

A technical drawing of a globe valve, showing a cross-section of the valve body and the internal stem and disc assembly. The drawing is rendered in a light blue color against a darker blue background. The valve body is spherical, and the stem is threaded, with a disc attached to the end. The drawing shows the internal components and the external flanges.

KFTE VALVE

Ultimate Craft Cast Advanced Industry

GLOBE VALVE OVERVIEW

A black arrow pointing towards the company name.

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ABOUT US

KFTE VALVE is an ISO 9001 & CE certified company specializing in manufacturing industrial valves including ball valves, gate valves, globe valves, check valves, plug valves and butterfly valves in carbon steel, stainless steel, duplex stainless and alloy materials. Our products conform to the latest industry standards in accordance to ANSI, ASME and API.

KFTE today has over 400,000 square feet of manufacturing facilities. Through its conviction to provide only the finest quality products and services to match the need of our customers, KFTE has now established itself as a serious player in the valve business.

KFTE VALVE has sold worldwide in North America, Europe, South America, South Asia, Africa and the Middle East. We consider product quality and customer satisfaction as our highest priority. We look forward to new customer relationships by providing value, quality, customer service, honesty, integrity and the commitment to maintain product consistency with each and every order.



GLOBE VALVE

INTRODUCTION

FEATURES



Design of Body -Bonnet Connection

Bolted bonnet is normally applied on CL150~CL900, body seal is defaulted by gasket and RTJ ring; Pressure seal bonnet is applied on CL1500~CL2500 with pressure seal ring for body seal.

Design of Packing

By default graphite packing is used, PTFE packing can be used on corrosive media. API 622 fugitive emission packing will be used upon request.

Design of Backseat

Renewable back seat is applied on all carbon steel and low alloy steel valve, however, body back seat is only applied for stainless steel valve.

INTRODUCTION

KFTE cast globe valve offers T type body by default with rising stem and hand wheel. It blocks the flow of pipeline through the rotation and lifting of hand wheel as well as stem to drive the lift of disc. The globe valve has the feature of long service life since there is no relative friction between disc and body sealing surface.

Bolted bonnet, pressure bonnet, bellow seal bonnet, high/low temperature extended bonnet and ISO 15848 fugitive emission designed valves are available upon different request of services.

Design of Disc

Single disc is normally adopted on cast globe valve, the medium flows from the bottom to the top; double disc is just applied while larger pressure difference or bigger size of valve, the medium flows from top to the bottom.

Plug type disc can be provided upon request.

Design of Seat

KFTE cast globe valve is defaulted by non-renewable body seat, renewable seat is provided upon request only.

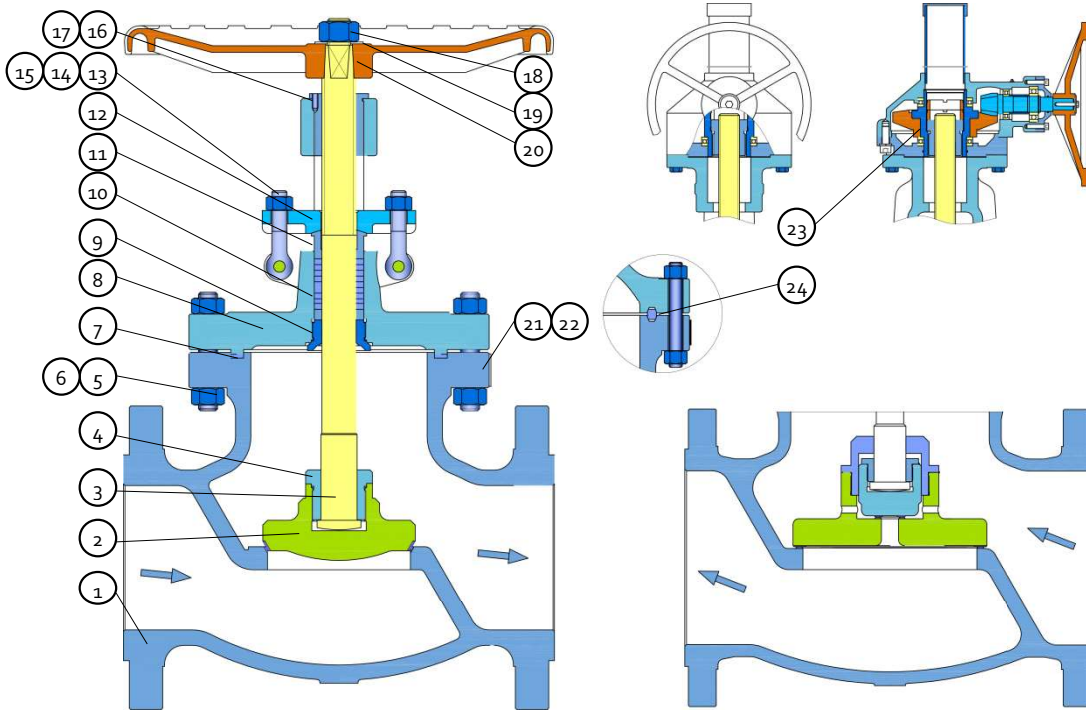
Design of Actuation

Hand wheel and gear box are normally designed for cast globe valve based on different size and pressure rating; Electric, pneumatic or Chain wheel operation can be provided upon request.



