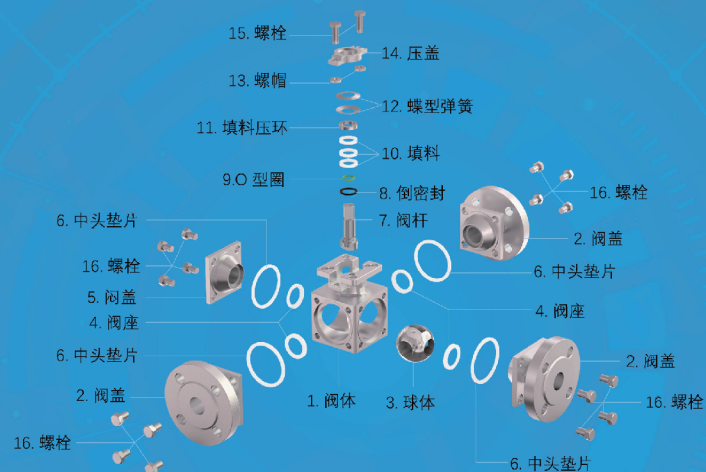




主要零件材料  
Main parts materials

| NO. | 零件名称 PART NAME             | 材料 MATERIAL                                       |
|-----|----------------------------|---------------------------------------------------|
| 1   | 阀体 Body                    | WCB、CF8、CF8M、CF3M 等                               |
| 2   | 阀盖 Bonnet                  | WCB、CF8、CF8M、CF3M 等                               |
| 3   | 球体 Ball body               | SS304、SS316、SS316L、SS316L + STL 等                 |
| 4   | 阀座 Seat                    | PTFE、PPL、金属密封等 (Metal seal, etc.)                 |
| 5   | 阀盖 Cover board             | WCB、CF8、CF8M、CF3M                                 |
| 6   | 中头垫片 Middle head gasket    | PTFE、PPL、金属垫片 (Metal gasket)                      |
| 7   | 阀杆 Stem                    | 304、SS316、316L、17-4PH、S20910                      |
| 8   | 倒密封 Inverted seal          | PTFE、PPL、不锈钢缠绕石墨 (Stainless steel wound graphite) |
| 9   | O 型圈 O-ring                | 氟橡胶 (VITON)                                       |
| 10  | 填料 Filler                  | PTFE、PPL、柔性石墨 (Flexible graphite)                 |
| 11  | 填料压环 Filling clamping ring | SS304                                             |
| 12  | 蝶形弹簧 Butterfly spring      | SS304                                             |
| 13  | 螺帽 NUT                     | 2H、SS304                                          |
| 14  | 压盖 Gland of valve          | CF8                                               |
| 15  | 螺栓 Screw                   | B7、SS304                                          |
| 16  | 螺栓 Screw                   | B7、SS304                                          |



三通流向示意图

Schematic diagram  
of three-way flow

产品技术参数  
Product Specifications

|                            |                                                                                                                                                                                      |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 公称压力 Nominal pressure      | PN1.6~42MPa、ANSI150LB~2500LB                                                                                                                                                         |
| 公称口径 Nominal diameter (mm) | DN15~DN400                                                                                                                                                                           |
| 连接形式 Connection Type       | 法兰 Flange、螺纹 Thread、对焊 Butt welding、<br>承插焊 Socket welding                                                                                                                           |
| 阀体材料 Body material         | LCB、WCB、CF8、CF8M、CF3、CF3M 等                                                                                                                                                          |
| 阀座形式<br>Valve seat form    | 软阀座、金属阀座（密封面硬化处理）<br>Soft seat、metal seat (hardened sealing surface)                                                                                                                 |
| 适用温度<br>proper temperature | 软阀座：-20~ + 200℃ 金属阀座：-196~ + 400℃<br>Soft seat: -20~ + 200℃ Metal seat: -196~ + 400℃                                                                                                 |
| 泄漏等级 Leakage level         | ANSI VI                                                                                                                                                                              |
| 设计标准 design standards      | GB/T12237、ASME B16.34                                                                                                                                                                |
| 结构长度 Structure length      | GB/T12221、ASME B16.10                                                                                                                                                                |
| 检测标准 Testing standards     | GB/T13927、API598                                                                                                                                                                     |
| 操作方式 Operation method      | 手动、气动、电动等 Manual、pneumatic、electric、etc.                                                                                                                                             |
| 可选项<br>Optional            | 防静电设计、防火设计、禁油处理、禁铜处理、球面特殊处理、<br>按客户要求涂漆<br>Anti-static design、fire protection design、oil-free treatment、Copper<br>Prohibition、Spherical special treatment、Customers request painting |

## 产品结构特点

### Product structure design features

#### 阀杆防吹出结构设计（见图 1）

阀杆防吹出结构设计，下端大上端小的阀杆在上端盖和螺丝的定位下，即使在阀腔异常的情况下，也能保证阀杆不会被介质吹出。

#### Valve stem anti-blowing structure design (see picture 1)

Valve stem anti-blowing structure design, the lower end is larger and the upper end is smaller Under the positioning of the upper end cover and screws, even in the valve cavity is abnormal In the case of, it can also ensure that the valve stem will not be blown out by the medium.

