

# VNT VORNET VALVE

## GATE & GLOBE&CHECK VALVE



# VNT VORNET VALVE

**VORNET VALVE CO., LTD**

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www.vornetvalve.com

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# ABOUT Us

沃耐特阀门是集阀门研发、制造、服务、销售于一体的制造型企业，前身是浙江诚一阀门，自 2004 年以来，始终深耕阀门领域，为高温、高压、特殊工况领域的阀门用户提供零缺陷的产品。

本公司主导产品包括闸阀，截止阀，止回阀，球阀，节流阀，调节阀，泵保护阀，过滤器等。产品严格按照 API、ASME、ASTM、ISO、EN、GB 等规范设计和生产。产品通径 NPS:1/2"~60",DN15~1500MM，压力等级 CLASS:150LB~4500LB,PN16~760，工作温度 -196° C~680° C，阀门主体材料有碳钢、合金钢、不锈钢、钛材、蒙乃尔、20 号合金等，广泛应用于高温、高压、强腐蚀、超低温、超高温等特殊工况。

公司致力于为用户提供针对特殊工况的阀门选型、材料选择与产品定制等专业服务，提供系统解决方案。支持一件起订与批量发货。

Vornet Valve is a manufacturing enterprise integrating valve R&D, manufacturing, service, and sales. Formerly known as Zhejiang Chengyi Valve, it has been deeply engaged in the valve industry since 2004, providing zero-defect products to valve users in high-temperature, high-pressure, and special-service conditions.

Our company's leading products include gate valves, globe valves, check valves, ball valves, throttle valves, control valves, pump protection valves, strainers, and more. All products are designed and manufactured in strict accordance with specifications such as API, ASME, ASTM, ISO, EN, and GB. Product sizes range from NPS 1/2" to 60" (DN15 to DN1500 mm), pressure classes from Class 150 to Class 4500 (PN16 to PN760), and operating temperatures from -196° C to 680° C. Main body materials include carbon steel, alloy steel, stainless steel, titanium, Monel, Alloy 20, etc., and are widely used in special service conditions such as high temperature, high pressure, severe corrosion, ultra-low temperature, and ultra-high temperature.

The company is committed to providing professional services including valve selection, material choice, and product customization for special service conditions, offering systematic solutions. We support orders from a single piece to batch deliveries.

## 匠心制造 诚信第一

CRAFTSMANSHIP AT HEART / INTEGRITY ABOVE ALL

公司本着：品质是我们生存的根本，效益是我们发展的基础，信誉是我们立足的保障，满意是我们基本的追求。

Our company is guided by the principle that: Quality is the very root of our survival, Efficiency is the foundation of our development, Reputation is the guarantee of our foothold, Satisfaction is our fundamental pursuit.

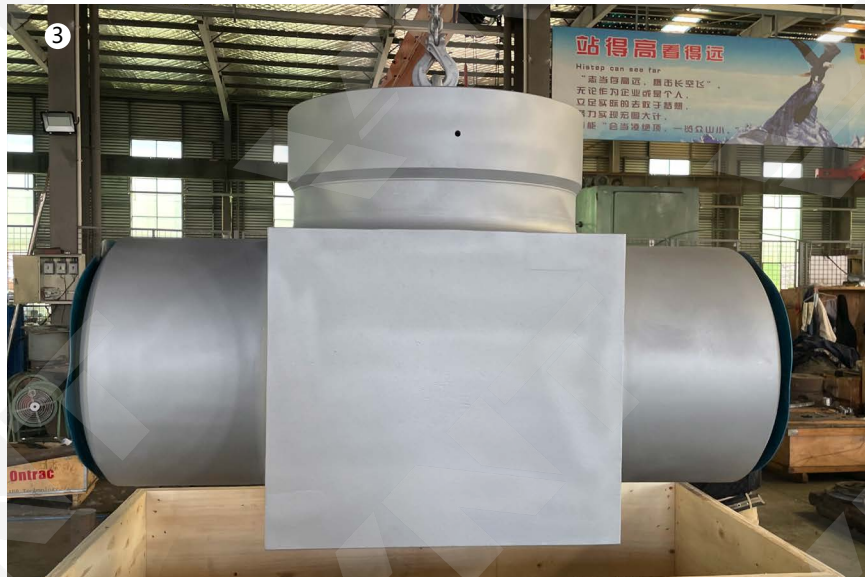


**22 YEARS**  
**发展历程**  
DEVELOPMENT  
COURSE

**99 %**  
**客户满意度**  
CUSTOMER  
SATISFACTION

# 2004





- 1 8"2500LB Electric Gate Valve/ 电动闸阀
- 2 20"900LB Golbe Valve/ 截止阀
- 3 18"1500LB F51 Check Valve/ 止回阀
- 4 8"2500LB Gate Valve/ 闸阀
- 5 24"300LB Extended Stem Gate Valve/ 加长杆闸阀
- 6 16"900LB Gate Valve/ 闸阀
- 7 8"2500LB Check Valve/ 止回阀
- 8 4"2500LB Gate Valve/ 闸阀

## 闸阀 GATE VALVE

### 产品范围 Specifications

|                                     |
|-------------------------------------|
| 阀门尺寸 (铸件) / Casting Size: 2"~60"    |
| 阀门尺寸 (锻件) / Forging Size: 1"~36"    |
| 温度范围 / Temperature Range: -46~650°C |
| 压力等级 / Pressure Rating: 150~4500LB  |

### 设计特色 Design Features

- 楔式 / 平行结构  
Wedge / Parallel Design
- 中部自密封 / 螺栓连接  
Self-Sealing Center or Bolted
- 防吹出阀杆  
Blowout-Proof Stem
- 堆焊 STL.6 上密封  
Backseat overlay stl.6
- 座圈密封焊安装  
Seat Rings: Seal-Welded
- 低泄漏设计  
Low-Leakage Design

### 设计和检验标准 Design and Inspection Standards

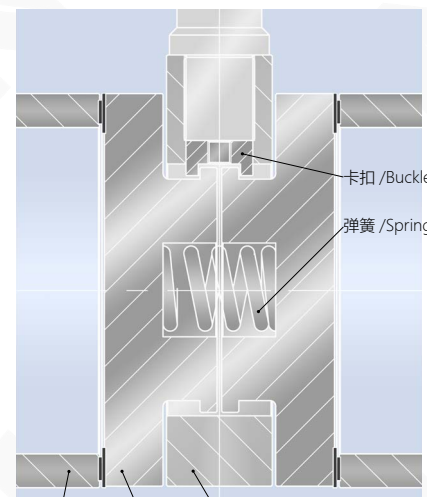
|                                       |
|---------------------------------------|
| 设计标准 / Design std: ASME B16.34/API 6D |
| 壳体壁厚 / shell: ASTM B16.34             |
| 结构长度 Face to Face: ASTM B16.10        |
| 压力试验 / Pressure Test: API 598         |
| 耐火试验 / Fire Resistance Test: API 607  |

### 连接端标准 End Connection Standards

|                          |
|--------------------------|
| 法兰端 / Flange: ASTM B16.5 |
| 对焊端 / BW: ASTM B16.25    |
| 承插焊 / SW: ASTM B16.11    |

## 设计特色 / Structure Comparison

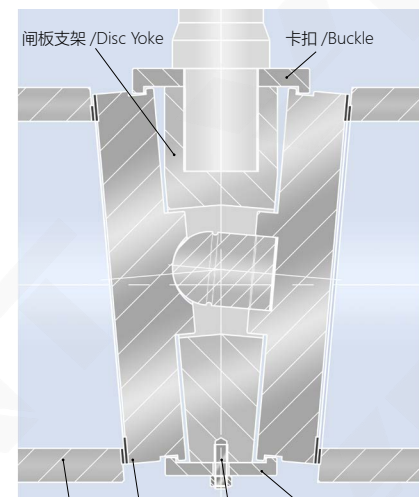
### 平行双闸板 Parallel Double Disc



阀座 / Seat 闸板 / Disc 闸板支架 / Disc Yoke 卡扣 / Buckle 弹簧 / Spring

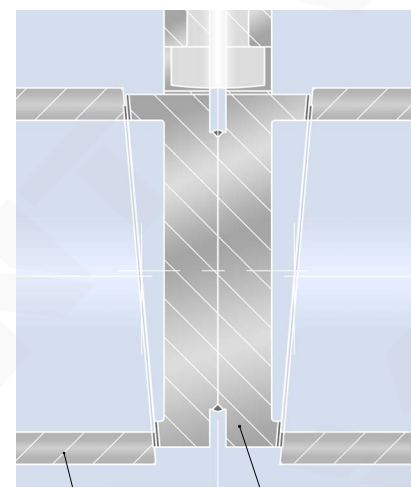
密封件由两块闸板，一块闸板支架，一块卡扣及一个弹簧组成，闸板与阀座密封面堆焊 3mm 厚硬质合金，表面通过精密研磨后粗糙度  $\leq Ra0.8$ 。  
在管道工作中，中间弹簧提供轴向力推动左右闸板，使闸板和阀座密封面能够始终保持贴合。高温工况下，闸板，闸板支架和卡扣间的间隙配合使闸板不会因为热胀冷缩咬死，保证严酷环境下达到不泄露。  
Seal assembly: 2 gates, 1 bracket, 1 clip, 1 spring. Gate/seat faces hardfaced 3mm hard alloy, ground to  $Ra \leq 0.8$ .  
Spring applies axial force to maintain gate-seat contact. Clearance fit prevents thermal seizure, ensuring leak-tight sealing under severe conditions.

### 楔式双闸板 Wedge Type Double Disc



闸板支架 / Disc Yoke 卡扣 / Buckle 阀座 / Seat 闸板 / Disc 螺钉 / screw

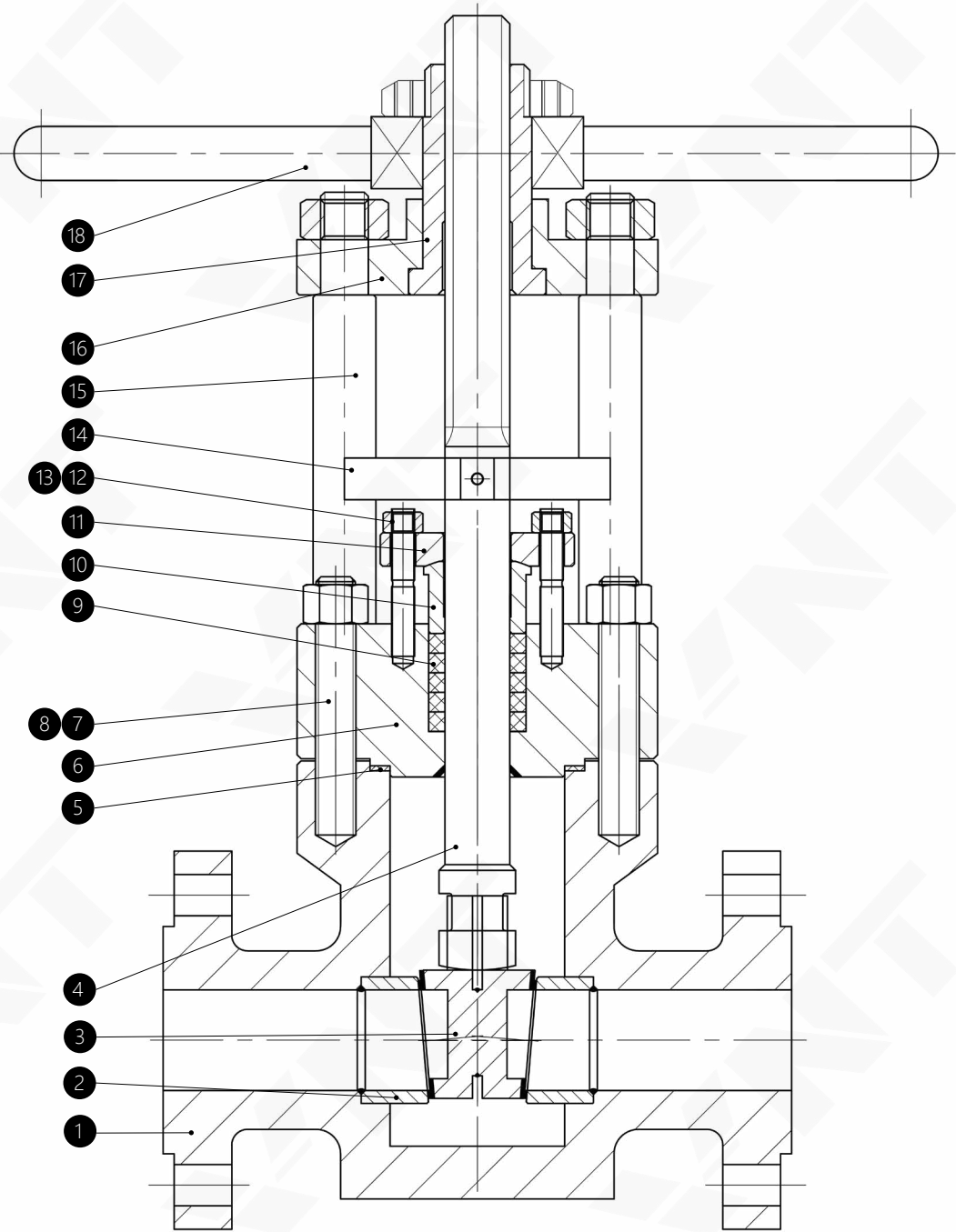
### 楔式单闸板 Wedge Type Single Disc



阀座 / Seat 闸板 / Disc

密封件由两块闸板闸板焊接组成，闸板与阀座密封面堆焊 3mm 厚硬质合金，表面通过精密研磨后粗糙度  $\leq Ra0.8$ 。  
在高温环境中，中间凹槽可以为闸板提供一定的变形空间，使闸板不会因为热胀冷缩和阀座咬死，提高密封件寿命，保证严酷环境下的密封可靠性。  
Seal comprises two welded gates. Gate and seat sealing surfaces are hardfaced with 3mm hard alloy and precision ground to roughness  $\leq Ra0.8$ .  
The central groove allows thermal deformation at high temperatures, avoiding gate-seat seizure, prolonging service life and ensuring reliable sealing under severe conditions.

结构示意 / STRUCTURAL DIAGRAM



楔式单闸板  
Wedge Type Single Disc

温度范围 /Temperature Range: -49℃ ~650℃  
尺寸范围 /TSize Range: ≤ 2 "

- 2

堆焊 6 号钴基的座圈采用密封焊安装，也可按照客户要求采用螺纹座圈。  
The seat ring is hard-faced with Stl.6 and installed by seal welding. Alternatively, it can be threaded in accordance with customer requirements.
- 3

弹性楔型闸板能够对座圈表面失真和由于管道应力引起的阀体变形进行补偿。  
The flexible wedge compensates for seat surface distortion and valve body deformation caused by pipeline stresses.
- 4

闸杆与闸板连接强度超过闸杆螺纹根部的强度。  
The connection between the stem and wedge is stronger than the tensile strength at the root of the stem threads.
- 6

防吹出闸杆设计具有一个锥型的上密封面，在阀门全开时，它与闸盖上密封座靠紧。  
The stem features a tapered backseat that engages with the backseat in the bonnet when the valve is fully open.

材料表 / BOM

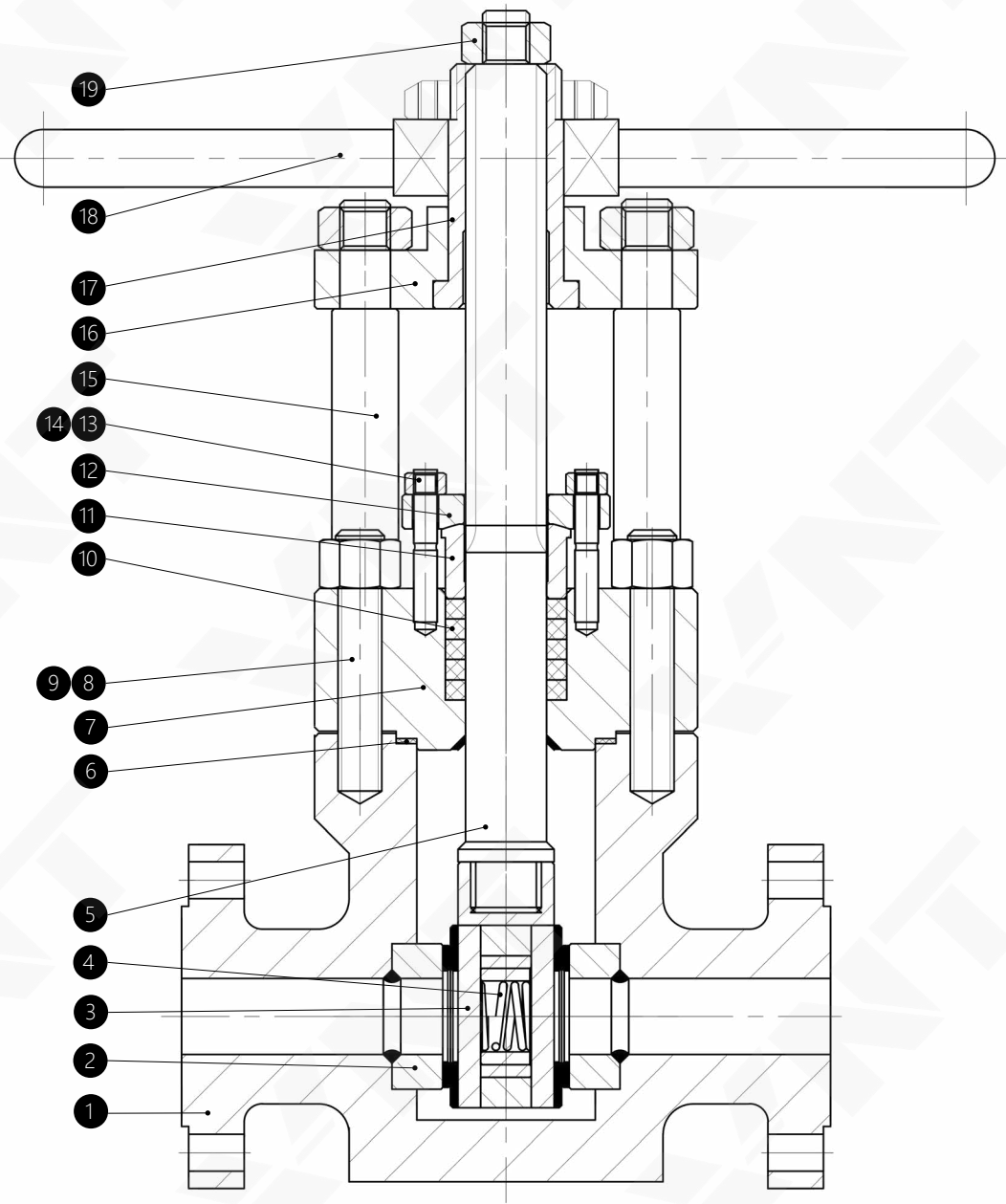
| 序号<br>No.1 | 零部件<br>Parts Name   | 标准<br>Standard Material | 高温环境<br>High Temp. Service | 高温环境<br>High Temp. Service | 耐腐蚀环境<br>Corrosive Service |
|------------|---------------------|-------------------------|----------------------------|----------------------------|----------------------------|
| 1          | 阀体 /Body            | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 2          | 阀座 /Seat            | ASTM A105+Stl.6         | ASTM A182 F11/F22+Stl.6    | ASTM A182 F91+Stl.6        | ASTM A182 F51+Stl.6        |
| 3          | 闸板 /Disc            | ASTM A105+Stl.6         | ASTM A182 F11/F22+Stl.6    | ASTM A182 F91+Stl.6        | ASTM A182 F51+Stl.6        |
| 4          | 闸杆 /Stem            | ASTM A182 F6a           | ASTM A182 F6a              | XM-19                      | ASTM A182 F51              |
| 5          | 阀盖垫片 /Bonnet Gasket | Graphite+SS304          | Graphite+SS304             | Graphite+SS304             | Graphite+SS316             |
| 6          | 阀盖 /Bonnet          | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 7          | 阀盖螺母 /Bonnet Nut    | ASTM A194 2H            | ASTM A194 7                | ASTM A194 7                | ASTM A194 8                |
| 8          | 阀盖螺栓 /Bonnet Bolt   | ASTM A193 B7            | ASTM A193 B16              | ASTM A193 B16              | ASTM A193 B8               |
| 9          | 闸杆填料 /Stem Packing  | Graphite                | Graphite                   | Graphite                   | Graphite                   |
| 10         | 填料压套 /Gland         | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 11         | 填料压板 /Plate         | ASTM A105               | ASTM A105                  | ASTM A105                  | ASTM A182 F304             |
| 12         | 压套螺母 /Gland Nut     | ASTM A194 2H            | ASTM A194 7                | ASTM A194 7                | ASTM A194 8                |
| 13         | 压套螺栓 / Gland Bolt   | ASTM A193 B7            | ASTM A193 B16              | ASTM A193 B16              | ASTM A193 B8               |
| 14         | 限位块 /Stop Block     | ASTM A193 B7            | ASTM A193 B16              | ASTM A193 B16              | ASTM A193 B8               |
| 15         | 支架 /Yoke            | ASTM A276 410           | ASTM A276 410              | ASTM A276 410              | ASTM A276 410              |
| 16         | 顶法兰 /Top Flange     | ASTM A105               | ASTM A105                  | ASTM A105                  | ASTM A182 F304             |
| 17         | 闸杆螺母 /Stem Nut      | AL-Bronze               | AL-Bronze                  | AL-Bronze                  | AL-Bronze                  |
| 18         | 手轮 /HandWheel       | Iron Cast               | Iron Cast                  | Iron Cast                  | Iron Cast                  |

备注 /Note:

1. 其他材料可根据客户要求提供，请咨询销售部门。  
Other materials can be provided upon customer request, Please consult the sales office.
2. 可提供 ASTM 标准规定的所有铸造和锻造材料。  
All ASTM-standard cast and forged materials available .

结构示意 / STRUCTURAL DIAGRAM

材料表 / BOM



**平行双闸板**  
**Parallel Double Disc**  
温度范围 /Temperature Range: -49℃ ~650℃  
尺寸范围 /TSize Range: ≤ 2 "

- ② 堆焊 6 号钴基的座圈采用密封焊安装，也可按照客户要求采用螺纹座圈。  
The seat ring is hard-faced with Stl.6 and installed by seal welding. Alternatively, it can be threaded in accordance with customer requirements.
- ④ 中间弹簧提供轴向的力来辅助密封，闸板间的间隙配合使闸板不会因为热胀冷缩咬死，保证严酷环境下达到不泄露。  
The central spring provides axial force to assist sealing. The clearance between the discs prevents jamming due to thermal expansion and contraction, ensuring zero leakage under high-temperature and high-pressure conditions.
- ⑤ 阀杆与闸板连接强度超过阀杆螺纹根部的强度。  
The connection between the stem and wedge is stronger than the tensile strength at the root of the stem threads.
- ⑦ 防吹出阀杆设计具有一个锥型的上密封面，在阀门全开时，它与闸盖上密封座靠紧。  
The stem features a tapered backseat that engages with the backseat in the bonnet when the valve is fully open.

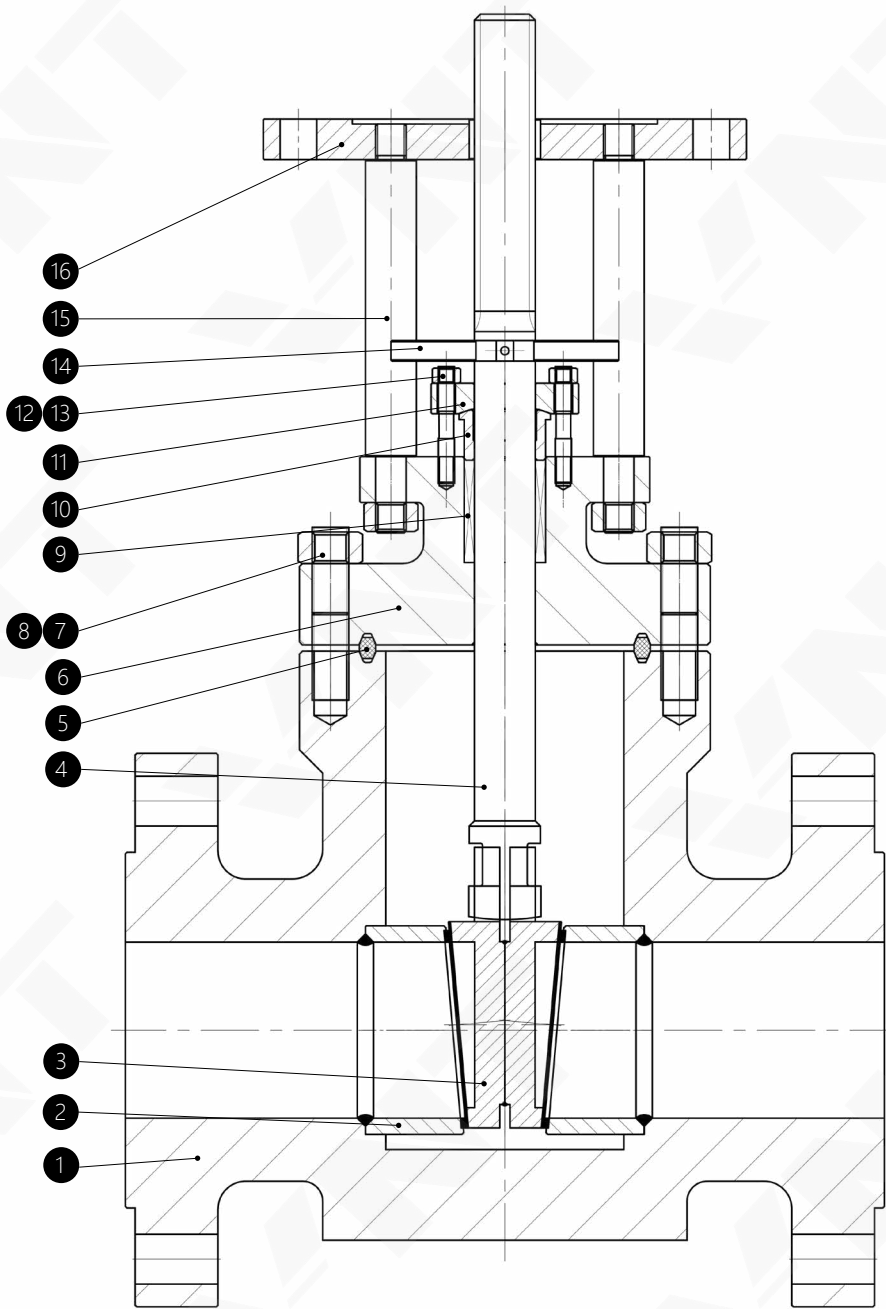
| 序号<br>No.1 | 零部件<br>Parts Name   | 标准<br>Standard Material | 高温环境<br>High Temp. Service | 高温环境<br>High Temp. Service | 耐腐蚀环境<br>Corrosive Service |
|------------|---------------------|-------------------------|----------------------------|----------------------------|----------------------------|
| 1          | 阀体 /Body            | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 2          | 阀座 /Seat            | ASTM A105+Stl.6         | ASTM A182 F11/F22+Stl.6    | ASTM A182 F91+Stl.6        | ASTM A182 F51+Stl.6        |
| 3          | 闸板 /Disc            | ASTM A105+Stl.6         | ASTM A182 F11/F22+Stl.6    | ASTM A182 F91+Stl.6        | ASTM A182 F51+Stl.6        |
| 4          | 弹簧 /Spring          | SS304                   | Inconel X-750              | Inconel X-750              | Inconel X-750              |
| 5          | 阀杆 /Stem            | ASTM A182 F6a           | ASTM A182 F6a              | XM-19                      | ASTM A182 F51              |
| 6          | 阀盖垫片 /Bonnet Gasket | Graphite+SS304          | Graphite+SS304             | Graphite+SS304             | Graphite+SS316             |
| 7          | 阀盖 /Bonnet          | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 8          | 阀盖螺母 /Bonnet Nut    | ASTM A194 2H            | ASTM A194 7                | ASTM A194 7                | ASTM A194 8                |
| 9          | 阀盖螺栓 /Bonnet Bolt   | ASTM A193 B7            | ASTM A193 B16              | ASTM A193 B16              | ASTM A193 B8               |
| 10         | 阀杆填料 /Stem Packing  | Graphite                | Graphite                   | Graphite                   | Graphite                   |
| 11         | 填料压套 /Gland         | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 12         | 填料压板 /Plate         | ASTM A105               | ASTM A105                  | ASTM A105                  | ASTM A182 F304             |
| 13         | 压套螺母 /Gland Nut     | ASTM A194 2H            | ASTM A194 7                | ASTM A194 7                | ASTM A194 8                |
| 14         | 压套螺栓 / Gland Bolt   | ASTM A193 B7            | ASTM A193 B16              | ASTM A193 B16              | ASTM A193 B8               |
| 15         | 支架 /Yoke            | ASTM A276 410           | ASTM A276 410              | ASTM A276 410              | ASTM A276 410              |
| 16         | 顶法兰 /Top Flange     | ASTM A105               | ASTM A105                  | ASTM A105                  | ASTM A182 F304             |
| 17         | 阀杆螺母 /Stem Nut      | AL-Bronze               | AL-Bronze                  | AL-Bronze                  | AL-Bronze                  |
| 18         | 手轮 /HandWheel       | Iron Cast               | Iron Cast                  | Iron Cast                  | Iron Cast                  |
| 19         | 限位块 /Stop Block     | ASTM A193 B7            | ASTM A193 B16              | ASTM A193 B16              | ASTM A193 B8               |

备注 /Note:

1. 其他材料可根据客户要求提供，请咨询销售部门。  
Other materials can be provided upon customer request, Please consult the sales office.
2. 可提供 ASTM 标准规定的所有铸造和锻造材料。  
All ASTM-standard cast and forged materials available .

结构示意 / STRUCTURAL DIAGRAM

材料表 / BOM



楔式单闸板  
Wedge Type Single Disc

温度范围 /Temperature Range: -49℃ ~650℃

尺寸范围 /TSize Range: ≥ 4 "

- ② 堆焊 6 号钴基的座圈采用密封焊安装，也可按照客户要求采用螺纹座圈。  
The seat ring is hard-faced with Stl.6 and installed by seal welding. Alternatively, it can be threaded in accordance with customer requirements.
- ③ 弹性楔型闸板能够对座圈表面失真和由于管道应力引起的阀体变形进行补偿。  
The flexible wedge compensates for seat surface distortion and valve body deformation caused by pipeline stresses.
- ④ 闸杆与闸板连接强度超过闸杆螺纹根部的强度。  
The connection between the stem and wedge is stronger than the tensile strength at the root of the stem threads.
- ⑤ 金属波纹柔性石墨垫片用于 150 磅闸阀，金属缠绕垫片用于 300 磅和 600 磅闸阀，金属环垫片用于 900 磅及以上闸阀或按客户要求用于 600 磅的闸阀。  
Gaskets  
- 150 lb: Flexible graphite  
- 300/600 lb: Spiral wound  
- 900+ lb (or 600 lb if required): Ring joint
- ⑥ 防吹出闸杆设计具有一个锥型的上密封面，在阀门全开时，它与闸盖上密封座靠紧。  
The stem features a tapered backseat that engages with the backseat in the bonnet when the valve is fully open.

