



GLOBE VALVE SERIES

Threaded Globe Valve

J11H

Threaded globe valve for steam, water, oil, gas and compatible industrial service requiring reliable shut-off and throttling control in compact small-bore piping.

01 Key Specifications

Product Type	Threaded globe valve, multi-turn rising stem
Nominal Size	DN15-DN100
Pressure Rating	PN16 / PN25 / PN40 / PN64 / PN100 / PN160 / PN320; ASME Class 150 / 300 / 600 / 900 / 1500
Body Materials	A105 forged steel / WCB carbon steel / CF8 (SS304) / CF8M (SS316)
Sealing Surface	Cr13 stainless steel; hard-faced option where offered
Operation	Handwheel standard; electric actuator option
End Connection	Threaded internal ends; NPT / BSPT / BSPP-G
Typical Service	Steam / water / oil / gas and compatible industrial media

02 Design Features & Configuration

Threaded Connection Compact direct installation without flanges; suitable for small-bore piping and equipment isolation.	Multi-Turn Rising Stem Linear stem movement provides visual position indication and precise flow adjustment.
Cr13 Sealing Surface Wear-resistant metal-to-metal sealing for steam, water, oil and compatible industrial media.	Straight or Angle Pattern Straight-through configuration standard; angle pattern available where a 90-degree flow change is required.
Bonnet Options Bolted or welded bonnet according to pressure class and service requirement.	Throttling Capability Globe-valve flow path supports fine throttling control as well as reliable shut-off.

03 Materials of Construction

Component	Standard Material	Options
Body / Bonnet	A105 forged steel or WCB cast steel	CF8 (SS304) / CF8M (SS316) / WC6 / WC9 where offered
Disc	Cr13 stainless steel	Stellite hard-facing where offered
Seat Surface	Cr13 stainless steel	Stellite hard-facing where offered
Stem	Cr13 stainless steel	SS304 / SS316 / 17-4PH where offered
Packing	Flexible graphite	PTFE for lower-temperature service where applicable
Gasket	Graphite + SS spiral wound	Confirm for selected model
Handwheel	Cast iron or carbon steel	Stainless steel where offered

04 Pressure Ratings & Temperature

Pressure Classes	PN16 to PN320; ASME Class 150 to Class 1500
A105 / WCB	-29 C to +425 C reference
CF8 (SS304)	-40 C to +600 C reference
CF8M (SS316)	-40 C to +650 C reference
WC6 / WC9	Up to +565 C where offered

Pressure derating applies as temperature increases. Final pressure-temperature limits must be confirmed for the selected body material, packing, sealing surface and pressure class.

05 Thread & Connection Options

NPT	ASME B1.20.1 tapered pipe thread
BSPT	ISO 7-1 tapered pipe thread
BSPP / G	ISO 228-1 parallel pipe thread
Selection Note	NPT, BSPT and BSPP-G are not interchangeable; specify the exact thread standard and sealing method.

06 Typical Reference Dimensions

DN	NPS	Thread Size	L mm	H mm	Weight kg
15	1/2 in	1/2	90	180	2.0
20	3/4 in	3/4	100	195	2.8
25	1 in	1	120	210	4.0
32	1-1/4 in	1-1/4	140	235	6.0
40	1-1/2 in	1-1/2	155	255	8.0
50	2 in	2	180	290	12.0
65	2-1/2 in	2-1/2	210	330	17.0
80	3 in	3	240	370	25.0
100	4 in	4	275	420	35.0

Dimensions are reference values for the supplied J11H data. Higher pressure classes may use different body lengths and wall thicknesses; confirm final dimensions on the approved drawing.

07 Standards & Testing

Design / Manufacturing	API 602 / API 623 / ASME B16.34 / GB/T 12235 / GB/T 12224
Thread Standards	ASME B1.20.1 / ISO 7-1 / ISO 228-1
Pressure Testing	API 598 / GB/T 13927
Pressure-Temperature	ASME B16.34
Face-to-Face	ASME B16.10 where applicable / GB/T 12221
Product Marking	Model, nominal size, pressure class and body material

08 Quality & Documentation

Pressure Test Report

Shell and seat pressure testing documentation may be supplied for the selected order.

Material Certificate

EN 10204 2.2 / 3.1 documentation available where specified.

Dimensional Inspection

Key valve dimensions can be verified against the approved drawing.

Sealing Surface Record

Cr13 or hard-faced sealing-surface material can be documented for the selected configuration.

Third-Party Inspection

Third-party inspection can be coordinated where required by the order.

Export Documentation

Protective packing and shipment documents can be arranged for export supply.

09 Applications

- Steam systems, steam traps and boiler auxiliary lines
- Water and condensate lines
- Oil and gas field gathering and small-bore process pipelines
- Petroleum, chemical and petrochemical process service
- Instrument isolation, gauge isolation and sample points
- General industrial service requiring compact threaded installation and throttling control

10 Product Views



11 Frequently Asked Questions

What is the difference between J11H and Q11F?

J11H is a multi-turn globe valve suited to throttling and metal-to-metal shut-off. Q11F is a quarter-turn ball valve mainly used for quick open/close service.

Can J11H be used for gas service?

The supplied product information includes gas among typical services. Medium compatibility, pressure, temperature, leakage requirements and applicable project standards must be confirmed for the selected model.

What does the H in J11H mean?

The supplied product information identifies H as a Cr13 stainless steel sealing surface.

Why does a globe valve have higher flow resistance than a ball valve?

The flow changes direction through the globe-valve seat and disc area, creating more pressure loss but providing finer throttling control.

12 How to Order

Send the valve size and quantity, body material, pressure class, thread standard, sealing-surface requirement, service medium and operating temperature, body pattern, operation method, and required documentation. ZeMin Gas can support configuration confirmation before quotation.

Note: Technical data in this datasheet is based on the product information supplied for J11H. Final dimensions, materials, ratings and documentation should be confirmed against the approved quotation and drawing for the selected model.