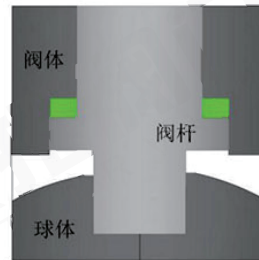


图 1 (picture 1)

#### 防静电设计（见图 2）

固定球阀通过防静电设计使球体、阀杆、阀体形成静电通道。从而将球体与阀座开关过程中由于摩擦产生的静电通过阀体引到大地，防止静电火花可能引起的火灾或爆炸危险。

#### Anti-static design (See picture 2)

The fixed ball valve adopts anti-static design to make the ball, stem and valve The body forms an electrostatic channel. So that the ball and the seat are switched During the process, static electricity generated by friction is led to the ground through the valve body, Prevent the risk of fire or explosion caused by static sparks.

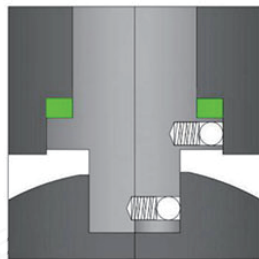
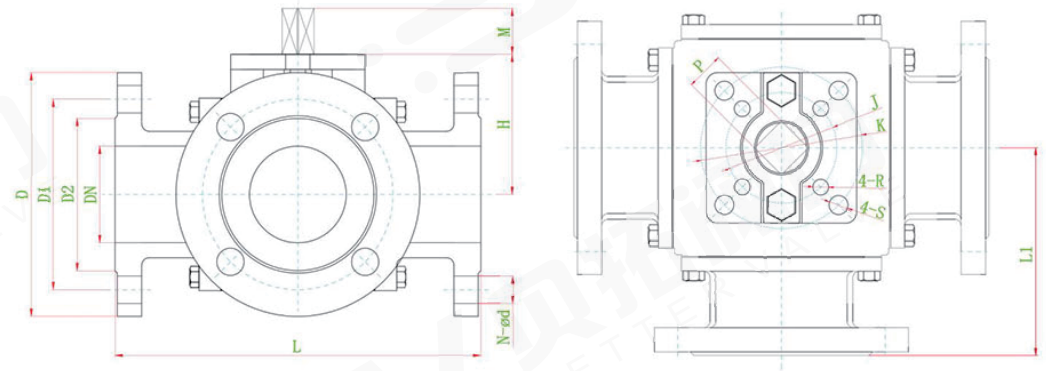


图 2 (picture 2)



