Fully Welded Body Ball Valves , Soft / Metal Seated Ball Valves

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: OEM
- Certification: API, ISO, CE, GOST, TS, BS1873, BS5351, API 6D,600,602,609, ASME B16.34, API 6FA, API607 etc
- Model Number: 1/2"-56",CL150-2500,API 2000-15000
- Minimum Order Quantity: 1
- Price: Negotiable
- Packaging Details: Plywood Cases
- Delivery Time: 15-60 Days
- Payment Terms: L/C, T/T
- Supply Ability: Based On Order

Product Specification

- Size: NPS 1/2"~56"
- Pressure Rating: Class 150~2500,API 2000-15000
- Material: A105, LF2, F304, F316,F304L, F316L,F51,A106-B, 20# Etc
- Design & Manufacturing Standard: API 6A, API 6D, API 6DSS, KS,BS 5351, ASME B16.34
- Face To Face: ASME B16.10, API 6D
- End Connection: ASME B16.5, ASME B16.47, ASME B16.25
- Test And Inspection: ISO 5208, API 6D, API598
- Operation Method: Manual ,Worm Gear, Electric Actuator, Pneumatic Actuator
- Highlight: **fully welded body ball valves**

Our Product Introduction

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Product Description

Fully welded ball valve with soft or metal seat 1/2"-56", CL150-2500

fully welding ball valves design characteristic:
Side Entry ball valves are used in pipelines, pumping and compression stations, offshore, onshore, subsea and cryogenic as well as abrasive and high temp applications.
The extensive size range and pressure class are available in a variety of materials including Carbon, Alloy & Stainless steel suitable for general to severe service conditions.
The fully welding ball valves are available with Double Block & Bleed independent of the seat type.
Single piston effect (SPE) is the standard feature for the seat rings of the fully welding ball valves.
On a SPE seat ring: The pressure acting on the upstream side of the seat ring generates a force which push the seat towards the ball.The pressure acting on the downstream side of the seat ring generates a force which pull the seat ring away from the ball.
Any overpressure which may be generated by the thermal expansion of the fluid trapped in the body cavity with the ball in fully closed position, will be automatically discharged in the line on the lower pressure side.
Double piston effect (DPE) is a standard feature for the seat rings of the fully welding ball valves & recommended for welded body valves. On a DPE seat ring, both the pressure acting on the upstream side of the seat ring and the pressure acting on the down stream side of the seat ring, generate a force which push the seat towards the ball. With this type of seat ring, the eventual overpressure which may be generated by the thermal expansion of the fluid trapped in the body cavity with the ball in fully closed position, can be discharged by the use of an external safety relief device. The Double Piston Effect grants a double sealing feature, if the upstream seat ring is damaged, the down stream seat grant the sealing feature of the valve.
Valves is famous for manufacturing fully welded ball valves in China market, we have made 56"CL600 fully welded ball valves for Iran market, a special technique was performed so that post welding heat treatment is not required so soft seals will not to be damaged during the welding process to make sure the seals good performance.

One-piece body, full bore/reduced bore, trunnion mounted, double block and bleed, single or double piston effect, anti-blow out stem, anti-static device, fire-safe certified to API-607/6FA/ISO 10497, spring loaded Seats, sealant injection, NACE MR-01-75, NYLON, DEVLON&PEEK seat inserts, designed and tested according to ASME B16.34, BS5351,KS and API-6D.

fully welded ball valve, widely used in urban underground gas pipelines,natural gas pipelines and pressure regulating stations and other fields.In the past years,through continuous research and innovation and improvement of product quality.

fully welded ball valve,due to the overall structure of the valve fully welded construction using technology to make the valve, the outer seal has been greatly improved, the valve's weight has been greatly reduced (especially DN300 or less) so that the valve installation becomes more convenient, not only reduces the cost of construction, but also saves time.

fully welded ball valve,can be directly buried underground. Do not set the underground valve control room, so that operations do not need to go into the ground, just drive operation can be carried out on the ground with a T-handle,very easy to avoid the past due to the underground valve control room set up and there hidden dangers.

fully welded ball valve,the valve can be designed in different height for your users based on the depth of buried gas pipeline.Meanwhile,also according to the different needs of users connected to the valve port,you design a variety of port connections for you to choose from.