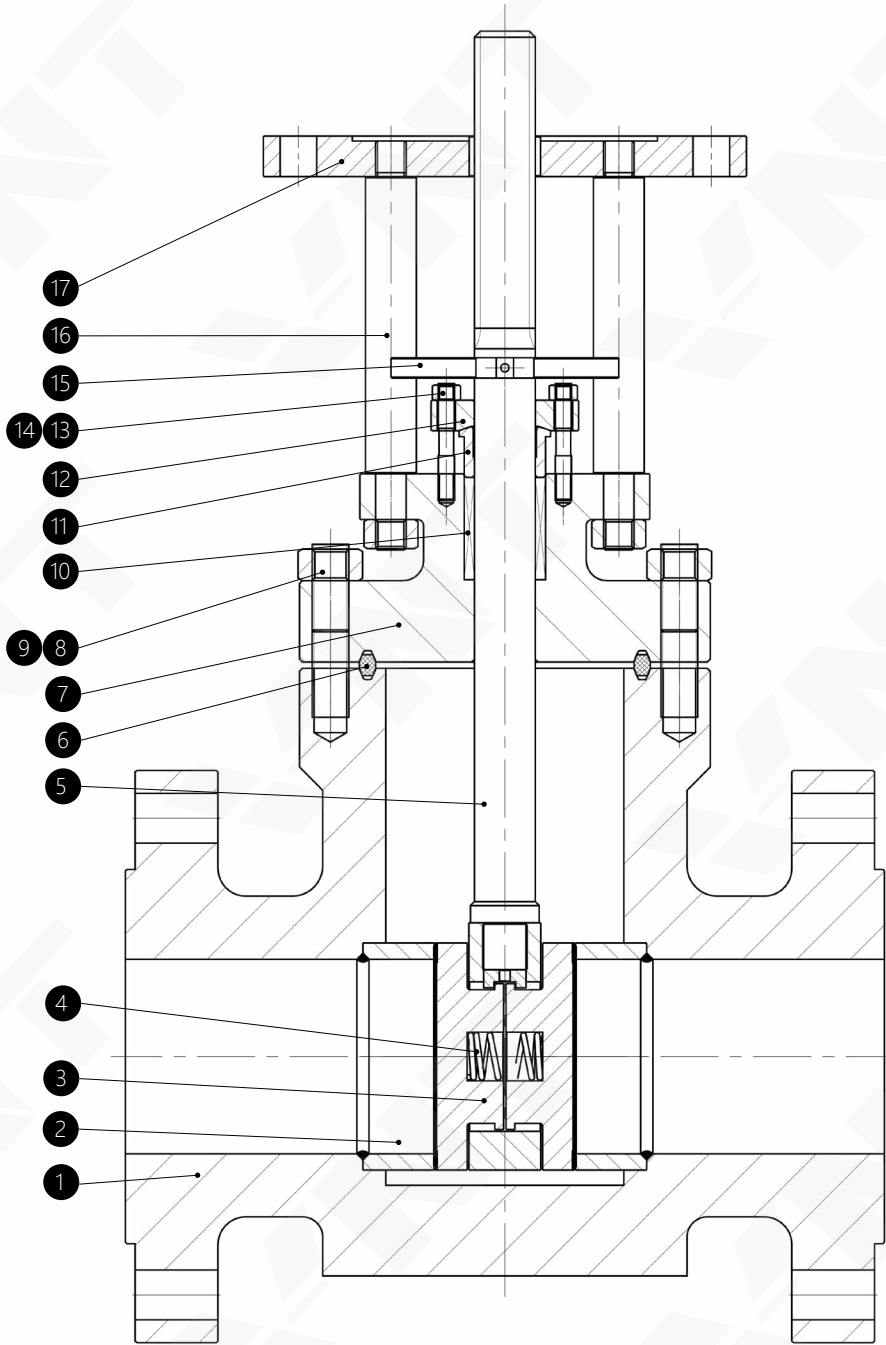
| 序号<br>No.1 | 零部件<br>Parts Name  | 标准<br>Standard Material | 高温环境<br>High Temp. Service | 高温环境<br>High Temp. Service | 耐腐蚀环境<br>Corrosive Service |
|------------|--------------------|-------------------------|----------------------------|----------------------------|----------------------------|
| 1          | 阀体 /Body           | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 2          | 阀座 /Seat           | ASTM A105+Stl.6         | ASTM A182 F11/F22+Stl.6    | ASTM A182 F91+Stl.6        | ASTM A182 F51+Stl.6        |
| 3          | 闸板 /Disc           | ASTM A105+Stl.6         | ASTM A182 F11/F22+Stl.6    | ASTM A182 F91+Stl.6        | ASTM A182 F51+Stl.6        |
| 4          | 阀杆 /Stem           | ASTM A182 F6a           | ASTM A182 F6a              | XM-19                      | ASTM A182 F51              |
| 5          | 八角环 /Gasket        | IRON                    | SS304                      | SS304                      | SS316                      |
| 6          | 阀盖 /Bonnet         | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 7          | 阀盖螺母 /Bonnet Nut   | ASTM A194 2H            | ASTM A194 7                | ASTM A194 7                | ASTM A194 8                |
| 8          | 阀盖螺栓 /Bonnet Bolt  | ASTM A193 B7            | ASTM A193 B16              | ASTM A193 B16              | ASTM A193 B8               |
| 9          | 阀杆填料 /Stem Packing | Graphite                | Graphite                   | Graphite                   | Graphite                   |
| 10         | 填料压套 /Gland        | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 11         | 填料压板 /Plate        | ASTM A105               | ASTM A105                  | ASTM A105                  | ASTM A182 F304             |
| 12         | 压套螺母 /Gland Nut    | ASTM A194 2H            | ASTM A194 7                | ASTM A194 7                | ASTM A194 8                |
| 13         | 压套螺栓 / Gland Bolt  | ASTM A193 B7            | ASTM A193 B16              | ASTM A193 B16              | ASTM A193 B8               |
| 14         | 限位块 /Stop Block    | ASTM A105               | ASTM A105                  | ASTM A105                  | ASTM A182 F304             |
| 15         | 支架 /Yoke           | ASTM A276 410           | ASTM A276 410              | ASTM A276 410              | ASTM A276 410              |
| 16         | 顶法兰 /Top Flange    | ASTM A105               | ASTM A105                  | ASTM A105                  | ASTM A182 F304             |

备注 /Note:

1. 其他材料可根据客户要求提供，请咨询销售部门。  
Other materials can be provided upon customer request, Please consult the sales office.
2. 可提供 ASTM 标准规定的所有铸造和锻造材料。  
All ASTM-standard cast and forged materials available .

结构示意 / STRUCTURAL DIAGRAM

材料表 / BOM



平行双闸板  
Parallel Double Disc

温度范围 /Temperature Range: -49℃ ~650℃

尺寸范围 /TSize Range: ≥ 4 "

- ② 堆焊 6 号钴基的座圈采用密封焊安装，也可按照客户要求采用螺纹座圈。  
The seat ring is hard-faced with Stl.6 and installed by seal welding. Alternatively, it can be threaded in accordance with customer requirements.
- ④ 中间弹簧提供轴向的力来辅助密封，闸板间的间隙配合使闸板不会因为热胀冷缩咬死，保证严酷环境下达到不泄露。  
The central spring provides axial force to assist sealing. The clearance between the discs prevents jamming due to thermal expansion and contraction, ensuring zero leakage under high-temperature and high-pressure conditions.
- ⑤ 阀杆与闸板连接强度超过阀杆螺纹根部的强度。  
The connection between the stem and wedge is stronger than the tensile strength at the root of the stem threads.
- ⑥ 金属波纹柔性石墨垫片用于 150 磅闸阀，金属缠绕垫片用于 300 磅和 600 磅闸阀，金属环垫片用于 900 磅及以上闸阀或按客户要求用于 600 磅的闸阀。  
Gaskets  
- 150 lb: Flexible graphite  
- 300/600 lb: Spiral wound  
- 900+ lb (or 600 lb if required): Ring joint
- ⑦ 防吹出阀杆设计具有一个锥型的上密封面，在阀门全开时，它与阀盖上密封座靠紧。  
The stem features a tapered backseat that engages with the backseat in the bonnet when the valve is fully open.

| 序号<br>No.1 | 零部件<br>Parts Name  | 标准<br>Standard Material | 高温环境<br>High Temp. Service | 高温环境<br>High Temp. Service | 耐腐蚀环境<br>Corrosive Service |
|------------|--------------------|-------------------------|----------------------------|----------------------------|----------------------------|
| 1          | 阀体 /Body           | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 2          | 阀座 /Seat           | ASTM A105+Stl.6         | ASTM A182 F11/F22+Stl.6    | ASTM A182 F91+Stl.6        | ASTM A182 F51+Stl.6        |
| 3          | 闸板 /Disc           | ASTM A105+Stl.6         | ASTM A182 F11/F22+Stl.6    | ASTM A182 F91+Stl.6        | ASTM A182 F51+Stl.6        |
| 4          | 弹簧 /Spring         | SS304                   | Inconel X-750              | Inconel X-750              | Inconel X-750              |
| 5          | 阀杆 /Stem           | ASTM A182 F6a           | ASTM A182 F6a              | XM-19                      | ASTM A182 F51              |
| 6          | 八角环 /Gasket        | IRON                    | SS304                      | SS304                      | SS316                      |
| 7          | 阀盖 /Bonnet         | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 8          | 阀盖螺母 /Bonnet Nut   | ASTM A194 2H            | ASTM A194 7                | ASTM A194 7                | ASTM A194 8                |
| 9          | 阀盖螺栓 /Bonnet Bolt  | ASTM A193 B7            | ASTM A193 B16              | ASTM A193 B16              | ASTM A193 B8               |
| 10         | 阀杆填料 /Stem Packing | Graphite                | Graphite                   | Graphite                   | Graphite                   |
| 11         | 填料压套 /Gland        | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 12         | 填料压板 /Plate        | ASTM A105               | ASTM A105                  | ASTM A105                  | ASTM A182 F304             |
| 13         | 压套螺母 /Gland Nut    | ASTM A194 2H            | ASTM A194 7                | ASTM A194 7                | ASTM A194 8                |
| 14         | 压套螺栓 / Gland Bolt  | ASTM A193 B7            | ASTM A193 B16              | ASTM A193 B16              | ASTM A193 B8               |
| 15         | 限位块 /Stop Block    | ASTM A105               | ASTM A105                  | ASTM A105                  | ASTM A182 F304             |
| 16         | 支架 /Yoke           | ASTM A276 410           | ASTM A276 410              | ASTM A276 410              | ASTM A276 410              |
| 17         | 顶法兰 /Top Flange    | ASTM A105               | ASTM A105                  | ASTM A105                  | ASTM A182 F304             |

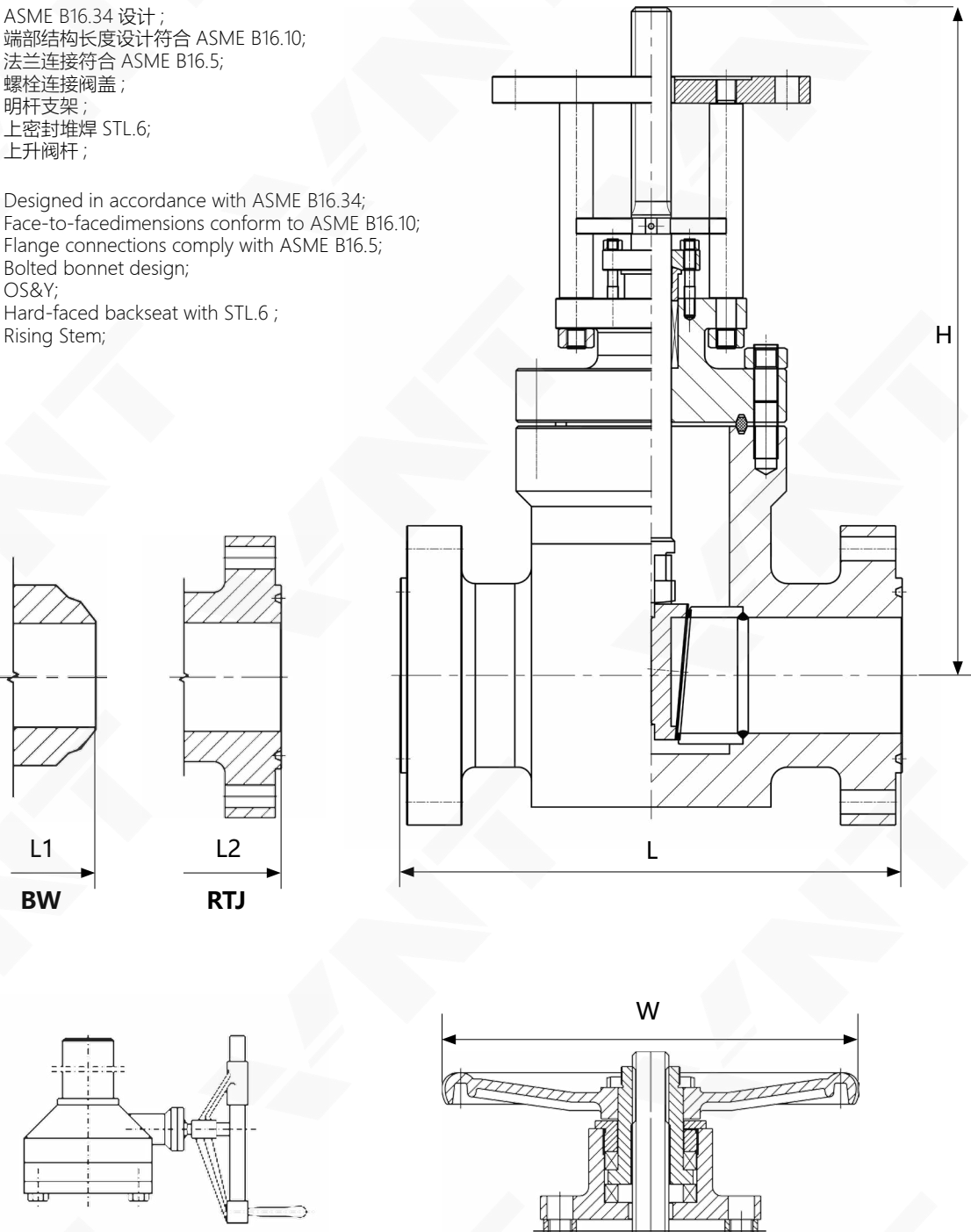
备注 /Note:

1. 其他材料可根据客户要求提供，请咨询销售部门。  
Other materials can be provided upon customer request, Please consult the sales office.
2. 可提供 ASTM 标准规定的所有铸造和锻造材料。  
All ASTM-standard cast and forged materials available .

尺寸 / SIZE

ASME B16.34 设计；  
端部结构长度设计符合 ASME B16.10；  
法兰连接符合 ASME B16.5；  
螺栓连接阀盖；  
明杆支架；  
上密封堆焊 STL.6；  
上升阀杆；

Designed in accordance with ASME B16.34；  
Face-to-face dimensions conform to ASME B16.10；  
Flange connections comply with ASME B16.5；  
Bolted bonnet design；  
OS&Y；  
Hard-faced backseat with STL.6 ；  
Rising Stem；



尺寸 / SIZE

600LB

|                 |    |       |        |       |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      |       |      |      |      |      |
|-----------------|----|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|-------|------|------|------|------|
| NPS             | in | 2"    | 2-1/2" | 3"    | 4"    | 5"    | 6"    | 8"    | 10"   | 12"   | 14"   | 16"   | 18"   | 20"   | 24"   | 26"  | 28"  | 30"  | 32"  | 34"   | 36"  | 40"  | 42"  | 48"  |
| DN              | mm | 50    | 65     | 80    | 100   | 125   | 150   | 200   | 250   | 300   | 350   | 400   | 450   | 500   | 600   | 650  | 700  | 750  | 800  | 850   | 900  | 1000 | 1050 | 1200 |
| L-L1<br>(RF-BW) | in | 11.5  | 13     | 14    | 17    | 20    | 22    | 26    | 31    | 33    | 35    | 39    | 43    | 47    | 55    | 57   | 61   | 65   | 70   | 75.98 | 82   | 90   | 96   | 100  |
|                 | mm | 292   | 330    | 356   | 432   | 508   | 559   | 660   | 787   | 838   | 889   | 991   | 1092  | 1194  | 1397  | 1448 | 1549 | 1651 | 1778 | 1930  | 2082 | 2286 | 2438 | 2540 |
| L2(RTJ)         | in | 11.60 | 13.12  | 14.12 | 17.12 | 20.12 | 22.12 | 26.12 | 31.12 | 33.12 | 35.12 | 39.12 | 43.12 | 47.25 | 55.38 | 57.5 | 61.5 | 65.5 | 70.6 | 96.61 | 82.6 | -    | -    | -    |
|                 | mm | 295   | 333    | 359   | 435   | 511   | 562   | 663   | 790   | 841   | 892   | 994   | 1095  | 1200  | 1407  | 1461 | 1562 | 1664 | 1794 | 1946  | 2098 | -    | -    | -    |
| W               | in | 8     | 10     | 10    | 12    | 16    | 18    | 20    | 24    | 27    | 24    | 24    | 24    | 24    | 24    | 32   | 40   | 40   | 40   | -     | 40   | 48   | 48   | 48   |
|                 | mm | 200   | 250    | 250   | 300   | 400   | 450   | 500   | 600   | 680   | 610   | 610   | 610   | 610   | 610   | 810  | 1000 | 1000 | 1000 | -     | 1000 | 1200 | 1200 | 1200 |
| H               | in | 16.5  | 18.7   | 20.4  | 25.4  | 30.3  | 33    | 40.3  | 48.4  | 57.1  | 62    | 70.7  | 76.02 | 86.9  | 102   | 124  | 133  | 140  | 150  | -     | 168  | 184  | 194  | 231  |
|                 | mm | 418   | 476    | 518   | 646   | 770   | 839   | 1024  | 1229  | 1450  | 1574  | 1797  | 1931  | 2207  | 2582  | 3150 | 3362 | 3549 | 3811 | -     | 4260 | 4670 | 4921 | 5876 |

关于 48"以上阀门的资料请联系销售部  
Please contact us for information above 48" valves.

900LB

|                 |    |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |      |
|-----------------|----|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|
| NPS             | in | 2"    | 2-1/2" | 3"    | 4"    | 5"    | 8"    | 10"   | 12"   | 14"   | 16"   | 18"   | 20"   | 24"   | 26"   | 28"   | 30"  | 32"   | 36"  |
| DN              | mm | 50    | 65     | 80    | 100   | 125   | 200   | 250   | 300   | 350   | 400   | 450   | 500   | 600   | 650   | 700   | 750  | 850   | 900  |
| L-L1<br>(RF-BW) | in | 14.5  | 16.5   | 15    | 18    | 24    | 29    | 33    | 38    | 40.5  | 44.5  | 48    | 52    | 61    | 65    | 70    | 74   | 78    | 87   |
|                 | mm | 368   | 419    | 381   | 457   | 610   | 737   | 838   | 965   | 1029  | 1130  | 1219  | 1321  | 1549  | 1664  | 1778  | 1892 | 2004  | 2232 |
| L2(RTJ)         | in | 14.62 | 16.62  | 15.12 | 18.12 | 24.12 | 29.12 | 33.12 | 38.12 | 40.88 | 44.88 | 48.50 | 52.48 | 61.73 | -     | -     | -    | -     | -    |
|                 | mm | 371   | 422    | 384   | 460   | 613   | 740   | 841   | 968   | 1038  | 1140  | 1232  | 1333  | 1568  | -     | -     | -    | -     | -    |
| W               | in | 10    | 10     | 12    | 14    | 20    | 24    | 24    | 24    | 24    | 24    | 32    | 40    | 40    | 40    | 40    | 47   | 47    | 47   |
|                 | mm | 250   | 250    | 300   | 350   | 500   | 600   | 610   | 610   | 610   | 610   | 810   | 1000  | 1000  | 1000  | 1000  | 1200 | 1200  | 1200 |
| H               | in | 19.6  | 21.5   | 22.6  | 26.7  | 35.4  | 43.4  | 53    | 59.8  | 74.9  | 80.7  | 87    | 95    | 108.4 | 111.5 | 114.8 | 118  | 121.4 | 128  |
|                 | mm | 498   | 547    | 573   | 678   | 900   | 1103  | 1345  | 1520  | 1902  | 2051  | 2212  | 2417  | 2750  | 2833  | 2916  | 3000 | 3083  | 3250 |

关于 36"以上阀门的资料请联系销售部  
Please contact us for information above 36" valves.

1500LB

|                 |    |       |        |       |       |       |       |       |       |       |       |      |      |       |      |        |      |
|-----------------|----|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|------|--------|------|
| NPS             | in | 2"    | 2-1/2" | 3"    | 4"    | 5"    | 8"    | 10"   | 12"   | 14"   | 16"   | 18"  | 20"  | 24"   | 26"  | 28"    | 30"  |
| DN              | mm | 50    | 65     | 80    | 100   | 125   | 200   | 250   | 300   | 350   | 400   | 450  | 500  | 600   | 650  | 700    | 750  |
| L-L1<br>(RF-BW) | in | 14.5  | 16.5   | 18.5  | 21.5  | 27.75 | 32.75 | 39    | 44.5  | 49.5  | 54.8  | 60.5 | 65.5 | 76.5  | 82   | 87.5   | 93   |
|                 | mm | 368   | 419    | 470   | 546   | 705   | 832   | 991   | 1130  | 1257  | 1384  | 1537 | 1664 | 1943  | 2083 | 2222.5 | 2362 |
| L2(RTJ)         | in | 14.62 | 16.62  | 18.62 | 21.62 | 28.00 | 33.13 | 39.38 | 45.12 | 50.25 | 55.38 | 61.4 | 66.4 | 7706  | -    | -      | -    |
|                 | mm | 371   | 422    | 473   | 549   | 711   | 842   | 1000  | 1146  | 1276  | 1407  | 1559 | 1686 | 1972  | -    | -      | -    |
| W               | in | 10    | 12     | 14    | 20    | 24    | 18    | 18    | 24    | 24    | 24    | 40   | 40   | 40    | 47   | 47     | 47   |
|                 | mm | 250   | 300    | 350   | 500   | 600   | 458   | 458   | 610   | 610   | 610   | 1000 | 1000 | 1000  | 1200 | 1200   | 1200 |
| H               | in | 19.2  | 22.5   | 23.7  | 27.6  | 38.7  | 45.1  | 54    | 64.3  | 70.8  | 77.3  | 111  | 121  | 140.5 | 151  | 158    | 172  |
|                 | mm | 487   | 572    | 603   | 700   | 984   | 1146  | 1371  | 1633  | 1798  | 1963  | 2812 | 3078 | 3570  | 3836 | 4012   | 4368 |

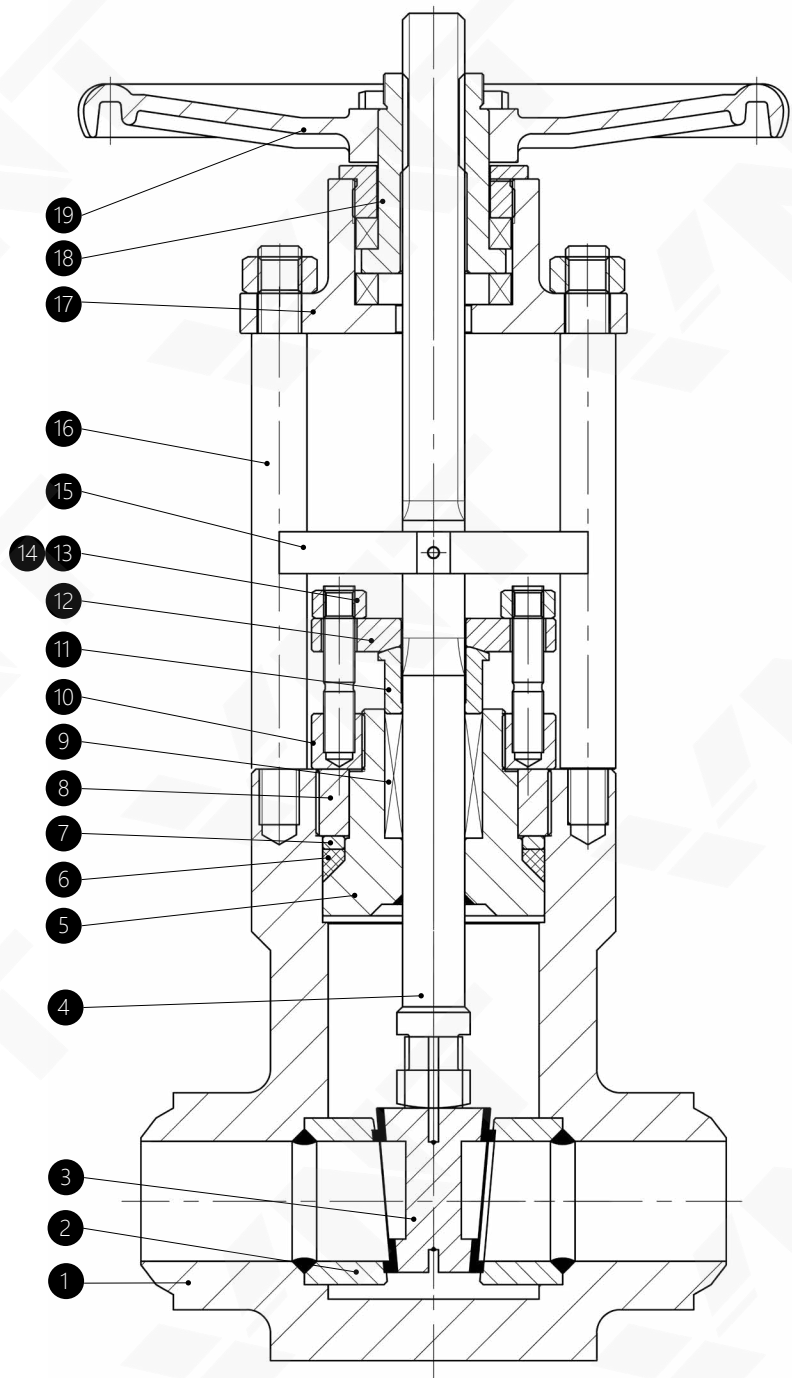
关于 30"以上阀门的资料请联系销售部  
Please contact us for information above 30" valves.

2500LB

|                 |    |       |        |       |       |       |       |       |       |       |      |       |       |       |
|-----------------|----|-------|--------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|
| NPS             | in | 2"    | 2-1/2" | 3"    | 4"    | 5"    | 8"    | 10"   | 12"   | 14"   | 16"  | 18"   | 20"   | 24"   |
| DN              | mm | 50    | 65     | 80    | 100   | 125   | 200   | 250   | 300   | 350   | 400  | 450   | 500   | 600   |
| L-L1<br>(RF-BW) | in | 17.75 | 20     | 22.75 | 26.5  | 36    | 40.25 | 50    | 56    | 62    | 68   | 74    | 80    | 92    |
|                 | mm | 451   | 508    | 578   | 673   | 914   | 1022  | 1270  | 1422  | 1575  | 1727 | 1879  | 2031  | 2335  |
| L2(RTJ)         | in | 17.88 | 20.25  | 23.00 | 26.88 | 36.50 | 40.88 | 50.88 | 56.88 | -     | -    | -     | -     | -     |
|                 | mm | 454   | 514    | 584   | 683   | 927   | 1038  | 1292  | 1445  | -     | -    | -     | -     | -     |
| W               | in | 14    | 18     | 18    | 20    | 24    | 24    | 24    | 24    | 32    | 32   | 40    | 40    | 40    |
|                 | mm | 350   | 450    | 450   | 500   | 610   | 610   | 610   | 610   | 810   | 810  | 1000  | 1000  | 1000  |
| H               | in | 22.2  | 22.2   | 22.9  | 34.3  | 57.1  | 63.4  | 81.7  | 89.8  | 319.7 | 400  | 100.6 | 112.6 | 136.6 |
|                 | mm | 563   | 563    | 582   | 870   | 1450  | 1610  | 2076  | 2281  | 1945  | 2250 | 2555  | 2860  | 3470  |

关于 24"以上阀门的资料请联系销售部  
Please contact us for information above 24" valves.

结构示意 / STRUCTURAL DIAGRAM



楔式单闸板  
Wedge Type Single Disc

温度范围 /Temperature Range: -49°C ~650°C  
尺寸范围 /TSize Range: ≤ 4 "

- ② 堆焊 6 号钴基的座圈采用密封焊安装，也可按照客户要求采用螺纹座圈。  
The seat ring is hard-faced with Stl.6 and installed by seal welding. Alternatively, it can be threaded in accordance with customer requirements.
- ③ 弹性楔型闸板能够对座圈表面失真和由于管道应力引起的阀体变形进行补偿。  
The flexible wedge compensates for seat surface distortion and valve body deformation caused by pipeline stresses.
- ④ 闸板与闸杆连接强度超过闸杆螺纹根部的强度。  
The connection between the stem and wedge is stronger than the tensile strength at the root of the stem threads.
- ⑤ 防吹出闸杆设计具有一个锥型的上密封面，在阀门全开时，它与闸盖上密封座靠紧。  
The stem features a tapered backseat that engages with the backseat in the bonnet when the valve is fully open.
- ⑥ 柔性石墨自紧圈具有良好的弹性及较大密封接触面积，确保至关重要的闸板密封区域。  
The flexible graphite self-tightening ring exhibits excellent elasticity and a large sealing contact area, ensuring the critical sealing region of the valve body.

