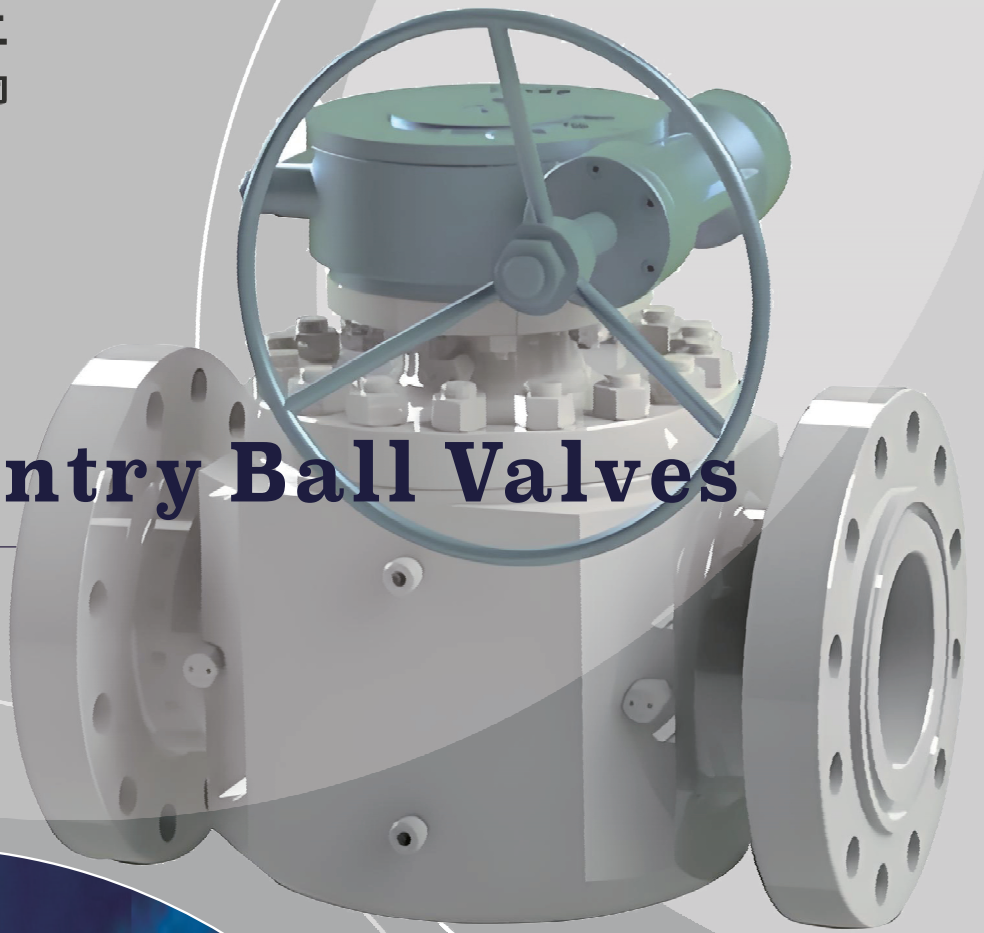




厦门固特阀门制造有限公司

Top Entry Ball Valves



XIAMEN GUTE VALVE MANUFACTURING COMPANY

XIAMEN GUTE VALVE COMPANY

Top Entry Ball Valves

Function

Top entry ball valves are designed and predetermined for using in heavy duty applications, mainly in refineries, oil & gas, chemical and petrochemical industries. Their design has several original technical solutions which ensure reliable and longterm tightness, at the same time high level of safety that is essential in the said branches of industry.

The main advantage (when compared to standard side-entry design) is a possibility to carry out inspection, repair and replacing of the inner parts without the need of disassembling the valve from the pipeline.

Specific body design (either made from forged or cast steel) is predetermined for trouble-free operation in severe conditions. Forged steel is mainly used for smaller sizes, high pressures and critical applications, where material integrity is a primary safety requirement.