Structural characteristics and advantages for Full weled ball valve:
1. Anti-leaking stem
In order to prevent the stem fly cause abnormal elevation of internal pressure valves, dry shoulder fixed lower portion. Further, in order to prevent leakage resulting from burnout stem packing in a fire, the thrust bearing in the lower portion of the contact position in the stem and body shoulders therefore prevent the formation of anti-sealing seat leakage to avoid accidents.
2. Fire safety structure
When the trunnion ball valves normal use, the seat and the spherical stamp law, seat retainer o-ring and seal body, which is a soft seal, reliable seal and o-ring seat when injured, seat holder and the body will be stamped expanded graphite such behavior fire safety purposes.
3. Anti-static equipment
In order to prevent friction among ball, stem and PTFE static electricity may ignite flammable materials and explosives, resulting in an accident, in this ball valve, static-conduction spring between the stem and the ball, the stem and the body and therefore static ground system security to be secured.
4. Free body leaking seal structure
Smooth, double stamped gaskets and o-rings, on this basis, for this reason as fire switch position of the valve and the valve bonnet, high temperature, shock and uneven opening or closing torque will not cause external leakage.
5. Low operating torque
Self-lubricating bearings installed in the friction of stem cells, leading to wear and flexible operation and low torque.
6. double block bleed (DBB)
When the ball fully open or closed position, the transmitter substance the body can drain cavity Center announced, emptying devices Moreover, it is the center of the valve chamber pressure can be released into the low pressure end of his rescue seats.
7. Emergency sealing
Composite injection hole design and install complex injection valve located in the stem / hat and physical support when the valve stem seal or seat damage induced leakage, such compounds can be used to make a second check valve seal hidden installed near both composite injection valve, to prevent the outflow of action of the compound material, a composite of the top of the transmitter composite fuel injection valve of fast connection connector injection gun.
8. Stem extension
Underground installation valve stem can be extended to facilitate the operation corresponding composite nozzle, the drain valve can be extended to the highest valve.
9. Automatic body cavity relief
When the body pressure rise is not normal, such as instability, trunnion ball valve downstream seat will be normal pressure, while not normal automatic release of pressure, do not damage the sealing of upstream seat.

Service Type:
• Standard Temperature: -29°C to 220°C / -20°F to 428°F
• Low Temperature: -46°C to 150°C / -50°F to 302°F

• Cryogenic Temperature: -196°C to -593°C / -258°F to -620°F
• Subsea (Shallow & Deep Water)
• Underground
• High Temperature: Above 220°C / 428°F

Technical parameters and characteristics:

Product description	Fully welding ball valve
Model	Fully welding trunion forging ball valve
Nominal diameter	NPS 2” NPS 56”
Operating temperature	-593 220 (the range of service temperature may vary for different materials)
Operating pressure	CL150-CL2500
Material	A105N, A182 F304, F304L, F316, F316L, A352 LF2, LF2, etc.
Design standard	API 6D,ASME B16.34
Structural length	ASME B16.10
Connecting end/td>	ASME B16.5,ASME B16.25
Test standard	API 598, API 6D, ISO 5208
Operation method	Handle, worm, motor-drive unit, pneumatic drive unit
Application fields	Oil and natural gas pipelines, and urban gas pipeline
Other remarks 1	The valve seat is embedded with flexible seal ring for zero leakage of seal; the valve seat is provided with a preloaded spring that is adaptive to the variation of pressure and temperature, so leakage is not liable to happen.
Other remarks 2	Integral valve with welded valve body, free of external leakage, etc.
Other remarks 3	Fire resisting construction of all-welded ball valve. Each leakage position is designed with flexible graphite packing or stainless steel mixing graphite to satisfy the fire resisting requirements in case of a fire.
Other remarks 4	The most advanced support plate structure both at home and abroad is adopted for large diameters to increase the service life and reduce the operating torque of valve. Thus, the service life of valves is greatly extended.
Other remarks 5	The directly-buried all-welded ball valve can be buried directly, in which case, no high and large valve pit is required, only a small shallow pit needs to be built on ground, so the construction cost and the engineering time can be significantly saved.
Other remarks 6	Full bore of valve convenient for pigging, of small flow resistance and high flow capacity and good flow characteristics
Other remarks 7	The valve ball can completely enclose the valve seat when the all-welded ball valve is opened, so the impurities in the medium will not be flushed to the valve seat or the packing surface of valve body. Hence, the valve body has a same service life as the pipeline due to his special construction.

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