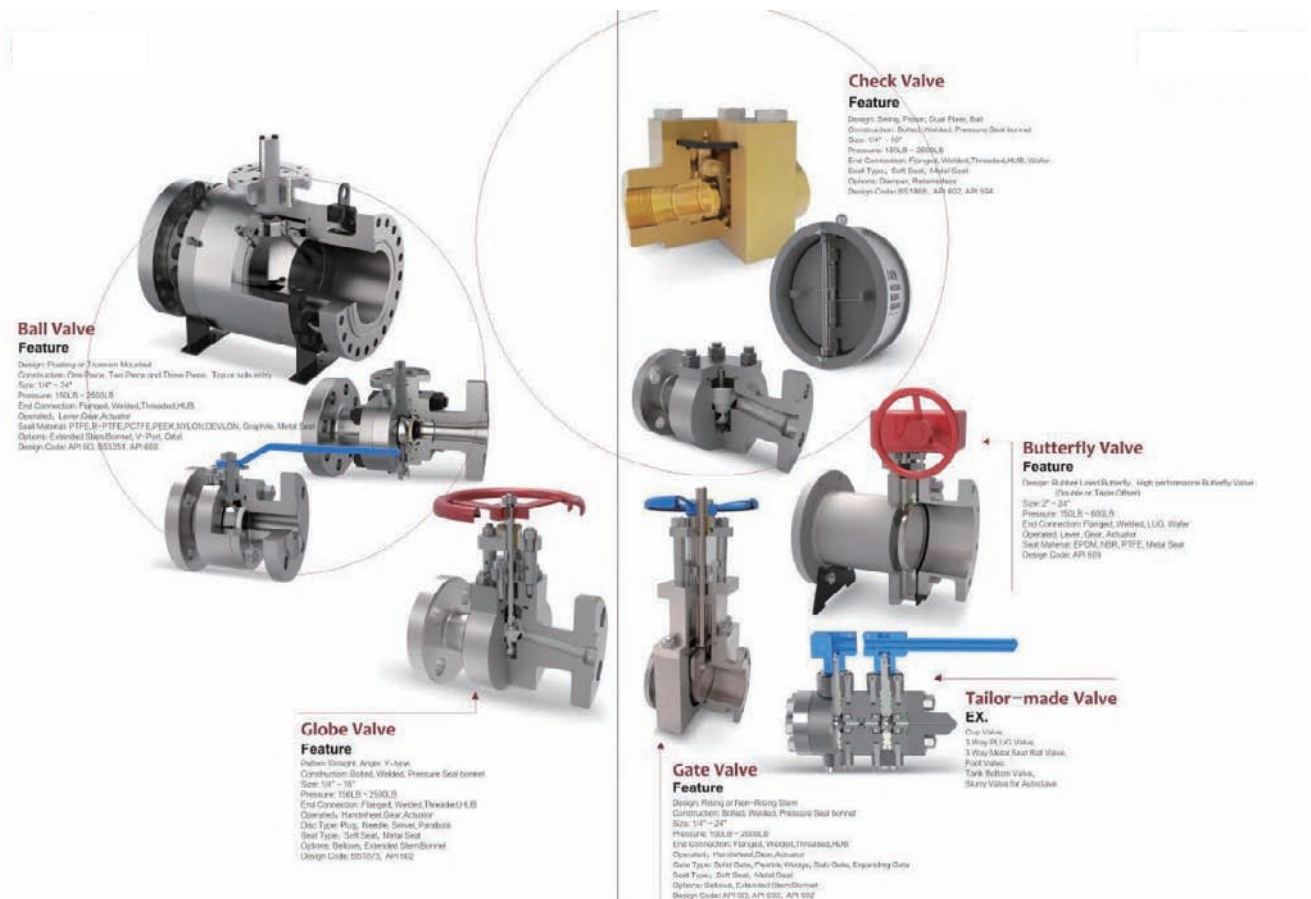


Material Name	Material Grade	
Titanium Alloy	GR1, F2, F3, F4, F5, F6, F7, F12	
Tantalum Alloy	R90200, R90202, R90205, R90208	
Zirconium Alloy	Zircorun 702, 703, 705	
Nickel Alloy	Inconel	Inconel 600, 625, 690, 718, 825
	Hastelloy	Hastelloy B, B2, B3, C, C276, C280
	Incoloy	Incoloy 800, 800H, 800HT, 825
	Monel	Monel 400, 500
	Alloy20	C276, R3000
Steel	Austenitic 304, 304L, 316, 316L, 321, 321H, 347H	
Bronze	C90400, C90401, C90402, C90403	
Duplex Stainless Steel	A192, F51, F53, A192400, 2A, 1A, 4A, 3A, 5A	
Super Austenitic Stainless Steel	A192404, A192405, A192406, A192407, A192408	
Austenitic Stainless Steel	A192409, A192410, A192411, A192412, A192413, A192414, A192415, A192416, A192417, A192418, A192419, A192420, A192421, A192422, A192423, A192424, A192425, A192426, A192427, A192428, A192429, A192430, A192431, A192432, A192433, A192434, A192435, A192436, A192437, A192438, A192439, A192440, A192441, A192442, A192443, A192444, A192445, A192446, A192447, A192448, A192449, A192450, A192451, A192452, A192453, A192454, A192455, A192456, A192457, A192458, A192459, A192460, A192461, A192462, A192463, A192464, A192465, A192466, A192467, A192468, A192469, A192470, A192471, A192472, A192473, A192474, A192475, A192476, A192477, A192478, A192479, A192480, A192481, A192482, A192483, A192484, A192485, A192486, A192487, A192488, A192489, A192490, A192491, A192492, A192493, A192494, A192495, A192496, A192497, A192498, A192499, A192500	
Martensitic Stainless Steel	A192501, A192502, A192503, A192504, A192505, A192506, A192507, A192508, A192509, A192510, A192511, A192512, A192513, A192514, A192515, A192516, A192517, A192518, A192519, A192520, A192521, A192522, A192523, A192524, A192525, A192526, A192527, A192528, A192529, A192530, A192531, A192532, A192533, A192534, A192535, A192536, A192537, A192538, A192539, A192540, A192541, A192542, A192543, A192544, A192545, A192546, A192547, A192548, A192549, A192550	
Precipitation-Hardening Stainless Steel	A192551, A192552, A192553, A192554, A192555, A192556, A192557, A192558, A192559, A192560, A192561, A192562, A192563, A192564, A192565, A192566, A192567, A192568, A192569, A192570, A192571, A192572, A192573, A192574, A192575, A192576, A192577, A192578, A192579, A192580, A192581, A192582, A192583, A192584, A192585, A192586, A192587, A192588, A192589, A192590, A192591, A192592, A192593, A192594, A192595, A192596, A192597, A192598, A192599, A192600	
