元恒鼎

SICHUAN YUANHENGDING

TRADING CO., LTD.

# 阀门设备
# PRODUCT MANUAL

VALVES

FOR SMART GAS NETWORKS & CUSTODY-TRANSFER METERING

**2010**
Founded in Sichuan · City-gas industry since 2010

**G1.6~G65**
Full range of diaphragm gas meters

**DN50~DN200**
Turbine & ultrasonic meters · NB-IoT remote reading

Marketing material · Products subject to final quotation

CATALOGUE 2026

## ABOUT YUANHENGDING COMPANY PROFILE

Founded in 2010 and headquartered in Sichuan, Sichuan Yuanhengding Trading Co., Ltd. (“Yuanhengding”) is a professional service provider dedicated to the city-gas sector, offering full-chain technical solutions. Its business spans the entire gas-engineering lifecycle — from front-end customised solution design and precise equipment & material selection and supply, to professional diagnosis, evaluation and digital upgrade of existing gas-network systems — delivering one-stop, turnkey services for clients across the gas industry chain.

Backed by years of industry experience, Yuanhengding has built a complete product and supply system covering pressure regulating equipment, metering instruments and flow meters, valves, automatic control equipment, and pipes & fittings. Its products are widely deployed in city gate stations, district regulating stations and industrial, commercial & residential gas distribution, meeting multi-level, multi-condition requirements from station-level projects down to end users.

The company's technical strength and delivery quality have earned recognition from a number of leading industry groups, and mature solutions are already running in many cities across the country. The company's legal representative holds a senior engineer title, is enrolled in the government expert pool and serves as an externally appointed government expert, providing solid assurance of technical authority and high-quality delivery.

Yuanhengding upholds the mission of “striving to deliver safer, more efficient and more reliable gas supply to users”. Guided by customer needs and driven by technological innovation, it continuously improves the safety, stability and cost-effectiveness of gas supply, aiming to become a leading benchmark enterprise of integrated gas services in China.

### CORE BUSINESS

Gas-engineering solution design · Equipment & material selection and supply · Network diagnosis & evaluation · IoT digital upgrade

### BENCHMARK CLIENTS

Core partners include PetroChina, China Resources Gas, The Hong Kong and China Gas Company (Towngas) and other leading groups

### QUALITY COMMITMENT

Rigorous engineering selection and full-process quality control; every unit strictly inspected before shipment, with responsive service support

© SICHUAN YUANHENGDING TRADING CO., LTD.

# PRODUCT CONTENTS

CONTENTS · VALVES


| Product Name | Page |
|---|---|
| **I. General Ball Valves** | |
| V-Type Ball Valve | 04 |
| Integral Flanged Ball Valve | 05 |
| Threaded Ball Valve | 06 |
| Metal-to-Metal Seated Ball Valve | 07 |
| Cast Steel Ball Valve (Floating / Trunnion Mounted) | 08 |
| Forged Steel Split-Body Ball Valve | 09 |
| Forged Steel Fully Welded Ball Valve | 10 |
| Track Ball Valve (Forced-Seal Ball Valve) | 11 |
| Three-Way & Four-Way Ball Valve | 12 |
| **II. Buried & PE Valves for Gas** | |
| City Gas Direct-Buried Ball Valve | 13 |
| Under-ground Welded Ball Valve | 14 |
| PE Forged-Steel Ball Valve | 15 |
| Hydropower Ball Valve | 16 |
| Pigging Valve | 17 |
| **III. Check & Vent Valves** | |
| Axial Flow Check Valve | 18 |
| Throttle Cut-off Vent Valve | 19 |


© SICHUAN YUANHENGDING TRADING CO., LTD.

# V-Type Ball Valve

Ball Valves · Precise Flow Control



Actual product appearance

## CORE PARAMETERS

| | |
|---|---|
| Nominal Size<br>**DN25~500 (1"~20")** | Pressure Rating<br>**CL150 / CL300 (ASME); PN10~PN40** |
| Design Type<br>**One-piece body · V-notched ball** | Connection Type<br>**Flanged, wafer type** |
| Applicable Medium<br>**Viscous media with fibres/fine particles; chemical, paper, petroleum, power, gas** | Medium Temperature<br>**-40℃~+250℃ (soft seat) / -40℃~+480℃ (metal seat)** |
| Body Material<br>**ASTM A351 CF8M (stainless) / ASTM A216 WCB (carbon steel)** | Ball & Seat Material<br>**Ball CF8/CF8M + hard chrome or Stellite; seat metal-to-metal or VITON/PTFE** |
| Operation<br>**Lever; worm-gear operator (pneumatic/electric optional)** | Design Standard |

## PRODUCT FEATURES

- One-piece body with V-notched ball; near-equal-percentage flow characteristic, usable as both regulating and isolating valve
- Spring-loaded seat with choice of soft or metal-to-metal sealing for reliable tightness
- Seat replacement without dismantling the valve
- Strong shearing action and self-cleaning design for viscous media containing fibres or fine particles
- Splined stem-to-ball connection for high torque capacity; self-lubricating bearings (TFE/PPL) for smooth operation
- Meets IEC 60534-4 and ANSI/FCI 70.2 Class IV leakage (Class V optional)