GB PN16 主要外形尺寸表 Main dimensions table

Unit : mm

| SIZE  | L    | L1  | D2  | D1  | D   | N-ø d   | M  | H   | J   | K   | P  | R  | S  |
|-------|------|-----|-----|-----|-----|---------|----|-----|-----|-----|----|----|----|
| DN15  | 150  | 75  | 45  | 65  | 95  | 4-ø 14  | 13 | 58  | 42  | 50  | 11 | 6  | 7  |
| DN20  | 160  | 80  | 58  | 75  | 105 | 4-ø 14  | 16 | 61  | 50  | 70  | 14 | 7  | 9  |
| DN25  | 180  | 90  | 68  | 85  | 115 | 4-ø 14  | 16 | 72  | 50  | 70  | 14 | 7  | 9  |
| DN32  | 200  | 100 | 78  | 100 | 140 | 4-ø 18  | 16 | 81  | 50  | 70  | 14 | 7  | 9  |
| DN40  | 220  | 110 | 88  | 110 | 150 | 4-ø 18  | 19 | 103 | 70  | 102 | 17 | 9  | 11 |
| DN50  | 240  | 120 | 102 | 125 | 165 | 4-ø 18  | 19 | 113 | 70  | 102 | 17 | 9  | 11 |
| DN65  | 260  | 130 | 122 | 145 | 185 | 8-ø 18  | 19 | 120 | 70  | 102 | 17 | 9  | 11 |
| DN80  | 280  | 140 | 138 | 160 | 200 | 8-ø 18  | 24 | 162 | 125 | 140 | 22 | 14 | 18 |
| DN100 | 320  | 160 | 158 | 180 | 220 | 8-ø 18  | 24 | 184 | 125 | 140 | 22 | 14 | 18 |
| DN125 | 380  | 190 | 188 | 210 | 250 | 8-ø 18  | 29 | 215 | 140 | 165 | 27 | 18 | 22 |
| DN150 | 440  | 220 | 212 | 240 | 285 | 8-ø 22  | 29 | 250 | 140 | 165 | 27 | 18 | 22 |
| DN200 | 550  | 275 | 268 | 295 | 340 | 12-ø 22 | 38 | 334 |     | 165 | 36 |    | 22 |
| DN250 | 670  | 335 | 320 | 355 | 405 | 12-ø 26 |    | 380 |     | 165 |    |    |    |
| DN300 | 720  | 360 | 378 | 410 | 460 | 12-ø 26 |    | 405 |     | 165 |    |    |    |
| DN350 | 890  | 445 | 438 | 470 | 520 | 16-ø 26 |    | 450 |     | 254 |    |    |    |
| DN400 | 1000 | 500 | 490 | 525 | 580 | 16-ø 30 |    | 490 |     | 254 |    |    |    |

GB PN25~40 主要外形尺寸表 Main dimensions table

Unit : mm

| SIZE  | L    | L1   | D2  | D1  | D   | N-ø d   | M  | H   | J   | K   | P  | R  | S  |
|-------|------|------|-----|-----|-----|---------|----|-----|-----|-----|----|----|----|
| DN15  | 150  | 75   | 45  | 65  | 95  | 4-ø 14  | 13 | 58  | 42  | 50  | 11 | 6  | 7  |
| DN20  | 160  | 80   | 58  | 75  | 105 | 4-ø 14  | 16 | 61  | 50  | 70  | 14 | 7  | 9  |
| DN25  | 180  | 90   | 68  | 85  | 115 | 4-ø 14  | 16 | 72  | 50  | 70  | 14 | 7  | 9  |
| DN32  | 200  | 100  | 78  | 100 | 140 | 4-ø 18  | 16 | 81  | 50  | 70  | 14 | 7  | 9  |
| DN40  | 220  | 110  | 88  | 110 | 150 | 4-ø 18  | 19 | 103 | 70  | 102 | 17 | 9  | 11 |
| DN50  | 240  | 120  | 102 | 125 | 165 | 4-ø 18  | 19 | 113 | 70  | 102 | 17 | 9  | 11 |
| DN65  | 290  | 145  | 122 | 145 | 185 | 8-ø 18  | 19 | 120 | 70  | 102 | 17 | 9  | 11 |
| DN80  | 310  | 155  | 138 | 160 | 200 | 8-ø 18  | 24 | 162 | 125 | 140 | 22 | 14 | 18 |
| DN100 | 350  | 175  | 162 | 190 | 235 | 8-ø 22  | 24 | 184 | 125 | 140 | 22 | 14 | 18 |
| DN125 | 400  | 200  | 188 | 220 | 270 | 8-ø 26  | 29 | 215 | 140 | 165 | 27 | 18 | 22 |
| DN150 | 480  | 240  | 218 | 250 | 300 | 8-ø 26  | 29 | 250 | 140 | 165 | 27 | 18 | 22 |
| DN200 | PN25 | 600  | 300 | 268 | 310 | 12-ø 26 | 38 | 334 |     | 165 | 36 |    | 22 |
|       | PN40 | 600  | 300 | 285 | 320 | 12-ø 30 | 38 | 334 |     | 165 | 36 |    | 22 |
| DN250 | PN25 | 730  | 365 | 335 | 370 | 12-ø 30 |    | 380 |     | 165 |    |    |    |
|       | PN40 | 730  | 365 | 345 | 385 | 12-ø 33 |    | 380 |     | 165 |    |    |    |
| DN300 | PN25 | 850  | 425 | 395 | 430 | 16-ø 30 |    | 405 |     | 165 |    |    |    |
|       | PN40 | 850  | 425 | 410 | 450 | 16-ø 33 |    | 405 |     | 165 |    |    |    |
| DN350 | PN25 | 980  | 490 | 450 | 490 | 16-ø 33 |    | 450 |     | 254 |    |    |    |
|       | PN40 | 980  | 490 | 465 | 510 | 16-ø 36 |    | 450 |     | 254 |    |    |    |
| DN400 | PN25 | 1100 | 550 | 505 | 550 | 16-ø 36 |    | 490 |     | 254 |    |    |    |
|       | PN40 | 1100 | 550 | 535 | 585 | 16-ø 39 |    | 490 |     | 254 |    |    |    |