Alloy Steel	A192601, A192602, A192603, A192604, A192605, A192606, A192607, A192608, A192609, A192610, A192611, A192612, A192613, A192614, A192615, A192616, A192617, A192618, A192619, A192620, A192621, A192622, A192623, A192624, A192625, A192626, A192627, A192628, A192629, A192630, A192631, A192632, A192633, A192634, A192635, A192636, A192637, A192638, A192639, A192640, A192641, A192642, A192643, A192644, A192645, A192646, A192647, A192648, A192649, A192650, A192651, A192652, A192653, A192654, A192655, A192656, A192657, A192658, A192659, A192660, A192661, A192662, A192663, A192664, A192665, A192666, A192667, A192668, A192669, A192670, A192671, A192672, A192673, A192674, A192675, A192676, A192677, A192678, A192679, A192680, A192681, A192682, A192683, A192684, A192685, A192686, A192687, A192688, A192689, A192690, A192691, A192692, A192693, A192694, A192695, A192696, A192697, A192698, A192699, A192700	
Carbon Steel	A192701, A192702, A192703, A192704, A192705, A192706, A192707, A192708, A192709, A192710, A192711, A192712, A192713, A192714, A192715, A192716, A192717, A192718, A192719, A192720, A192721, A192722, A192723, A192724, A192725, A192726, A192727, A192728, A192729, A192730, A192731, A192732, A192733, A192734, A192735, A192736, A192737, A192738, A192739, A192740, A192741, A192742, A192743, A192744, A192745, A192746, A192747, A192748, A192749, A192750, A192751, A192752, A192753, A192754, A192755, A192756, A192757, A192758, A192759, A192760, A192761, A192762, A192763, A192764, A192765, A192766, A192767, A192768, A192769, A192770, A192771, A192772, A192773, A192774, A192775, A192776, A192777, A192778, A192779, A192780, A192781, A192782, A192783, A192784, A192785, A192786, A192787, A192788, A192789, A192790, A192791, A192792, A192793, A192794, A192795, A192796, A192797, A192798, A192799, A192800	



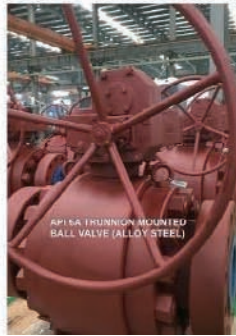
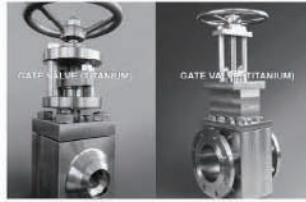
Valve Material List

Material Name	Material Grade	
Titanium Alloy	B381 F2, F3, F5, F7, F12	
Tantalum Alloy	R05200,R05252,R05255,R05240	
Zirconium Alloy	Zirconium 702, 703, 705	
Nickel Alloy	Inconel	Inconel 600, 625,690, 718, X750
	Hastelloy	Hastelloy B, B2, B3, C, C276, G30
	Incoloy	Incoloy800,800H, 800HT, 825
	Monel	Monel 400, K500
	Alloy20	CN7M(N08020)
	Nickel	Nickel 200, 201
Bronze	C95800, C83600, C63200,C61900	
Duplex Stainless Steel	A182 F51, F53, F55 A890(A995) 2A, 3A, 4A, 5A, 6A	
Super Austentic Stainless Steel	N08904(904L),N08926(6MOLY),F44	
Austentic Stainless Steel	CF3,CF8, CF3M,CF8M,CG8M,CF8C, 304L,304,316L,316,316Ti,317L,321(H),347(H)	
Martensitic Stainless Steel	13CR	
Precipitation-Hardening Stainless Steel	17-4PH	
Alloy Steel	WC6, WC9, A217 C5, C12A, F11, F22, F91	
Carbon Steel	WCB,WCC, LCB,LCC A105N,LF2	



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