



Low Operation Torque Top Entry Ball Valve With On Line Maintenance Function

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"-8", CL150-600
- 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"~8"
- Pressure Rating: Class 150~600
- Material: WCB, LCB, CF8, CF8M, CF3, CF3M
- Design Standard: API 608, API 6D, BS 5351, ASME B16.34
- Face To Face: ASME B16.10, API 6D, BSEN 558
- End Connection: ASME B16.5, BSEN 1092
- Highlight: **trunnion mounted ball valve**

Product Description

Top entry ball valve of 1/2"-8" CL150-600 API 6D , 608 desgin

How do we control the quality of machining

1. High-precision CNC lathe processing parts.
2. Advanced Milling Machines
3. UT Inspection to ensure welding quality
4. Weld Polishing
5. 100% Appearance & Size Inspection online (thickness, roundness, etc.)
6. Size & Appearance Shaping

TOP ENTRY BALL VALVE is mainly used in pipeline and industry system and it has a top entry and on line maintenance function.

It has a lot of advantages,such as small fluid resistance,simple structure,small volume,light weight,reliable saaling,convenience for operation and maintenance,open and close quickly,as well as start and close flexibly.

One piece body is used for the body to guarantee sufficient strength and rigidity under maximum rated operating pressure.The internal parts of valve are carefully designed and selected to ensure reliability under all kinds of operating condition.Enough margin wall thckness and adaptation of high strength connective bolts are convenient for valve maitenance and sufficiency to support the stress from piping.

Top entry

Its most difference from common ball valve is that its maintenance can be made on pipe line and without dismounting from the pipe line.The back space seat structure is adopted for the seat and the rear portion of seat retainer is oblique angle to prevent accumulation of impurity from affecting back space of seat.

Low operation torque

Top entry series ball valve has a trunnion mounted ball,whose surface is ground,polished and hard face treated.The ball and stem is integrated,sliding bearing is installed on the external bore so that the friction radius is small and operation torque is very low.

Emergency sealing

Compound injection holes are designed and compound injection valves are installed at locations of stem/cap and body support of side valve.When sealing of stem or seat is damaged to induce leakage,the compound can be used to do the second time sealing.A concealed check valve is installed in side of each compound injection valve to prevent compound from out flowing due to the action of transmitter substance.The top of the compound injection valve is the connector for fast connection with compound injection gun.

Reliable sealing

The seat sealing is formed by seat sealing and metal retainer component.The seat retainer floats axially and low pressure sealing of valve seat is reached by pre-pressure of spring.In addition,the piston effect of valve seat is designed reasonably,which realized high pressure sealing by the pressure of operating medium and realize the interception of retainer to form the sealing of the body.The expansion graphite ring is designed to realize sealing under fire condition.

Double block&bleed(DBB)

When ball is full open or close position,the transmitter substance in center cavity of body can be released by drainage and emptying devices.In addition,the over loaded pressure in the center cavity of valve can be released to low pressure end by self relief seat.

Anti-static and fire safe design

The fire prevention design of valve meets the requirement in API6FA/API607 standard and the design of the anti-static conforms to regulations in API6D and BS5351.

Extension stem

For the underground installed valve,the stem can be lengthened and for the convenience of operation the corresponding compound injection nozzle and drainage valve can be extended to the top of valve.

Various driving types

The top pad of valve designed according to ISO 5211,which is convenient for connection and exchange of various drivers.The common driving types are manual,electrical,pneumatic and pneumatic/hydraulic.

No.	Part	Material
1	Body	A216-WCB A352-LCB A351-CF8, CF8M, CF3, CF3M Duplex
2	Seat Spring	Inconel X-7505 S.S.304 S.S.316
3	Seat Ring	ASTM A105+ENP ASTM A182-F304, F316, F316L, F6, F51
4	Seat	PTFE RTPFE PEEK PPL
5	Ball	ASTM A105+ENP ASTM A182-F304, F316, F316L, F6, F51
6	O-ring	NBR Viton
7	Thrust Washer	PTFE
8	Gasket	PTFE S.S.304+Graphite S.S.316+Graphite
9	Sliding Bearing	Stainless Steel+PTFE S.S.316+PTFE
10	Bonnet	A216-WCB A352-LCB A351-CF8, CF8M, CF3, CF3M Duplex
11	Packing	PTFE Graphite
12	Gland Flange	A216-WCB A351-CF8
13	Key	1045 A182-F304, F316, F316L, F304L
14	Stem	ASTM A105+ENP A182-F6, F304, F304L, F316, F316L, 17-4PH, F51
15	Yoke	A216-WCB

16	Nut	ASTM A194-2H, 2HM, 8, 8M
17	Stud	ASTM A193-B7, B7M, B8, B8M
18	Vent Valve	1020+Zn A182-F304, F316, F316L
19	Lifting Lug	1020
20	Seat Injection	1020+Zn A182-F304, F316, F316L
21	Steel Ball	Stainless Steel
22	Antistatic Spring	1045+N A182-F304, F316, F316L
23	Seat Spring	1045+N A182-F304, F316, F316L
24	Steel Gasket	1045+N A182-F304, F316, F316L
25	Trunnion	ASTM A105+ENP A182-F6, F304, F304L, F316, F316L, 17-4PH, F51
26	Trunnion Gasket	PTFE S.S.304+Garphite
27	Adjusting Nut	ASTM A194-2H, 8
28	Adjusting Stud	A182-F6, F304
29	Drain Valve	1020+Zn A182-F304, F316, F316L



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