Main Features

- Design "Top entry"
- Compact, solid valve body
- Seats pressurized by springs
- Soft or metal-to-metal seated versions
- "Double Block and Bleed" feature
- Anti blow-out stem design
- Low friction coefficient bearings materials
- Stem and seat secondary sealing system
- Replacing stem packing in open/closed position
- "Antistatic" design (body, ball and stem)
- Large scale of possible soft seat materials, at the same time hardfacing ball/seat materials

Description:	Standard:	Options:
Nominal Diameter	2"- 12"	Size bigger than 12" – upon request
Nominal Pressure	ASME 150-1500	Class 2500 – upon request
Temperature	-46...500°C	Other upon request
Bore	Full	Reduced
Body type	Forged	Cast
Body material	Carbon, alloy and stainless steel	Duplex, inconel, monel, hastelloy
Seat	Forged steel with hardfacing	Soft (PTPE, PEEK, etc..)
Seat design	SPE (SINGLE PISTON EFFECT)	DPE (DOUBLE PISTON EFFECT)
Ball	Trunnion	Floating upon request
Packing	Graphite, elastomers, plastomers	ISO 15848/TA LUFT, Belleville springs
Connection	Welded, flanged	Others upon request
Design standards	API 6D, API 607, ASME B16.34, ASME B16.10, ASME B 16.25	API 6A, NACE MR 0103, MR 0175, others upon request
Tightness standards	EN 12266, API 598, ANSI FCI-70-2	GOST R - 54808-2011
Operation	Lever, gear, pneumatic, electric	Extended bonnet

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BONNET

Connected with body by bolts, simple disassembly enables inspection/replacing of inner

STEM

"Anti blow out" design.

SPRINGS

Anti-static feature prevents static electric charges between

SECONDARY STEM SEALING

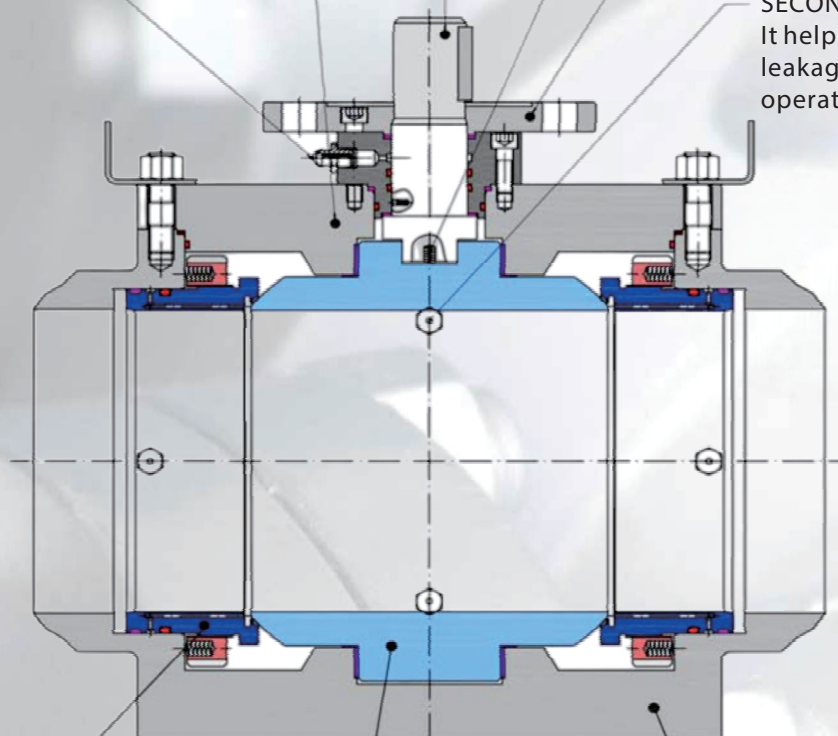
It helps to control possible packing/stem leakage and

"READY FOR ACTUATOR" DESIGN

Mounting top flange according to ISO 5211 enables connection of gear, electric, pneumatic and hydraulic actuators.

SECONDARY SEAT SEALING

It helps to control possible seat leakage and ensures reliable operation.



SEAT

It is inserted into the body, normally made from stainless steel with hardfacing or soft material used for sealing. The spring (spiral or belleville type) presses the seat to the ball.

BALL

The ball is polished, trunnion mounted with bearing. Sealing surface material is selected in order to guarantee reliable operation even in severe service conditions.

BODY

One-piece body made from forging or casting. Quality of material integrity is checked by NDT methods. Venting and draining features enable to deprive of unwanted gas or liquid