Cast Iron Globe Valve

Weights: 16kg - 318kg
Sizes: DN 50 – 300
Class: 125
Pressure: PN14
Temperatures: -10°C to 230°C

Application

Suitable for throttling and on/off duties, the Cast Iron Globe Valve is a cost-effective solution for steam, water, air, non-corrosive oil, and gas. The Cast Iron Globe Valves perform according to the Pressure / Temperature Tables that are required for the MSS SP-85 Standard. The valves are backseated with the expectation that the backseat be placed into the fully open position. Once in operation, the stem should be backed off from the backseat. The result of this action ensures that the non-asbestos stem packing now functions on its own.

In the event of leakage via the stem packing, the Cast Iron Globe Valve backseat may be used until the packing can be replaced. It is considered dangerous to renew the stem packing when the valve is under pressure with a hazardous product or extreme pressure or temperatures. In such cases, the system should be shut down for the replacement of packing. As well as the packing, the Cast Iron Globe valve also has an Outside Screw and Yoke Angel disc.

Dimensions

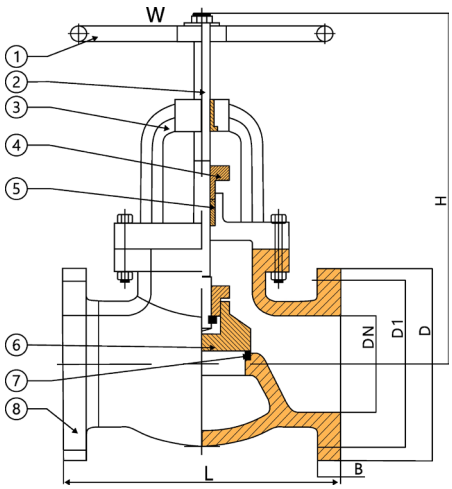
NPS	DN	L	H	D1	D	B	Kg
2"	50	203	302	120	152	15	16
2½"	65	216	310	139	178	17	20
3"	80	241	337	152	191	19	26
4"	100	292	361	190	229	23	42
5"	125	330	395	215	254	23	70
6"	150	356	441	241	279	25	80
8"	200	495	503	298	343	28	135
10"	250	622	539	362	406	30	215
12"	300	698	650	431	483	31	318

P/T Ratings

Valvetech's Pressure/Temperature Ratings according to ANSI B16.10

Temperature ° Celsius	-10°C to +65°C	100°C	120°C	140°C	150°C	160°C	200°C	230°C
Pressure Bar	13.8	12.7	12.1	11.6	11.4	10.8	9.8	8.6

Diagram



#	Part	Material
1	Handwheel	Cast Iron (ASTM A126 B)
2	Stem	ASTM B16 or 13Cr
3	Bonnet	Cast Iron (ASTM A126 B)
4	Gland	Ductile Iron (A536)
5	Packaging	Graphite
6	Disc	Cast Iron (ASTM A126 B)
7	Body Seat Ring	ASTM B62 or 13Cr
8	Body	Cast Iron (ASTM A126 B)

Specifications

Models
VT372

Body Material
Cast Iron

Iron Grade
ASTM A126 B

Stem Operation
Rising

Drill Tables
Table 10, 16, D, ASA150

Standards
Design Standard BS 5152 / MSS SP-85
Flanges conform to ANSI B16.1
Face to Face conform to ANSI B16.10

Services
Water, Oil, Gas, Steam

Industries
Petrochemicals and Petroleum, Refineries, Primary Energy, Agriculture, Water Works, HVAC