## Series Specification

| DN/inch | ASME 150 | ASME 300 | PN10 | PN16 | PN25 | PN40 |
|---|---|---|---|---|---|---|
| 25 / 1" | 108 / 3.6 | 124 / 4.9 | 115 / 4.6 | 115 / 4.6 | 115 / 4.6 | 115 / 4.6 |
| 40 / 1½" | 127 / 4.6 | 155 / 7.5 | 150 / 6.2 | 150 / 6.2 | 150 / 6.2 | 150 / 6.2 |
| 50 / 2" | 152 / 7.4 | 165 / 9.5 | 165 / 8.8 | 165 / 8.8 | 165 / 8.8 | 165 / 8.8 |
| 65 / 2½" | 185 / 13 | 185 / 13 | 185 / 13 | 185 / 13 | 185 / 13 | — |
| 80 / 3" | 191 / 14 | 210 / 19 | 200 / 16 | 200 / 16 | 200 / 16 | 200 / 16 |
| 100 / 4" | 229 / 21 | 254 / 29 | 220 / 18 | 220 / 18 | 235 / 21 | 235 / 21 |
| 150 / 6" | 279 / 39 | 318 / 54 | 285 / 37 | 285 / 37 | 300 / 42 | 300 / 42 |
| 200 / 8" | 343 / 62 | 381 / 83 | 340 / 56 | 340 / 60 | 360 / 64 | 375 / 71 |
| 250 / 10" | 406 / 91 | 450 / 139 | 405 / 85 | 405 / 84 | 425 / 101 | 450 / 125 |
| 300 / 12" | 483 / 142 | 520 / 199 | 460 / 124 | 460 / 123 | 485 / 148 | 520 / 182 |
| 350 / 14" | 534 / 203 | 584 / 284 | 505 / 178 | 520 / 183 | 555 / 223 | 580 / 266 |
| 400 / 16" | 597 / 264 | 648 / 355 | 565 / 234 | 580 / 239 | 620 / 290 | 660 / 346 |
| 500 / 20" | 699 / 430 | — | 670 / 415 | 715 / 435 | 730 / 530 | — |

Cell value: flange OD φB (mm) / weight (kg); "—" = not available in this rating. See selection data for full dimensions.

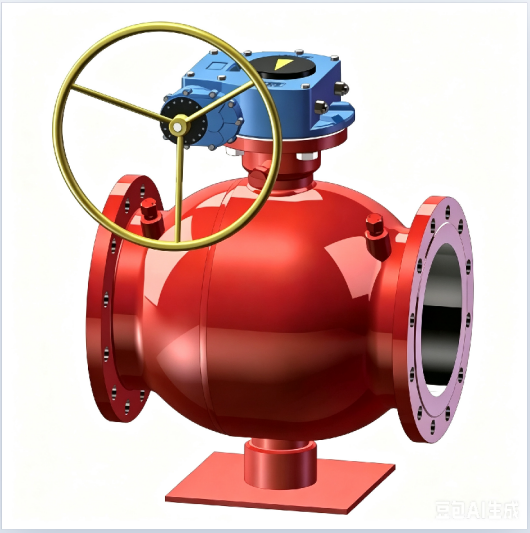
| Standard Price | MOQ | Monthly Capacity | Lead Time |
|---|---|---|---|
| On request · Final quotation to prevail | On request · Final quotation to prevail | On request · Final quotation to prevail | On request · Final quotation to prevail |

Specifications transcribed from product documentation; items not stated in the source are left blank. Refer to final selection data.

© SICHUAN YUANHENGDING TRADING CO., LTD.

# Integral Flanged Ball Valve

Ball Valves · One-piece forged body



Actual product appearance

## CORE PARAMETERS

| | |
|---|---|
| Nominal Size<br>**DN25~DN200 (NPS 1"~8")** | Pressure Rating<br>**ASME CL150; PN16** |
| Design Type<br>**One-piece floating-ball design, one-piece trunnion-mounted design** | Connection Type<br>**Flanged (raised face, RF)** |
| Applicable Medium | Medium Temperature |
| Body Material<br>**Hot-forged high-quality carbon steel (forging)** | Ball & Seat Material<br>**Trunnion type: metal-to-metal seat-to-ball sealing with anti-explosion rubber (AED) as soft seal** |
| Operation<br>**Lever; worm-gear operation (handwheel)** | Design Standard |

## PRODUCT FEATURES

- One-piece body formed by forging or pipe press-forming; no bolted joints, avoiding external leakage at body connections
- Active seat sealing: if the upstream seat is damaged, line pressure pushes the ball against the downstream seat
- Four-stage stem sealing (O-rings + thrust gasket); the outermost seal is replaceable in line
- Fire-safe design: double lip-shaped metal fire seal prevents internal leakage at the sealing face
- Anti-static: spring-loaded steel ball bonds ball and body, leading static charge to earth
- Anti-blow-out stem: bottom-entry stem is directly retained by the body, more reliable than bolted designs

## Series Specification

**Dimension table paste area**

Column names of the source dimension table cannot be confirmed; pending manual verification.

| Standard Price | MOQ | Monthly Capacity | Lead Time |
|---|---|---|---|
| On request · Final quotation to prevail | On request · Final quotation to prevail | On request · Final quotation to prevail | On request · Final quotation to prevail |

Parameters transcribed from product documentation; items not stated in the source (media, temperature, design standard) are left blank. Refer to final selection data.

© SICHUAN YUANHENGDING TRADING CO., LTD.

# Threaded Ball Valve

Ball Valves · Forged one-piece, threaded ends




Actual product appearance

## CORE PARAMETERS

| | |
|---|---|
| Nominal Size | Pressure Rating |
| Design Type<br>**One-piece welded body** | Connection Type<br>**Threaded (internal thread; end threads with protective groove)** |
| Applicable Medium | Medium Temperature |
| Body Material<br>**20# forged steel** | Ball & Seat Material<br>**Seat reinforced PTFE (RPTFE) + O-ring; stem O-ring + RPTFE rings + PTFE thrust washer** |
| Operation | Design Standard |

## PRODUCT FEATURES

- Body material changed from cast steel / malleable iron to 20# forged steel; one-piece welded body without leakage points
- Reinforced PTFE (RPTFE) seat with O-ring auxiliary sealing; seat grooves prevent deformation
- Triple stem sealing (one O-ring + two RPTFE rings); seals replaceable in line
- Specially designed travel stop ensures accurate open/close positioning and reliable sealing
- Packing gland ring is a steel ring + elastic rubber composite, reducing friction in operation
- Ends feature a groove protecting the threads from corrosion damage that could prevent removal

## Series Specification

**Dimension table paste area**

The source provides no dimension table; pending manual verification.

| Standard Price | MOQ | Monthly Capacity | Lead Time |
|---|---|---|---|
| On request · Final quotation to prevail | On request · Final quotation to prevail | On request · Final quotation to prevail | On request · Final quotation to prevail |

Parameters transcribed from product documentation; items not stated in the source (size / pressure range, media, temperature, operation, design standard) are left blank. Refer to final selection data.