ASME CLASS150 主要外形尺寸表 Main dimensions table

Unit : mm

| SIZE     | L    | L1  | D2    | D1    | D   | N-ø d   | M  | H   | J   | K   | P  | R  | S  |
|----------|------|-----|-------|-------|-----|---------|----|-----|-----|-----|----|----|----|
| NPS1/2   | 150  | 75  | 34.9  | 60.3  | 90  | 4-ø 16  | 13 | 58  | 42  | 50  | 11 | 6  | 7  |
| NPS3/4   | 160  | 80  | 42.9  | 69.9  | 100 | 4-ø 16  | 16 | 61  | 50  | 70  | 14 | 7  | 9  |
| NPS1     | 180  | 90  | 50.8  | 79.4  | 110 | 4-ø 16  | 16 | 72  | 50  | 70  | 14 | 7  | 9  |
| NPS1-1/4 | 200  | 100 | 63.5  | 88.9  | 115 | 4-ø 16  | 16 | 81  | 50  | 70  | 14 | 7  | 9  |
| NPS1-1/2 | 220  | 110 | 73.0  | 98.4  | 125 | 4-ø 16  | 19 | 103 | 70  | 102 | 17 | 9  | 11 |
| NPS2     | 240  | 120 | 92.1  | 120.7 | 150 | 4-ø 19  | 19 | 113 | 70  | 102 | 17 | 9  | 11 |
| NPS2-1/2 | 260  | 130 | 104.8 | 139.7 | 180 | 4-ø 19  | 19 | 120 | 70  | 102 | 17 | 9  | 11 |
| NPS3     | 280  | 140 | 127.0 | 152.4 | 190 | 4-ø 19  | 24 | 162 | 125 | 140 | 22 | 14 | 18 |
| NPS4     | 320  | 160 | 157.2 | 190.5 | 230 | 8-ø 19  | 24 | 184 | 125 | 140 | 22 | 14 | 18 |
| NPS5     | 380  | 190 | 185.7 | 215.9 | 255 | 8-ø 22  | 29 | 215 | 140 | 165 | 27 | 18 | 22 |
| NPS6     | 440  | 220 | 215.9 | 241.3 | 280 | 8-ø 22  | 29 | 250 | 140 | 165 | 27 | 18 | 22 |
| NPS8     | 550  | 275 | 269.9 | 298.5 | 345 | 8-ø 22  | 38 | 334 |     | 165 | 36 |    | 22 |
| NPS10    | 670  | 335 | 323.8 | 362.0 | 405 | 12-ø 26 |    | 380 |     | 165 |    |    |    |
| NPS12    | 720  | 360 | 381.0 | 413.8 | 485 | 12-ø 26 |    | 405 |     | 165 |    |    |    |
| NPS14    | 890  | 445 | 412.8 | 476.3 | 535 | 12-ø 29 |    | 450 |     | 254 |    |    |    |
| NPS16    | 1000 | 500 | 469.9 | 539.8 | 595 | 16-ø 29 |    | 490 |     | 254 |    |    |    |