GLOBE VALVE

OVERVIEW (Bolted Bonnet)



Single disc Type

Double disc Type

Part List

1 Body	7 Gasket	13 Eye Bolt	19 Washer
2 Disc	8 Bonnet	14 Nut	20 Handwheel
3 Stem	9 Backseat	15 Pin	21 Rivet
4 Sleeve	10 Packing	16 Stem Nut	22 Nameplate
5 Stud	11 Gland	17 Handwheel Nut	23 Gear
6 Nut	12 Gland Flange	18 Nut	24 Octagonal Ring

Standards

Design & Manufacture BS 1873, API 623, ASME B16.34

Face-to-face ASME B16.10

End Dimension ASME B16.5 (RF, RTJ),
ASME B16.47 (RF, RTJ)
ASME B16.25 (BW)

Test & Inspection API 598

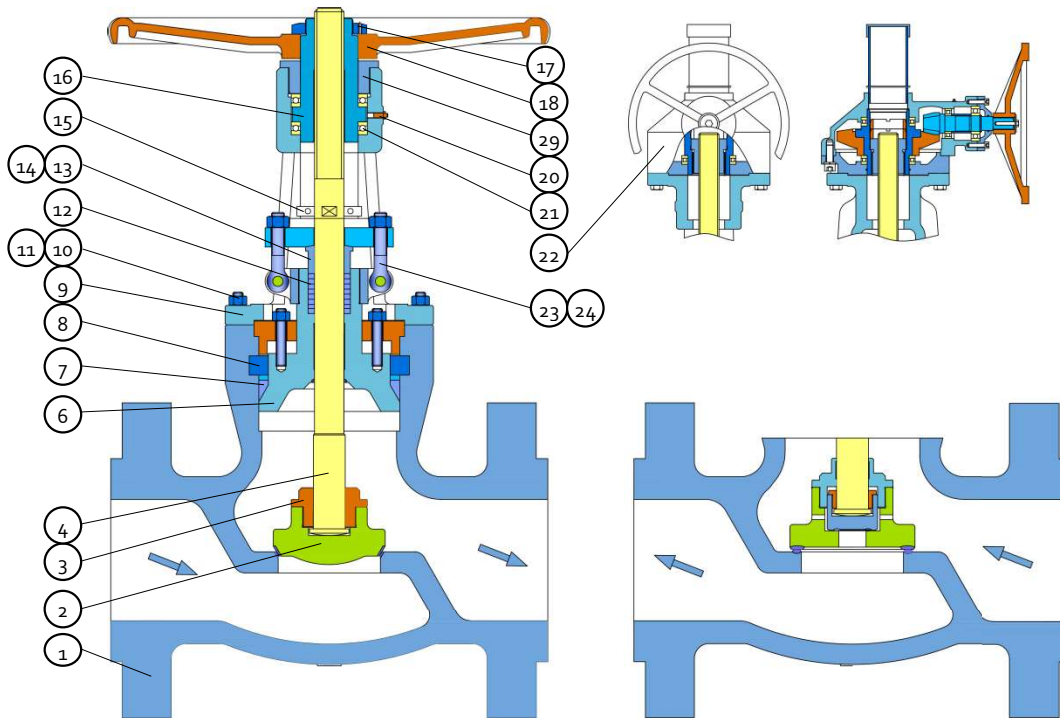
Typical Materials Body, (Casting): A216 WCB, A351 CF3, CF8, CF3M, CF8M, A995 4A, 5A,
Bonnet, Disc A352 LCB, LCC, LC2

(Forging): A105, A350 LF2, LF3, LF5, A182 F304, F304L, F316, F316L, F51, F53,
F5, F11, F22, F91, Monel, Inconel, Hastelloy

Stem A182 F6a, F304, F304L, F316, F316L, F51, F53, F55 Monel, Inconel, Hastelloy

GLOBE VALVE

OVERVIEW (Pressure Seal Bonnet)



Single Disc Type

Double Disc Type

Part List

① Body	⑥ Seal ring	⑪ Nut	⑫ Packing	⑬ Gland	⑭ Gland flange	⑮ Fixture Block	⑯ Stem Nut	⑰ Handwheel Nut	⑱ Handwheel	⑲ Bear Gland	⑳ Grease Nipple Nut	㉑ Bear	㉒ Gear	㉓ Eyes Bolt	㉔ Nut
② Disc	⑦ Split ring	⑫ Packing	⑬ Gland	⑭ Gland flange	⑮ Fixture Block										
③ Disc Nut	⑧ Split ring	⑬ Gland	⑭ Gland flange	⑮ Fixture Block											
④ Stem	⑨ Yoke	⑭ Gland flange	⑮ Fixture Block												
⑤ Bonnet	⑩ Stud	⑮ Fixture Block													

Standards

Design & Manufacture ASME B16.34, MSS SP-144

Face-to-face ASME B16.10

End Dimension ASME B16.5(RF, RTJ)
ASME B16.47(RF, RTJ)
ASME B16.25 (BW)

Test & Inspection API 598, ASME B16.34

Typical Materials
 Body, Bonnet, Disc (Casting) A216 WCB, A351 CF3, CF8, CF3M, CF8M, A995 4A, 5A, A352 LCB, LCC, LC
 (Forging) A105, A350 LF2, LF3, LF5, A182 F304, F304L, F316, F316L, F51, F53, F5, F11, F22, F91, Monel, Inconel, Hastelloy
 Stem A182 F6a, F304, F304L, F316, F316L, F51, F53, F55, Monel, Inconel, Hastelloy