© SICHUAN YUANHENGDING TRADING CO., LTD.

# Metal-to-Metal Seated Ball Valve

Ball Valves · Metal seat, high temperature



Actual product appearance

## CORE PARAMETERS

| | |
|---|---|
| Nominal Size<br>**DN15~DN700 (1/2"~28")** | Pressure Rating<br>**ANSI Class 150~2500 (PN16~PN420)** |
| Design Type<br>**Metal-to-metal hard seat; spring pre-loaded seat plus seat piston effect** | Connection Type<br>**Flanged (RF)** |
| Applicable Medium<br>**High-temperature fluids, highly abrasive dust, slurry, media with impact particles, solid contaminants; particle size 75μm~50mm** | Medium Temperature<br>**Metal seat withstands extreme temperature up to 500℃** |
| Body Material<br>**ASTM A216 WCB / A217 WC6 / A217 WC9 / A351 CF8M / A890 4A (cast or forged steel available)** | Ball & Seat Material<br>**Seat sealing face Stellite (STL); ball sealing face Stellite, tungsten-titanium coating or hard chrome; ball material A105 / A182 F11·F22·F316·F51** |
| Operation<br>**Worm-gear operation (manual/automatic operation shift available)** | Design Standard |

## PRODUCT FEATURES

- Seat sealing face in Stellite; ball sealing face available in Stellite, tungsten-titanium coating or hard chrome
- Spring pre-loaded seat ensures low-pressure tightness; high-pressure tightness is secured by the seat piston effect
- Metal seat withstands extreme temperature up to 500℃, with inherent fire-safe and anti-static behaviour
- Suitable for high-temperature fluids, highly abrasive dust, slurry, impact-particle media and solid contaminants
- Low flow resistance; 90° stem rotation for quick closing, facilitating automatic control
- Reliable long-term operation in media with particles from 75μm to 50mm

## Series Specification

**Dimension table paste area**

The source provides no dimension table; pending manual verification.

| Standard Price | MOQ | Monthly Capacity | Lead Time |
|---|---|---|---|
| On request · Final quotation to prevail | On request · Final quotation to prevail | On request · Final quotation to prevail | On request · Final quotation to prevail |

Parameters transcribed from product documentation; items not stated in the source (e.g. design standard) are left blank. Refer to final selection data.

© SICHUAN YUANHENGDING TRADING CO., LTD.

# Cast Steel Ball Valve (Floating / Trunnion Mounted)

Ball Valves · Cast steel, floating / trunnion mounted



Actual product appearance

## CORE PARAMETERS

| | |
|---|---|
| Nominal Size<br>**DN50~DN600 (NPS 2"~24")** | Pressure Rating<br>**PN16 / PN25 / PN40 / PN64 / PN100; ASME 150LB / 300LB / 400LB / 600LB** |
| Design Type<br>**Trunnion-mounted and floating designs; types GTCBV / WTCBV** | Connection Type<br>**Flanged (raised face, RF)** |
| Applicable Medium<br>**Non-corrosive, acid and normal corrosive media; for hazardous service such as hydrogen sulphide the composition must be defined for targeted selection** | Medium Temperature<br>**-29℃~120℃ (ambient condition); -46℃~120℃** |
| Body Material<br>**ASTM A216 WCB / A352 LCB·LCC / A351 CF8·CF3·CF8M·CF3M (by service condition)** | Ball & Seat Material<br>**Ball ASTM A105 / A350 LF2 / A182 F304·F304L·F316·F316L; seat VITON, PTFE, NYLON, DEVLON, PEEK** |
| Operation | Design Standard |

## PRODUCT FEATURES

- Available with trunnion-mounted and floating ball designs; types GTCBV / WTCBV
- Body, bonnet, ball and stem materials are configured for non-corrosive, acid and normal corrosive service
- Seat material options VITON, PTFE, NYLON, DEVLON, PEEK; springs in INCONEL X-750
- Structural options: anti-static (AS), fire-safe (FD), anti-blow-out stem (BPS) and double block and bleed (DDB)
- For hazardous service such as hydrogen sulphide, media composition must be defined for targeted material selection

## Series Specification

| NPS | DN | Type | PN16 | PN25 | PN40 | PN64 | PN100 | 150LB | 300LB | 400LB | 600LB |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2" | 50 | WTCBV | 178 | 216 | 216 | 292 | 292 | 178 | 216 | 292 | 292 |
| 2½" | 65 | WTCBV | 190 | 241 | 241 | 330 | 330 | 190 | 241 | 330 | 330 |
| 3" | 80 | WTCBV | 203 | 283 | 283 | 356 | 356 | 203 | 283 | 356 | 356 |
| 4" | 100 | GTCBV | 229 | 305 | 305 | 406 | 432 | 229 | 305 | 406 | 432 |
| 6" | 150 | GTCBV | 394 | 394 | 403 | 495 | 559 | 394 | 403 | 495 | 559 |
| 8" | 200 | GTCBV | 457 | 457 | 502 | 597 | 660 | 457 | 502 | 597 | 660 |
| 10" | 250 | GTCBV | 533 | 533 | 568 | 673 | 787 | 533 | 568 | 673 | 787 |
| 12" | 300 | GTCBV | 610 | 610 | 648 | 762 | 838 | 610 | 648 | 762 | 838 |
| 14" | 350 | GTCBV | 686 | 686 | 762 | 826 | 889 | 686 | 762 | 826 | 889 |
| 16" | 400 | GTCBV | 762 | 762 | 838 | 902 | 991 | 762 | 838 | 902 | 991 |
| 18" | 450 | GTCBV | 864 | 864 | 914 | 978 | 1092 | 864 | 914 | 978 | 1092 |
| 20" | 500 | GTCBV | 914 | 914 | 991 | 1054 | 1194 | 914 | 991 | 1054 | 1194 |
| 24" | 600 | GTCBV | 1067 | 1067 | 1143 | 1232 | 1397 | 1067 | 1143 | 1232 | 1397 |

