

# F20系列 两段式固定球阀 法兰式、全通径

F20 series two section frunnion mounted ball valve flange type、full bore

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YEAH CONTROL VALVE (SHANGHAI) CO., LTD.

## 可选驱动配置 Optional driver configuration



可大扭矩气动操作  
Capable of high torque  
pneumatic operation



可大扭矩电动操作  
Capable of high torque  
electric operation



可气动操作  
Operable pneumatic



可电动操作  
Operable electrically

## 概述及应用

F20系列固定球阀, 消化吸收最新国际技术开发出的适合于化工、石化、耐腐蚀等工况的高性能软密封/硬密封球阀产品, 可以适应高压和大口径场合, 广泛应用于石油、化工、天然气、电力、冶金、食品等行业。

## Overview and Application

The F20 Series trunnion mounted ball valve is a high-performance soft seal/hard seal ball valve product developed by digesting and absorbing the latest international technology, suitable for chemical, petrochemical, corrosion-resistant and other working conditions. It can adapt to high-pressure and large-diameter applications and is widely used in industries such as petroleum, chemical, natural gas, power, metallurgy, and food.

## 产品特点

- > 执行机构连接采用ISO5211国际标准
- > 全通径结构及锁定装置设计
- > 流通能力强、流阻小、双向密封
- > 阀杆防飞出结构、防火、防静电设计
- > 阀腔带自泄压
- > 阀座带有自洁功能
- > 可选多种执行机构

## Product Features

- The international standard ISO5211 is adopted for the actuator;
- Full-bore structure and lock device design;
- Excellent flow capacity, small flow resistance, and two-way sealing;
- Stem anti-popping structure, fireproof and anti-static design;
- Cavity with self-pressure relief;
- Seat with self-cleaning function;
- Multiple actuators are optional.

## 技术参数 Technical Parameters

|                            |                                                                 |
|----------------------------|-----------------------------------------------------------------|
| 公称通径 Nominal diameter      | DN200~DN600(8"~24")                                             |
| 压力等级 Pressure grade        | PN16~PN25 Class150~Class300                                     |
| 工作温度 Operating temperature | -40℃~425℃                                                       |
| 连接方式 Connection            | 法兰<br>Flange                                                    |
| 密封形式 Sealing               | RPTFE UHMWPE PEEK、全金属阀座                                         |
| 主要材质 Main materials        | 碳钢、不锈钢、特种合金<br>Carbon steel, stainless steel, and special alloy |

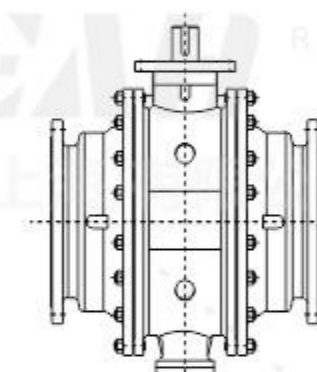
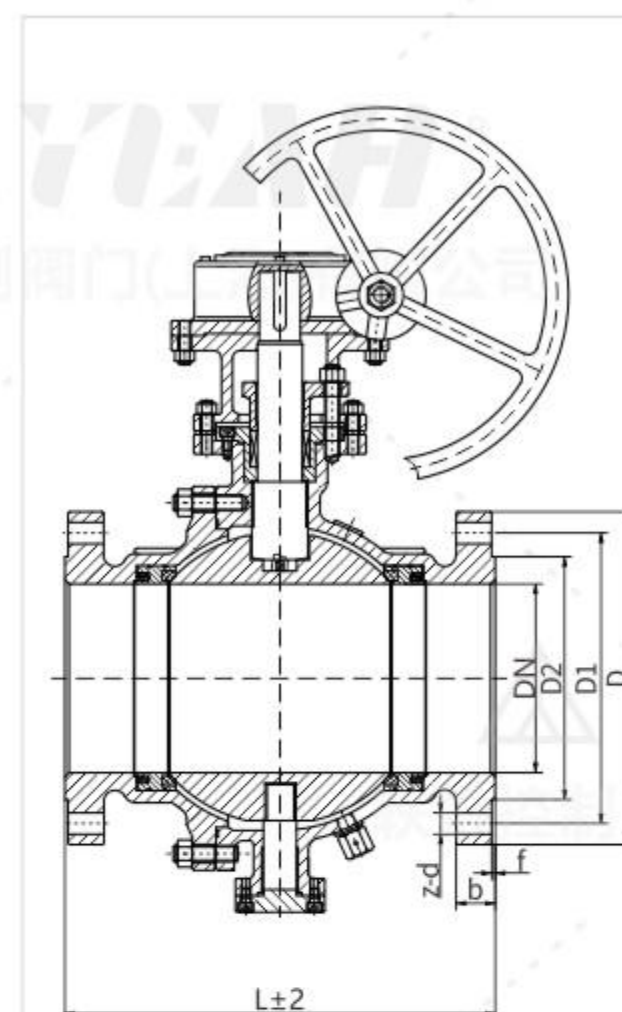
## 产品认证 Product Certification