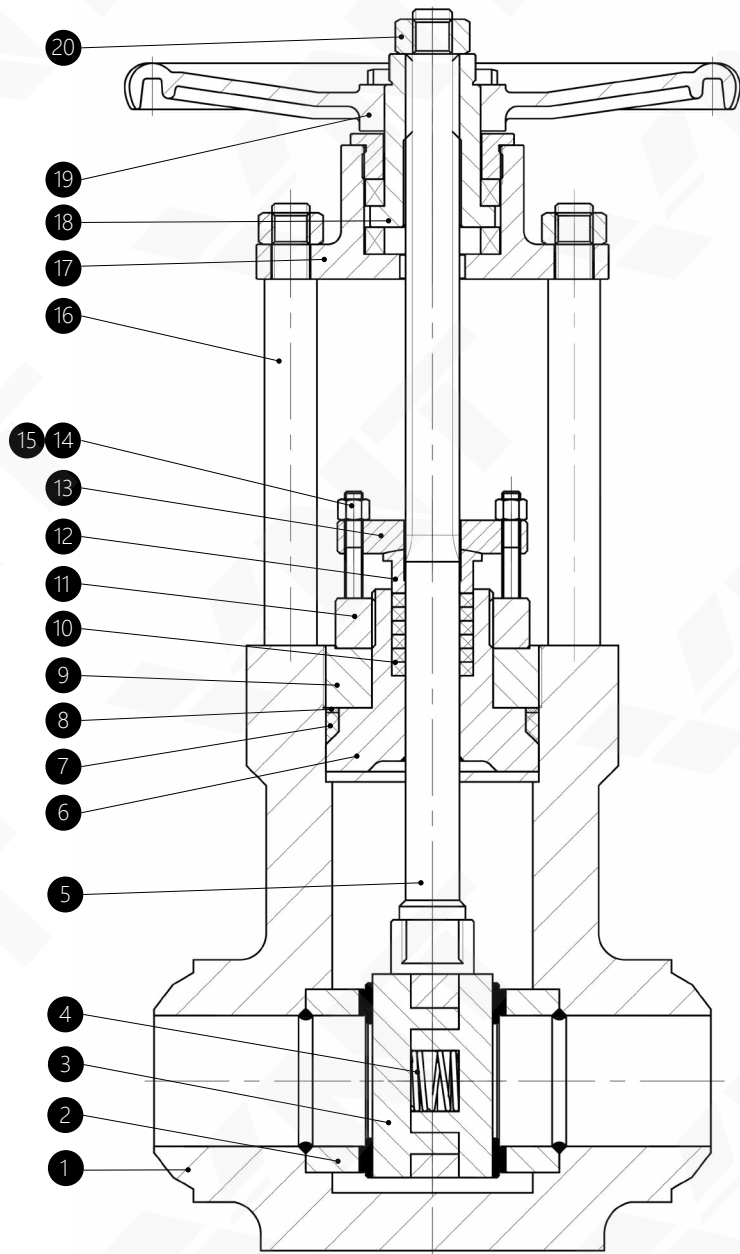
材料表 / BOM

| 序号<br>No.1 | 零部件<br>Parts Name     | 标准<br>Standard Material | 高温环境<br>High Temp. Service | 高温环境<br>High Temp. Service | 耐腐蚀环境<br>Corrosive Service |
|------------|-----------------------|-------------------------|----------------------------|----------------------------|----------------------------|
| 1          | 阀体 /Body              | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 2          | 阀座 /Seat              | ASTM A105+Stl.6         | ASTM A182 F11/F22+Stl.6    | ASTM A182 F91+Stl.6        | ASTM A182 F51+Stl.6        |
| 3          | 闸板 /Disc              | ASTM A105+Stl.6         | ASTM A182 F11/F22+Stl.6    | ASTM A182 F91+Stl.6        | ASTM A182 F51+Stl.6        |
| 4          | 阀杆 /Stem              | ASTM A182 F6a           | ASTM A182 F6a              | XM-19                      | ASTM A182 F51              |
| 5          | 活动阀盖 /Activity Bonnet | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 6          | 自紧圈 /Pressure Seat    | Graphite+SS304          | Graphite+SS304             | Graphite+SS304             | Graphite+SS316             |
| 7          | 垫圈 /Washer            | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 8          | 挡圈 /Retaining Ring    | ASTM A105               | ASTM A105                  | ASTM A105                  | ASTM A182 F51              |
| 9          | 阀杆填料 /Stem Packing    | Graphite                | Graphite                   | Graphite                   | Graphite                   |
| 10         | 阀盖并帽 /Bonnet Nut      | ASTM A105               | ASTM A105                  | ASTM A105                  | ASTM A182 F51              |
| 11         | 填料压套 /Gland           | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 12         | 填料压板 /Plate           | ASTM A105               | ASTM A105                  | ASTM A105                  | ASTM A182 F304             |
| 13         | 压套螺母 /Gland Nut       | ASTM A194 2H            | ASTM A194 7                | ASTM A194 7                | ASTM A194 8                |
| 14         | 压套螺栓 / Gland Bolt     | ASTM A193 B7            | ASTM A193 B16              | ASTM A193 B16              | ASTM A193 B8               |
| 15         | 限位块 /Stop Block       | ASTM A105               | ASTM A105                  | ASTM A105                  | ASTM A182 F304             |
| 16         | 支架 /Yoke              | ASTM A276 410           | ASTM A276 410              | ASTM A276 410              | ASTM A276 410              |
| 17         | 顶法兰 /Top Flange       | ASTM A105               | ASTM A105                  | ASTM A105                  | ASTM A182 F304             |
| 18         | 阀杆螺母 /Stem Nut        | AL-Bronze               | AL-Bronze                  | AL-Bronze                  | AL-Bronze                  |
| 19         | 手轮 /HandWheel         | Iron Cast               | Iron Cast                  | Iron Cast                  | Iron Cast                  |

备注 /Note:

- 1. 其他材料可根据客户要求提供，请咨询销售部门。  
Other materials can be provided upon customer request, Please consult the sales office.
- 2. 可提供 ASTM 标准规定的所有铸造和锻造材料。  
All ASTM-standard cast and forged materials available .

结构示意 / STRUCTURAL DIAGRAM



平行双闸板  
Parallel Double Disc

温度范围 /Temperature Range: -49℃ ~650℃  
尺寸范围 /TSize Range: ≤ 4 "

- 2

堆焊 6 号钴基的座圈采用密封焊安装，也可按照客户要求采用螺纹座圈。  
The seat ring is hard-faced with Stl.6 and installed by seal welding. Alternatively, it can be threaded in accordance with customer requirements.
- 4

中间弹簧提供轴向的力来辅助密封，闸板间的间隙配合使闸板不会因为热胀冷缩咬死，保证严酷环境下达到不泄露。  
The central spring provides axial force to assist sealing. The clearance between the discs prevents jamming due to thermal expansion and contraction, ensuring zero leakage under high-temperature and high-pressure conditions.
- 5

阀杆与闸板连接强度超过阀杆螺纹根部的强度。  
The connection between the stem and wedge is stronger than the tensile strength at the root of the stem threads.
- 6

防吹出阀杆设计具有一个锥型的上密封面，在阀门全开时，它与阀盖上密封座靠紧。  
The stem features a tapered backseat that engages with the backseat in the bonnet when the valve is fully open.
- 7

柔性石墨自紧圈具有良好的弹性及较大密封接触面积，确保至关重要的阀体密封区域。  
The flexible graphite self-tightening ring exhibits excellent elasticity and a large sealing contact area, ensuring the critical sealing region of the valve body.

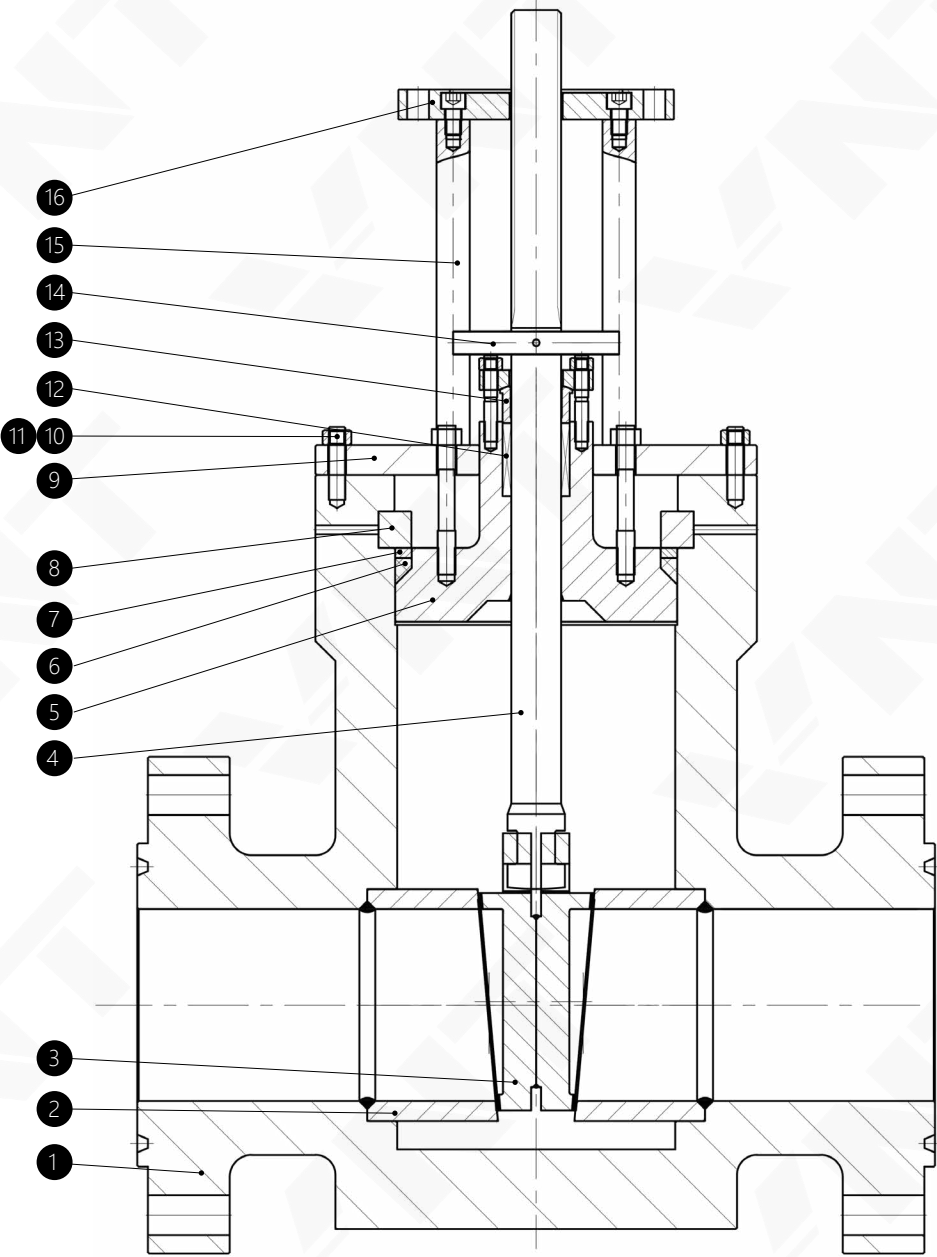
材料表 / BOM

| 序号<br>No.1 | 零部件<br>Parts Name     | 标准<br>Standard Material | 高温环境<br>High Temp. Service | 高温环境<br>High Temp. Service | 耐腐蚀环境<br>Corrosive Service |
|------------|-----------------------|-------------------------|----------------------------|----------------------------|----------------------------|
| 1          | 阀体 /Body              | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 2          | 阀座 /Seat              | ASTM A105+Stl.6         | ASTM A182 F11/F22+Stl.6    | ASTM A182 F91+Stl.6        | ASTM A182 F51+Stl.6        |
| 3          | 闸板 /Disc              | ASTM A105+Stl.6         | ASTM A182 F11/F22+Stl.6    | ASTM A182 F91+Stl.6        | ASTM A182 F51+Stl.6        |
| 4          | 弹簧 /Spring            | SS304                   | Inconel X-750              | Inconel X-750              | Inconel X-750              |
| 5          | 阀杆 /Stem              | ASTM A182 F6a           | ASTM A182 F6a              | XM-19                      | ASTM A182 F51              |
| 6          | 活动阀盖 /Activity Bonnet | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 7          | 自紧圈 /Pressure Seat    | Graphite+SS304          | Graphite+SS304             | Graphite+SS304             | Graphite+SS316             |
| 8          | 垫圈 /Washer            | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 9          | 挡圈 /Retaining Ring    | ASTM A105               | ASTM A105                  | ASTM A105                  | ASTM A182 F51              |
| 10         | 阀杆填料 /Stem Packing    | Graphite                | Graphite                   | Graphite                   | Graphite                   |
| 11         | 阀盖并帽 /Bonnet Nut      | ASTM A105               | ASTM A105                  | ASTM A105                  | ASTM A182 F51              |
| 12         | 填料压套 /Gland           | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 13         | 填料压板 /Plate           | ASTM A105               | ASTM A105                  | ASTM A105                  | ASTM A182 F304             |
| 14         | 压套螺母 /Gland Nut       | ASTM A194 2H            | ASTM A194 7                | ASTM A194 7                | ASTM A194 8                |
| 15         | 压套螺栓 / Gland Bolt     | ASTM A193 B7            | ASTM A193 B16              | ASTM A193 B16              | ASTM A193 B8               |
| 16         | 支架 /Yoke              | ASTM A276 410           | ASTM A276 410              | ASTM A276 410              | ASTM A276 410              |
| 17         | 顶法兰 /Top Flange       | ASTM A105               | ASTM A105                  | ASTM A105                  | ASTM A182 F304             |
| 18         | 阀杆螺母 /Stem Nut        | AL-Bronze               | AL-Bronze                  | AL-Bronze                  | AL-Bronze                  |
| 19         | 手轮 /HandWheel         | Iron Cast               | Iron Cast                  | Iron Cast                  | Iron Cast                  |
| 20         | 限位块 /Stop Block       | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |

备注 /Note:

- 1.其他材料可根据客户要求提供，请咨询销售部门。  
Other materials can be provided upon customer request, Please consult the sales office.
- 2.可提供 ASTM 标准规定的所有铸造和锻造材料。  
All ASTM-standard cast and forged materials available .

结构示意 / STRUCTURAL DIAGRAM



楔式单闸板  
Wedge Type Single Disc

温度范围 /Temperature Range: -49°C ~650°C  
尺寸范围 /TSize Range: ≥ 6 "

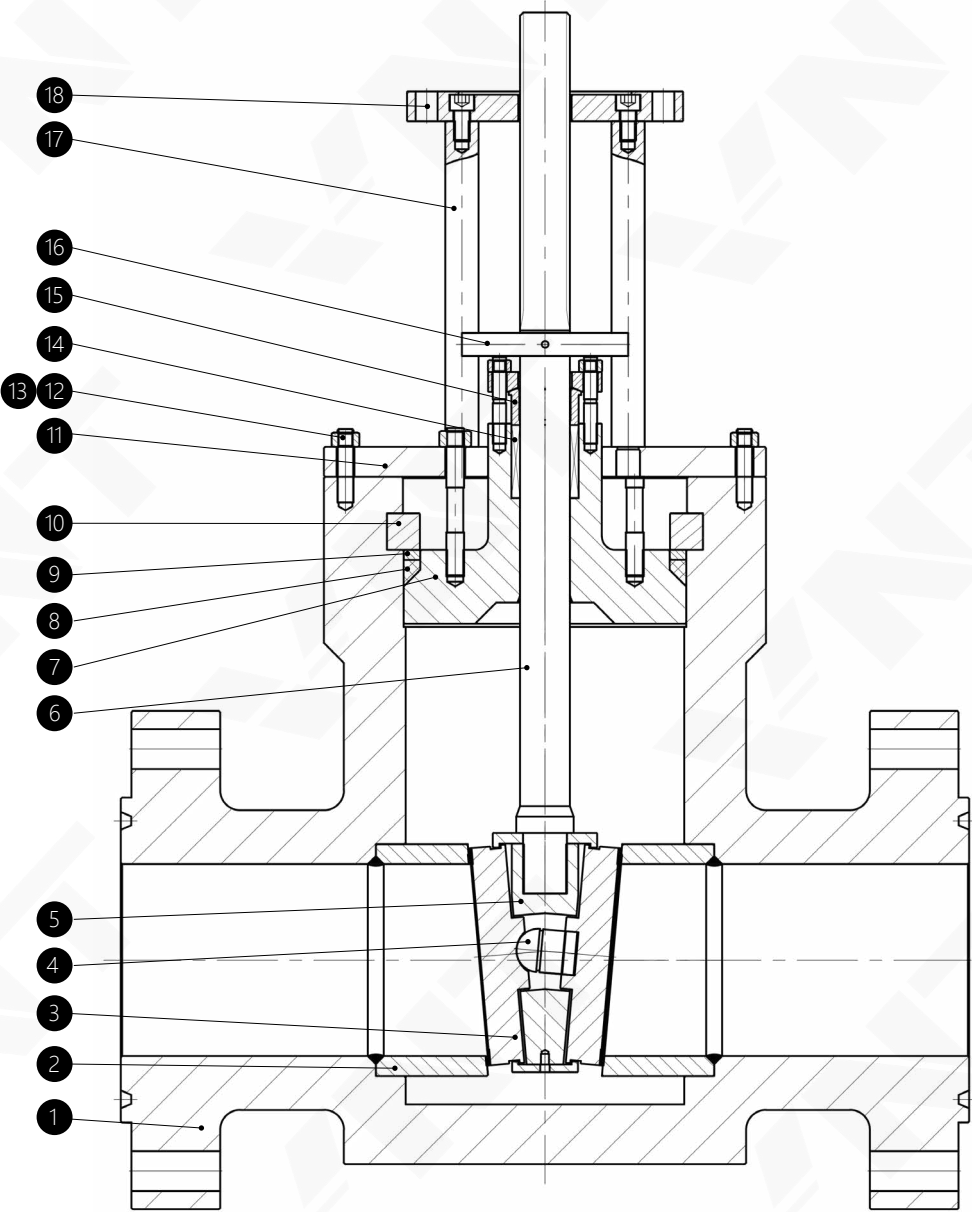
- ② 堆焊 6 号钴基的座圈采用密封焊安装，也可按照客户要求采用螺纹座圈。  
The seat ring is hard-faced with Stl.6 and installed by seal welding. Alternatively, it can be threaded in accordance with customer requirements.
- ③ 弹性楔型闸板能够对座圈表面失真和由于管道应力引起的阀体变形进行补偿。  
The flexible wedge compensates for seat surface distortion and valve body deformation caused by pipeline stresses.
- ④ 闸杆与闸板连接强度超过闸杆螺纹根部的强度。  
The connection between the stem and wedge is stronger than the tensile strength at the root of the stem threads.
- ⑤ 防吹出闸杆设计具有一个锥型的上密封面，在阀门全开时，它与闸盖上密封座靠紧。  
The stem features a tapered backseat that engages with the backseat in the bonnet when the valve is fully open.
- ⑥ 柔性石墨自紧圈具有良好的弹性及较大密封接触面积，确保至关重要的阀体密封区域。  
The flexible graphite self-tightening ring exhibits excellent elasticity and a large sealing contact area, ensuring the critical sealing region of the valve body.

材料表 / BOM

| 序号<br>No.1 | 零部件<br>Parts Name     | 标准<br>Standard Material | 高温环境<br>High Temp. Service | 高温环境<br>High Temp. Service | 耐腐蚀环境<br>Corrosive Service |
|------------|-----------------------|-------------------------|----------------------------|----------------------------|----------------------------|
| 1          | 阀体 /Body              | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 2          | 阀座 /Seat              | ASTM A105+Stl.6         | ASTM A182 F11/F22+Stl.6    | ASTM A182 F91+Stl.6        | ASTM A182 F51+Stl.6        |
| 3          | 闸板 /Disc              | ASTM A105+Stl.6         | ASTM A182 F11/F22+Stl.6    | ASTM A182 F91+Stl.6        | ASTM A182 F51+Stl.6        |
| 4          | 闸杆 /Stem              | ASTM A182 F6a           | ASTM A182 F6a              | XM-19                      | ASTM A182 F51              |
| 5          | 活动阀盖 /Activity Bonnet | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 6          | 自紧圈 /Pressure Seat    | Graphite+SS304          | Graphite+SS304             | Graphite+SS304             | Graphite+SS316             |
| 7          | 垫圈 /Washer            | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 8          | 四开环 /1/4 Rings        | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 9          | 阀盖 /Bonnet            | ASTM A105               | ASTM A105                  | ASTM A105                  | ASTM A182 F51              |
| 10         | 阀盖螺母 /Bonnet Nut      | ASTM A194 2H            | ASTM A194 7                | ASTM A194 7                | ASTM A194 8                |
| 11         | 阀盖螺栓 /Bonnet Bolt     | ASTM A193 B7            | ASTM A193 B16              | ASTM A193 B16              | ASTM A193 B8               |
| 12         | 闸杆填料 /Stem Packing    | Graphite                | Graphite                   | Graphite                   | Graphite                   |
| 13         | 填料压套 /Gland           | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 14         | 限位块 /Stop Block       | ASTM A105               | ASTM A105                  | ASTM A105                  | ASTM A182 F304             |
| 15         | 支架 /Yoke              | ASTM A276 410           | ASTM A276 410              | ASTM A276 410              | ASTM A276 410              |
| 16         | 顶法兰 /Top Flange       | ASTM A105               | ASTM A105                  | ASTM A105                  | ASTM A182 F304             |

备注 /Note:

- 1.其他材料可根据客户要求提供，请咨询销售部门。  
Other materials can be provided upon customer request, Please consult the sales office.
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All ASTM-standard cast and forged materials available .



楔式双闸板  
Wedge Type Double Disc

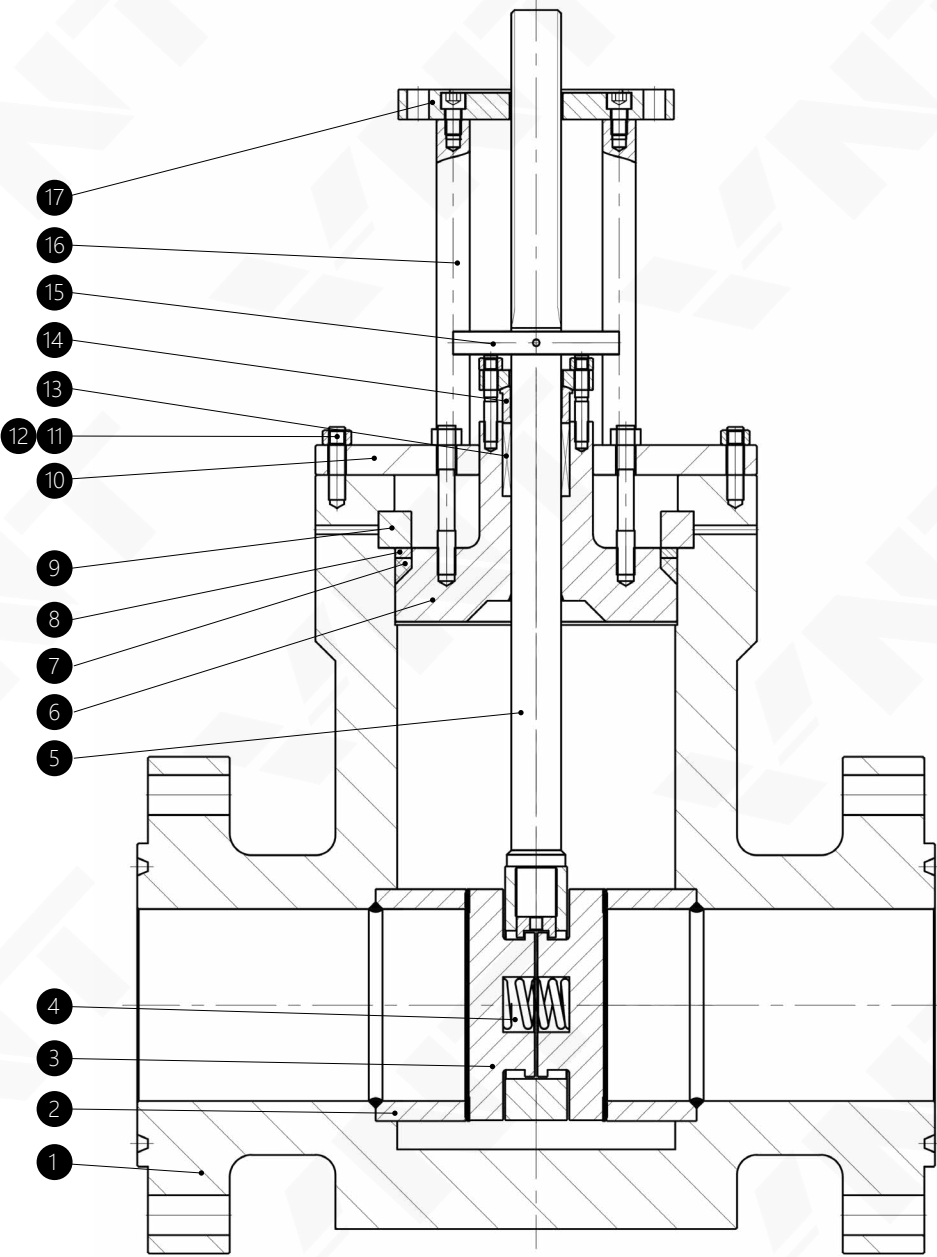
温度范围 /Temperature Range: -49℃ ~650℃  
尺寸范围 /TSize Range: ≥ 6 "

- ② 堆焊 6 号钴基的座圈采用密封焊安装，也可按照客户要求采用螺纹座圈。  
The seat ring is hard-faced with Stl.6 and installed by seal welding. Alternatively, it can be threaded in accordance with customer requirements.
- ④ 顶心使闸板可以在高温条件下自动调整角度，保证高温高压环境下密封的可靠性。  
The top center allows the gate to automatically adjust its angle under high-temperature conditions, ensuring sealing reliability in high-temperature and high-pressure environments.
- ⑥ 闸杆与闸板连接强度超过闸杆螺纹根部的强度。  
The connection between the stem and wedge is stronger than the tensile strength at the root of the stem threads.
- ⑦ 防吹出闸杆设计具有一个锥型的上密封面，在阀门全开时，它与阀盖上密封座靠紧。  
The stem features a tapered backseat that engages with the backseat in the bonnet when the valve is fully open.
- ⑧ 柔性石墨自紧圈具有良好的弹性及较大密封接触面积，确保至关重要的闸体密封区域。  
The flexible graphite self-tightening ring exhibits excellent elasticity and a large sealing contact area, ensuring the critical sealing region of the valve body.

| 序号<br>No.1 | 零部件<br>Parts Name     | 标准<br>Standard Material | 高温环境<br>High Temp. Service | 高温环境<br>High Temp. Service | 耐腐蚀环境<br>Corrosive Service |
|------------|-----------------------|-------------------------|----------------------------|----------------------------|----------------------------|
| 1          | 阀体 /Body              | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 2          | 阀座 /Seat              | ASTM A105+Stl.6         | ASTM A182 F11/F22+Stl.6    | ASTM A182 F91+Stl.6        | ASTM A182 F51+Stl.6        |
| 3          | 闸板 /Disc              | ASTM A105+Stl.6         | ASTM A182 F11/F22+Stl.6    | ASTM A182 F91+Stl.6        | ASTM A182 F51+Stl.6        |
| 4          | 顶心 /Top Center        | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 5          | 闸板支架 /Disc Yoke       | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 6          | 闸杆 /Stem              | ASTM A182 F6a           | ASTM A182 F6a              | XM-19                      | ASTM A182 F51              |
| 7          | 活动阀盖 /Activity Bonnet | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 8          | 自紧圈 /Pressure Seat    | Graphite+SS304          | Graphite+SS304             | Graphite+SS304             | Graphite+SS316             |
| 9          | 垫圈 /Washer            | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 10         | 四开环 /1/4 Rings        | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 11         | 阀盖 /Bonnet            | ASTM A105               | ASTM A105                  | ASTM A105                  | ASTM A182 F51              |
| 12         | 阀盖螺母 /Bonnet Nut      | ASTM A194 2H            | ASTM A194 7                | ASTM A194 7                | ASTM A194 8                |
| 13         | 阀盖螺栓 /Bonnet Bolt     | ASTM A193 B7            | ASTM A193 B16              | ASTM A193 B16              | ASTM A193 B8               |
| 14         | 闸杆填料 /Stem Packing    | Graphite                | Graphite                   | Graphite                   | Graphite                   |
| 15         | 填料压套 /Gland           | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 16         | 限位块 /Stop Block       | ASTM A105               | ASTM A105                  | ASTM A105                  | ASTM A182 F304             |
| 17         | 支架 /Yoke              | ASTM A276 410           | ASTM A276 410              | ASTM A276 410              | ASTM A276 410              |
| 18         | 顶法兰 /Top Flange       | ASTM A105               | ASTM A105                  | ASTM A105                  | ASTM A182 F304             |

备注 /Note:

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All ASTM-standard cast and forged materials available .



平行双闸板  
Parallel Double Disc

温度范围 /Temperature Range: -49℃ ~650℃

尺寸范围 /TSize Range: ≥ 6 "

- ② 堆焊 6 号钴基的座圈采用密封焊安装，也可按照客户要求采用螺纹座圈。  
The seat ring is hard-faced with Stl.6 and installed by seal welding. Alternatively, it can be threaded in accordance with customer requirements.
- ④ 中间弹簧提供轴向的力来辅助密封，闸板间的间隙配合使闸板不会因为热胀冷缩咬死，保证严酷环境下达到不泄露。  
The central spring provides axial force to assist sealing. The clearance between the discs prevents jamming due to thermal expansion and contraction, ensuring zero leakage under high-temperature and high-pressure conditions.
- ⑤ 阀杆与闸板连接强度超过阀杆螺纹根部的强度。  
The connection between the stem and wedge is stronger than the tensile strength at the root of the stem threads.
- ⑥ 防吹出阀杆设计具有一个锥型的上密封面，在阀门全开时，它与阀盖上密封座靠紧。  
The stem features a tapered backseat that engages with the backseat in the bonnet when the valve is fully open.
- ⑦ 柔性石墨自紧圈具有良好的弹性及较大密封接触面积，确保至关重要的闸体密封区域。  
The flexible graphite self-tightening ring exhibits excellent elasticity and a large sealing contact area, ensuring the critical sealing region of the valve body.