Cell value: face-to-face length L (mm); header restored from merged cells of the source table (nominal size → NPS/DN, type, L → each pressure class). The source NPS cell "16" lacked the inch mark and was completed as 16" per the column format.

| Standard Price | MOQ | Monthly Capacity | Lead Time |
|---|---|---|---|
| On request · Final quotation to prevail | On request · Final quotation to prevail | On request · Final quotation to prevail | On request · Final quotation to prevail |

Parameters transcribed from product documentation; items not stated in the source (operation, design standard) are left blank. Refer to final selection data.

© SICHUAN YUANHENGDING TRADING CO., LTD.

# Forged Steel Split-Body Ball Valve

Ball Valves · Forged Split-Body



Actual product appearance

## CORE PARAMETERS

| | |
|---|---|
| Nominal Size<br>**NPS2"~40" (DN50~1000)** | Pressure Rating<br>**ASME CL150 / CL300 / CL400 / CL600; PN16~PN100** |
| Design Type<br>**Split-body (two-piece) · Trunnion-mounted / floating** | Connection Type<br>**Flanged, butt-welded (BW), RTJ** |
| Applicable Medium<br>**Non-corrosive, acid and normal-corrosion service media** | Medium Temperature<br>**-46℃~120℃ (low temperature) / -29℃~120℃ (ambient)** |
| Body Material<br>**ASTM A105 / ASTM A350 LF2 / ASTM A182 F304/F304L/F316/F316L** | Ball & Seat Material<br>**Ball ASTM A105 / A350 LF2 / A182 F304/F304L/F316/F316L; seat VITON, PTFE, NYLON, DEVLON, PEEK** |
| Operation<br>**Manual (lever); worm gearbox; pneumatic or electric on request** | Design Standard |

## PRODUCT FEATURES

- Split-body construction, available in trunnion-mounted and floating versions
- Grease-injection and check valves for emergency sealing
- Anti-static design — ball, stem and body are conductively connected
- Safety relief feature; reliable sealing under fire conditions
- Drain and vent valves for pipe cleaning and discharge
- Extension stem for buried-service operation

## Series Specification

**Dimension table paste area**

Column names of the source dimension table cannot be confirmed; pending manual verification

| Standard Price | MOQ | Monthly Capacity | Lead Time |
|---|---|---|---|
| On request · Final quotation to prevail | On request · Final quotation to prevail | On request · Final quotation to prevail | On request · Final quotation to prevail |

Specifications transcribed from product documentation; items not stated in the source are left blank. Refer to final selection data.

© SICHUAN YUANHENGDING TRADING CO., LTD.

# Forged Steel Fully Welded Ball Valve

Ball Valves · Fully Welded Body



Actual product appearance

## CORE PARAMETERS

| | |
|---|---|
| Nominal Size<br>**1/2" (15mm)~48" (1200mm)** | Pressure Rating<br>**ANSI150~2500 (PN10~PN420)** |
| Design Type<br>**Fully welded body · Trunnion-mounted** | Connection Type<br>**Butt-welded, flanged, butt-welded & flanged** |
| Applicable Medium<br>**Non-corrosive and acid-corrosive service media** | Medium Temperature<br>**-46℃~120℃ (low temperature) / -29℃~120℃ (ambient)** |
| Body Material<br>**ASTM A105 / ASTM A350 LF2** | Ball & Seat Material<br>**Ball ASTM A105 / A350 LF2; seat VITON, PTFE, NYLON, DEVLON, PEEK** |
| Operation<br>**Manual, pneumatic, electric, hydraulic, pneumatic-hydraulic** | Design Standard |

## PRODUCT FEATURES

- Fully welded body eliminates external leakage; suitable for buried installation
- Anti-static design — all internal metal parts conductively connected to the body
- Fireproof design; metal backup seal controls leakage after high-temperature damage
- Relief, vent, drain and grease valves provided as lead-out accessories
- Extension stem and transition pups available to customer specification
- Full bore or reduced (Venturi) bore available

## Series Specification

**Dimension table paste area**

Column names of the source dimension table cannot be confirmed; pending manual verification

| Standard Price | MOQ | Monthly Capacity | Lead Time |
|---|---|---|---|
| On request · Final quotation to prevail | On request · Final quotation to prevail | On request · Final quotation to prevail | On request · Final quotation to prevail |

Specifications transcribed from product documentation; items not stated in the source are left blank. Refer to final selection data.

© SICHUAN YUANHENGDING TRADING CO., LTD.