TUV IEC61508-SIL3安全  
完整性功能认证  
TUV ISO15848低泄漏认证  
TUV API607防火认证

TUV IEC61508-SIL3 Certification  
of safety and integrated functions  
TUV ISO15848 Low-leakage  
certification  
TUV API607 Fireproofing certification



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DN400-DN600 三段式结构  
16"-24" Three-stage structure



## GB DN200-DN600-PN16

| DN  | L       | D   | D1  | D2  | b  | f | z-Φd   |
|-----|---------|-----|-----|-----|----|---|--------|
| 200 | 400/457 | 340 | 295 | 268 | 24 | 3 | 12-Φ22 |
| 250 | 533     | 405 | 355 | 320 | 26 | 3 | 12-Φ26 |
| 300 | 610     | 460 | 410 | 378 | 28 | 3 | 12-Φ26 |
| 350 | 686     | 520 | 471 | 438 | 30 | 3 | 16-Φ26 |
| 400 | 726     | 580 | 525 | 490 | 32 | 3 | 16-Φ30 |
| 450 | 864     | 640 | 585 | 550 | 40 | 3 | 20-Φ30 |
| 500 | 914     | 715 | 650 | 610 | 44 | 3 | 20-Φ33 |
| 600 | 1067    | 840 | 770 | 725 | 54 | 3 | 20-Φ36 |

## GB DN200-DN600-PN25

| DN  | L    | D   | D1  | D2  | b  | f | z-Φd   |
|-----|------|-----|-----|-----|----|---|--------|
| 200 | 502  | 360 | 310 | 278 | 34 | 3 | 12-Φ25 |
| 250 | 568  | 425 | 370 | 332 | 36 | 3 | 12-Φ30 |
| 300 | 648  | 485 | 430 | 390 | 40 | 4 | 16-Φ30 |
| 350 | 762  | 550 | 490 | 480 | 44 | 4 | 16-Φ34 |
| 400 | 838  | 610 | 550 | 505 | 48 | 4 | 16-Φ34 |
| 450 | 864  | 660 | 600 | 555 | 50 | 4 | 20-Φ34 |
| 500 | 991  | 730 | 660 | 610 | 52 | 4 | 20-Φ41 |
| 600 | 1067 | 840 | 770 | 718 | 56 | 5 | 20-Φ41 |

## ASME 8"-24"-150LB

| SIZE | L    | D   | D1    | D2  | b  | f   | z-Φd   |
|------|------|-----|-------|-----|----|-----|--------|
| 8"   | 457  | 343 | 298.5 | 270 | 29 | 1.6 | 8-Φ22  |
| 10"  | 533  | 406 | 362   | 324 | 31 | 1.6 | 12-Φ25 |
| 12"  | 610  | 483 | 432   | 381 | 32 | 1.6 | 12-Φ25 |
| 14"  | 686  | 533 | 476   | 413 | 35 | 1.6 | 12-Φ29 |
| 16"  | 762  | 597 | 540   | 470 | 37 | 1.6 | 16-Φ29 |
| 18"  | 864  | 635 | 578   | 533 | 40 | 1.6 | 16-Φ32 |
| 20"  | 914  | 699 | 635   | 584 | 43 | 1.6 | 20-Φ32 |
| 24"  | 1067 | 813 | 749.5 | 692 | 48 | 1.6 | 20-Φ35 |

## ASME 8"-24"-300LB

| SIZE | L    | D   | D1    | D2  | b    | f   | z-Φd   |
|------|------|-----|-------|-----|------|-----|--------|
| 8"   | 502  | 381 | 330   | 270 | 41.5 | 1.6 | 12-Φ25 |
| 10"  | 568  | 445 | 387.5 | 324 | 48   | 1.6 | 16-Φ29 |
| 12"  | 648  | 521 | 451   | 381 | 51   | 1.6 | 16-Φ32 |
| 14"  | 762  | 584 | 514.5 | 413 | 54   | 1.6 | 20-Φ32 |
| 16"  | 838  | 648 | 571.5 | 470 | 58   | 1.6 | 20-Φ35 |
| 18"  | 914  | 711 | 628.5 | 533 | 61   | 1.6 | 24-Φ35 |
| 20"  | 991  | 775 | 686   | 584 | 64   | 1.6 | 24-Φ35 |
| 24"  | 1143 | 914 | 813   | 692 | 70   | 1.6 | 24-Φ41 |