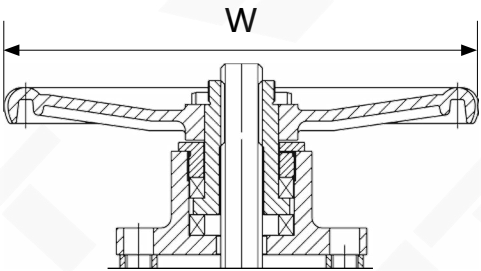
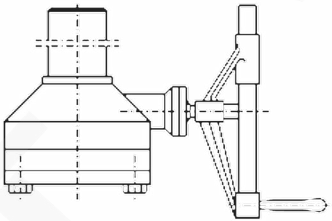
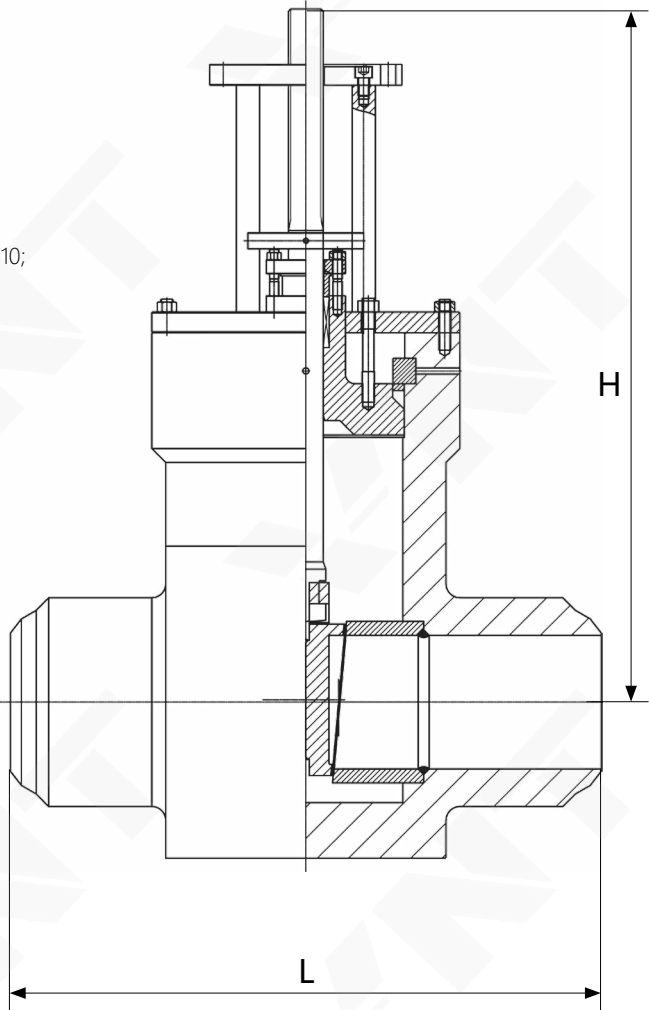
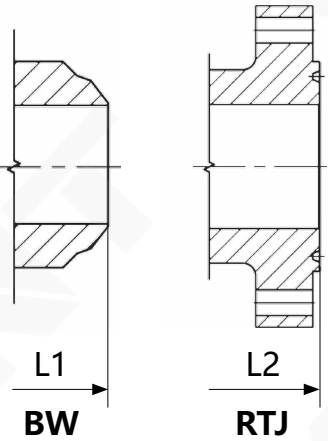
| 序号<br>No.1 | 零部件<br>Parts Name     | 标准<br>Standard Material | 高温环境<br>High Temp. Service | 高温环境<br>High Temp. Service | 耐腐蚀环境<br>Corrosive Service |
|------------|-----------------------|-------------------------|----------------------------|----------------------------|----------------------------|
| 1          | 阀体 /Body              | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 2          | 阀座 /Seat              | ASTM A105+Stl.6         | ASTM A182 F11/F22+Stl.6    | ASTM A182 F91+Stl.6        | ASTM A182 F51+Stl.6        |
| 3          | 闸板 /Disc              | ASTM A105+Stl.6         | ASTM A182 F11/F22+Stl.6    | ASTM A182 F91+Stl.6        | ASTM A182 F51+Stl.6        |
| 4          | 弹簧 /Spring            | SS304                   | Inconel X-750              | Inconel X-750              | Inconel X-750              |
| 5          | 阀杆 /Stem              | ASTM A182 F6a           | ASTM A182 F6a              | XM-19                      | ASTM A182 F51              |
| 6          | 活动阀盖 /Activity Bonnet | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 7          | 自紧圈 /Pressure Seat    | Graphite+SS304          | Graphite+SS304             | Graphite+SS304             | Graphite+SS316             |
| 8          | 垫圈 /Washer            | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 9          | 四开环 /1/4 Rings        | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 10         | 阀盖 /Bonnet            | ASTM A105               | ASTM A105                  | ASTM A105                  | ASTM A182 F51              |
| 11         | 阀盖螺母 /Bonnet Nut      | ASTM A194 2H            | ASTM A194 7                | ASTM A194 7                | ASTM A194 8                |
| 12         | 阀盖螺栓 /Bonnet Bolt     | ASTM A193 B7            | ASTM A193 B16              | ASTM A193 B16              | ASTM A193 B8               |
| 13         | 阀杆填料 /Stem Packing    | Graphite                | Graphite                   | Graphite                   | Graphite                   |
| 14         | 填料压套 /Gland           | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 15         | 限位块 /Stop Block       | ASTM A105               | ASTM A105                  | ASTM A105                  | ASTM A182 F304             |
| 16         | 支架 /Yoke              | ASTM A276 410           | ASTM A276 410              | ASTM A276 410              | ASTM A276 410              |
| 17         | 顶法兰 /Top Flange       | ASTM A105               | ASTM A105                  | ASTM A105                  | ASTM A182 F304             |

备注 /Note:

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ASME B16.34 设计；  
端部结构长度设计符合 ASME B16.10；  
法兰连接符合 ASME B16.25；  
自密封阀盖；  
明杆支架；  
上密封堆焊 STL.6；  
上升阀杆；

Designed in accordance with ASME B16.34；  
Face-to-face dimensions conform to ASME B16.10；  
Flange connections comply with ASME B16.25；  
Pressure Seal bonnet；  
OS&Y；  
Hard-faced backseat with STL.6 ；  
Rising Stem；



600LB

|                 |    |       |        |       |       |       |       |       |       |       |       |       |       |       |        |      |       |      |
|-----------------|----|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|------|-------|------|
| NPS             | in | 2"    | 2-1/2" | 3"    | 4"    | 5"    | 6"    | 8"    | 10"   | 12"   | 14"   | 16"   | 18"   | 20"   | 24"    | 26"  | 28"   | 30"  |
| DN              | mm | 50    | 65     | 80    | 100   | 125   | 150   | 200   | 250   | 300   | 350   | 400   | 450   | 500   | 600    | 650  | 700   | 750  |
| L-L1<br>(RF-BW) | in | 11.5  | 13     | 14    | 17    | 20    | 22    | 26    | 31    | 33    | 35    | 39    | 43    | 47    | 55     | 57   | 61    | 65   |
|                 | mm | 292   | 330    | 356   | 432   | 508   | 559   | 660   | 787   | 838   | 889   | 991   | 1092  | 1194  | 1397   | 1448 | 1549  | 1651 |
| L2(RTJ)         | in | 11.62 | 13.12  | 14.12 | 17.12 | 20.12 | 22.12 | 26.12 | 31.12 | 33.12 | 35.12 | 39.12 | 43.1  | 47.25 | 55.38  | 57.5 | 61.5  | 65.5 |
|                 | mm | 295   | 333    | 359   | 435   | 511   | 562   | 663   | 790   | 841   | 892   | 994   | 1095  | 1200  | 1407   | 1461 | 1562  | 1664 |
| W               | in | 7.9   | 9.8    | 9.8   | 13.8  | 15.7  | 17.7  | 19.7  | 23.6  | 26.8  | 24    | 24    | 24    | 24    | 32     | 32   | 40    | 40   |
|                 | mm | 200   | 250    | 250   | 350   | 400   | 450   | 500   | 600   | 610   | 610   | 610   | 610   | 610   | 800    | 800  | 1000  | 1000 |
| H               | in | 23.2  | 24.8   | 26.3  | 36    | 39.4  | 42.5  | 49.9  | 59.5  | 70.5  | 73.1  | 85.1  | 88.63 | 97.25 | 118.03 | 128  | 137.9 | 149  |
|                 | mm | 590   | 629    | 667   | 914   | 1000  | 1080  | 1267  | 1511  | 1791  | 1857  | 2162  | 2251  | 2470  | 3000   | 3251 | 3502  | 3785 |

关于 30"以上阀门的资料请联系销售部  
Please contact us for information above 30" valves.

900LB

|         |    |       |        |       |       |       |       |       |       |       |       |       |       |       |       |      |       |
|---------|----|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| NPS     | in | 2"    | 2-1/2" | 3"    | 4"    | 6"    | 8"    | 10"   | 12"   | 14"   | 16"   | 18"   | 20"   | 24"   | 26"   | 28"  | 30"   |
| DN      | mm | 50    | 65     | 80    | 100   | 150   | 200   | 250   | 300   | 350   | 400   | 450   | 500   | 600   | 650   | 700  | 750   |
| L(BW)   | in | 8.5   | 10     | 12    | 14    | 20    | 26    | 31    | 36    | 39    | 43    | 48    | 52    | 61    | 64.5  | 68   | 71.5  |
|         | mm | 216   | 254    | 305   | 356   | 508   | 660   | 787   | 914   | 991   | 1092  | 1219  | 1321  | 1549  | 1638  | 1727 | 1816  |
| L1(RF)  | in | 14.5  | 16.5   | 15    | 18    | 24    | 29    | 33    | 38    | 40.5  | 44.5  | 48    | 52    | 61    | -     | -    | -     |
|         | mm | 368   | 419    | 381   | 457   | 610   | 737   | 838   | 965   | 1029  | 1130  | 1219  | 1321  | 1549  | -     | -    | -     |
| L2(RTJ) | in | 14.62 | 16.62  | 15.12 | 18.12 | 24.12 | 29.12 | 33.12 | 38.12 | 40.88 | 44.88 | 48.50 | 52.48 | 61.75 | -     | -    | -     |
|         | mm | 371   | 422    | 384   | 460   | 613   | 740   | 841   | 968   | 1038  | 1140  | 1232  | 1333  | 1568  | -     | -    | -     |
| W       | in | 10    | 10     | 12    | 14    | 20    | 24    | 24    | 24    | 24    | 30.5  | 30.5  | 40    | 40    | 40    | 40   | 48    |
|         | mm | 250   | 250    | 300   | 350   | 500   | 600   | 610   | 610   | 610   | 800   | 800   | 1000  | 1000  | 1000  | 1000 | 1200  |
| H       | in | 23    | 30     | 30    | 34    | 40    | 50    | 61    | 70    | 80    | 89    | 97.25 | 108.3 | 127.6 | 138.3 | 149  | 159.5 |
|         | mm | 594   | 753    | 756   | 864   | 1103  | 1276  | 1543  | 1781  | 2026  | 2261  | 2470  | 2750  | 3242  | 3512  | 3785 | 4051  |

关于 30"以上阀门的资料请联系销售部  
Please contact us for information above 30" valves.

1500LB

|         |    |       |        |       |       |      |       |       |       |       |       |       |       |       |
|---------|----|-------|--------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| NPS     | in | 2"    | 2-1/2" | 3"    | 4"    | 6"   | 8"    | 10"   | 12"   | 14"   | 16"   | 18"   | 20"   | 24"   |
| DN      | mm | 50    | 65     | 80    | 100   | 150  | 200   | 250   | 300   | 350   | 400   | 450   | 500   | 600   |
| L(BW)   | in | 11    | 13     | 14.5  | 18    | 24   | 30    | 36    | 41    | 44    | 49    | 55    | 61    | 65.5  |
|         | mm | 279   | 330    | 368   | 457   | 610  | 762   | 914   | 1041  | 1118  | 1245  | 1397  | 1549  | 1664  |
| L1(RF)  | in | 17.75 | 20     | 22.75 | 26.5  | 36   | 40.25 | 60    | 56    | -     | -     | -     | -     | -     |
|         | mm | 451   | 508    | 578   | 673   | 914  | 1022  | 1270  | 1422  | -     | -     | -     | -     | -     |
| L2(RTJ) | in | 17.88 | 20.25  | 23    | 26.88 | 36.5 | 40.88 | 50.88 | 56.88 | -     | -     | -     | -     | -     |
|         | mm | 454   | 514    | 584   | 683   | 927  | 1038  | 1292  | 1445  | -     | -     | -     | -     | -     |
| W       | in | 14    | 18     | 18    | 20    | 24   | 24    | 24    | 24    | 24    | 31.5  | 31.5  | 40    | 40    |
|         | mm | 350   | 450    | 450   | 500   | 610  | 610   | 610   | 610   | 610   | 800   | 800   | 1000  | 1000  |
| H       | in | 23    | 30     | 30    | 34    | 44   | 55    | 69    | 74    | 94.13 | 97.25 | 116.2 | 128.8 | 153.7 |
|         | mm | 594   | 753    | 756   | 870   | 1129 | 1389  | 1748  | 1873  | 2291  | 2470  | 2950  | 3270  | 3902  |

关于 24"以上阀门的资料请联系销售部  
Please contact us for information above 24" valves.

2500LB

|         |    |       |        |       |       |      |       |       |       |       |       |       |       |       |
|---------|----|-------|--------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| NPS     | in | 2"    | 2-1/2" | 3"    | 4"    | 6"   | 8"    | 10"   | 12"   | 14"   | 16"   | 18"   | 20"   | 24"   |
| DN      | mm | 50    | 65     | 80    | 100   | 150  | 200   | 250   | 300   | 350   | 400   | 450   | 500   | 600   |
| L(BW)   | in | 11    | 13     | 14.5  | 18    | 24   | 30    | 36    | 41    | 44    | 49    | 55    | 61    | 65.5  |
|         | mm | 279   | 330    | 368   | 457   | 610  | 762   | 914   | 1041  | 1118  | 1245  | 1397  | 1549  | 1664  |
| L1(RF)  | in | 17.75 | 20     | 22.75 | 26.5  | 36   | 40.25 | 60    | 56    | -     | -     | -     | -     | -     |
|         | mm | 451   | 508    | 578   | 673   | 914  | 1022  | 1270  | 1422  | -     | -     | -     | -     | -     |
| L2(RTJ) | in | 17.88 | 20.25  | 23    | 26.88 | 36.5 | 40.88 | 50.88 | 56.88 | -     | -     | -     | -     | -     |
|         | mm | 454   | 514    | 584   | 683   | 927  | 1038  | 1292  | 1445  | -     | -     | -     | -     | -     |
| W       | in | 14    | 18     | 18    | 20    | 24   | 24    | 24    | 24    | 24    | 31.5  | 31.5  | 40    | 40    |
|         | mm | 350   | 450    | 450   | 500   | 610  | 610   | 610   | 610   | 610   | 800   | 800   | 1000  | 1000  |
| H       | in | 23    | 30     | 30    | 34    | 44   | 55    | 69    | 74    | 94.13 | 97.25 | 116.2 | 128.8 | 153.7 |
|         | mm | 594   | 753    | 756   | 870   | 1129 | 1389  | 1748  | 1873  | 2291  | 2470  | 2950  | 3270  | 3902  |

关于 24"以上阀门的资料请联系销售部  
Please contact us for information above 24" valves.

标准 14"及以上，可选 8"~12"- 齿轮箱配置  
Gearbox optional for 8"-12", standard for 14" and above.

标准 14"及以上，可选 4"~6"- 齿轮箱配置  
Gearbox optional for 4"-6", standard for 14" and above.

标准 14"及以上，可选 4"~6"- 齿轮箱配置  
Gearbox optional for 4"-6", standard for 14" and above.

标准 14"及以上，可选 4"~6"- 齿轮箱配置  
Gearbox optional for 4"-6", standard for 14" and above.

# 截止阀 GLOBE VALVE

## 产品范围 Specifications

阀门尺寸 (铸件) / Casting Size: 2"~24"  
阀门尺寸 (锻件) / Forging Size: 2"~14"  
温度范围 / Temperature Range: -46~650°C  
压力等级 / Pressure Rating: 150~4500LB

## 设计特色 Design Features

中部自密封 / 螺栓连接  
Self-Sealing Center or Bolted  
防吹出阀杆  
Blowout-Proof Stem  
上密封堆焊 STL.6  
Backseat overlay stl.6  
低泄漏设计  
Low-Leakage Design

## 设计和检验标准 Design and Inspection Standards

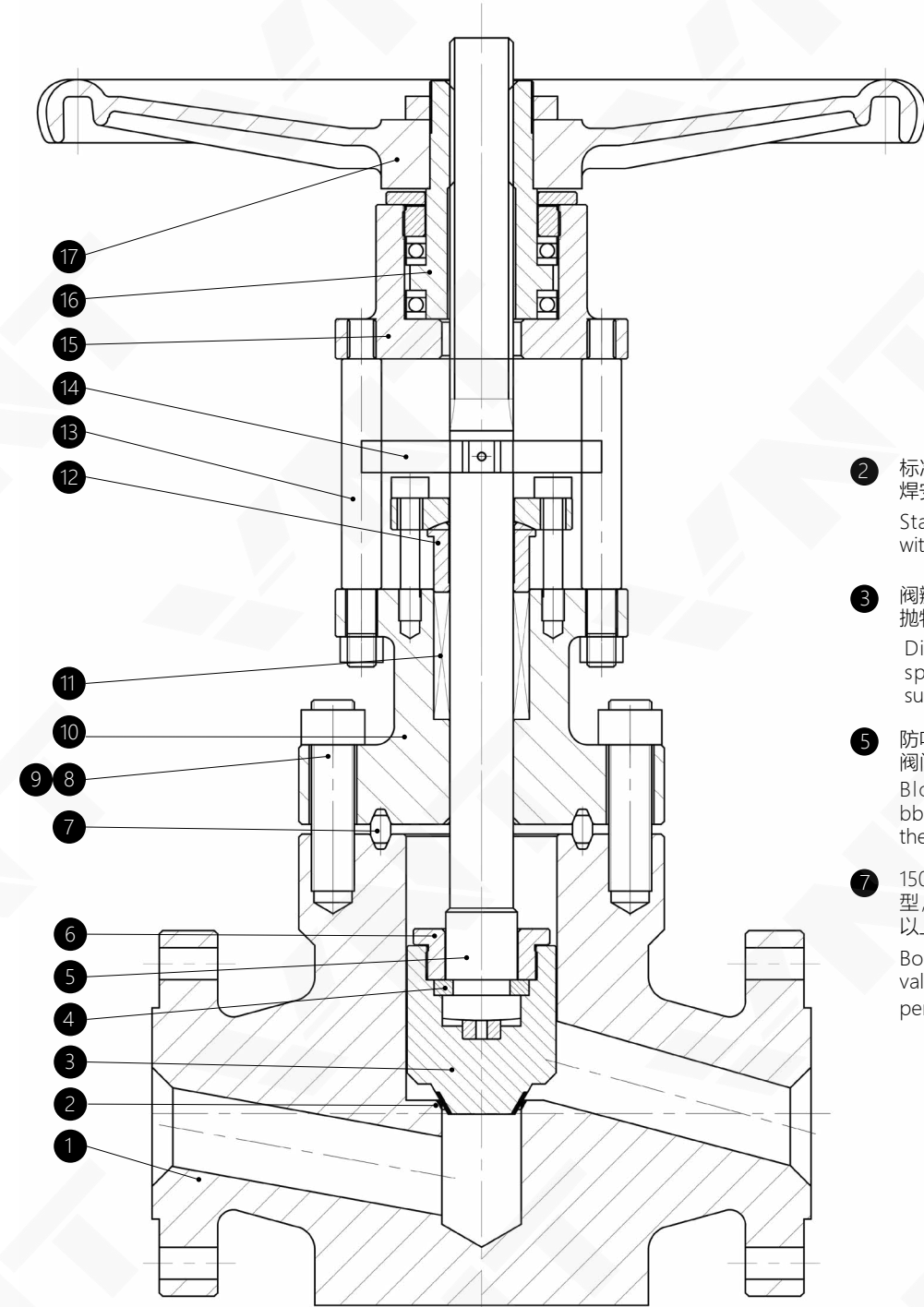
设计标准 / Design std: ASME B16.34/API 6D  
壳体壁厚 / shell: ASTM B16.34  
结构长度 Face to Face: ASTM B16.10  
压力试验 / Pressure Test: API 598  
耐火试验 / Fire Resistance Test: API 607

## 连接端标准 End Connection Standards

法兰端 / Flange: ASTM B16.5  
对焊端 / BW: ASTM B16.25  
承插焊 / SW: ASTM B16.11



## 结构示意图 / STRUCTURAL DIAGRAM



- 2 标准座圈设计为密封面堆焊 6 号钴基并采用密封焊安装。  
Standard seat ring: sealing surface overlaid with Stl.6, body overlaid with base material.
- 3 阀瓣采用锥角设计, 按照客户要求也可提供球形、抛物线或扁平型。  
Disc features a conical angle design, and spherical, parabolic, or flat types can be supplied upon request.
- 5 防吹出阀杆设计具有一个锥型的上密封面, 允许阀门处于全开位置时置换填料。  
Blowout-Proof Stem: Features a tapered backseat, allowing packing replacement with the valve fully open.
- 7 150 磅到 600 磅截止阀阀体与阀盖连接为凹凸面型, 阀体与阀盖凹槽面型连接主要用于 900 磅及以上截止阀或按客户要求用于 600 磅的截止阀。  
Body-Bonnet Joints: RF for 150-600 lb globe valves; RTJ for 900 lb and above, or for 600 lb per customer specification.

材料表 / BOM

| 序号<br>No.1 | 零部件<br>Parts Name | 标准<br>Standard Material | 高温环境<br>High Temp. Service | 高温环境<br>High Temp. Service | 耐腐蚀环境<br>Corrosive Service |
|------------|-------------------|-------------------------|----------------------------|----------------------------|----------------------------|
| 1          | 阀体 /Body          | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 2          | 阀座 /Seat          | ASTM A105+Stl.6         | ASTM A182 F11/F22+Stl.6    | ASTM A182 F91+Stl.6        | ASTM A182 F51+Stl.6        |
| 3          | 阀瓣 /Disc          | ASTM A105+Stl.6         | ASTM A182 F11/F22+Stl.6    | ASTM A182 F91+Stl.6        | ASTM A182 F51+Stl.6        |
| 4          | 对开环 /1/2 Rings    | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 5          | 阀杆 /Stem          | ASTM A182 F6a           | ASTM A182 F6a              | XM-19                      | ASTM A182 F51              |
| 6          | 阀瓣压盖 /Stem Gland  | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 7          | 八角环 /Gasket       | IRON                    | SS304                      | SS304                      | SS316                      |
| 8          | 阀盖螺母 /Bonnet Nut  | ASTM A194 2H            | ASTM A194 7                | ASTM A194 7                | ASTM A194 8                |
| 9          | 阀盖螺栓 /Bonnet Bolt | ASTM A193 B7            | ASTM A193 B16              | ASTM A193 B16              | ASTM A193 B8               |
| 10         | 阀盖 /Bonnet        | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 11         | 阀杆填料 /Packing     | Graphite                | Graphite                   | Graphite                   | Graphite+SS316             |
| 12         | 填料压套 /Gland       | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 13         | 支架 /Yoke          | ASTM A276 410           | ASTM A276 410              | ASTM A276 410              | ASTM A276 410              |
| 14         | 限位块 /Stop Block   | ASTM A105               | ASTM A105                  | ASTM A105                  | ASTM A182 F304             |
| 15         | 顶法兰 /Top Flange   | ASTM A105               | ASTM A105                  | ASTM A105                  | ASTM A182 F304             |
| 16         | 阀杆螺母 /Stem Nut    | Al-Bronze               | Al-Bronze                  | Al-Bronze                  | Al-Bronze                  |
| 17         | 手轮 /Handwheel     | Cast Iron               | Cast Iron                  | Cast Iron                  | Cast Iron                  |

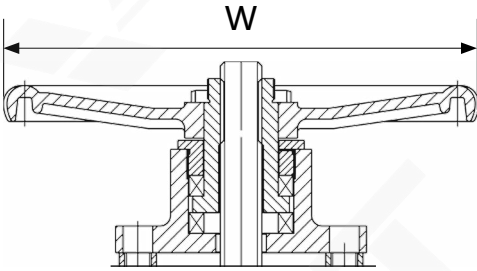
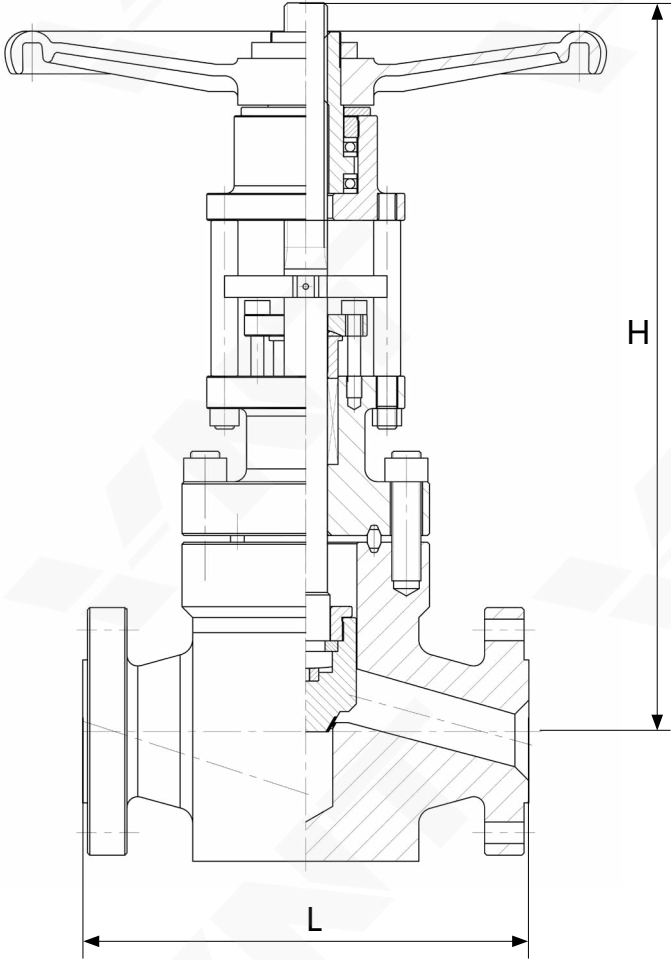
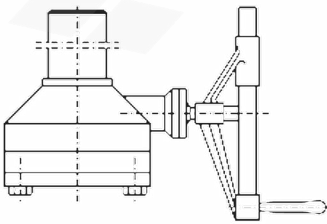
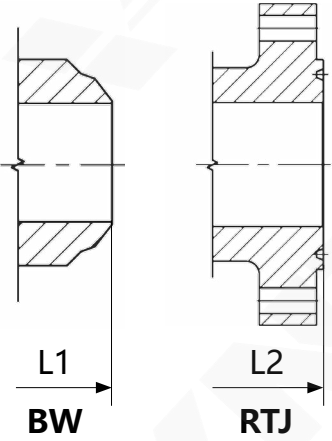
备注 /Note:

- 1.其他材料可根据客户要求提供, 请咨询销售部门。  
Other materials can be provided upon customer request, Please consult the sales office.
2. 可提供 ASTM 标准规定的所有铸造和锻造材料。  
All ASTM-standard cast and forged materials available .

尺寸 / SIZE

ASME B16.34 设计 ;  
端部结构长度设计符合 ASME B16.10;  
法兰连接符合 ASME B16.5;  
螺栓连接阀盖 ;  
上密封堆焊 STL.6;  
上升阀杆 ;

Designed in accordance with ASME B16.34;  
Face-to-facdimensions conform to ASME B16.10;  
Flange connections comply with ASME B16.5;  
Bolted bonnet design;  
Hard-faced backseat with STL.6 ;  
Rising Stem;



尺寸 / SIZE

600LB

| NPS             | in | 2"    | 2-1/2" | 3"    | 4"    | 5"    | 6"    | 8"    | 10"   | 12"   | 14"   | 16"   | 18"  |
|-----------------|----|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| DN              | mm | 50    | 65     | 80    | 100   | 125   | 150   | 200   | 250   | 300   | 350   | 400   | 450  |
| L-L1<br>(RF-BW) | in | 11.5  | 13     | 14    | 17    | 20    | 22    | 26    | 31    | 33    | 35    | 39    | 43   |
|                 | mm | 292   | 330    | 356   | 432   | 508   | 559   | 660   | 787   | 838   | 889   | 991   | 1092 |
| L2(RTJ)         | in | 11.62 | 13.12  | 14.12 | 17.12 | 20.12 | 22.12 | 26.12 | 31.12 | 33.12 | 35.12 | 39.12 | 43.1 |
|                 | mm | 295   | 333    | 359   | 435   | 511   | 562   | 663   | 790   | 841   | 892   | 994   | 1095 |
| W               | in | 10    | 10     | 14    | 18    | 20    | 22    | 24    | 28    | 24    | 24    | 30    | 32   |
|                 | mm | 250   | 250    | 350   | 450   | 500   | 560   | 600   | 700   | 610   | 610   | 762   | 810  |
| H               | in | 15.6  | 17.6   | 19.5  | 23.6  | 27.6  | 31.1  | 39.9  | 46.5  | 55    | 57.1  | 63.4  | 70.9 |
|                 | mm | 396.5 | 446    | 495.5 | 599   | 700   | 791   | 1014  | 1180  | 1397  | 1450  | 1610  | 1801 |

关于 18"以上阀门的资料请联系销售部  
Please contact us for information above 18" valves.

900LB

| NPS             | in | 2"    | 2-1/2" | 3"    | 4"    | 6"    | 8"    | 10"  | 12"  | 14"  | 16"  |
|-----------------|----|-------|--------|-------|-------|-------|-------|------|------|------|------|
| DN              | mm | 50    | 65     | 80    | 100   | 150   | 200   | 250  | 300  | 350  | 400  |
| L-L1<br>(RF-BW) | in | 14.5  | 16.5   | 15    | 18    | 24    | 29    | 33   | 38   | 40.5 | 44.5 |
|                 | mm | 368   | 419    | 381   | 457   | 610   | 737   | 838  | 965  | 1029 | 1130 |
| L2(RTJ)         | in | 14.62 | 16.62  | 15.12 | 18.12 | 24.12 | 29.12 | 33.1 | 38.1 | 40.9 | 44.9 |
|                 | mm | 371   | 422    | 384   | 460   | 613   | 740   | 841  | 968  | 1038 | 1140 |
| W               | in | 14    | 14     | 18    | 20    | 24    | 24    | 24   | 31.9 | 31.9 | 31.9 |
|                 | mm | 350   | 350    | 450   | 500   | 610   | 610   | 610  | 810  | 810  | 810  |
| H               | in | 23.2  | 26     | 27.5  | 31.3  | 43.6  | 43.6  | 58.2 | 69.1 | 76.1 | 87   |
|                 | mm | 590   | 660    | 699   | 795   | 1108  | 1184  | 1479 | 1755 | 1934 | 2210 |

关于 16"以上阀门的资料请联系销售部  
Please contact us for information above 16" valves.

1500LB

| NPS             | in | 2"    | 2-1/2" | 3"    | 4"    | 6"    | 8"    | 10"  | 12"   |
|-----------------|----|-------|--------|-------|-------|-------|-------|------|-------|
| DN              | mm | 50    | 65     | 80    | 100   | 150   | 200   | 250  | 300   |
| L-L1<br>(RF-BW) | in | 14.5  | 16.5   | 18.5  | 21.5  | 27.75 | 32.75 | 39   | 44.5  |
|                 | mm | 368   | 419    | 470   | 546   | 705   | 832   | 991  | 1130  |
| L2(RTJ)         | in | 14.62 | 16.62  | 18.62 | 21.62 | 28.00 | 33.13 | 39.4 | 45.1  |
|                 | mm | 371   | 422    | 473   | 549   | 711   | 842   | 1000 | 1146  |
| W               | in | 14    | 14     | 20    | 22    | 24    | 24    | 31.9 | 31.9  |
|                 | mm | 350   | 350    | 500   | 560   | 610   | 610   | 810  | 810   |
| H               | in | 21.7  | 22.5   | 22.9  | 31.3  | 50.3  | 77.2  | 96.5 | 114.3 |
|                 | mm | 550   | 572    | 582   | 795   | 1278  | 1960  | 2450 | 2904  |

关于 12"以上阀门的资料请联系销售部  
Please contact us for information above 12" valves.