# Track Ball Valve (Forced-Seal Ball Valve)

Ball Valves · Frictionless Forced Seal



Actual product appearance

## CORE PARAMETERS

| | |
|---|---|
| Nominal Size<br>**NPS2"~24" (DN50~600)** | Pressure Rating<br>**ASME CL150~CL2500Lb (PN10~PN420)** |
| Design Type<br>**Top-entry trunnion-mounted integral body · replaceable single seat; track-type frictionless design** | Connection Type<br>**Flanged, RF face** |
| Applicable Medium<br>**Crude oil, product oil, feed gas, natural gas, coal gas, hydrocarbons, alkanes, light oil, sewage** | Medium Temperature<br>**-46℃~425℃** |
| Body Material<br>**ASTM A216 WCB/WCC, ASTM A105 / ASTM A352 LCB/LCC, ASTM A350 LF2 / ASTM A351 CF8/CF3/CF8M/CF3M, ASTM A182 F304/F304L/F316/F316L** | Ball & Seat Material<br>**Ball ASTM A216 WCB/WCC, ASTM A105 / A352 LCB/LCC, A350 LF2 / A351 CF8/CF3/CF8M/CF3M, A182 F304/F304L/F316/F316L; seat metal hard seal or metal + elastic composite seal** |
| Operation<br>**Handwheel manual; bevel-gear manual; electric actuator** | Design Standard<br>**API6D, ASME B16.34** |

## PRODUCT FEATURES

- Ball moves off the seat and rotates without friction; low torque and smooth operation
- Medium flushes the sealing face through 360° — self-cleaning seat resists impurity build-up
- Stem wedge mechanically presses the ball onto the seat for reliable forced sealing
- Top-entry trunnion type with replaceable single seat; retaining-ring design for in-line maintenance
- Metal hard seal or metal + elastic composite seal; ball face overlay-welded and polished
- Anti-blowout stem, adjustable packing gland and emergency grease-injection sealing

## Series Specification

**Dimension table paste area**

Column names of the source dimension table cannot be confirmed; pending manual verification

| Standard Price | MOQ | Monthly Capacity | Lead Time |
|---|---|---|---|
| On request · Final quotation to prevail | On request · Final quotation to prevail | On request · Final quotation to prevail | On request · Final quotation to prevail |

Specifications transcribed from product documentation; items not stated in the source are left blank. Refer to final selection data.

© SICHUAN YUANHENGDING TRADING CO., LTD.

# Three-Way & Four-Way Ball Valve

Ball Valves · Diverting & Switching



Actual product appearance

## CORE PARAMETERS

| | |
|---|---|
| Nominal Size<br>**DN15~300 (1/2"~12")** | Pressure Rating<br>**ASME CL150 / CL300** |
| Design Type<br>**L-type / T-type 3-way (3-way 2/3-port); X-type 4-way (4-side seat)** | Connection Type<br>**Flanged RF (end flange to ASME CLASS 150Lb; GB/JB/HG)** |
| Applicable Medium<br>**Petroleum, chemical, natural gas, metallurgy, paper-making, pharmaceutical, food, water supply & drainage** | Medium Temperature |
| Body Material<br>**WCB / CF8 / CF8M** | Ball & Seat Material<br>**Ball Cr13/304/316; seat reinforced PTFE, PPL or VITON-HARD (dual sealing)** |
| Operation<br>**Lever, worm gear, pneumatic, electric** | Design Standard |

## PRODUCT FEATURES

- Full range of flow passages: L-type (3-way 2-port), T-type (3-way 3-port) and X-type four-way (2-position, 4-port)
- Reinforced PTFE, PPL or VITON-HARD seats with dual sealing for reliable tightness
- X-type four-way valve with four-side seat — balanced loading and stable diversion
- Open/close positions can be locked to prevent mis-operation
- Various actuation: lever, worm gear, pneumatic, electric
- Flow direction indicated by the scale on the stem top or by an arrow nameplate

## Series Specification

| Size mm | Size INCH | L 150LB | L 300LB | H | H1 | Y | A | W | W1 |
|---|---|---|---|---|---|---|---|---|---|
| 15 | 1/2" | 70 | — | 45 | — | — | — | 150 | — |
| 20 | 3/4" | 165 | — | 76 | — | — | — | 180 | — |
| 25 | 1" | 165 | — | 76 | — | — | — | 180 | — |
| 40 | 1½" | 250 | — | 118 | — | — | — | 650 | — |
| 50 | 2" | 260 | 260 | 128 | — | — | — | 650 | — |
| 65 | 2½" | 320 | — | 165 | — | — | — | 1100 | — |
| 80 | 3" | 350 | 380 | 162 | — | — | — | 650 | — |
| 100 | 4" | 390 | — | — | 227 | 85 | 294 | — | 450 |
| 125 | 5" | 510 | — | — | 248 | 85 | 294 | — | 450 |
| 150 | 6" | 580 | 680 | — | 396 | 115.5 | 350 | — | 600 |
| 200 | 8" | 670 | 715 | — | 426 | 115.5 | 350 | — | 600 |
| 250 | 10" | 740 | 780 | — | 476 | 144.5 | 437 | — | 600 |
| 300 | 12" | 864 | 910 | — | 501 | 144.5 | 437 | — | 600 |

End flange dimensions to ASME CLASS 150Lb; GB, JB, HG. Unit: mm; "—" = not listed in source table.

| Standard Price | MOQ | Monthly Capacity | Lead Time |
|---|---|---|---|
| On request · Final quotation to prevail | On request · Final quotation to prevail | On request · Final quotation to prevail | On request · Final quotation to prevail |

Specifications transcribed from product documentation; items not stated in the source are left blank. Refer to final selection data.

© SICHUAN YUANHENGDING TRADING CO., LTD.