ASME CLASS300 主要外形尺寸表 Main dimensions table

Unit : mm

| SIZE     | L    | L1  | D2    | D1    | D   | N-ø d   | M  | H   | J   | K   | P  | R  | S  |
|----------|------|-----|-------|-------|-----|---------|----|-----|-----|-----|----|----|----|
| NPS1/2   | 150  | 75  | 34.9  | 66.7  | 95  | 4-ø 16  | 13 | 58  | 42  | 50  | 11 | 6  | 7  |
| NPS3/4   | 160  | 80  | 42.9  | 82.6  | 115 | 4-ø 19  | 16 | 61  | 50  | 70  | 14 | 7  | 9  |
| NPS1     | 180  | 90  | 50.8  | 88.9  | 125 | 4-ø 19  | 16 | 72  | 50  | 70  | 14 | 7  | 9  |
| NPS1-1/4 | 200  | 100 | 63.5  | 98.4  | 135 | 4-ø 19  | 16 | 81  | 50  | 70  | 14 | 7  | 9  |
| NPS1-1/2 | 220  | 110 | 73.0  | 114.3 | 155 | 4-ø 22  | 19 | 103 | 70  | 102 | 17 | 9  | 11 |
| NPS2     | 240  | 120 | 92.1  | 127.0 | 165 | 8-ø 19  | 19 | 113 | 70  | 102 | 17 | 9  | 11 |
| NPS2-1/2 | 290  | 145 | 104.8 | 149.2 | 190 | 8-ø 22  | 19 | 120 | 70  | 102 | 17 | 9  | 11 |
| NPS3     | 310  | 155 | 127.0 | 168.3 | 210 | 8-ø 22  | 24 | 162 | 125 | 140 | 22 | 14 | 18 |
| NPS4     | 350  | 175 | 157.2 | 200.0 | 255 | 8-ø 22  | 24 | 184 | 125 | 140 | 22 | 14 | 18 |
| NPS5     | 400  | 200 | 185.7 | 235.0 | 280 | 8-ø 22  | 29 | 215 | 140 | 165 | 27 | 18 | 22 |
| NPS6     | 480  | 240 | 215.9 | 269.9 | 320 | 12-ø 22 | 29 | 250 | 140 | 165 | 27 | 18 | 22 |
| NPS8     | 600  | 300 | 269.9 | 330.2 | 380 | 12-ø 26 | 38 | 334 |     | 165 | 36 |    | 22 |
| NPS10    | 730  | 365 | 323.8 | 387.4 | 445 | 16-ø 29 |    | 380 |     | 165 |    |    |    |
| NPS12    | 850  | 425 | 381.0 | 450.8 | 520 | 16-ø 32 |    | 405 |     | 165 |    |    |    |
| NPS14    | 980  | 490 | 412.8 | 514.4 | 585 | 20-ø 32 |    | 450 |     | 254 |    |    |    |
| NPS16    | 1100 | 550 | 469.9 | 571.5 | 650 | 20-ø 35 |    | 490 |     | 254 |    |    |    |

JIS 10K 主要外形尺寸表 Main dimensions table

Unit : mm

| SIZE | L    | L1  | D2  | D1  | D   | N-ø d   | M  | H   | J   | K   | P  | R  | S  |
|------|------|-----|-----|-----|-----|---------|----|-----|-----|-----|----|----|----|
| 15A  | 150  | 75  | 51  | 70  | 95  | 4-ø 15  | 13 | 58  | 42  | 50  | 11 | 6  | 7  |
| 20A  | 160  | 80  | 56  | 75  | 100 | 4-ø 15  | 16 | 61  | 50  | 70  | 14 | 7  | 9  |
| 25A  | 180  | 90  | 67  | 90  | 125 | 4-ø 19  | 16 | 72  | 50  | 70  | 14 | 7  | 9  |
| 32A  | 200  | 100 | 76  | 100 | 135 | 4-ø 19  | 16 | 81  | 50  | 70  | 14 | 7  | 9  |
| 40A  | 220  | 110 | 81  | 105 | 140 | 4-ø 19  | 19 | 103 | 70  | 102 | 17 | 9  | 11 |
| 50A  | 240  | 120 | 96  | 120 | 155 | 4-ø 19  | 19 | 113 | 70  | 102 | 17 | 9  | 11 |
| 65A  | 260  | 130 | 116 | 140 | 175 | 4-ø 19  | 19 | 120 | 70  | 102 | 17 | 9  | 11 |
| 80A  | 280  | 140 | 126 | 150 | 185 | 8-ø 19  | 24 | 162 | 125 | 140 | 22 | 14 | 18 |
| 100A | 320  | 160 | 151 | 175 | 210 | 8-ø 19  | 24 | 184 | 125 | 140 | 22 | 14 | 18 |
| 125A | 380  | 190 | 182 | 210 | 250 | 8-ø 23  | 29 | 215 | 140 | 165 | 27 | 18 | 22 |
| 150A | 440  | 220 | 212 | 240 | 280 | 8-ø 23  | 29 | 250 | 140 | 165 | 27 | 18 | 22 |
| 200A | 550  | 275 | 262 | 290 | 330 | 12-ø 23 | 38 | 334 |     | 165 | 36 |    | 22 |
| 250A | 670  | 335 | 324 | 355 | 400 | 12-ø 25 |    | 380 |     | 165 |    |    |    |
| 300A | 720  | 360 | 368 | 400 | 445 | 16-ø 25 |    | 405 |     | 165 |    |    |    |
| 350A | 890  | 445 | 413 | 445 | 490 | 16-ø 25 |    | 450 |     | 254 |    |    |    |
| 400A | 1000 | 500 | 475 | 510 | 560 | 16-ø 27 |    | 490 |     | 254 |    |    |    |