2500LB

| NPS             | in | 2"    | 2-1/2" | 3"    | 4"    | 6"    | 8"    | 10"   |
|-----------------|----|-------|--------|-------|-------|-------|-------|-------|
| DN              | mm | 50    | 65     | 80    | 100   | 150   | 200   | 250   |
| L-L1<br>(RF-BW) | in | 17.75 | 20     | 22.75 | 26.5  | 36    | 40.25 | 50    |
|                 | mm | 451   | 508    | 578   | 673   | 914   | 1022  | 1270  |
| L2(RTJ)         | in | 17.88 | 20.25  | 23.00 | 26.88 | 36.50 | 40.88 | 50.9  |
|                 | mm | 454   | 514    | 584   | 683   | 927   | 1038  | 1292  |
| W               | in | 16    | 20     | 22    | 24    | 24    | 24    | 31.9  |
|                 | mm | 400   | 500    | 560   | 610   | 610   | 610   | 810   |
| H               | in | 28.3  | 31.5   | 34.8  | 49.6  | 75    | 97    | 122.4 |
|                 | mm | 720   | 800    | 885   | 1260  | 1905  | 2465  | 3108  |

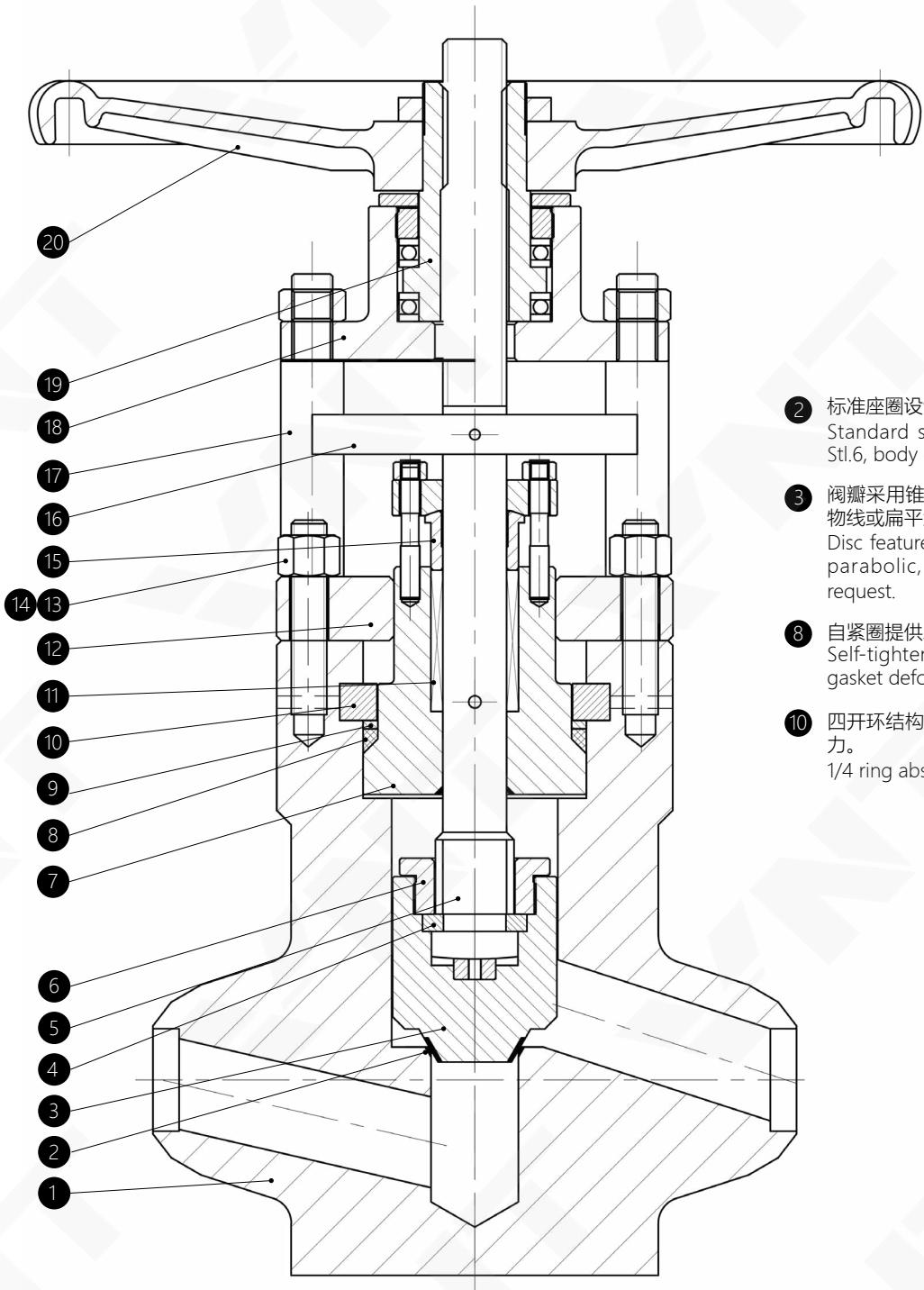
关于 10"以上阀门的资料请联系销售部  
Please contact us for information above 10" valves.

标准 12"及以上, 可选 6"~10"- 齿轮箱配置  
Gearbox optional for 6"-10", standard for 12" and above.

标准 8"及以上, 可选 4"~6"- 齿轮箱配置  
Gearbox optional for 4"-6", standard for 8" and above.

标准 4"及以上, 可选 2"~3"- 齿轮箱配置  
Gearbox optional for 2"-3", standard for 4" and above.

标准 3"及以上, 可选 2"- 齿轮箱配置  
Gearbox optional for 2", standard for 3" and above.



- 2 标准座圈设计为密封面堆焊 6 号钴基并本体堆焊。  
Standard seat ring; sealing surface overlaid with Stl.6, body overlaid with base material.
- 3 阀瓣采用锥角设计, 按照客户要求也可提供球形、抛物线或扁平型。  
Disc features a conical angle design, and spherical, parabolic, or flat types can be supplied upon request.
- 8 自紧圈提供承压表面并防止垫片变形。  
Self-tightening ring bears pressure and prevents gasket deformation.
- 10 四开环结构吸收由于内压产生的沿阀杆方向的朝外推力。  
1/4 ring absorbs stem thrust from internal pressure.

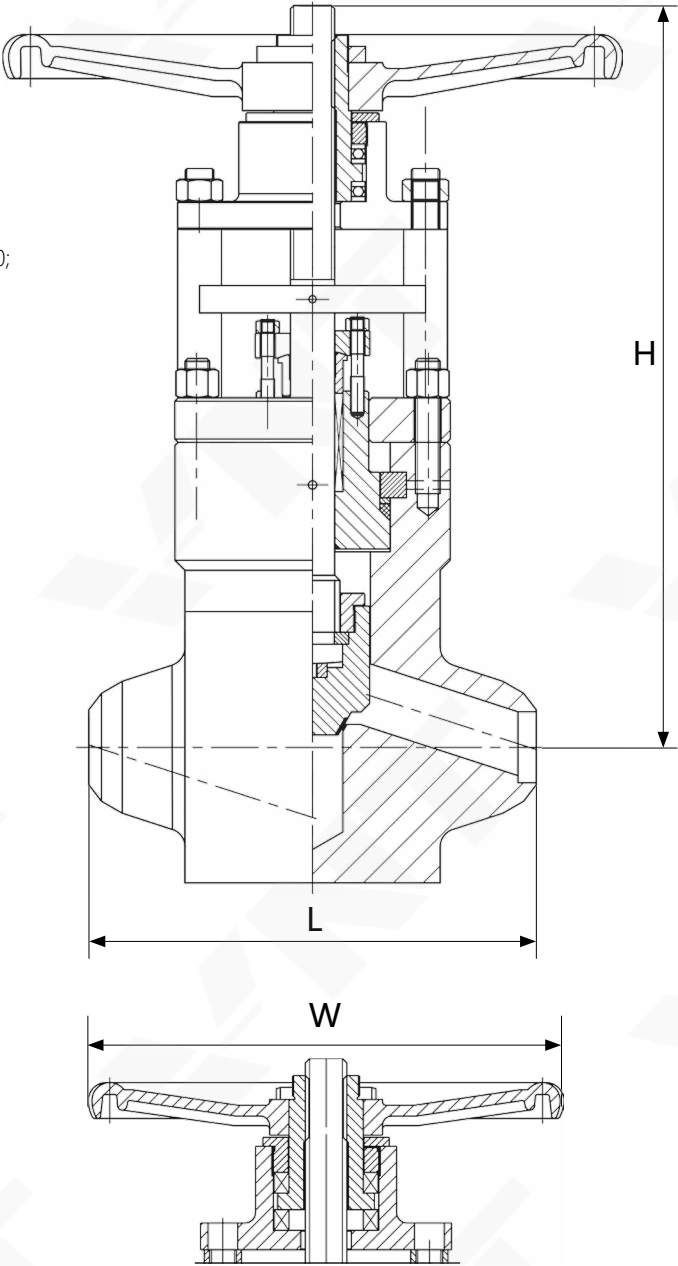
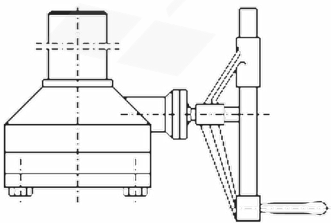
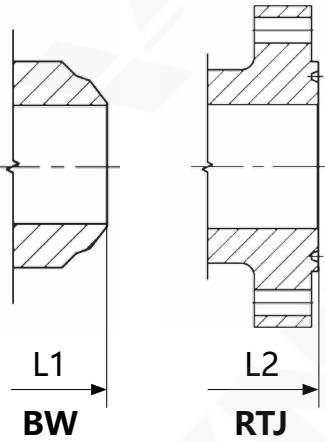
| 序号<br>No.1 | 零部件<br>Parts Name     | 标准<br>Standard Material | 高温环境<br>High Temp. Service | 高温环境<br>High Temp. Service | 耐腐蚀环境<br>Corrosive Service |
|------------|-----------------------|-------------------------|----------------------------|----------------------------|----------------------------|
| 1          | 阀体 /Body              | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 2          | 阀座 /Seat              | ASTM A105+Stl.6         | ASTM A182 F11/F22+Stl.6    | ASTM A182 F91+Stl.6        | ASTM A182 F51+Stl.6        |
| 3          | 阀瓣 /Disc              | ASTM A105+Stl.6         | ASTM A182 F11/F22+Stl.6    | ASTM A182 F91+Stl.6        | ASTM A182 F51+Stl.6        |
| 4          | 对开环 /1/2 Rings        | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 5          | 阀杆 /Stem              | ASTM A182 F6a           | ASTM A182 F6a              | XM-19                      | ASTM A182 F51              |
| 6          | 阀瓣压盖 /Stem Gland      | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 7          | 活动阀盖 /Activity Bonnet | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 8          | 自紧圈 /Pressure Seat    | Graphite+SS304          | Graphite+SS304             | Graphite+SS304             | Graphite+SS316             |
| 9          | 垫圈 /Washer            | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 10         | 四开环 /1/4 Rings        | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 11         | 阀杆填料 /Stem Packing    | Graphite                | Graphite                   | Graphite                   | Graphite                   |
| 12         | 阀盖 /Bonnet            | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 13         | 阀盖螺母 /Bonnet Nut      | ASTM A194 2H            | ASTM A194 7                | ASTM A194 7                | ASTM A194 8                |
| 14         | 阀盖螺栓 /Bonnet Bolt     | ASTM A193 B7            | ASTM A193 B16              | ASTM A193 B16              | ASTM A193 B8               |
| 15         | 填料压套 /Gland           | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 16         | 限位块 /Stop Block       | ASTM A105               | ASTM A105                  | ASTM A105                  | ASTM A182 F304             |
| 17         | 支架 /Yoke              | ASTM A276 410           | ASTM A276 410              | ASTM A276 410              | ASTM A276 410              |
| 18         | 顶法兰 /Top Flange       | ASTM A105               | ASTM A105                  | ASTM A105                  | ASTM A182 F304             |
| 19         | 阀杆螺母 /Stem Nut        | Al-Bronze               | Al-Bronze                  | Al-Bronze                  | Al-Bronze                  |
| 20         | 手轮 /Handwheel         | Cast Iron               | Cast Iron                  | Cast Iron                  | Cast Iron                  |

备注 /Note:

1. 其他材料可根据客户要求提供, 请咨询销售部门。  
Other materials can be provided upon customer request, Please consult the sales office.
2. 可提供 ASTM 标准规定的所有铸造和锻造材料。  
All ASTM-standard cast and forged materials available .

ASME B16.34 设计 ;  
端部结构长度设计符合 ASME B16.10;  
法兰连接符合 ASME B16.25;  
自密封阀盖 ;  
上密封堆焊 STL.6;  
上升阀杆 ;

Designed in accordance with ASME B16.34;  
Face-to-facdimensions conform to ASME B16.10;  
Flange connections comply with ASME B16.25;  
Pressure Seal bonnet;  
Hard-faced backseat with STL.6 ;  
Rising Stem;



尺寸 / SIZE

600LB

| NPS             | in | 2"    | 2-1/2" | 3"    | 4"    | 5"    | 6"    | 8"    | 10"   | 12"   | 14"   | 16"   | 18"  | 20"   | 24"   |
|-----------------|----|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|
| DN              | mm | 50    | 65     | 80    | 100   | 125   | 150   | 200   | 250   | 300   | 350   | 400   | 450  | 500   | 600   |
| L-L1<br>(RF-BW) | in | 11.5  | 13     | 14    | 17    | 20    | 22    | 26    | 31    | 33    | 35    | 39    | 43   | 47    | 55    |
|                 | mm | 292   | 330    | 356   | 432   | 508   | 559   | 660   | 787   | 838   | 889   | 991   | 1092 | 1194  | 1397  |
| L2(RTJ)         | in | 11.62 | 13.12  | 14.12 | 17.12 | 20.12 | 22.12 | 26.12 | 31.12 | 33.12 | 35.12 | 39.12 | 43.1 | 47.25 | 55.38 |
|                 | mm | 295   | 333    | 359   | 435   | 511   | 562   | 663   | 790   | 841   | 892   | 994   | 1095 | 1200  | 1407  |
| W               | in | 9.8   | 11.8   | 13.8  | 17.7  | 19.7  | 22    | 23.6  | 27.6  | 24    | 24    | 30    | -    | -     | -     |
|                 | mm | 250   | 300    | 350   | 450   | 500   | 560   | 600   | 700   | 610   | 610   | 760   | -    | -     | -     |
| H               | in | 21.7  | 24.8   | 26.8  | 29.5  | 39.4  | 45.3  | 49.2  | 55.1  | 61    | 70.9  | 85    | -    | -     | -     |
|                 | mm | 550   | 630    | 680   | 750   | 1000  | 1150  | 1250  | 1400  | 1550  | 1800  | 2160  | -    | -     | -     |

关于 24"以上阀门的资料请联系销售部  
Please contact us for information above 24" valves.

900LB

| NPS     | in | 2"    | 2-1/2" | 3"    | 4"    | 6"    | 8"    | 10"   | 12"   | 14"   | 16"   | 18"   | 20"   | 24"   |
|---------|----|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| DN      | mm | 50    | 65     | 80    | 100   | 150   | 200   | 250   | 300   | 350   | 400   | 450   | 500   | 600   |
| L(BW)   | in | 8.5   | 10     | 12    | 14    | 20    | 26    | 31    | 36    | 39    | 43    | -     | -     | -     |
|         | mm | 216   | 254    | 305   | 356   | 508   | 660   | 787   | 914   | 991   | 1092  | -     | -     | -     |
| L1(RF)  | in | 14.5  | 16.5   | 15    | 18    | 24    | 29    | 33    | 38    | 40.5  | 44.5  | 48    | 52    | 61    |
|         | mm | 368   | 419    | 381   | 457   | 610   | 737   | 838   | 965   | 1029  | 1130  | 1219  | 1321  | 1549  |
| L2(RTJ) | in | 14.62 | 16.62  | 15.12 | 18.12 | 24.12 | 29.12 | 33.12 | 38.12 | 40.88 | 44.88 | 48.50 | 52.50 | 61.75 |
|         | mm | 371   | 422    | 384   | 460   | 613   | 740   | 841   | 968   | 1038  | 1140  | 1232  | 1334  | 1568  |
| W       | in | 14    | 14     | 18    | 20    | 24    | 24    | 24    | 40    | 40    | 48    | -     | -     | -     |
|         | mm | 350   | 350    | 450   | 500   | 610   | 610   | 610   | 1000  | 1000  | 1200  | -     | -     | -     |
| H       | in | 24.4  | 25.2   | 28.4  | 33.5  | 48.2  | 53.1  | 61    | 68.9  | 78.8  | 91    | -     | -     | -     |
|         | mm | 619   | 641    | 721   | 850   | 1225  | 1350  | 1550  | 1750  | 2000  | 2310  | -     | -     | -     |

关于 24"以上阀门的资料请联系销售部  
Please contact us for information above 24" valves.

1500LB

| NPS     | in | 2"    | 2-1/2" | 3"    | 4"    | 6"    | 8"    | 10"   | 12"   | 14"   | 16"   | 18"   | 20"   | 24"   |
|---------|----|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| DN      | mm | 50    | 65     | 80    | 100   | 150   | 200   | 250   | 300   | 350   | 400   | 450   | 500   | 600   |
| L(BW)   | in | 8.5   | 10     | 12    | 16    | 22    | 28    | 34    | 39    | 42    | 47    | -     | -     | -     |
|         | mm | 216   | 254    | 305   | 406   | 559   | 711   | 864   | 991   | 1067  | 1194  | -     | -     | -     |
| L1(RF)  | in | 14.5  | 16.5   | 18.5  | 21.5  | 27.75 | 32.75 | 39    | 44.5  | 49.5  | 54.5  | 60.5  | 65.5  | 76.5  |
|         | mm | 368   | 419    | 470   | 546   | 705   | 832   | 991   | 1130  | 1257  | 1384  | 1537  | 1664  | 1943  |
| L2(RTJ) | in | 14.62 | 16.62  | 18.62 | 21.62 | 28    | 33.13 | 39.38 | 45.13 | 50.25 | 55.38 | 61.38 | 66.38 | 77.62 |
|         | mm | 371   | 422    | 473   | 549   | 711   | 842   | 1000  | 1146  | 1276  | 1406  | 1559  | 1686  | 1971  |
| W       | in | 14    | 14     | 20    | 22    | 24    | 24    | 40    | 40    | 48    | -     | -     | -     | -     |
|         | mm | 350   | 350    | 500   | 560   | 610   | 610   | 1000  | 1000  | 1200  | -     | -     | -     | -     |
| H       | in | 24.4  | 25.2   | 32.9  | 33.7  | 48.4  | 70.9  | 78.8  | 91    | 106   | -     | -     | -     | -     |
|         | mm | 619   | 641    | 835   | 857   | 1230  | 1800  | 2000  | 2311  | 2692  | -     | -     | -     | -     |

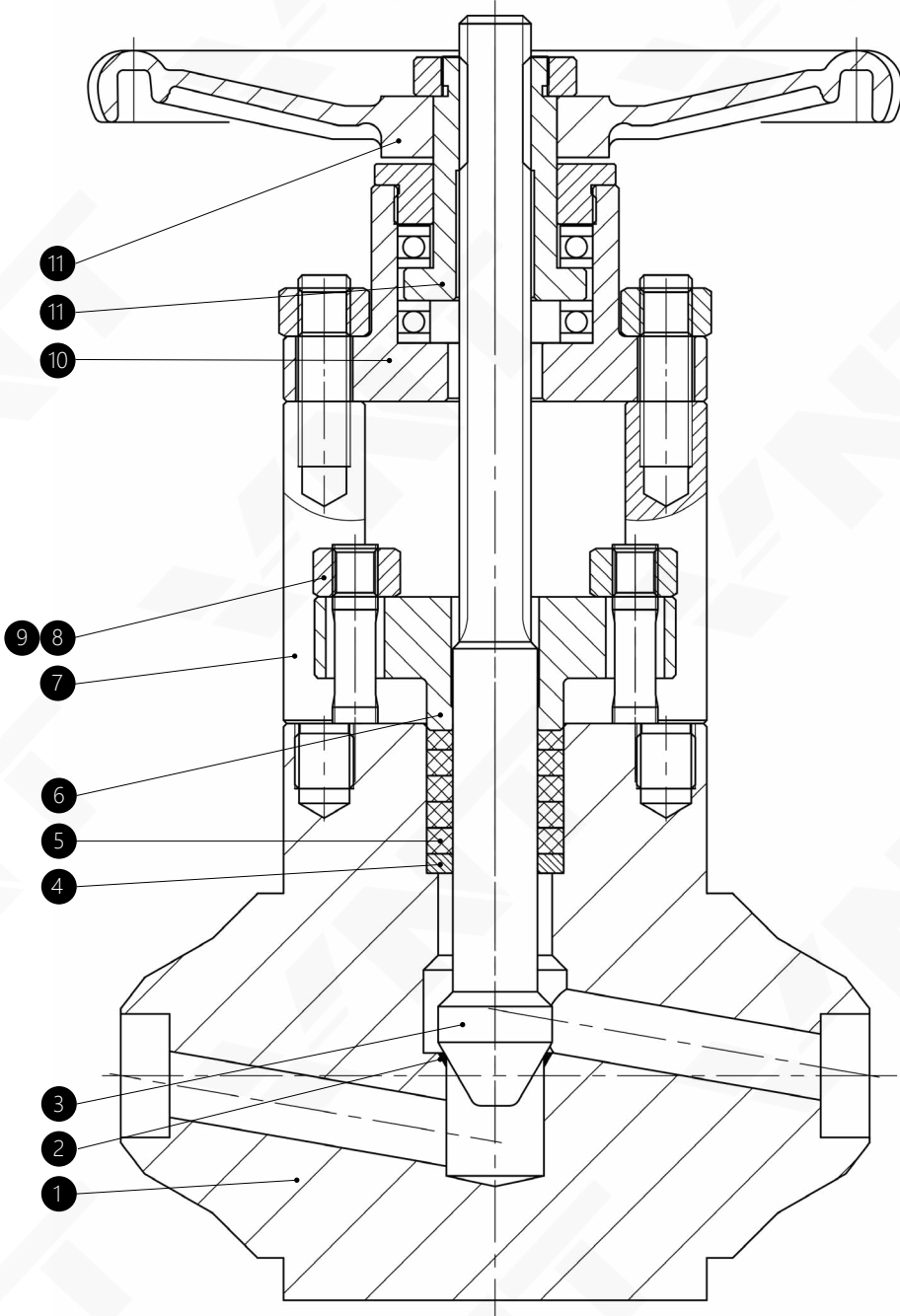
关于 24"以上阀门的资料请联系销售部  
Please contact us for information above 24" valves.

2500LB

| NPS     | in | 2"    | 2-1/2" | 3"    | 4"    | 6"   | 8"    | 10"   | 12"   | 14"  |
|---------|----|-------|--------|-------|-------|------|-------|-------|-------|------|
| DN      | mm | 50    | 65     | 80    | 100   | 150  | 200   | 250   | 300   | 350  |
| L(BW)   | in | 11    | 13     | 14.5  | 18    | 24   | 30    | 36    | 41    | 41   |
|         | mm | 279   | 330    | 368   | 457   | 610  | 762   | 914   | 1041  | 1041 |
| L1(RF)  | in | 17.75 | 20     | 22.75 | 26.5  | 36   | 40.25 | 50    | 56    | -    |
|         | mm | 451   | 508    | 578   | 673   | 914  | 1022  | 1270  | 1422  | -    |
| L2(RTJ) | in | 17.88 | 20.25  | 23    | 26.88 | 36.5 | 40.88 | 50.88 | 56.88 | -    |
|         | mm | 454   | 541    | 584   | 683   | 927  | 1038  | 1292  | 1445  | -    |
| W       | in | 16    | 20     | 22    | 24    | 24   | 24    | 40    | 40    | -    |
|         | mm | 400   | 500    | 560   | 610   | 610  | 610   | 1000  | 1000  | -    |
| H       | in | 24.3  | 30.7   | 31.5  | 51.2  | 53.9 | 85    | 100   | 106   | -    |
|         | mm | 616   | 781    | 800   | 1300  | 1370 | 2160  | 2540  | 2692  | -    |

关于 14"以上阀门的资料请联系销售部  
Please contact us for information above 14" valves.

结构示意 / STRUCTURAL DIAGRAM



**4500LB**  
温度范围 /Temperature Range: -49℃ ~650℃  
尺寸范围 /TSize Range: ≤ 2 "

- 1 整体自由锻，结构紧凑，保证高压环境中的强度要求。  
Integral free forging, compact structure, ensuring strength requirements in high-pressure environments.
- 6 无阀盖设计，填料压盖压紧填料实现中道密封。  
Bonnet-less design; the packing gland compresses the packing to achieve the seal.

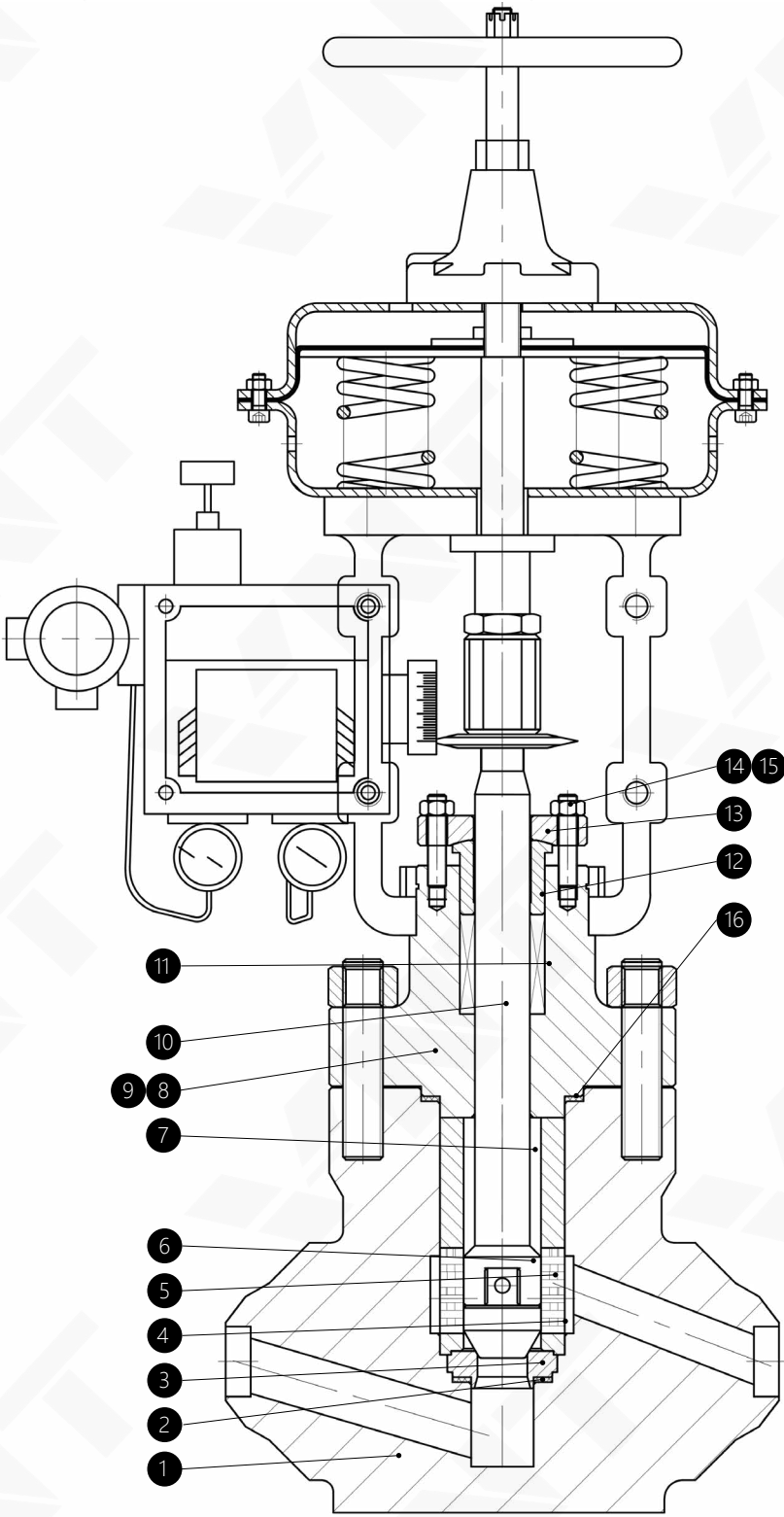
材料表 / BOM

| 序号<br>No.1 | 零部件<br>Parts Name   | 标准<br>Standard Material | 高温环境<br>High Temp. Service | 高温环境<br>High Temp. Service | 耐腐蚀环境<br>Corrosive Service |
|------------|---------------------|-------------------------|----------------------------|----------------------------|----------------------------|
| 1          | 阀体 /Body            | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 2          | 阀座 /Seat            | ASTM A105+Stl.6         | ASTM A182 F11/F22+Stl.6    | ASTM A182 F91+Stl.6        | ASTM A182 F51+Stl.6        |
| 3          | 阀瓣 + 阀杆 /Disc+Stem  | ASTM A182 F6a+Stl.6     | ASTM A182 F6a+Stl.6        | XM-19+Stl.6                | ASTM A182 F51+Stl.6        |
| 4          | 挡圈 /Retaining ring. | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 5          | 阀杆填料 /Packing       | Graphite                | Graphite                   | Graphite                   | Graphite                   |
| 6          | 填料压盖 /Gland         | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 7          | 阀盖 /Yoke            | ASTM A276 410           | ASTM A276 410              | ASTM A276 410              | ASTM A276 410              |
| 8          | 压盖螺母 /Gland Nut     | ASTM A194 2H            | ASTM A194 7                | ASTM A194 7                | ASTM A194 8                |
| 9          | 压盖螺栓 /Gland Bolt    | ASTM A193 B7            | ASTM A193 B16              | ASTM A193 B16              | ASTM A193 B8               |
| 10         | 顶法兰 /Top Flange     | ASTM A105               | ASTM A105                  | ASTM A105                  | ASTM A182 F304             |
| 11         | 阀杆螺母 /Stem Nut      | Al-Bronze               | Al-Bronze                  | Al-Bronze                  | Al-Bronze                  |
| 12         | 手轮 /HandWheel       | Cast Iron               | Cast Iron                  | Cast Iron                  | Cast Iron                  |

备注 /Note:

1. 其他材料可根据客户要求提供，请咨询销售部门。  
Other materials can be provided upon customer request, Please consult the sales office.
2. 可提供 ASTM 标准规定的所有铸造和锻造材料。  
All ASTM-standard cast and forged materials available .

结构示意图 / STRUCTURAL DIAGRAM



2. 零件之间采用 缠绕垫片密封。  
Gasket are used for sealing between components.
3. 座圈整体钨钢设计或喷焊碳化钨。  
The seat ring is made of tungsten steel or TCC.
4. 严酷工况下，相比传统 Stl 密封面的阀门，钨钢阀瓣 + 钨钢阀座拥有更强的抗冲刷能力和更久的使用寿命。  
Tungsten carbide discs and seats offer superior erosion resistance and longer service life than traditional Stellite-sealed valves in severe service conditions.
6. 节流套可提供：迷宫片式套筒，流量孔套筒，多级降压套筒。  
Throttle sleeves can be supplied in: labyrinth plate sleeves, orifice sleeves, or multi-stage pressure reduction sleeves.

ASME B16.34 设计；  
适用于高温高压工况；  
明杆支架；  
上密封堆焊 STL.6；  
上升阀杆；  
执行机构根据客户要求配置；

ASME B16.34 design;  
Suitable for high temp/pressure;  
OS&Y rising stem;  
STL.6 hard-faced backseat;  
Rising stem;  
Actuator as specied.

材料表 / BOM

| 序号<br>No.1 | 零部件<br>Parts Name    | 标准<br>Standard Material | 高温环境<br>High Temp. Service | 高温环境<br>High Temp. Service | 耐腐蚀环境<br>Corrosive Service |
|------------|----------------------|-------------------------|----------------------------|----------------------------|----------------------------|
| 1          | 阀体 /Body             | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 2          | 阀座垫片 /Seat Gasket    | Graphite+SS304          | Graphite+SS304             | Graphite+SS304             | Graphite+2205              |
| 3          | 阀座 /Seat             | Inconel 718+TCC/YG20    | Inconel 718+TCC/YG20       | Inconel 718+TCC/YG20       | ASTM A182 F51+Stl.6        |
| 4          | 阀瓣 /Disc             | Inconel 718+TCC/YG8     | Inconel 718+TCC/YG8        | Inconel 718+TCC/YG8        | ASTM A182 F51+Stl.6        |
| 5          | 阀杆 /Stem             | ASTM A182 F6a           | ASTM A182 F6a              | XM-19                      | ASTM A182 F51              |
| 6          | 节流套 /Throttle Sleeve | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 7          | 套筒 /Guide            | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 8          | 阀盖螺母 /Bonnet Nut     | ASTM A194 2H            | ASTM A194 7                | ASTM A194 7                | ASTM A194 8                |
| 9          | 阀盖螺栓 /Bonnet Bolt    | ASTM A193 B7            | ASTM A193 B16              | ASTM A193 B16              | ASTM A193 B8               |
| 10         | 阀盖 /Bonnet           | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 11         | 阀杆填料 /Packing        | Graphite                | Graphite                   | Graphite                   | Graphite                   |
| 12         | 填料压套 /Gland          | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 13         | 填料压板 /Plate          | ASTM A105               | ASTM A105                  | ASTM A105                  | ASTM A182 F304             |
| 14         | 压盖螺母 /Gland Nut      | ASTM A194 2H            | ASTM A194 7                | ASTM A194 7                | ASTM A194 8                |
| 15         | 压盖螺栓 /Gland Bolt     | ASTM A193 B7            | ASTM A193 B16              | ASTM A193 B16              | ASTM A193 B8               |
| 16         | 阀盖垫片 /Bonnet Gasket  | Graphite+SS304          | Graphite+SS304             | Graphite+SS304             | Graphite+2205              |

备注 /Note:

1. 其他材料可根据客户要求提供, 请咨询销售部门。  
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All ASTM-standard cast and forged materials available .