# City Gas Direct-Buried Ball Valve

Buried Gas Service · Fully Welded Ball Valve



Actual product appearance

## CORE PARAMETERS

| | |
|---|---|
| Nominal Size<br>**2" (50mm)~14" (350mm)** | Pressure Rating<br>**ANSI150~400 (PN10~PN63)** |
| Design Type<br>**Fully welded body · double seat (double piston effect), DBB seat structure** | Connection Type<br>**Butt-welded, butt-welded & flanged, flanged, threaded** |
| Applicable Medium<br>**City gas, district heating and natural gas pressure-regulating pipeline media** | Medium Temperature |
| Body Material | Ball & Seat Material |
| Operation<br>**Worm gear operation** | Design Standard |

## PRODUCT FEATURES

- Fully welded body eliminates external leakage; suitable for direct deep burial
- DBB seat structure with double block and bleed; self-relieving and bi-directional sealing
- Four-layer stem sealing structure for safe, reliable stem tightness
- Compact body for easy buried installation without large valve pits or chambers
- Body length and stem height adjustable to suit construction requirements
- Above-ground operation — no need to enter the excavation; safe and convenient

## Series Specification

| DN | D | L1 | L | H1 | H2 | H | Remark |
|---|---|---|---|---|---|---|---|
| 50 | 50 | 120 | 300 | 120 | 51 | | Customer specified |
| 80 | 76 | 120 | 350 | 150 | 75 | | |
| 100 | 100 | 140 | 450 | 170 | 97 | | |
| 150 | 152 | 210 | 600 | 240 | 180 | | |
| 200 | 201 | 330 | 700 | 288 | 210 | | |
| 250 | 252 | 300 | 800 | 310 | 250 | | |
| 300 | 304 | 280 | 800 | 354 | 300 | | |
| 350 | 334 | 350 | 1000 | 380 | 378 | | |
| 400 | 426 | 400 | 1355 | 414 | 421 | | |

Dimensions in mm; pressure class PN≤25; columns are DN, D, L1, L, H1, H2, H, Remark; other sizes available on request.

| Standard Price | MOQ | Monthly Capacity | Lead Time |
|---|---|---|---|
| On request · Final quotation to prevail | On request · Final quotation to prevail | On request · Final quotation to prevail | On request · Final quotation to prevail |

Specifications transcribed from product documentation; items not stated in the source are left blank. Refer to final selection data.

© SICHUAN YUANHENGDING TRADING CO., LTD.

# Under-ground Welded Ball Valve

Buried Gas Service · Fully Welded Ball Valve



Actual product appearance

## CORE PARAMETERS

| | |
|---|---|
| Nominal Size<br>**1/2"~12" (DN15~300)** | Pressure Rating<br>**ANSI 150~400 (CL150~CL400); PN16~PN63** |
| Design Type<br>**Fully welded body · full bore / reduced bore · DBB double seat** | Connection Type<br>**Butt-welded (BW)** |
| Applicable Medium<br>**City gas, district heating and trunk/main pipeline media** | Medium Temperature |
| Body Material | Ball & Seat Material<br>**Seat VITON / DEVLON; spring-loaded seat combining soft sealing material with a metal retainer, with metal-to-metal auxiliary fire-safe sealing** |
| Operation<br>**Worm-gear operation (with/without gearbox); extended stem** | Design Standard |

## PRODUCT FEATURES

- Fully welded body eliminates external leakage
- DBB seat design with double block and bleed and two-way sealing
- Spring-loaded seat: spring preload seals at low pressure, piston effect at high pressure
- Soft sealing material combined with a metal retainer provides metal-to-metal auxiliary fire-safe sealing
- Four-layer stem sealing; the packing is removable and replaceable
- Longer body length facilitates butt welding on site

## Series Specification

| DN | D | L1 | L | H1 | H2 | H | Remark |
|---|---|---|---|---|---|---|---|
| 50 | 50 | 62 | 300 | 100 | 61 | Customer-specified | |
| 80 | 76 | 78 | 350 | 125 | 83 | | |
| 100 | 100 | 102 | 450 | 165 | 106 | | |
| 150 | 152 | 141 | 600 | 210 | 245 | | |
| 200 | 201 | 155 | 700 | 250 | 288 | | |
| 250 | 252 | 180 | 800 | 290 | 325 | | |
| 300 | 304 | 146 | 800 | 325 | 365 | | |
| 350 | 336 | 250 | 1000 | 370 | 388 | | |

Cell values: D/L1/L/H1/H2/H in mm; "Customer-specified" means determined by the customer; the Remark column is blank in the source.

| Standard Price | MOQ | Monthly Capacity | Lead Time |
|---|---|---|---|
| On request · Final quotation to prevail | On request · Final quotation to prevail | On request · Final quotation to prevail | On request · Final quotation to prevail |

Specifications transcribed from product documentation; items not stated in the source are left blank. Refer to final selection data.

© SICHUAN YUANHENGDING TRADING CO., LTD.

# PE Forged-Steel Ball Valve

Buried Gas Service · Steel–PE Ball Valve



Actual product appearance

## CORE PARAMETERS

| | |
|---|---|
| Nominal Size | Pressure Rating<br>**PN≤16; working pressure P≤0.4 MPa** |
| Design Type<br>**Steel–PE composite · forged-steel ball valve body · two-way sealing seat** | Connection Type<br>**PE pipe connection (threaded with metal sheath); hot-melt / electrofusion welding on site** |
| Applicable Medium<br>**Gas (suitable for direct burial)** | Medium Temperature |
| Body Material<br>**Forged steel** | Ball & Seat Material<br>**Metal composite sealing seat (fire-safe): after the soft seal burns away the metal seat presses the ball into a metal-to-metal seal; stem with back-seat and O-ring sealing** |
| Operation<br>**Handle / T-wrench; worm gearbox (optional); extended operating stem** | Design Standard |

## PRODUCT FEATURES

- Steel–PE composite: forged-steel ball valve body with PE pipe connection ends
- Two-way sealing seat structure for reliable tightness
- Fire-safe: after the soft seal burns away, the metal seat presses the ball into a metal-to-metal seal
- Blow-out-proof stem with back seat and O-ring sealing; low operating torque
- Threaded connection to the PE pipe, secured by a metal sheath
- Suitable for direct burial; hot-melt or electrofusion jointing on site