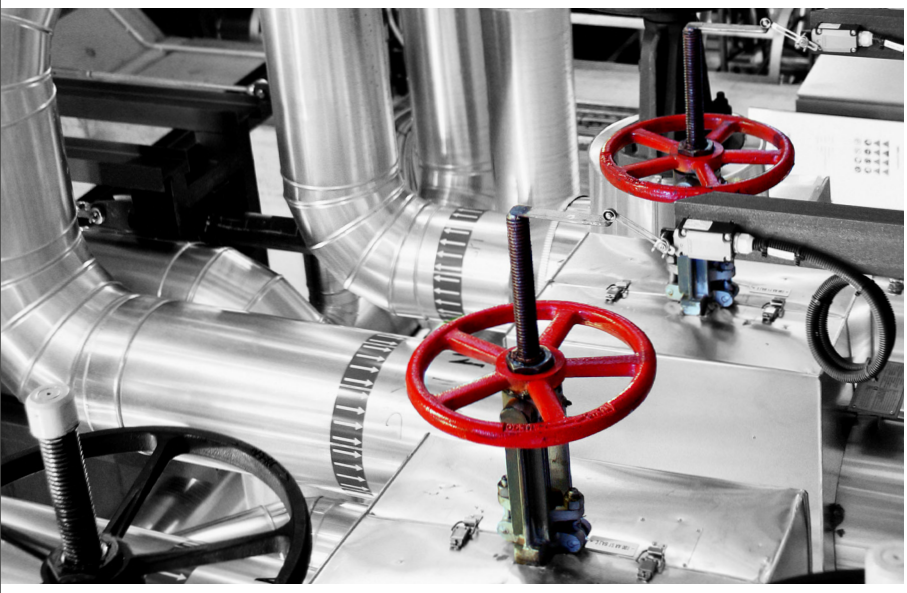
Priority Media
Acetone, Acetylene, Diesel Oil Fuels, Epsom Salts, Ethane, Heptane, Illuminating Gas, Methanol, Mercury, Methane, Paints and Solvents, Potassium Oxalate, Road Tar

Inventory Code and Description
CIGLOVT372
CI Globe RS 13CR SS Trim Flanged

Also Known As:
Boiler Stop Valve, Stop Valve, Throttle Valve

Globe Valves

Models:	VT372N ; VT372
Class:	150 ; 125
Sizes:	DN 50 - 300
Pressure:	PN16 ; PN14
Body Material:	Ductile Iron ; Cast Iron
Temperatures:	-10°C to 400°C
Weights:	14kg - 190kg



Specifications

Services

Petrochemicals and Petroleum, Refineries, Primary Energy, Agriculture, Water Works, HVAC

Industries

Water, Oil, Gas, Steam

Priority Media

Acetylene, Diesel, Epsom Salts, Fertilizer Solutions, Gasoline, Grease, Hydrogen Gas, Lard, Linseed Oil, Mercury, Nitrogen, Oil, Oxygen, Steam, Waxes

Also Known As:

Boiler Stop Valve
Stop Valve
Throttle Valve

Globe Valve Details

Globe Valves are used for throttling or regulating flow control and shut-Off is accomplished by moving the disc against the flow stream rather than across it (as is the case with a Gate Valve). Because the flow pattern through a globe valve involves changes in direction, it results in greater resistance to flow, which in turn results in a high-pressure drop.

The Globe Valve is cast with quality materials (ductile iron, graphite, 13 Chrome) for long-term use. The Face-to-Face dimensions are set in accordance to ASME B16.10, and the Flange Drilling Dimensions are in accordance with ASME B16.5.

The Globe Valve is perfect for services that involve water, oil, and pump systems. It is also excellent to use in the high-pressure operation of steam, air, gas, and vapours.

The typical applications of Globe valves include:

- **Throttling and Flow Control** as the design of the valve includes a movable disk or plug that can be positioned to vary the flow passage, allowing for accurate regulation of flow rates
- **Precision and Accuracy** where maintaining specific process conditions is critical and regulation of the flow of liquids or gases with a high degree of accuracy is critical
- **Modulation, Regulation and Throttling** for maintaining optimal water levels and pressure in boiler systems, contributing to the efficiency and safety of the overall operation

Advantages:

- **Excellent throttling ability** enables precise flow control of fluids or gases, ideal for accurate regulation rates
- **Reliable sealing** due to the disk-shaped socket which can be tightly closed to prevent leaks; easily replaced enabling efficient maintenance
- **Durable, high-quality materials** in the form of a ductile iron body, chrome stem and seat seal ring
- **Versatile** – designed and manufactured to withstand high pressure and high temperature applications (oil, gas, chemical, primary energy generation)
- **Easy positioning** makes them simple to install and adaptable to various pipeline configurations

Common Industry Uses:

- Oil and Gas requiring flow control and pressure regulation applications, such as pipelines, refineries, and petrochemical plants
- Chemical Processing Plants for precise flow control for chemicals and corrosive substances
- Water Treatment Facilities for the control and regulation of the flow of water in distribution systems
- Primary Energy in the generation of electricity, used to control the flow of steam and water in the boilers
- HVAC for regulating the flow of water and other fluids in heating and cooling systems