止回阀  
CHECK VALVE

产品范围  
Specifications

|                                    |
|------------------------------------|
| 阀门尺寸 (铸件) / Casting Size:1" ~60"   |
| 阀门尺寸 (锻件) / Forging Size:1" ~30"   |
| 温度范围 /Temperature Range:-46~650° C |
| 压力等级 /Pressure Rating:150~2500LB   |

设计特色  
Design Features

- 中部自密封 / 螺栓连接  
Self-Sealing Center or Bolted
- 无外漏摇杆设计  
Leak-Free Rocker Arm design
- 阀瓣定位设计  
Guided disc design
- 可选: 配重 / 液压阻尼器  
Optional Counterweight/  
Hydraulic Damper

设计和检验标准  
Design and Inspection Standards

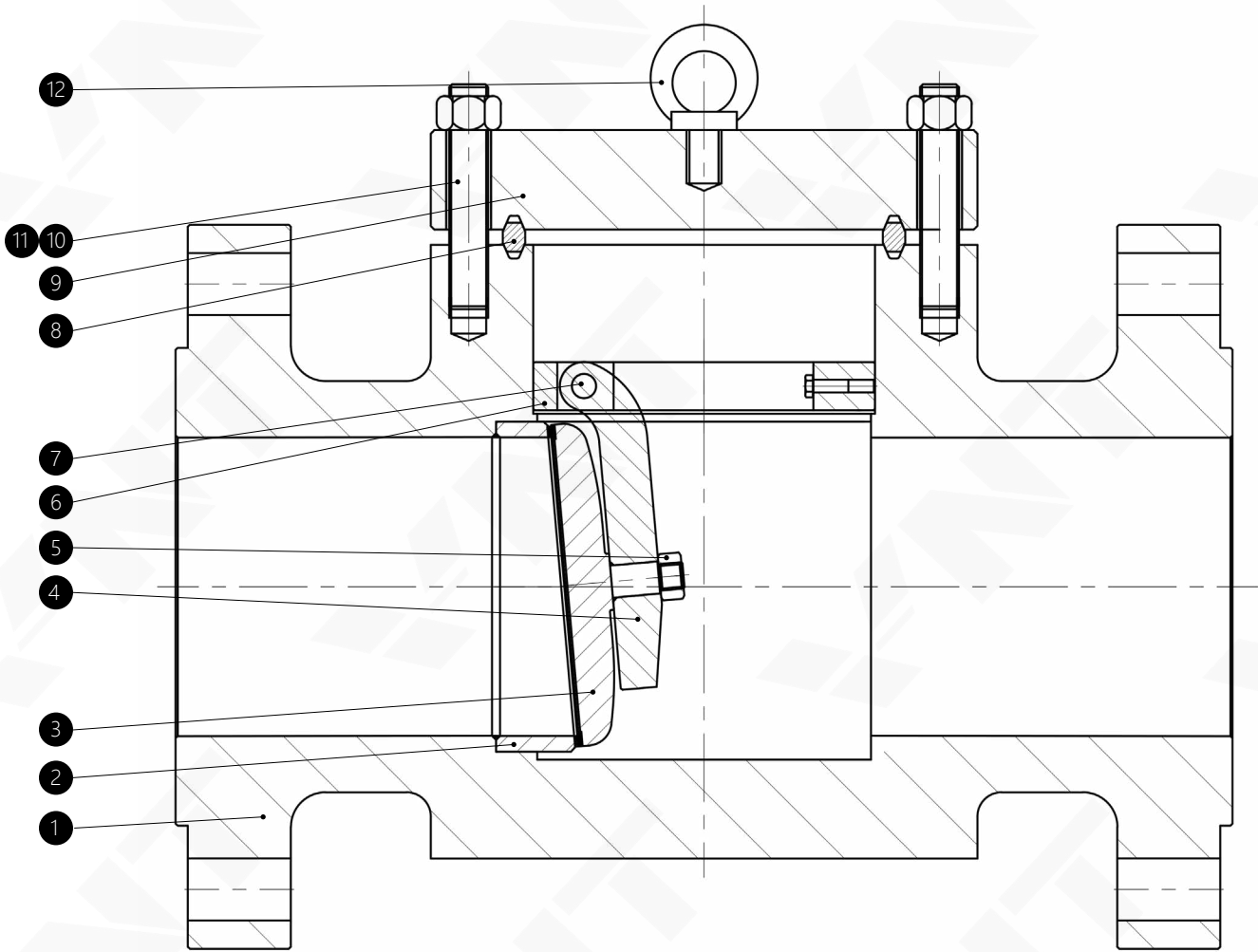
- 设计标准 /Deisgn std: ASME B16.34/API 6D
- 壳体壁厚 /shell: ASTM B16.34
- 结构长度 Face to Face: ASTM B16.10
- 压力试验 /Pressure Test: API 598
- 耐火试验 /Fire Resistance Test: API 607

连接端标准  
End Connection Standards

- 法兰端 /Flange: ASTM B16.5
- 对焊端 /BW: ASTM B16.25
- 承插焊 /SW: ASTM B16.11



结构示意 / STRUCTURAL DIAGRAM



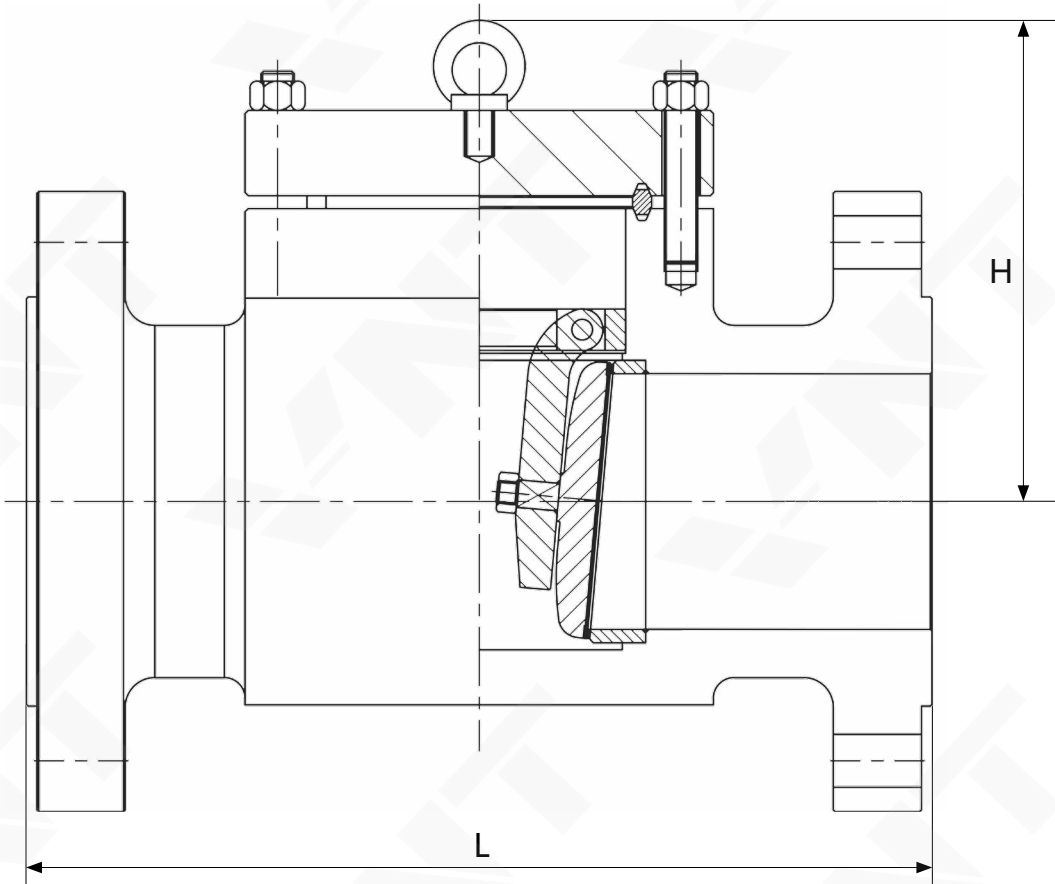
- 2 标准座圈设计为密封面堆焊 6 号钴基并采用密封焊安装，也可按照客户要求采用螺纹座圈。  
Features a sealing surface welded with Stl.6 and is installed via seal welding. Alternatively, threaded seat rings are available per customer request.
- 3 标准的旋启式阀瓣仅能安装水平管线上控制介质或介质从下向上流动的垂直管线。  
The standard swing-type disc is suitable only for horizontal pipelines or vertical pipelines where the medium flows upward.
- 7 安装在阀体内部的摇杆和销轴能够使阀瓣充分移动。  
The rocker arm and pin shaft installed inside the valve body ensure full movement of the disc.
- 8 金属缠绕垫片用于 150 磅、300 磅和 600 磅止回阀，金属环垫片用于 900 磅及以上止回阀或按客户要求用于 600 磅的止回阀。  
Spiral-wound gaskets are used for 150 lb, 300 lb, and 600 lb check valves. Metal ring gaskets are used for 900 lb and higher check valves, or for 600 lb valves upon customer request.

材料表 / BOM

| 序号<br>No.1 | 零部件<br>Parts Name  | 标准<br>Standard Material | 高温环境<br>High Temp. Service | 高温环境<br>High Temp. Service | 耐腐蚀环境<br>Corrosive Service |
|------------|--------------------|-------------------------|----------------------------|----------------------------|----------------------------|
| 1          | 阀体 /Body           | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 2          | 阀座 /Seat           | ASTM A105+Stl.6         | ASTM A182 F11/F22+Stl.6    | ASTM A182 F91+Stl.6        | ASTM A182 F51+Stl.6        |
| 3          | 阀瓣 /Disc           | ASTM A105+Stl.6         | ASTM A182 F11/F22+Stl.6    | ASTM A182 F91+Stl.6        | ASTM A182 F51+Stl.6        |
| 4          | 摇臂 /Arm            | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 5          | 阀瓣螺母 /Disc Nut     | ASTM A193 B7            | ASTM A193 B16              | ASTM A193 B16              | ASTM A182 F51              |
| 6          | 固定环 /Trunnion Ring | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 7          | 销轴 /Pin            | ASTM A182 F6a           | ASTM A182 F6a              | XM-19                      | ASTM A182 F51              |
| 8          | 八角环 /Gasket        | Iron                    | SS304                      | SS304                      | SS316                      |
| 9          | 阀盖 /Bonnet         | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 10         | 阀盖螺母 /Bonnet Nut   | ASTM A194 2H            | ASTM A194 7                | ASTM A194 7                | ASTM A194 8                |
| 11         | 阀盖螺栓 /Bonnet Bolt  | ASTM A193 B7            | ASTM A193 B16              | ASTM A193 B16              | ASTM A193 B8               |
| 12         | 吊耳 /Eyebolt        | SS304                   | SS304                      | SS304                      | SS304                      |

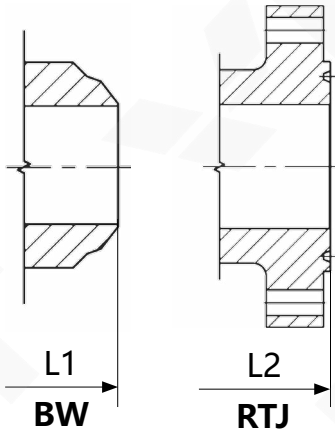
备注 /Note:

- 1. 其他材料可根据客户要求提供，请咨询销售部门。  
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- 2. 可提供 ASTM 标准规定的所有铸造和锻造材料。  
All ASTM-standard cast and forged materials available .



ASME B16.34 设计;  
端部结构长度设计符合 ASME B16.10;  
法兰连接符合 ASME B16.5;  
旋启式阀瓣;  
螺栓连接阀盖;

Designed in accordance with ASME B16.34;  
Face-to-facdimensions conform to ASME B16.10;  
Flange connections comply with ASME B16.5;  
Swing Check disc;  
Bolted bonnet design;



600LB

| NPS             | in | 2"    | 2-1/2" | 3"    | 4"    | 5"    | 6"    | 8"    | 10"   | 12"   | 14"   | 16"   | 18"   | 20"   | 24"   | 26"  | 28"  | 30"  | 32"  | 36"  | 40"  | 42"  | 48"  |
|-----------------|----|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| DN              | mm | 50    | 65     | 80    | 100   | 125   | 150   | 200   | 250   | 300   | 350   | 400   | 450   | 500   | 600   | 650  | 700  | 750  | 800  | 900  | 1000 | 1050 | 1200 |
| L-L1<br>(RF-BW) | in | 11.5  | 13     | 14    | 17    | 20    | 22    | 26    | 31    | 33    | 35    | 39    | 43    | 47    | 55    | 57   | 63   | 65   | 70   | 82   | 90   | 96   | 100  |
|                 | mm | 292   | 330    | 356   | 432   | 508   | 559   | 660   | 787   | 838   | 889   | 991   | 1092  | 1194  | 1397  | 1448 | 1600 | 1651 | 1778 | 2083 | 2286 | 2438 | 2540 |
| L2(RTJ)         | in | 11.60 | 13.12  | 14.12 | 17.12 | 20.12 | 22.12 | 26.12 | 31.12 | 33.12 | 35.12 | 39.12 | 43.12 | 47.25 | 55.38 | 57.5 | 63.5 | 65.5 | 70.6 | 82.6 | -    | -    | -    |
|                 | mm | 295   | 333    | 359   | 435   | 511   | 562   | 663   | 790   | 841   | 892   | 994   | 1095  | 1200  | 1407  | 1461 | 1613 | 1664 | 1794 | 2099 | -    | -    | -    |
| H               | in | 7.2   | 8.3    | 9.1   | 10.4  | 11.6  | 14.7  | 16.8  | 20.4  | 22.4  | 24.5  | 26.8  | 29.6  | 38.4  | 43.7  | 43.7 | 46.9 | 52.1 | 53.8 | 60.7 | 60.7 | 70.9 | 85.5 |
|                 | mm | 184   | 210    | 232   | 263   | 295   | 374   | 426   | 517   | 569   | 622   | 680   | 752   | 975   | 1111  | 1110 | 1192 | 1324 | 1367 | 1542 | 1702 | 1800 | 2171 |

关于 48"以上阀门的资料请联系销售部  
Please contact us for information above 48" valves.

900LB

| NPS             | in | 2"    | 2-1/2" | 3"    | 4"    | 5"    | 8"    | 10"   | 12"   | 14"   | 16"   | 18"   | 20"  | 24"  | 26"  | 28"  | 30"  | 32"  | 36"  |  |  |  |  |
|-----------------|----|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|--|--|--|--|
| DN              | mm | 50    | 65     | 80    | 100   | 125   | 200   | 250   | 300   | 350   | 400   | 450   | 500  | 600  | 650  | 700  | 750  | 850  | 900  |  |  |  |  |
| L-L1<br>(RF-BW) | in | 14.5  | 16.5   | 15    | 18    | 24    | 29    | 33    | 38    | 40.5  | 44.5  | 48    | 52   | 61   | 65   | 69   | 73   | 77   | 84.9 |  |  |  |  |
|                 | mm | 368   | 419    | 381   | 457   | 610   | 737   | 838   | 965   | 1029  | 1130  | 1219  | 1321 | 1549 | 1651 | 1753 | 1854 | 1956 | 2156 |  |  |  |  |
| L2(RTJ)         | in | 14.62 | 16.62  | 15.12 | 18.12 | 24.12 | 29.12 | 33.12 | 38.12 | 40.88 | 44.88 | 48.50 | 52.5 | 61.7 | 65.9 | 69.9 | 73.9 | -    | -    |  |  |  |  |
|                 | mm | 371   | 422    | 384   | 460   | 613   | 740   | 841   | 968   | 1038  | 1140  | 1232  | 1333 | 1568 | 1673 | 1775 | 1876 | -    | -    |  |  |  |  |
| H               | in | 11.7  | 11.8   | 11.8  | 12.9  | 17.4  | 19.8  | 26.1  | 30.5  | 30.8  | 33    | 33    | 36.7 | 36.4 | 44.1 | 54   | 59.9 | 65.8 | 71.7 |  |  |  |  |
|                 | mm | 296   | 300    | 300   | 327   | 441   | 502   | 664   | 775   | 782   | 838   | 839   | 932  | 924  | 1121 | 1372 | 1521 | 1671 | 1821 |  |  |  |  |

关于 36"以上阀门的资料请联系销售部  
Please contact us for information above 36" valves.

1500LB

| NPS             | in | 2"    | 2-1/2" | 3"    | 4"    | 6"    | 8"    | 10"   | 12"   | 14"   | 16"   | 18"  | 20"  | 24"  | 26"  | 28"    | 30"  |  |  |  |  |  |  |
|-----------------|----|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|--------|------|--|--|--|--|--|--|
| DN              | mm | 50    | 65     | 80    | 100   | 150   | 200   | 250   | 300   | 350   | 400   | 450  | 500  | 600  | 650  | 700    | 750  |  |  |  |  |  |  |
| L-L1<br>(RF-BW) | in | 14.5  | 16.5   | 18.5  | 21.5  | 27.75 | 32.75 | 39    | 44.5  | 49.5  | 54.5  | 60.5 | 65.5 | 76.5 | 82   | 87.5   | 93   |  |  |  |  |  |  |
|                 | mm | 368   | 419    | 470   | 546   | 705   | 832   | 991   | 1130  | 1257  | 1384  | 1537 | 1664 | 1943 | 2083 | 2222.5 | 2362 |  |  |  |  |  |  |
| L2(RTJ)         | in | 14.62 | 16.62  | 18.62 | 21.62 | 28.00 | 33.13 | 39.38 | 45.12 | 50.25 | 55.38 | 61.4 | 66.4 | 77.6 | -    | -      | -    |  |  |  |  |  |  |
|                 | mm | 371   | 422    | 473   | 549   | 711   | 842   | 1000  | 1146  | 1276  | 1407  | 1559 | 1686 | 1972 | -    | -      | -    |  |  |  |  |  |  |
| H               | in | 11.7  | 11.8   | 13.4  | 16.2  | 20.1  | 26.8  | 29.8  | 33.7  | 37.4  | 40.1  | 45.2 | 50.6 | 60.6 | 70.6 | 80.7   | 90.7 |  |  |  |  |  |  |
|                 | mm | 296   | 300    | 341   | 412   | 511   | 680   | 756   | 857   | 950   | 1020  | 1147 | 1284 | 1539 | 1794 | 2049   | 2304 |  |  |  |  |  |  |

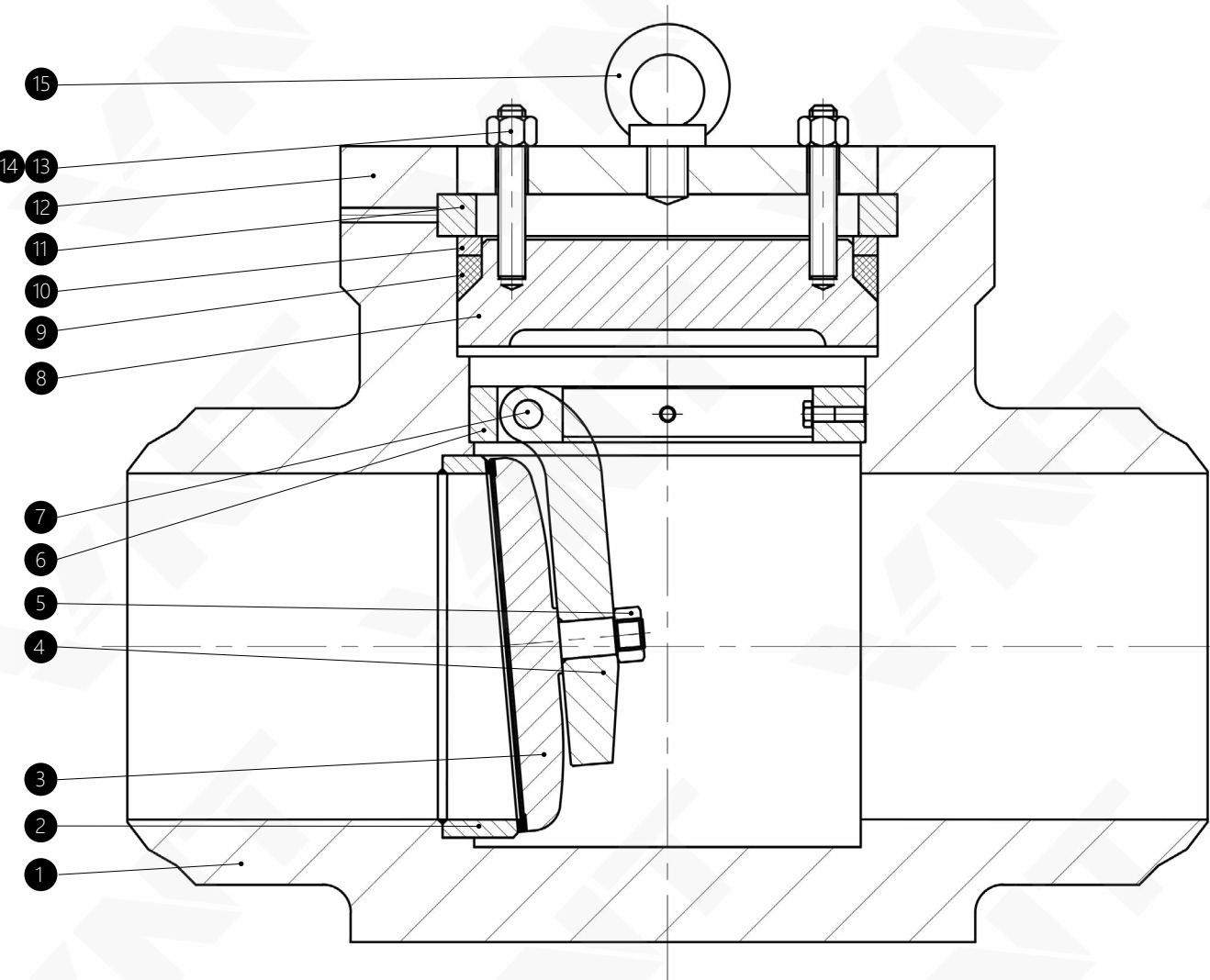
关于 30"以上阀门的资料请联系销售部  
Please contact us for information above 30" valves.

2500LB

| NPS             | in | 2"    | 2-1/2" | 3"    | 4"    | 6"    | 8"    | 10"   | 12"   | 14"  | 16"  | 18"  | 20"  | 24"  |  |  |  |  |  |  |  |  |  |
|-----------------|----|-------|--------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|
| DN              | mm | 50    | 65     | 80    | 100   | 150   | 200   | 250   | 300   | 350  | 400  | 450  | 500  | 600  |  |  |  |  |  |  |  |  |  |
| L-L1<br>(RF-BW) | in | 17.75 | 20     | 22.75 | 26.5  | 36    | 40.25 | 50    | 56    | 62   | 68   | 73.9 | 79.9 | 91.9 |  |  |  |  |  |  |  |  |  |
|                 | mm | 451   | 508    | 578   | 673   | 914   | 1022  | 1270  | 1422  | 1575 | 1727 | 1877 | 2029 | 2334 |  |  |  |  |  |  |  |  |  |
| L2(RTJ)         | in | 17.87 | 20.25  | 23.00 | 26.88 | 36.50 | 40.87 | 50.88 | 56.88 | -    | -    | -    | -    | -    |  |  |  |  |  |  |  |  |  |
|                 | mm | 454   | 514    | 584   | 683   | 927   | 1038  | 1292  | 1445  | -    | -    | -    | -    | -    |  |  |  |  |  |  |  |  |  |
| H               | in | 16.4  | 16.5   | 17.4  | 18.9  | 20.1  | 28    | 33.5  | 39.4  | 47.2 | 51.2 | 55.1 | 59.1 | 63.0 |  |  |  |  |  |  |  |  |  |
|                 | mm | 416   | 419    | 441   | 479   | 511   | 711   | 851   | 1000  | 1200 | 1300 | 1400 | 1500 | 1600 |  |  |  |  |  |  |  |  |  |

关于 24"以上阀门的资料请联系销售部  
Please contact us for information above 24" valves.

结构示意图 / STRUCTURAL DIAGRAM

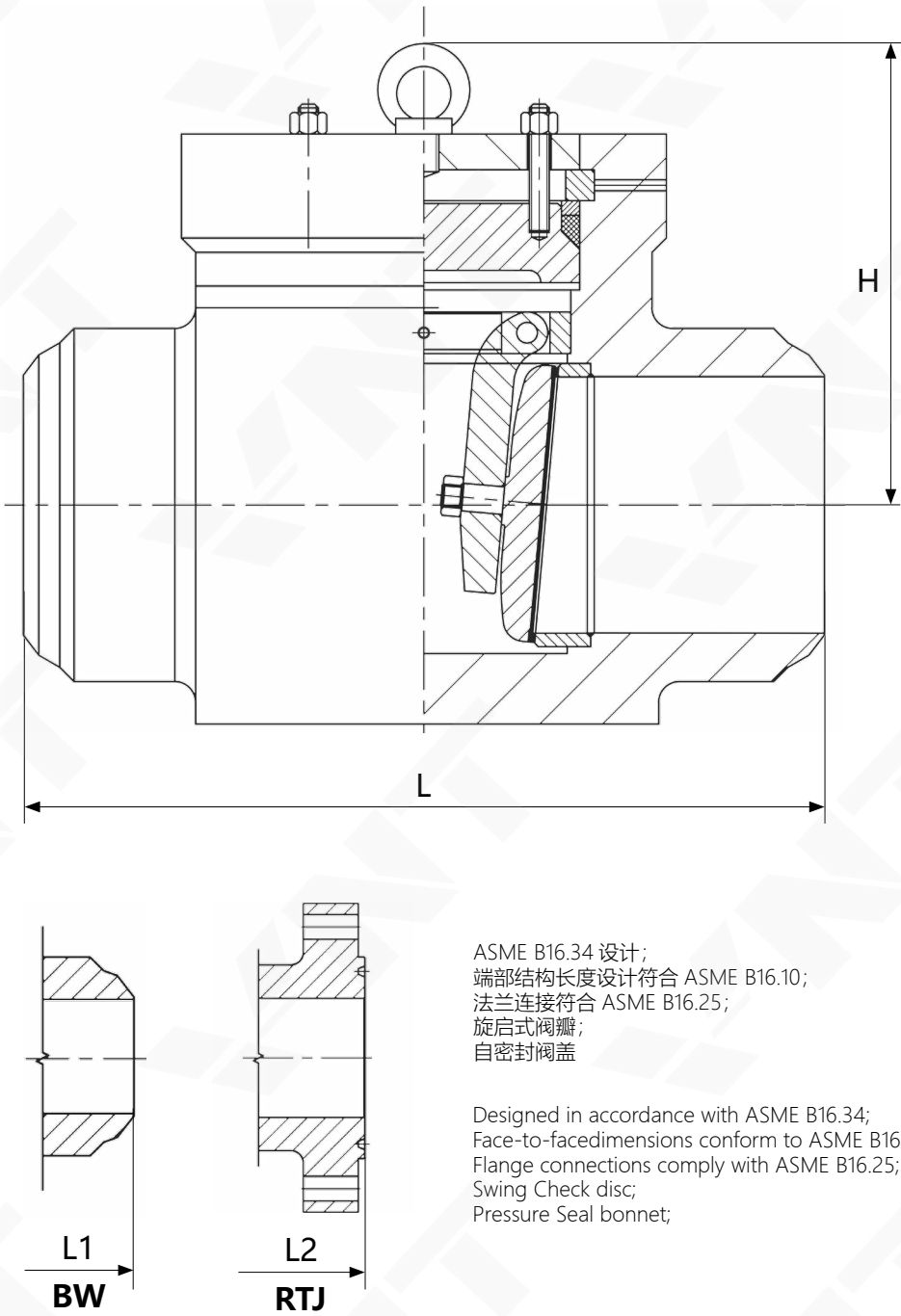


- ② 标准座圈设计为密封面堆焊 6 号钴基并采用密封焊安装，也可按照客户要求采用螺纹座圈。  
Features a sealing surface welded with Stl.6 and is installed via seal welding. Alternatively, threaded seat rings are available per customer request.
- ③ 标准的旋启式阀瓣仅能安装水平管线上控制介质或介质从下向上流动的垂直管线。  
The standard swing-type disc is suitable only for horizontal pipelines or vertical pipelines where the medium flows upward.
- ④ 安装在阀体内部的摇杆和销轴能够使阀瓣充分移动。  
The rocker arm and pin shaft installed inside the valve body ensure full movement of the disc.
- ⑥ 无外泄露的摇杆销轴设计。  
Weld-sealed lever pin design prevents external leakage.
- ⑨ 自紧圈提供承压表面并防止垫片变形。  
Self-energizing ring provides pressure-bearing surface and prevents gasket deformation.
- ⑪ 四开环结构吸收由于内压产生的沿阀杆方向的朝外推力。  
1/4 Rings absorb outward thrust along the stem direction caused by internal pressure.

材料表 / BOM

| 序号<br>No.1 | 零部件<br>Parts Name     | 标准<br>Standard Material | 高温环境<br>High Temp. Service | 高温环境<br>High Temp. Service | 耐腐蚀环境<br>Corrosive Service |
|------------|-----------------------|-------------------------|----------------------------|----------------------------|----------------------------|
| 1          | 阀体 /Body              | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 2          | 阀座 /Seat              | ASTM A105+Stl.6         | ASTM A182 F11/F22+Stl.6    | ASTM A182 F91+Stl.6        | ASTM A182 F51+Stl.6        |
| 3          | 阀瓣 /Disc              | ASTM A105+Stl.6         | ASTM A182 F11/F22+Stl.6    | ASTM A182 F91+Stl.6        | ASTM A182 F51+Stl.6        |
| 4          | 摇臂 /Arm               | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 5          | 阀瓣螺母 /Disc Nut        | ASTM A193 B7            | ASTM A193 B16              | ASTM A193 B16              | ASTM A194 8                |
| 6          | 销轴 /Pin               | ASTM A182 F6a           | ASTM A182 F6a              | XM-19                      | ASTM A182 F51              |
| 7          | 固定环 /Trunnion Ring    | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 8          | 活动阀盖 /Activity Bonnet | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 9          | 自紧圈 /Pressure Seat    | Graphite+SS304          | Graphite+SS304             | Graphite+SS304             | Graphite+SS316             |
| 10         | 垫圈 /Washer            | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 11         | 四开环 /1/4 Rings        | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 12         | 阀盖 /Bonnet            | ASTM A105               | ASTM A105                  | ASTM A105                  | ASTM A182 F51              |
| 13         | 阀盖螺母 /Bonnet Nut      | ASTM A194 2H            | ASTM A194 7                | ASTM A194 7                | ASTM A194 8                |
| 14         | 阀盖螺栓 /Bonnet Bolt     | ASTM A193 B7            | ASTM A193 B16              | ASTM A193 B16              | ASTM A193 B8               |
| 15         | 吊耳 /Eyebolt           | SS304                   | SS304                      | SS304                      | SS304                      |

- 备注 /Note:
1. 其他材料可根据客户要求提供，请咨询销售部门。  
Other materials can be provided upon customer request, Please consult the sales office.
2. 可提供 ASTM 标准规定的所有铸造和锻造材料。  
All ASTM-standard cast and forged materials available .