## Series Specification

| DN | Pipe | L | L1 | H | Remark |
|---|---|---|---|---|---|
| 50 | ϕ50x4.6 | 500 | 122 | Customer-specified | |
| 63 | 中63x5.8 | 550 | 125 | | |
| 75 | ϕ75x6.8 | 600 | 129 | | |
| 90 | ϕ90x8.2 | 700 | 150 | | |
| 110 | ϕ110x10.0 | 800 | 183 | | |
| 160 | ϕ160x14.6 | 900 | 185 | | |
| 200 | ϕ200x18.2 | 1100 | 253 | | |
| 225 | 中225×20.5 | 1250 | 302 | | |
| 250 | ϕ250x22.7 | 1300 | 302 | | |
| 315 | ϕ315x28.6 | 1400 | 307 | | |
| 400 | ϕ400x36.4 | 1600 | 337 | | |
| 450 | ϕ450x40.9 | 2100 | 500 | | |

Cell values: Pipe = PE pipe size (OD × wall thickness); L, L1, H in mm; "Customer-specified" means determined by the customer; L1 is a default value, the length may be specified by the customer; the Remark column is blank in the source.

| Standard Price | MOQ | Monthly Capacity | Lead Time |
|---|---|---|---|
| On request · Final quotation to prevail | On request · Final quotation to prevail | On request · Final quotation to prevail | On request · Final quotation to prevail |

Specifications transcribed from product documentation; items not stated in the source are left blank. Refer to final selection data.

© SICHUAN YUANHENGDING TRADING CO., LTD.

# Hydropower Ball Valve

Hydropower · Turbine Inlet Ball Valve



Actual product appearance

## CORE PARAMETERS

| | |
|---|---|
| Nominal Size | Pressure Rating |
| Design Type<br>**Full bore · horizontal shaft arrangement · separate working and maintenance seals (metal sealing)** | Connection Type<br>**Recessed (female) flange (FM)** |
| Applicable Medium<br>**Water with relatively high sediment content** | Medium Temperature |
| Body Material | Ball & Seat Material<br>**Metal sealing; the hydraulically controlled sealing ring is stainless steel, and the sliding surfaces against body and end cover are overlaid with corrosion-resistant stainless steel** |
| Operation<br>**Hydraulic (electric optional); local manual or remote programmed control** | Design Standard |

## PRODUCT FEATURES

- Full-bore design with low flow resistance
- Horizontal shaft arrangement, convenient for on-site operation and observation
- Separate working and maintenance seals with mechanical safety lock and on-line maintenance capability
- Metal sealing: the sealing ring is engaged or disengaged under hydraulic control
- Stainless steel sealing ring with corrosion-resistant stainless overlay on the sliding surfaces of body and end cover
- Bypass system and expansion joint ease dynamic water vibration and simplify installation and removal

## Series Specification

Dimension table paste area

源资料无尺寸表,待人工补充

| Standard Price | MOQ | Monthly Capacity | Lead Time |
|---|---|---|---|
| On request · Final quotation to prevail | On request · Final quotation to prevail | On request · Final quotation to prevail | On request · Final quotation to prevail |

Specifications transcribed from product documentation; items not stated in the source are left blank. Refer to final selection data.

© SICHUAN YUANHENGDING TRADING CO., LTD.

# Pigging Valve

Buried & PE Valves · Pipeline Pigging



Actual product appearance

## CORE PARAMETERS

| | |
|---|---|
| Nominal Size<br>**NPS 2"~24" (DN50~600)** | Pressure Rating<br>**ASME CL150~CL1500 (PN16~PN220)** |
| Design Type<br>**Integrated pig launching/receiving ball valve (2-position shut-off) · quick-opening cover with tooth-pattern connection** | Connection Type<br>**Flanged (ANSI B16.5); butt-welded (ANSI B16.25)** |
| Applicable Medium<br>**Oil & gas transmission media (general / sulfur-resistant series)** | Medium Temperature<br>**-29℃~+180℃ (carbon steel) / -46℃~+121℃ (low-temp. steel)** |
| Body Material<br>**A216-WCB (carbon steel); A352-LCC (low-temp.); A351-CF8/CF8M (stainless)** | Ball & Seat Material<br>**Ball A105/A216-WCB+HCr, A182-F316; seat PTFE/NYLON/VITON/PPL** |
| Operation<br>**Bevel gear (gearbox) as standard; electric / pneumatic actuators optional** | Design Standard<br>**API 6D, ANSI B16.34; testing API 598, GB/T 13927 (sulfur-resistant: NACE MR01-75)** |

## PRODUCT FEATURES

- Integrates pig launching/receiving with a two-position shut-off ball valve, replacing conventional launcher/receiver systems
- Quick-opening port cover with tooth-pattern connection and rocker hinge on larger sizes
- Vent valve interlocked with the cover locking pin — cover cannot be opened before pressure release
- Flushing valve and drain valve can be fitted for washing the body cavity; suitable for toxic media
- Low operating torque with gear transmission; electric or pneumatic actuators optional
- General and sulfur-resistant series; sulfur-resistant valves manufactured to NACE MR01-75