600LB

| NPS             | in | 2"    | 2-1/2" | 3"    | 4"    | 5"    | 6"    | 8"    | 10"   | 12"   | 14"   | 16"   | 18"   | 20"   | 24"   | 26"   | 28"   | 30"   |
|-----------------|----|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| DN              | mm | 50    | 65     | 80    | 100   | 125   | 150   | 200   | 250   | 300   | 350   | 400   | 450   | 500   | 600   | 650   | 700   | 750   |
| L-L1<br>(RF-BW) | in | 11.5  | 13     | 14    | 17    | 20    | 22    | 26    | 31    | 33    | 35    | 39    | 43    | 47    | 55    | 57    | 63    | 65    |
|                 | mm | 292   | 330    | 356   | 432   | 508   | 559   | 660   | 787   | 838   | 889   | 991   | 1092  | 1194  | 1397  | 1448  | 1600  | 1651  |
| L2(RTJ)         | in | 11.62 | 13.12  | 14.12 | 17.12 | 20.12 | 22.12 | 26.12 | 31.12 | 33.12 | 35.12 | 39.12 | 43.13 | 47.25 | 55.38 | 57.5  | 63.5  | 65.5  |
|                 | mm | 295   | 333    | 359   | 435   | 511   | 562   | 663   | 790   | 841   | 892   | 994   | 1095  | 1200  | 1407  | 1461  | 1613  | 1664  |
| H               | in | 9.5   | 10.4   | 10.6  | 12.5  | 15.7  | 15.7  | 23.1  | 23.9  | 27.4  | 29.5  | 28.7  | 28.8  | 32.3  | 37.4  | 39.38 | 43.25 | 47.25 |
|                 | mm | 241   | 264    | 270   | 318   | 400   | 400   | 587   | 606   | 695   | 749   | 730   | 730   | 819   | 949   | 1000  | 1099  | 1200  |

关于 30"以上阀门的资料请联系销售部  
Please contact us for information above 30" valves.

900LB

| NPS     | in | 2"   | 2-1/2" | 3"   | 4"   | 6"   | 8"   | 10"  | 12"  | 14"  | 16"  | 18"  | 20"  | 24"   |
|---------|----|------|--------|------|------|------|------|------|------|------|------|------|------|-------|
| DN      | mm | 50   | 65     | 80   | 100  | 150  | 200  | 250  | 300  | 350  | 400  | 450  | 500  | 600   |
| L(BW)   | in | 8.5  | 10     | 12   | 14   | 20   | 26   | 31   | 36   | 39   | 43   | 43   | 43   | 52    |
|         | mm | 216  | 254    | 305  | 356  | 508  | 660  | 787  | 914  | 991  | 1092 | 1092 | 1092 | 1321  |
| L1(RF)  | in | 14.5 | 16.5   | 15   | 18   | 24   | 29   | 33   | 38   | 40.5 | 44.5 | 48   | 52   | 61    |
|         | mm | 368  | 419    | 381  | 457  | 610  | 737  | 838  | 965  | 1029 | 1130 | 1219 | 1321 | 1549  |
| L2(RTJ) | in | 14.6 | 16.6   | 15.1 | 18.1 | 24.1 | 29.1 | 33.1 | 38.1 | 40.9 | 44.9 | 48.5 | 52.5 | 61.75 |
|         | mm | 371  | 422    | 384  | 460  | 613  | 740  | 841  | 968  | 1038 | 1140 | 1232 | 1333 | 1568  |
| H       | in | 9.5  | 10.4   | 10.6 | 12.5 | 15.7 | 23.1 | 23.9 | 27.4 | 29.5 | 28.7 | 33.5 | 34   | 37.8  |
|         | mm | 241  | 264    | 270  | 318  | 400  | 587  | 606  | 695  | 749  | 730  | 851  | 864  | 959   |

关于 24"以上阀门的资料请联系销售部  
Please contact us for information above 24" valves.

1500LB

| NPS     | in | 2"   | 2-1/2" | 3"   | 4"   | 6"   | 8"   | 10"  | 12"  | 14"   | 16"  | 18"  | 20"  | 24"  |
|---------|----|------|--------|------|------|------|------|------|------|-------|------|------|------|------|
| DN      | mm | 50   | 65     | 80   | 100  | 150  | 200  | 250  | 300  | 350   | 400  | 450  | 500  | 600  |
| L(BW)   | in | 11   | 13     | 14.5 | 18   | 24   | 30   | 36   | 41   | 41    | 41   | 49   | 50   | 60   |
|         | mm | 279  | 330    | 368  | 457  | 610  | 762  | 914  | 1041 | 1041  | 1041 | 1245 | 1270 | 1525 |
| L1(RF)  | in | 17.8 | 20     | 22.8 | 26.5 | 36   | 40.3 | 50   | 56   | -     | -    | -    | -    | -    |
|         | mm | 451  | 508    | 578  | 673  | 914  | 1022 | 1270 | 1422 | -     | -    | -    | -    | -    |
| L2(RTJ) | in | 17.9 | 20.3   | 23   | 26.9 | 36.5 | 40.9 | 50.9 | 56.9 | 60.88 | -    | -    | -    | -    |
|         | mm | 454  | 514    | 584  | 683  | 927  | 1038 | 1292 | 1445 | 1546  | -    | -    | -    | -    |
| H       | in | 24.4 | 25.2   | 32.9 | 33.7 | 48.4 | 70.9 | 78.8 | 91   | 106   | -    | -    | -    | -    |
|         | mm | 619  | 641    | 835  | 857  | 1230 | 1800 | 2000 | 2311 | 2692  | -    | -    | -    | -    |

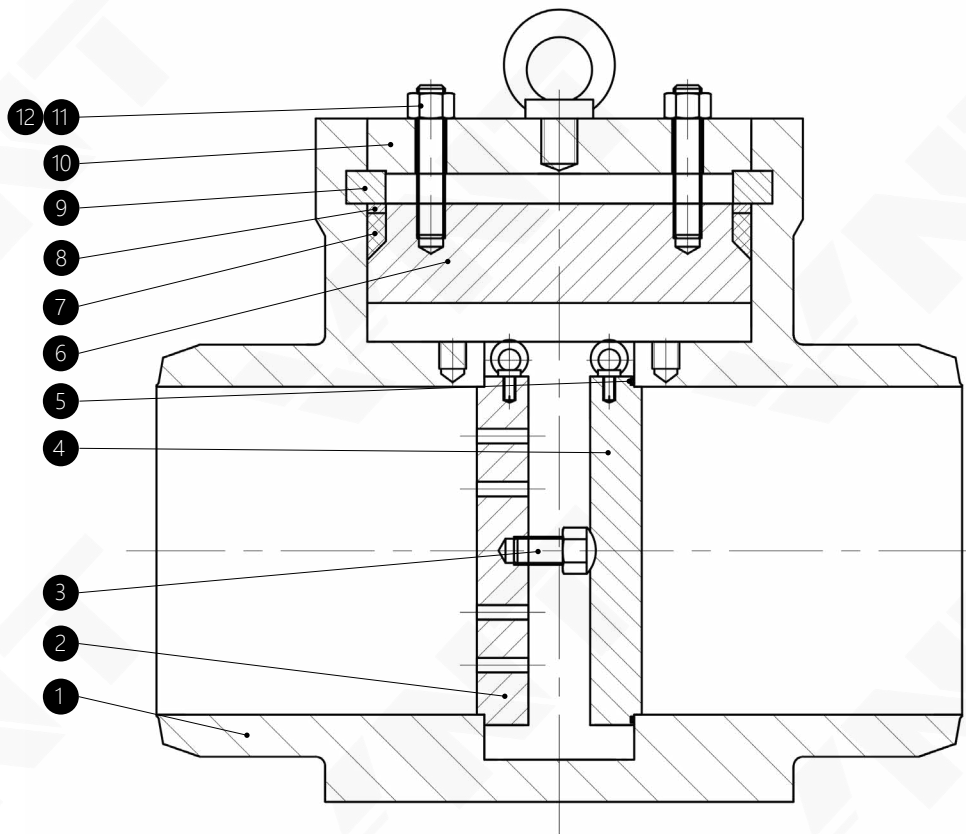
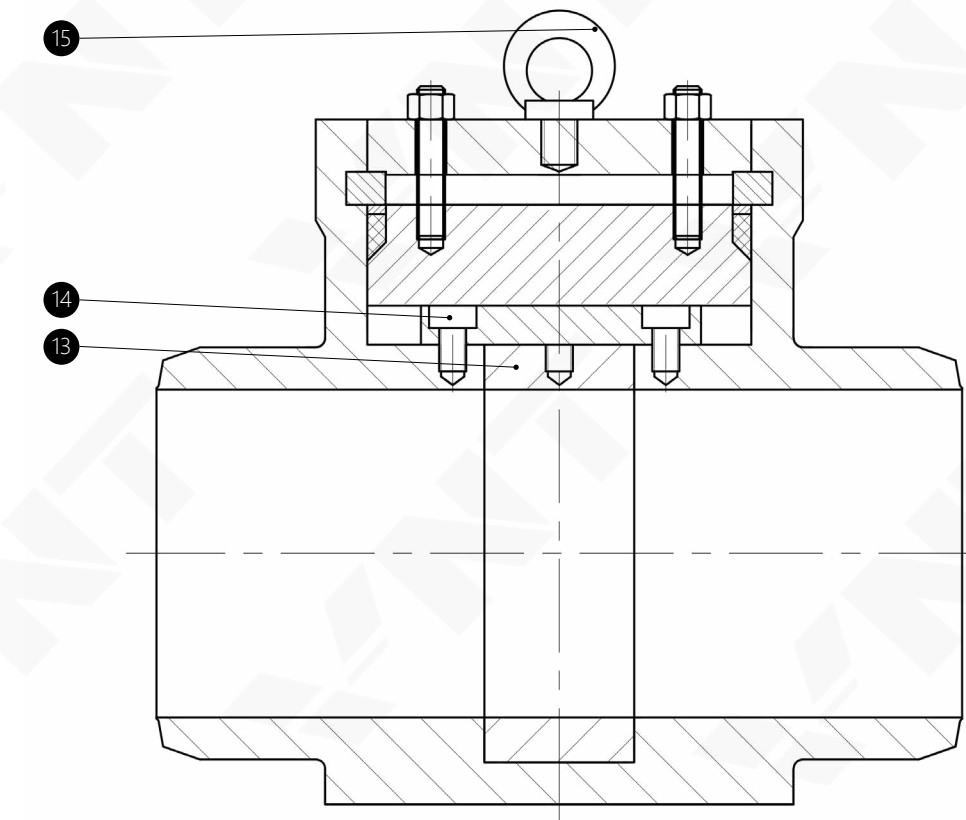
关于 24"以上阀门的资料请联系销售部  
Please contact us for information above 24" valves.

2500LB

| NPS     | in | 2"   | 2-1/2" | 3"   | 4"   | 6"   | 8"   | 10"  | 12"  | 14"  | 16"  | 18"   | 20"   | 24"   |
|---------|----|------|--------|------|------|------|------|------|------|------|------|-------|-------|-------|
| DN      | mm | 50   | 65     | 80   | 100  | 150  | 200  | 250  | 300  | 350  | 400  | 450   | 500   | 600   |
| L(BW)   | in | 8.5  | 10     | 12   | 16   | 22   | 28   | 34   | 39   | 42   | 47   | 47    | 47    | 76.5  |
|         | mm | 216  | 254    | 305  | 406  | 559  | 711  | 864  | 991  | 1067 | 1194 | 1194  | 1194  | 1943  |
| L1(RF)  | in | 14.5 | 16.5   | 18.5 | 21.5 | 27.8 | 32.8 | 39   | 44.5 | 49.5 | 54.4 | 60.5  | 65.5  | 76.5  |
|         | mm | 368  | 419    | 470  | 546  | 705  | 732  | 991  | 1130 | 1257 | 1384 | 1537  | 1664  | 1943  |
| L2(RTJ) | in | 14.6 | 16.6   | 18.6 | 21.6 | 28   | 33.1 | 39.4 | 45.1 | 50.3 | 55.4 | 61.38 | 66.38 | 77.63 |
|         | mm | 371  | 422    | 473  | 549  | 711  | 842  | 1000 | 1146 | 1276 | 1407 | 1559  | 1686  | 1972  |
| H       | in | 9.5  | 10.4   | 10.8 | 12.5 | 16.6 | 18.9 | 23.3 | 25.4 | 28   | 29.5 | 34.63 | 37.38 | 43.25 |
|         | mm | 241  | 264    | 274  | 318  | 422  | 479  | 591  | 645  | 711  | 749  | 880   | 949   | 1099  |

关于 24"以上阀门的资料请联系销售部  
Please contact us for information above 24" valves.

结构示意 / STRUCTURAL DIAGRAM



阀瓣拆除后安装导流管  
Install the flow pipe  
after disc removal

材料表 / BOM

| 序号<br>No.1 | 零部件<br>Parts Name     | 标准<br>Standard Material | 高温环境<br>High Temp. Service | 高温环境<br>High Temp. Service | 耐腐蚀环境<br>Corrosive Service |
|------------|-----------------------|-------------------------|----------------------------|----------------------------|----------------------------|
| 1          | 阀体 /Body              | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 2          | 支撑板 /Support Plate    | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51+Stl.6        |
| 3          | 调节螺钉 /Adjust Screw    | ASTM A193 B7            | ASTM A193 B16              | ASTM A193 B16              | ASTM A182 F51+Stl.6        |
| 4          | 阀瓣 / Disc             | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 5          | O 型圈 /O-Rings         | Viton                   | Viton                      | Viton                      | ASTM A182 F51              |
| 6          | 活动阀盖 /Activity Bonnet | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 7          | 自紧圈 /Pressure Seat    | Graphite+SS304          | Graphite+SS304             | Graphite+SS304             | ASTM A182 F51              |
| 8          | 垫圈 /Washer            | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 9          | 四开环 /1/4 Rings        | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | Graphite+SS316             |
| 10         | 阀盖 /Bonnet            | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A182 F51              |
| 11         | 阀盖螺母 /Bonnet Nut      | ASTM A194 2H            | ASTM A194 7                | ASTM A194 7                | ASTM A182 F51              |
| 12         | 阀盖螺栓 /Bonnet Bolt     | ASTM A193 B7            | ASTM A193 B16              | ASTM A193 B16              | ASTM A182 F51              |
| 13         | 导流套 /Flow Pipe        | ASTM A105               | ASTM A182 F11/F22          | ASTM A182 F91              | ASTM A194 8                |
| 14         | 螺栓 /Bolt              | ASTM A193 B7            | ASTM A193 B16              | ASTM A193 B16              | ASTM A193 B8               |
| 15         | 吊耳 /Eyebolt           | SS304                   | SS304                      | SS304                      | SS304                      |

备注 /Note:

- 1.其他材料可根据客户要求提供, 请咨询销售部门。  
Other materials can be provided upon customer request, Please consult the sales office.
- 2.可提供 ASTM 标准规定的所有铸造和锻造材料。  
All ASTM-standard cast and forged materials available .

- ① 阀体一体锻造加工成型, 无常规铸件缺陷, 拥有强度高, 寿命久, 安全性高等优点。  
Valve body integrally forged, free of casting defects, offers high strength, extended service life, and superior safety.
- ② 大口径高压堵阀, 介质的力冲击在支撑板上, 支撑板通过螺栓顶住阀瓣进行密封, 同时支撑板上设计导流孔, 部分介质通过导流孔直接作用阀瓣上与支撑板上的力共同起到密封的作用。  
Large-diameter high-pressure stop valve: The medium impacts the support plate, which uses bolts to press the valve disc into a seal. The support plate also has flow holes that allow some medium to act directly on the disc, aiding in sealing.
- ⑥ 自密封设计, 压力越高, 自紧圈受力越大, 密封越牢靠。  
Self-energizing Design: The sealing force increases proportionally with the operating pressure, assuring reliable sealing under high-pressure conditions.

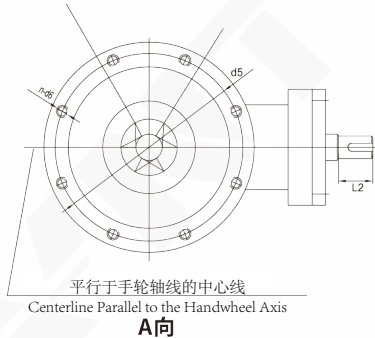
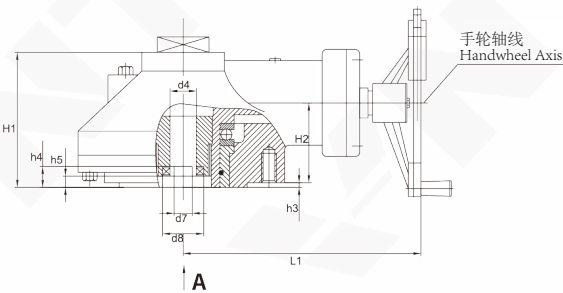
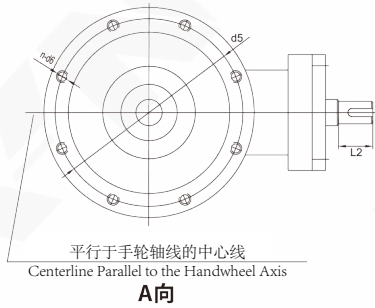
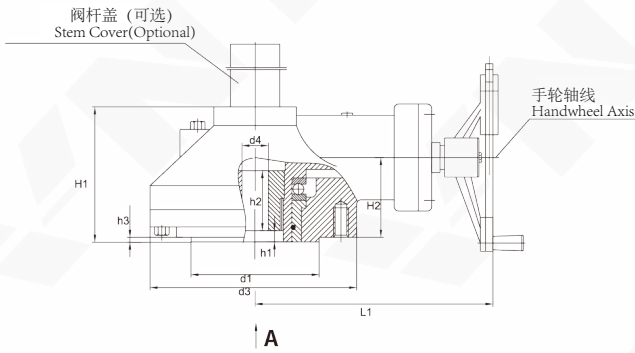
| CLASS      | 口径 /IN          | 2"     |       |        |       |         | 2-1/2" |       |        |       |         | 3"     |       |        |       |         | 4"     |       |        |       |         | 5"     |       |        |       |         | 6"     |       |        |       |         |
|------------|-----------------|--------|-------|--------|-------|---------|--------|-------|--------|-------|---------|--------|-------|--------|-------|---------|--------|-------|--------|-------|---------|--------|-------|--------|-------|---------|--------|-------|--------|-------|---------|
| Class 150  | 压力 /Pressure    | 0.6MPa | 1MPa  | 1.5MPa | 2MPa  | -       | 0.6MPa | 1MPa  | 1.5MPa | 2MPa  | -       | 0.6MPa | 1MPa  | 1.5MPa | 2MPa  | -       | 0.6MPa | 1MPa  | 1.5MPa | 2MPa  | -       | 0.6MPa | 1MPa  | 1.5MPa | 2MPa  | -       | 0.6MPa | 1MPa  | 1.5MPa | 2MPa  | -       |
|            | 圈数 /Turns       | 14     |       |        |       |         | 18     |       |        |       |         | 20     |       |        |       |         | 22     |       |        |       |         | 22     |       |        |       |         | 33     |       |        |       |         |
|            | 推力 /Thrust (KN) | 7.3    | 7.8   | 8.4    | 9.0   | -       | 8.1    | 8.7   | 9.3    | 10.0  | -       | 9.6    | 10.3  | 11.2   | 12.0  | -       | 12.1   | 13.0  | 14.2   | 15.3  | -       | 13.5   | 14.5  | 15.6   | 16.7  | -       | 18.3   | 19.7  | 21.4   | 23.2  | -       |
|            | 扭矩/Torque(N*M)  | 14.1   | 15.0  | 16.1   | 17.3  | -       | 15.6   | 16.6  | 17.9   | 19.3  | -       | 20.8   | 22.3  | 24.1   | 26.0  | -       | 30.3   | 32.5  | 35.4   | 38.3  | -       | 37.0   | 39.5  | 42.6   | 45.7  | -       | 49.8   | 53.0  | 58.7   | 63.5  | -       |
| Class 300  | 压力 /Pressure    | 1MPa   | 2MPa  | 3MPa   | 4MPa  | 5.1MPa  | 1MPa   | 2MPa  | 3MPa   | 4MPa  | 5.1MPa  | 1MPa   | 2MPa  | 3MPa   | 4MPa  | 5.1MPa  | 1MPa   | 2MPa  | 3MPa   | 4MPa  | 5.1MPa  | 1MPa   | 2MPa  | 3MPa   | 4MPa  | 5.1MPa  | 1MPa   | 2MPa  | 3MPa   | 4MPa  | 5.1MPa  |
|            | 圈数 /Turns       | 14     |       |        |       |         | 18     |       |        |       |         | 20     |       |        |       |         | 22     |       |        |       |         | 28     |       |        |       |         | 33     |       |        |       |         |
|            | 推力 /Thrust (KN) | 7.8    | 9.0   | 10.2   | 11.3  | 12.6    | 8.7    | 10.0  | 11.4   | 12.8  | 14.3    | 10.3   | 12.0  | 13.7   | 15.4  | 17.3    | 13.0   | 15.3  | 17.6   | 20.0  | 24.1    | 17.9   | 20.9  | 24.1   | 29.7  | 35.8    | 20.3   | 23.9  | 30.9   | 38.5  | 46.9    |
|            | 扭矩/Torque(N*M)  | 15.0   | 17.3  | 19.5   | 21.8  | 24.3    | 16.6   | 19.3  | 21.9   | 25.4  | 27.4    | 22.3   | 26.0  | 29.6   | 33.2  | 37.3    | 32.5   | 38.3  | 44.0   | 50.0  | 60.1    | 48.9   | 57.3  | 66.0   | 81.1  | 97.9    | 60.3   | 71.1  | 91.8   | 114.5 | 139.5   |
| Class 600  | 压力 /Pressure    | 3MPa   | 5MPa  | 6.5MPa | 8MPa  | 10.2MPa | 3MPa   | 5MPa  | 6.5MPa | 8MPa  | 10.2MPa | 3MPa   | 5MPa  | 6.5MPa | 8MPa  | 10.2MPa | 3MPa   | 5MPa  | 6.5MPa | 8MPa  | 10.2MPa | 3MPa   | 5MPa  | 6.5MPa | 8MPa  | 10.2MPa | 3MPa   | 5MPa  | 6.5MPa | 8MPa  | 10.2MPa |
|            | 圈数 /Turns       | 14     |       |        |       |         | 18     |       |        |       |         | 17     |       |        |       |         | 23     |       |        |       |         | 22     |       |        |       |         | 26     |       |        |       |         |
|            | 推力 /Thrust (KN) | 12.2   | 14.2  | 16.3   | 18.0  | 20.6    | 13.4   | 16.2  | 18.2   | 20.3  | 23.3    | 16.9   | 20.5  | 23.4   | 26.9  | 32.2    | 24.1   | 30.6  | 36.5   | 42.3  | 50.8    | 31.1   | 42.9  | 51.8   | 60.6  | 73.6    | 36.0   | 49.8  | 60.2   | 70.5  | 85.7    |
|            | 扭矩/Torque(N*M)  | 23.4   | 27.9  | 31.3   | 34.6  | 39.6    | 25.7   | 31.0  | 35.0   | 38.9  | 44.7    | 42.4   | 51.3  | 58.3   | 67.3  | 80.4    | 66.1   | 83.8  | 99.7   | 115.7 | 139.1   | 104.5  | 144.2 | 173.9  | 203.6 | 247.2   | 129.5  | 179.2 | 215.9  | 253.9 | 308.6   |
| Class 900  | 压力 /Pressure    | 5MPa   | 8MPa  | 10MPa  | 13MPa | 15.3MPa | 5MPa   | 8MPa  | 10MPa  | 13MPa | 15.3MPa | 5MPa   | 8MPa  | 10MPa  | 13MPa | 15.3MPa | 5MPa   | 8MPa  | 10MPa  | 13MPa | 15.3MPa | 5MPa   | 8MPa  | 10MPa  | 13MPa | 15.3MPa | 5MPa   | 8MPa  | 10MPa  | 13MPa | 15.3MPa |
|            | 圈数 /Turns       | 13     |       |        |       |         | 13     |       |        |       |         | 18     |       |        |       |         | 23     |       |        |       |         |        |       |        |       |         | 26     |       |        |       |         |
|            | 推力 /Thrust (KN) | 19.6   | 23.9  | 26.9   | 32.3  | 34.7    | 26.1   | 31.7  | 35.4   | 41.0  | 45.2    | 28.7   | 35.1  | 39.4   | 45.9  | 51.7    | 32.1   | 42.6  | 50.2   | 61.7  | 70.5    | 47.4   | 64.3  | 75.5   | 92.4  | 105.3   | 49.6   | 69.8  | 83.2   | 103.4 | 118.9   |
|            | 扭矩/Torque(N*M)  | 48.8   | 59.8  | 67.2   | 78.1  | 86.6    | 71.5   | 86.7  | 96.8   | 112.1 | 123.8   | 78.4   | 96.1  | 107.9  | 125.6 | 141.3   | 95.6   | 126.6 | 179.4  | 183.6 | 209.8   | 176.0  | 238.6 | 280.3  | 342.9 | 390.8   | 190.3  | 267.8 | 319.4  | 396.8 | 456.2   |
| Class 1500 | 压力 /Pressure    | 5MPa   | 10MPa | 15MPa  | 20MPa | 25.5MPa | 5MPa   | 10MPa | 15MPa  | 20MPa | 25.5MPa | 5MPa   | 10MPa | 15MPa  | 20MPa | 25.5MPa | 5MPa   | 10MPa | 15MPa  | 20MPa | 25.5MPa | 5MPa   | 10MPa | 15MPa  | 20MPa | 25.5MPa | 5MPa   | 10MPa | 15MPa  | 20MPa | 25.5MPa |
|            | 圈数 /Turns       | 12     |       |        |       |         | 13     |       |        |       |         | 17     |       |        |       |         | 17     |       |        |       |         |        |       |        |       |         | 25     |       |        |       |         |
|            | 推力 /Thrust (KN) | 21.1   | 28.5  | 35.8   | 43.1  | 51.2    | 28.4   | 37.6  | 46.9   | 56.2  | 66.4    | 32.4   | 43.7  | 55.7   | 68.8  | 83.1    | 39.3   | 56.2  | 75.0   | 93.7  | 114.3   | 66.4   | 103.9 | 141.5  | 179.1 | 220.4   | 56.4   | 88.3  | 120.3  | 152.2 | 187.3   |
|            | 扭矩/Torque(N*M)  | 52.7   | 71.1  | 89.4   | 107.7 | 127.8   | 77.6   | 103.0 | 128.3  | 153.7 | 181.8   | 96.4   | 130.0 | 165.8  | 204.5 | 247.1   | 132.0  | 189.0 | 251.9  | 314.9 | 384.2   | 270.6  | 423.7 | 576.9  | 730.0 | 898.4   | 230.0  | 360.1 | 490.4  | 620.5 | 763.6   |
| Class 2500 | 压力 /Pressure    | 10MPa  | 20MPa | 30MPa  | 37MPa | 42.5MPa | 10MPa  | 20MPa | 30MPa  | 37MPa | 42.5MPa | 10MPa  | 20MPa | 30MPa  | 37MPa | 42.5MPa | 10MPa  | 20MPa | 30MPa  | 37MPa | 42.5MPa |        |       |        |       |         | 10MPa  | 20MPa | 30MPa  | 37MPa | 42.5MPa |
|            | 圈数 /Turns       | 10     |       |        |       |         |        |       |        |       |         | 14     |       |        |       |         | 14     |       |        |       |         |        |       |        |       |         | 20     |       |        |       |         |
|            | 推力 /Thrust (KN) | 28.0   | 41.1  | 54.2   | 63.4  | 70.6    | 39.3   | 57.5  | 75.6   | 88.3  | 98.3    | 43.7   | 64.5  | 85.4   | 99.9  | 111.4   | 54.8   | 82.8  | 110.8  | 130.4 | 145.8   |        |       |        |       |         | 80.2   | 131.2 | 182.2  | 217.9 | 246.0   |
|            | 扭矩/Torque(N*M)  | 69.9   | 102.6 | 135.4  | 158.3 | 176.3   | 107.6  | 157.2 | 206.9  | 241.6 | 268.9   | 130    | 191.9 | 254    | 297.3 | 331.4   | 184.1  | 278.2 | 372.3  | 438.1 | 489.9   |        |       |        |       |         | 346.2  | 566.3 | 786.4  | 940.5 | 1061.6  |

| CLASS      | 口径 /IN          | 8"     |       |        |        |         | 10"    |        |        |        |         | 12"    |        |        |        |         | 14"    |        |        |        |         | 16"    |        |        |        |         | 18"    |        |        |        |         |
|------------|-----------------|--------|-------|--------|--------|---------|--------|--------|--------|--------|---------|--------|--------|--------|--------|---------|--------|--------|--------|--------|---------|--------|--------|--------|--------|---------|--------|--------|--------|--------|---------|
| Class 150  | 压力 /Pressure    | 0.6MPa | 1MPa  | 1.5MPa | 2MPa   | -       | 0.6MPa | 1MPa   | 1.5MPa | 2MPa   | -       | 0.6MPa | 1MPa   | 1.5MPa | 2MPa   | -       | 0.6MPa | 1MPa   | 1.5MPa | 2MPa   | -       | 0.6MPa | 1MPa   | 1.5MPa | 2MPa   | -       | 0.6MPa | 1MPa   | 1.5MPa | 2MPa   | -       |
|            | 圈数 /Turns       | 43     |       |        |        |         | 42     |        |        |        |         | 51     |        |        |        |         | 55     |        |        |        |         | 64     |        |        |        |         | 73     |        |        |        |         |
|            | 推力 /Thrust (KN) | 23.1   | 24.9  | 27.3   | 33.1   | -       | 28.8   | 31.2   | 37.5   | 47.1   | -       | 36.9   | 40.0   | 52.6   | 66.1   | -       | 40.7   | 44.4   | 60.1   | 75.9   | -       | 48.2   | 55.2   | 75.9   | 96.6   | -       | 55.7   | 67.1   | 93.5   | 120.0  | -       |
|            | 扭矩/Torque(N*M)  | 68.6   | 74.2  | 81.2   | 98.4   | -       | 96.8   | 104.9  | 126.1  | 158.1  | -       | 132.6  | 143.9  | 189.2  | 238.0  | -       | 156.4  | 170.5  | 230.5  | 291.3  | -       | 196.7  | 224.9  | 309.4  | 393.9  | -       | 240.3  | 289.7  | 403.7  | 517.6  | -       |
| Class 300  | 压力 /Pressure    | 1MPa   | 2MPa  | 3MPa   | 4MPa   | 5.1MPa  | 1MPa   | 2MPa   | 3MPa   | 4MPa   | 5.1MPa  | 1MPa   | 2MPa   | 3MPa   | 4MPa   | 5.1MPa  | 1MPa   | 2MPa   | 3MPa   | 4MPa   | 5.1MPa  | 1MPa   | 2MPa   | 3MPa   | 4MPa   | 5.1MPa  | 1MPa   | 2MPa   | 3MPa   | 4MPa   | 5.1MPa  |
|            | 圈数 /Turns       | 35     |       |        |        |         | 43     |        |        |        |         | 51     |        |        |        |         | 56     |        |        |        |         | 64     |        |        |        |         | 71     |        |        |        |         |
|            | 推力 /Thrust (KN) | 26.2   | 34.5  | 47.3   | 60.1   | 74.2    | 34.5   | 50.6   | 69.9   | 89.2   | 110.5   | 40.7   | 67.0   | 94.2   | 121.5  | 151.4   | 45.9   | 77.7   | 109.7  | 141.7  | 176.9   | 55.9   | 97.5   | 139.2  | 180.8  | 226.5   | 72.6   | 124.4  | 176.2  | 228.0  | 285.0   |
|            | 扭矩/Torque(N*M)  | 87.9   | 116.0 | 159.0  | 202.0  | 249.3   | 124.1  | 182.1  | 251.6  | 321.2  | 397.7   | 156.3  | 257.1  | 361.7  | 466.2  | 581.2   | 187.2  | 316.8  | 447.2  | 577.6  | 721.0   | 241.4  | 420.9  | 600.5  | 780.1  | 977.6   | 330.4  | 566.3  | 802.2  | 1038.2 | 1297.7  |
| Class 600  | 压力 /Pressure    | 3MPa   | 5MPa  | 6.5MPa | 8MPa   | 10.2MPa | 3MPa   | 5MPa   | 6.5MPa | 8MPa   | 10.2MPa | 3MPa   | 5MPa   | 6.5MPa | 8MPa   | 10.2MPa | 3MPa   | 5MPa   | 6.5MPa | 8MPa   | 10.2MPa | 3MPa   | 5MPa   | 6.5MPa | 8MPa   | 10.2MPa | 3MPa   | 5MPa   | 6.5MPa | 8MPa   | 10.2MPa |
|            | 圈数 /Turns       | 34     |       |        |        |         | 42     |        |        |        |         | 50     |        |        |        |         | 41     |        |        |        |         | 47     |        |        |        |         | 53     |        |        |        |         |
|            | 推力 /Thrust (KN) | 48.8   | 70.7  | 87.1   | 103.6  | 127.6   | 64.0   | 96.5   | 120.9  | 145.3  | 181.1   | 90.7   | 136.5  | 170.8  | 205.2  | 255.5   | 105.9  | 159.5  | 199.7  | 240    | 299     | 128.9  | 197.8  | 249.5  | 301.2  | 377.1   | 139.7  | 214.5  | 270.5  | 326.6  | 408.8   |
|            | 扭矩/Torque(N*M)  | 187.3  | 271.4 | 334.4  | 397.5  | 489.9   | 276.3  | 416.6  | 521.9  | 627.2  | 781.6   | 413.1  | 621.6  | 777.9  | 934.3  | 1163.7  | 554.5  | 841.8  | 1054   | 1265.7 | 1577.6  | 710.7  | 1091.1 | 1376.3 | 1661.5 | 2079.9  | 803.8  | 1234   | 1556.7 | 1879.4 | 2352.6  |
| Class 900  | 压力 /Pressure    | 5MPa   | 8MPa  | 10MPa  | 13MPa  | 15.3MPa | 5MPa   | 8MPa   | 10MPa  | 13MPa  | 15.3MPa | 5MPa   | 8MPa   | 10MPa  | 13MPa  | 15.3MPa | 5MPa   | 8MPa   | 10MPa  | 13MPa  | 15.3MPa | 5MPa   | 8MPa   | 10MPa  | 13MPa  | 15.3MPa | 5MPa   | 8MPa   | 10MPa  | 13MPa  | 15.3MPa |
|            | 圈数 /Turns       | 34     |       |        |        |         | 31     |        |        |        |         | 36     |        |        |        |         | 41     |        |        |        |         | 47     |        |        |        |         | 34     |        |        |        |         |
|            | 推力 /Thrust (KN) | 71.8   | 104.0 | 125.4  | 157.6  | 182.2   | 113.4  | 161.3  | 193.2  | 241.1  | 277.9   | 145.8  | 211.4  | 255.0  | 320.6  | 370.8   | 171.1  | 251.7  | 305.5  | 386.2  | 448.0   | 184.8  | 271.9  | 330.0  | 417.1  | 483.9   | 238.9  | 349.3  | 422.9  | 533.2  | 617.9   |
|            | 扭矩/Torque(N*M)  | 310.0  | 448.8 | 541.3  | 680.0  | 786.3   | 571.3  | 812.7  | 973.6  | 1214.9 | 1400.0  | 769.5  | 1115.3 | 1345.8 | 1691.7 | 1956.8  | 943.5  | 1388.4 | 1685.0 | 2129.9 | 2471.1  | 1063.6 | 1564.9 | 1899.0 | 2400.2 | 2784.5  | 1719.8 | 2514.4 | 3044.0 | 3838.5 | 4447.7  |
| Class 1500 | 压力 /Pressure    | 5MPa   | 10MPa | 15MPa  | 20MPa  | 25.5MPa | 5MPa   | 10MPa  | 15MPa  | 20MPa  | 25.5MPa | 5MPa   | 10MPa  | 15MPa  | 20MPa  | 25.5MPa | 5MPa   | 10MPa  | 15MPa  | 20MPa  | 25.5MPa | 5MPa   | 10MPa  | 15MPa  | 20MPa  | 25.5MPa | 5MPa   | 10MPa  | 15MPa  | 20MPa  | 25.5MPa |
|            | 圈数 /Turns       | 24     |       |        |        |         | 29     |        |        |        |         | 35     |        |        |        |         |        |        |        |        |         | 29     |        |        |        |         |        |        |        |        |         |
|            | 推力 /Thrust (KN) | 90.3   | 141.4 | 192.4  | 243.6  | 299.8   | 122.1  | 197.9  | 273.7  | 349.6  | 433.0   | 149.6  | 249.4  | 349.2  | 449.0  | 558.7   | 186.4  | 308.3  | 430.3  | 552.4  | 686.7   | 198.0  | 331.8  | 465.7  | 599.5  | 746.8   | 273.8  | 446.5  | 619.2  | 791.9  | 981.8   |
|            | 扭矩/Torque(N*M)  | 454.8  | 712.2 | 969.7  | 1227.1 | 1510.4  | 702.5  | 1138.8 | 1575.1 | 2011.4 | 2491.4  | 932.3  | 1554.1 | 2175.9 | 2797.7 | 3481.7  | 1340.4 | 2219.1 | 3097.8 | 3976.6 | 4943.3  | 1424.8 | 2388.7 | 3352.2 | 4315.8 | 5375.7  | 2363.5 | 3853.9 | 5344.3 | 6834.7 | 8474.1  |
| Class 2500 | 压力 /Pressure    | 10MPa  | 20MPa | 30MPa  | 37MPa  | 42.5MPa | 10MPa  | 20MPa  | 30MPa  | 37MPa  | 42.5MPa | 10MPa  | 20MPa  | 30MPa  | 37MPa  | 42.5MPa | 10MPa  | 20MPa  | 30MPa  | 37MPa  | 42.5MPa | 10MPa  | 20MPa  | 30MPa  | 37MPa  | 42.5MPa |        |        |        |        |         |
|            | 圈数 /Turns       | 19     |       |        |        |         | 16     |        |        |        |         |        |        |        |        |         |        |        |        |        |         |        |        |        |        |         |        |        |        |        |         |



| CLASS      | 口径 /IN          | 2"     |       |        |       |         | 2-1/2" |       |        |       |         | 3"     |       |        |        |         | 4"     |        |        |        |         | 5"     |       |        |       |         | 6"     |        |        |        |         | 8"     |        |        |         |       |
|------------|-----------------|--------|-------|--------|-------|---------|--------|-------|--------|-------|---------|--------|-------|--------|--------|---------|--------|--------|--------|--------|---------|--------|-------|--------|-------|---------|--------|--------|--------|--------|---------|--------|--------|--------|---------|-------|
| Class 150  | 压力 /Pressure    | 0.6MPa | 1MPa  | 1.5MPa | 2MPa  | -       | 0.6MPa | 1MPa  | 1.5MPa | 2MPa  | -       | 0.6MPa | 1MPa  | 1.5MPa | 2MPa   | -       | 0.6MPa | 1MPa   | 1.5MPa | 2MPa   | -       | 0.6MPa | 1MPa  | 1.5MPa | 2MPa  | -       | 0.6MPa | 1MPa   | 1.5MPa | 2MPa   | -       | 0.6MPa | 1MPa   | 1.5MPa | 2MPa    | -     |
|            | 圈数 /Turns       | 5      |       |        |       |         | 6      |       |        |       |         | 6      |       |        |        |         | 7      |        |        |        |         | 8      |       |        |       |         | 10     |        |        |        |         | 10     |        |        |         |       |
|            | 推力 /Thrust (KN) | 7.7    | 9     | 11     | 13    | -       | 9.4    | 12.2  | 15.1   | 17.9  | -       | 12.1   | 15.0  | 20.0   | 24.0   | -       | 18.1   | 23.0   | 30.0   | 37.0   | -       | 24.2   | 33.0  | 44.0   | 56.0  | -       | 29.5   | 42.0   | 58.0   | 73.0   | -       | 43.6   | 65.0   | 91.0   | 117.0   | -     |
|            | 扭矩/Torque(N*M)  | 15.1   | 18.1  | 21.8   | 25.5  | -       | 20.6   | 26.9  | 33.2   | 39.5  | -       | 30.8   | 39.3  | 50.0   | 60.6   | -       | 50.3   | 65.2   | 83.7   | 102.3  | -       | 73.2   | 100.4 | 134.4  | 168.3 | -       | 89.4   | 127.3  | 174.7  | 222.1  | -       | 149.3  | 221.3  | 311.3  | 401.3   | -     |
| Class 300  | 压力 /Pressure    | 1MPa   | 2MPa  | 3MPa   | 4MPa  | 5.1MPa  | 1MPa   | 2MPa  | 3MPa   | 4MPa  | 5.1MPa  | 1MPa   | 2MPa  | 3MPa   | 4MPa   | 5.1MPa  | 1MPa   | 2MPa   | 3MPa   | 4MPa   | 5.1MPa  | 1MPa   | 2MPa  | 3MPa   | 4MPa  | 5.1MPa  | 1MPa   | 2MPa   | 3MPa   | 4MPa   | 5.1MPa  | 1MPa   | 2MPa   | 3MPa   | 4MPa    | 5.1M  |
|            | 圈数 /Turns       | 5      |       |        |       |         | 6      |       |        |       |         | 6      |       |        |        |         | 7      |        |        |        |         | 10     |       |        |       |         | 8      |        |        |        |         | 9      |        |        |         |       |
|            | 推力 /Thrust (KN) | 9.2    | 12.9  | 16.7   | 24.6  | 24.6    | 12.2   | 17.9  | 23.6   | 29.3  | 35.6    | 15.4   | 23.8  | 32.1   | 40.5   | 49.7    | 24.1   | 37.4   | 50.7   | 64.0   | 78.6    | 38.6   | 61.1  | 83.5   | 106.0 | 130.7   | 49.9   | 81.3   | 112.6  | 144.0  | 178.5   | 82.0   | 135.9  | 189.8  | 243.7   | 303   |
|            | 扭矩/Torque(N*M)  | 18.1   | 25.5  | 32.9   | 48.4  | 48.4    | 26.9   | 39.5  | 52.0   | 64.6  | 78.4    | 39.3   | 60.6  | 82.0   | 103.3  | 126.7   | 72.7   | 113.0  | 153.3  | 193.6  | 237.9   | 141.3  | 223.6 | 305.8  | 388.1 | 478.5   | 206.5  | 336.1  | 465.8  | 595.5  | 738.2   | 378.0  | 626.6  | 875.3  | 1124.0  | 133   |
| Class 600  | 压力 /Pressure    | 3MPa   | 5MPa  | 6.5MPa | 8MPa  | 10.2MPa | 3MPa   | 5MPa  | 6.5MPa | 8MPa  | 10.2MPa | 3MPa   | 5MPa  | 6.5MPa | 8MPa   | 10.2MPa | 3MPa   | 5MPa   | 6.5MPa | 8MPa   | 10.2MPa | 3MPa   | 5MPa  | 6.5MPa | 8MPa  | 10.2MPa | 3MPa   | 5MPa   | 6.5MPa | 8MPa   | 10.2MPa | 3MPa   | 5MPa   | 6.5MPa | 8MPa    | 10.2M |
|            | 圈数 /Turns       | 4      |       |        |       |         | 5      |       |        |       |         | 6      |       |        |        |         | 6      |        |        |        |         | 7      |       |        |       |         | 8      |        |        |        |         | 6      |        |        |         |       |
|            | 推力 /Thrust (KN) | 20.1   | 27.6  | 33.3   | 38.9  | 47.2    | 29.7   | 41.1  | 49.6   | 58.2  | 70.7    | 38.5   | 55.2  | 67.8   | 80.3   | 98.7    | 60.1   | 86.7   | 106.7  | 126.7  | 156.0   | 90.6   | 135.5 | 169.2  | 202.9 | 252.3   | 129.1  | 191.8  | 238.8  | 285.9  | 354.8   | 202.2  | 310.0  | 390.9  | 471.8   | 590   |
|            | 扭矩/Torque(N*M)  | 51.3   | 70.4  | 84.8   | 99.2  | 120.3   | 82.7   | 114.5 | 138.3  | 162.1 | 197.0   | 116.4  | 167.0 | 205.0  | 242.9  | 298.5   | 220.1  | 317.7  | 390.8  | 463.9  | 571.2   | 374.7  | 560.5 | 699.9  | 839.2 | 1043.7  | 595.4  | 884.6  | 1101.5 | 1318.4 | 1636.5  | 1083.3 | 1661.1 | 2094.4 | 2527.7  | 3163  |
| Class 900  | 压力 /Pressure    | 5MPa   | 8MPa  | 10MPa  | 13MPa | 15.3MPa | 5MPa   | 8MPa  | 10MPa  | 13MPa | 15.3MPa | 5MPa   | 8MPa  | 10MPa  | 13MPa  | 15.3MPa | 5MPa   | 8MPa   | 10MPa  | 13MPa  | 15.3MPa |        |       |        |       |         | 5MPa   | 8MPa   | 10MPa  | 13MPa  | 15.3MPa | 5MPa   | 8MPa   | 10MPa  | 13MPa   | 15.3M |
|            | 圈数 /Turns       | 4      |       |        |       |         | 4      |       |        |       |         | 4      |       |        |        |         | 6      |        |        |        |         |        |       |        |       |         | 6      |        |        |        |         | 7      |        |        |         |       |
|            | 推力 /Thrust (KN) | 36.2   | 46.3  | 53.0   | 63.1  | 70.9    | 46.7   | 61.7  | 71.7   | 86.7  | 98.2    | 59.6   | 82.4  | 97.6   | 120.3  | 137.7   | 96.2   | 133.9  | 159.1  | 196.8  | 225.7   |        |       |        |       |         | 197.5  | 281.1  | 336.8  | 420.4  | 484.5   | 312.8  | 459.8  | 557.8  | 704.7   | 817   |
|            | 扭矩/Torque(N*M)  | 109.4  | 140.0 | 160.3  | 190.9 | 214.4   | 160.0  | 211.4 | 245.6  | 297.0 | 336.4   | 204.3  | 282.2 | 334.1  | 412.0  | 471.7   | 398.1  | 554.1  | 658.1  | 814.1  | 933.8   |        |       |        |       |         | 1058.2 | 1506.0 | 1804.6 | 2252.4 | 2595.7  | 1973.4 | 2900.4 | 3518.5 | 4445.6  | 5156  |
| Class 1500 | 压力 /Pressure    | 5MPa   | 10MPa | 15MPa  | 20MPa | 25.5MPa | 5MPa   | 10MPa | 10MPa  | 20MPa | 25.5MPa | 5MPa   | 10MPa | 15MPa  | 20MPa  | 25.5MPa | 5MPa   | 10MPa  | 15MPa  | 20MPa  | 25.5MPa |        |       |        |       |         | 5MPa   | 10MPa  | 15MPa  | 20MPa  | 25.5MPa | 5MPa   | 10MPa  | 15MPa  | 20MPa   | 25.5M |
|            | 圈数 /Turns       | 5      |       |        |       |         | 4      |       |        |       |         | 4      |       |        |        |         | 4      |        |        |        |         |        |       |        |       |         | 8      |        |        |        |         | 6      |        |        |         |       |
|            | 推力 /Thrust (KN) | 39.4   | 56.2  | 73.1   | 89.9  | 108.5   | 50.3   | 75.3  | 100.3  | 125.3 | 152.8   | 79.8   | 120.8 | 161.7  | 202.6  | 247.6   | 131.1  | 199.9  | 268.7  | 337.6  | 413.3   |        |       |        |       |         | 220.8  | 362.3  | 503.9  | 645.4  | 801.1   | 319.1  | 530.0  | 740.8  | 951.7   | 1183  |
|            | 扭矩/Torque(N*M)  | 119.1  | 170.1 | 221.0  | 272.0 | 328.1   | 172.4  | 258.0 | 343.6  | 429.2 | 523.4   | 330.3  | 499.5 | 668.8  | 838.0  | 1024.2  | 671.1  | 1023.5 | 1375.9 | 1728.4 | 2116.1  |        |       |        |       |         | 1392.5 | 2285.4 | 3178.3 | 4071.2 | 5053.4  | 2488.4 | 4132.8 | 5777.2 | 7421.6  | 9230  |
| Class 2500 | 压力 /Pressure    | 10MPa  | 20MPa | 30MPa  | 37MPa | 42.5MPa | 10MPa  | 20MPa | 30MPa  | 37MPa | 42.5MPa | 10MPa  | 20MPa | 30MPa  | 37MPa  | 42.5MPa | 10MPa  | 20MPa  | 30MPa  | 37MPa  | 42.5MPa |        |       |        |       |         | 5MPa   | 10MPa  | 15MPa  | 20MPa  | 25.5MPa | 5MPa   | 10MPa  | 15MPa  | 20MPa   | 25.5M |
|            | 圈数 /Turns       | 4      |       |        |       |         | 5      |       |        |       |         | 4      |       |        |        |         | 4      |        |        |        |         |        |       |        |       |         | 6      |        |        |        |         | 5      |        |        |         |       |
|            | 推力 /Thrust (KN) | 53.9   | 78.7  | 103.6  | 121.0 | 134.7   | 84.4   | 130.2 | 175.9  | 208.0 | 233.1   | 114.8  | 185.1 | 255.4  | 304.6  | 343.2   | 181.0  | 284.5  | 387.9  | 460.3  | 517.2   |        |       |        |       |         | 273.3  | 437.6  | 601.8  | 716.7  | 807.0   | 498.8  | 804.1  | 1109.5 | 1323.2  | 1491  |
|            | 扭矩/Torque(N*M)  | 184.4  | 269.6 | 354.8  | 414.5 | 461.3   | 309.2  | 476.7 | 644.3  | 761.6 | 853.7   | 474.8  | 765.6 | 1056.4 | 1259.9 | 1419.9  | 969.9  | 1524.0 | 2078.2 | 2466.1 | 2770.9  |        |       |        |       |         | 1937.0 | 3100.7 | 4264.3 | 5078.9 | 5718.9  | 4363.4 | 7034.8 | 9706.3 | 11576.3 | 1304  |

| CLASS      | 口径 /IN          | 10"    |        |         |        |         | 12"    |         |         |         |         | 14"    |        |        |        |         | 16"    |        |         |         |         | 18"    |         |         |         |         | 20"    |        |        |        |         | 24"    |        |        |        |   |
|------------|-----------------|--------|--------|---------|--------|---------|--------|---------|---------|---------|---------|--------|--------|--------|--------|---------|--------|--------|---------|---------|---------|--------|---------|---------|---------|---------|--------|--------|--------|--------|---------|--------|--------|--------|--------|---|
| Class 150  | 压力 /Pressure    | 0.6MPa | 1MPa   | 1.5MPa  | 2MPa   | -       | 0.6MPa | 1MPa    | 1.5MPa  | 2MPa    | -       | 0.6MPa | 1MPa   | 1.5MPa | 2MPa   | -       | 0.6MPa | 1MPa   | 1.5MPa  | 2MPa    | -       | 0.6MPa | 1MPa    | 1.5MPa  | 2MPa    | -       | 0.6MPa | 1MPa   | 1.5MPa | 2MPa   | -       | 0.6MPa | 1MPa   | 1.5MPa | 2MPa   | - |
|            | 圈数 /Turns       | 12     |        |         |        |         | 14     |         |         |         |         | 13     |        |        |        |         | 15     |        |         |         |         |        |         |         |         |         |        |        |        |        |         |        |        |        |        |   |
|            | 推力 /Thrust (KN) | 68.3   | 101.0  | 143.0   | 184.0  | -       | 98.7   | 146.0   | 205.0   | 264.0   | -       | 113.8  | 170.0  | 240.0  | 310.0  | -       | 147.1  | 224.0  | 319.0   | 415.0   | -       | 181.9  | 280.0   | 402.0   | 525.0   | -       | 220.8  | 343.0  | 495.0  | 648.0  | -       | 315.4  | 491.0  | 711.0  | 931.0  | - |
|            | 扭矩/Torque(N*M)  | 282.5  | 419.7  | 591.1   | 762.6  | -       | 455.3  | 672.7   | 944.5   | 1216.3  | -       | 582.5  | 869.7  | 1228.7 | 1587.7 | -       | 787.9  | 1197.8 | 1710.2  | 2222.5  | -       | 1061.2 | 1632.5  | 2346.6  | 3060.7  | -       | 1392.6 | 2162.4 | 3124.7 | 4087.1 | -       | 2459.6 | 3831.3 | 5545.9 | 7260.6 | - |
| Class 300  | 压力 /Pressure    | 1MPa   | 2MPa   | 3MPa    | 4MPa   | 5.1MPa  | 1MPa   | 2MPa    | 3MPa    | 4MPa    | 5.1MPa  | 1MPa   | 2MPa   | 3MPa   | 4MPa   | 5.1MPa  | 1MPa   | 2MPa   | 3MPa    | 4MPa    | 5.1MPa  | 1MPa   | 2MPa    | 3MPa    | 4MPa    | 5.1MPa  | 1MPa   | 2MPa   | 3MPa   | 4MPa   | 5.1MPa  |        |        |        |        |   |
|            | 圈数 /Turns       | 9      |        |         |        |         | 11     |         |         |         |         |        |        |        |        |         | 10     |        |         |         |         |        |         |         |         |         | 11     |        |        |        |         |        |        |        |        |   |
|            | 推力 /Thrust (KN) | 115.2  | 198.1  | 281.0   | 363.9  | 455.1   | 152.9  | 270.8   | 388.6   | 506.5   | 636.1   | 178.0  | 318.2  | 458.4  | 598.7  | 752.9   | 239.8  | 431.1  | 622.3   | 813.6   | 1024.0  | 308.9  | 545.3   | 781.7   | 1018.1  | 1278.1  | 321.8  | 571.0  | 820.2  | 1069.5 | 1343.6  |        |        |        |        |   |
|            | 扭矩/Torque(N*M)  | 617.4  | 1061.5 | 1505.6  | 1949.7 | 2438.3  | 891.8  | 1579.2  | 2266.7  | 2954.1  | 3710.3  | 1122.7 | 2007.3 | 2891.9 | 3776.5 | 4749.5  | 1756.3 | 3157.0 | 4557.6  | 5958.3  | 7499.1  | 2555.7 | 4511.5  | 6467.2  | 8422.9  | 10574.2 | 2662.0 | 4723.9 | 6785.9 | 8847.9 | 11116.0 |        |        |        |        |   |
| Class 600  | 压力 /Pressure    | 3MPa   | 5MPa   | 6.5MPa  | 8MPa   | 10.2MPa | 3MPa   | 5MPa    | 6.5MPa  | 8MPa    | 10.2MPa | 3MPa   | 5MPa   | 6.5MPa | 8MPa   | 10.2MPa | 3MPa   | 5MPa   | 6.5MPa  | 8MPa    | 10.2MPa | 3MPa   | 5MPa    | 6.5MPa  | 8MPa    | 10.2MPa |        |        |        |        |         |        |        |        |        |   |
|            | 圈数 /Turns       | 9      |        |         |        |         | 8      |         |         |         |         |        |        |        |        |         |        |        |         |         |         |        |         |         |         |         |        |        |        |        |         |        |        |        |        |   |
|            | 推力 /Thrust (KN) | 289.8  | 451.5  | 572.9   | 694.2  | 872.1   | 347.3  | 518.3   | 646.6   | 774.9   | 963.1   | 450.1  | 689.7  | 869.4  | 1049.1 | 1312.7  | 566.2  | 873.1  | 1103.3  | 1333.6  | 1671.2  | 674.9  | 1044.2  | 1321.2  | 1598.2  | 2004.4  |        |        |        |        |         |        |        |        |        |   |
|            | 扭矩/Torque(N*M)  | 1828.0 | 2848.4 | 3613.6  | 4378.8 | 5501.2  | 2873.0 | 4288.3  | 5349.8  | 6411.3  | 7968.2  | 3723.7 | 5706.2 | 7193.1 | 8679.9 | 10860.6 | 5222.4 | 8053.6 | 10177.0 | 12300.4 | 15414.7 | 6866.5 | 10624.3 | 13442.6 | 16261.0 | 20394.5 |        |        |        |        |         |        |        |        |        |   |
| Class 900  | 压力 /Pressure    | 5MPa   | 8MPa   | 10MPa   | 13MPa  | 15.3MPa | 5MPa   | 8MPa    | 10MPa   | 13MPa   | 15.3MPa |        |        |        |        |         |        |        |         |         |         |        |         |         |         |         |        |        |        |        |         |        |        |        |        |   |
|            | 圈数 /Turns       | 7      |        |         |        |         | 8      |         |         |         |         |        |        |        |        |         |        |        |         |         |         |        |         |         |         |         |        |        |        |        |         |        |        |        |        |   |
|            | 推力 /Thrust (KN) | 474.1  | 702.8  | 855.3   | 1084.1 | 1259.5  | 714.4  | 1047.3  | 1269.3  | 1602.2  | 1857.4  |        |        |        |        |         |        |        |         |         |         |        |         |         |         |         |        |        |        |        |         |        |        |        |        |   |
|            | 扭矩/Torque(N*M)  | 3696.8 | 5480.9 | 6670.2  | 8454.2 | 9822.0  | 6929.2 | 10158.2 | 12310.9 | 15539.9 | 18015.5 |        |        |        |        |         |        |        |         |         |         |        |         |         |         |         |        |        |        |        |         |        |        |        |        |   |
| Class 1500 | 压力 /Pressure    | 5MPa   | 10MPa  | 15MPa   | 20MPa  | 25.5MPa | 5MPa   | 10MPa   | 15MPa   | 20MPa   | 25.5MPa |        |        |        |        |         |        |        |         |         |         |        |         |         |         |         |        |        |        |        |         |        |        |        |        |   |
|            | 圈数 /Turns       |        |        |         |        |         |        |         |         |         |         |        |        |        |        |         |        |        |         |         |         |        |         |         |         |         |        |        |        |        |         |        |        |        |        |   |
|            | 推力 /Thrust (KN) | 512.4  | 855.7  | 1198.9  | 1542.1 | 1919.6  | 600.1  | 1014.0  | 1427.9  | 1841.8  | 2297.2  |        |        |        |        |         |        |        |         |         |         |        |         |         |         |         |        |        |        |        |         |        |        |        |        |   |
|            | 扭矩/Torque(N*M)  | 4483.1 | 7485.7 | 10488.3 | 13491  |         |        |         |         |         |         |        |        |        |        |         |        |        |         |         |         |        |         |         |         |         |        |        |        |        |         |        |        |        |        |   |



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Vornet Warranty: Within 18 months from the date of purchase or 12 months from installation (whichever occurs first), if the buyer can prove that the product was correctly installed and used according to the company's recommended methods, and can demonstrate a defect in design, material, or workmanship, XX will, upon receipt of a written claim, repair or replace the defective product free of charge, or provide a full refund of the purchase price.

In no event shall XX be liable for any labor, material, equipment, construction, or other related costs incurred as a result of repairing or replacing the defective product. This warranty replaces all other express or implied warranties and constitutes the buyer's exclusive remedy and the seller's sole liability.

| 名称 /Name     | 壳体 /Shell              | 锥齿轮 /Gear        | 输出轴 /Output Shaft | 阀杆螺母 /Stem Nut          |
|--------------|------------------------|------------------|-------------------|-------------------------|
| 材料 /Material | 碳钢 & 铸铁 /CS&Cast Steel | AISI 1045 & 5140 | AISI 1045         | ASTM A439-D2<br>&QA19-4 |

| 项目<br>Item  |                  |  | 类型 /Type |      |     |       |      |            |              |              |       |
|-------------|------------------|--|----------|------|-----|-------|------|------------|--------------|--------------|-------|
|             |                  |  | BA000    | BA00 | BA0 | BA1   | BA2  | BA3        | BA4          | BA5          | BA6   |
| 许用扭矩 (N.m)  | Allowable Torque |  | 200      | 400  | 750 | 1500  | 3000 | 6000(9000) | 10000(15000) | 22100        | 32000 |
| 许用推力 (KN)   | Allowable Thrust |  | 40       | 100  | 150 | 200   | 350  | 840        | 1400         | 2400         | 2745  |
| 减速比         | Reduction Ratio  |  | 4:1      | 3:1  | 3:1 | 4:1:1 | 6:1  | 58:1(86:1) | 86:1(104:1)  | 104:1(128:1) | 125:1 |
| 许用阀杆直径 (mm) | Allow Stem Dia   |  | 25       | 42   | 55  | 62    | 75   | 115        | 125          | 125          | 150   |
| 手轮直径 (mm)   | Hw Dia           |  | 305      | 305  | 305 | 460   | 610  | 810        | 1000         | 1200         | 1200  |

| 类型代码<br>Type Code | L1   | L2  | H1  | H2  | d1      | d2  | d3  | d4(max) | d5  | n-d6   | d7  | d8   | h1 | h2  | h3 | h4 | h5 | 法兰类型<br>Flange type |
|-------------------|------|-----|-----|-----|---------|-----|-----|---------|-----|--------|-----|------|----|-----|----|----|----|---------------------|
| BA000             | 200  | 45  | 100 | 59  | 70(f8)  |     | 146 | 25      | 102 | 4-M10  | 40  | 51   | 1  | 42  | 3  | 8  | 4  | F10                 |
| BA00              | 210  | 60  | 122 | 76  | 100(f8) |     | 178 | 42      | 140 | 4-M16  | 50  | 64.5 | 1  | 60  | 4  | 10 | 5  | F14                 |
| BA0               | 232  | 60  | 135 | 84  | 130(f8) |     | 210 | 55      | 165 | 4-M20  | 63  | 79   | 1  | 70  | 5  | 15 | 5  | F16                 |
| BA1               | 283  | 60  | 160 | 95  | 200(f8) |     | 289 | 62      | 254 | 8-M16  | 70  | 89   | 1  | 75  | 5  | 15 | 5  | F25                 |
| BA2               | 370  | 60  | 220 | 140 | 230(f8) |     | 346 | 75      | 298 | 8-M20  | 95  | 119  | 15 | 110 | 5  | 18 | 5  | F30                 |
| BA3               | 610  | 60  | 330 | 328 | 260(f8) | 428 | 510 | 115     | 356 | 8-M30  | 128 | 166  | 30 | 168 | 5  | 18 | 5  | F35                 |
| BA4               | 668  | 110 | 360 | 410 | 300(f8) | 475 | 620 | 125     | 406 | 8-M36  | 138 | 188  | 35 | 180 | 8  | 25 | 5  | F40                 |
| BA5               | 668  | 110 | 360 | 410 | 370     | 544 | 690 | 125     | 483 | 12-M36 | 150 | 210  | 35 | 180 | 8  | 32 | 5  | F48                 |
| BA6               | 1020 | 60  | 500 | 282 | 470     | 686 | 810 | 150     | 603 | 20-M36 | 178 | 240  | 40 | 230 | 8  | 40 | 5  | F48                 |