## Series Specification

| NPS | DN | L RF | L RJ | H | H1 | H2 | W | L RF | L RJ | H | H1 | H2 | W | L RF | L RJ | H | H1 | H2 | W |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 50 | 368 | 371 | 108 | 450 | 535 | 300 | 368 | 371 | 108 | 450 | 535 | 300 | 451 | 454 | 118 | 455 | 545 | 300 |
| 3 | 80 | 381 | 384 | 120 | 480 | 580 | 350 | 470 | 473 | 130 | 485 | 590 | 350 | 578 | 584 | 160 | 500 | 600 | 400 |
| 4 | 100 | 457 | 460 | 145 | 560 | 680 | 400 | 546 | 549 | 155 | 570 | 695 | 500 | 673 | 683 | 180 | 580 | 700 | 460 |
| 6 | 150 | 610 | 613 | 200 | 670 | 1000 | 460 | 705 | 711 | 200 | 670 | 1000 | 460 | 914 | 927 | 245 | 670 | 1070 | 520 |
| 8 | 200 | 737 | 740 | 235 | 740 | 1070 | 460 | 832 | 841 | 245 | 750 | 1080 | 460 | 1022 | 1038 | 280 | 750 | 1210 | 600 |
| 10 | 250 | 838 | 841 | 290 | 760 | 1160 | 520 | 991 | 1000 | 300 | 800 | 1200 | 520 | — | — | — | — | — | — |
| 12 | 300 | 965 | 968 | 320 | 900 | 1300 | 520 | 1130 | 1146 | 350 | 950 | 1410 | 600 | — | — | — | — | — | — |
| 14 | 350 | 1029 | 1038 | 360 | 1050 | 1510 | 600 | 1257 | 1276 | 400 | 1100 | 1605 | 700 | — | — | — | — | — | — |
| 16 | 400 | 1130 | 1140 | 400 | 1100 | 1575 | 650 | — | — | — | — | — | — | — | — | — | — | — | — |
| 18 | 450 | 1219 | 1232 | 450 | 1320 | 1825 | 700 | — | — | — | — | — | — | — | — | — | — | — | — |
| 20 | 500 | 1321 | 1334 | 490 | 1600 | 2105 | 700 | — | — | — | — | — | — | — | — | — | — | — | — |
| 24 | 600 | 1549 | 1568 | 640 | 2195 | 2790 | 800 | — | — | — | — | — | — | — | — | — | — | — | — |

Columns: ASME CL900 / CL1500 / CL2500, six columns each (face-to-face L in RF and RJ, H, H1, H2, W). Unit: mm; "—" = not listed in source table.

| Standard Price | MOQ | Monthly Capacity | Lead Time |
|---|---|---|---|
| On request · Final quotation to prevail | On request · Final quotation to prevail | On request · Final quotation to prevail | On request · Final quotation to prevail |

Specifications transcribed from product documentation; items not stated in the source are left blank. Refer to final selection data.

© SICHUAN YUANHENGDING TRADING CO., LTD.

# Axial Flow Check Valve

Pipelines · Axial Flow Check Valve




Actual product appearance

## CORE PARAMETERS

| | |
|---|---|
| Nominal Size<br>**NPS 1/2"~24"** | Pressure Rating<br>**ASME CL150~CL2500; PN10~PN420** |
| Design Type<br>**Axial flow · one-piece fully welded body (recommended) · split-type seat** | Connection Type<br>**Flanged (RF facing)** |
| Applicable Medium<br>**Oil, natural gas and other liquids and gases** | Medium Temperature<br>**-46℃~425℃** |
| Body Material<br>**ASTM A216 WCB/WCC, ASTM A105; ASTM A352 LCB/LCC, ASTM A350 LF2; ASTM A351 CF8/CF3/CF8M/CF3M, ASTM A182 F304/F316** | Ball & Seat Material<br>**Disc sealing ring RPTFE/MOLON/PEEK; spring Inconel X750; shaft and sleeve 20Cr13 or ASTM A182 F304/F316** |
| Operation<br>**Automatic (disc actuated by inlet/outlet pressure difference)** | Design Standard<br>**API 6D, ASME B16.34, GB/T 21387** |

## PRODUCT FEATURES

- Forged one-piece fully welded body for reliable strength and sealing
- Low pressure drop; short disc travel on large sizes allows fast closing
- Smooth valve cavity reduces water-hammer impact, vibration and noise
- Conical seat sealing face facilitates purging and removal of dirt
- Dual soft/hard sealing; metal hard sealing available for high-pressure service
- Horizontal or vertical installation (horizontal recommended); compact and maintenance-free

## Series Specification

Dimension table paste area

源资料尺寸表列名无法确证,待人工确认

| Standard Price | MOQ | Monthly Capacity | Lead Time |
|---|---|---|---|
| On request · Final quotation to prevail | On request · Final quotation to prevail | On request · Final quotation to prevail | On request · Final quotation to prevail |

Specifications transcribed from product documentation; items not stated in the source are left blank. Refer to final selection data.

© SICHUAN YUANHENGDING TRADING CO., LTD.

# Throttle Cut-off Vent Valve

Oil & Gas Venting · Throttle Cut-off Valve




Actual product appearance

## CORE PARAMETERS

| | |
|---|---|
| Nominal Size | Pressure Rating |
| Design Type<br>**Soft + hard (dual) sealing · cage sleeve with built-in balanced plug · pressure-buffering zone** | Connection Type |
| Applicable Medium<br>**Oil and gas media (venting and drainage service)** | Medium Temperature |
| Body Material | Ball & Seat Material<br>**Soft seal: explosion-proof fluororubber ring; hard seal: hard-alloy or tungsten-carbide overlay welded (or sprayed) on the seat and disc cones; stem sealing by rubber O-rings and self-tightening V-shaped PTFE packing with sealing grease** |
| Operation<br>**Handwheel; worm-gear operation optional** | Design Standard |

## PRODUCT FEATURES

- Smooth body passage reduces resistance and vibration
- Conical seat sealing face facilitates purging and removal of dirt
- Dual soft/hard sealing: the soft seal engages first, then the hard seal
- Pressure-buffering zone design increases the usable differential pressure
- Diverted flow path weakens direct erosion of the sealing faces
- Cage sleeve with built-in balanced plug for light, flexible and stable operation

## Series Specification

Dimension table paste area

源资料尺寸表列名无法确证,待人工确认

| Standard Price | MOQ | Monthly Capacity | Lead Time |
|---|---|---|---|
| On request · Final quotation to prevail | On request · Final quotation to prevail | On request · Final quotation to prevail | On request · Final quotation to prevail |

Specifications transcribed from product documentation; items not stated in the source are left blank. Refer to final selection data.

© SICHUAN YUANHENGDING TRADING CO., LTD.