



GLOBE VALVE SERIES

Electric Actuated Flanged Globe Valve

J941H

Electric actuated flanged globe valve for steam, water, oil and compatible industrial service requiring reliable shut-off, precise throttling and remote or automated control.

01 Key Specifications

Product Type	Electric actuated flanged globe valve, multi-turn rising stem
Nominal Size	DN15-DN400
Pressure Rating	PN16 / PN25 / PN40 / PN64; ASME Class 150 / 300
Body Materials	Ductile iron / WCB carbon steel / CF8 (SS304) / CF8M (SS316)
Sealing Surface	Cr13 stainless steel; Stellite hard-facing option where offered
Actuator	Electric actuator, on/off or modulating; manual override available
Protection Class	IP67 standard; IP68 optional
End Connection	Flanged; ASME B16.5 / EN 1092-1 / GB/T 9113
Typical Service	Steam / water / oil and compatible industrial media

02 Design Features & Configuration

Electric Actuation

Motor-driven multi-turn operation for remote or automated control; no compressed air required.

Modulating Control

On/off or modulating control available, including 4-20mA / 1-5V / 0-10V signal options.

Multi-Turn Rising Stem

Linear stem movement supports accurate positioning and clear valve position indication.

Cr13 Sealing Surface

Wear-resistant metal-to-metal sealing suited to steam, water and oil service.

Flanged Connection

Strong bolted pipeline connection with project-specific flange standard and facing.

Manual Override

Handwheel override available on most actuator configurations for emergency operation.

03 Electric Actuator Configuration

Actuator Type	Multi-turn electric actuator
Control Mode	On/off standard; modulating / regulating type available
Power Supply	AC 220V / AC 380V / AC 110V / DC 24V options
Control Signal	4-20mA / 1-5V / 0-10V DC options
Explosion-Proof Rating	Exd II BT4 standard; Exd II CT6 available
Protection Class	IP67 standard; IP68 optional
Manual Override	Handwheel manual override available on most models
Position Feedback	Limit switches standard; potentiometer or 4-20mA feedback available

04 Materials of Construction

Component	Standard Material	Options
Body / Bonnet	Ductile iron or WCB carbon steel	CF8 (SS304) / CF8M (SS316)
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
Gasket	Graphite + stainless steel spiral wound	Confirm for selected model
Yoke / Mounting	Cast iron or carbon steel	Stainless steel where offered

05 Pressure Ratings & Temperature

Pressure Classes	PN16 / PN25 / PN40 / PN64; ASME Class 150 / 300
Ductile Iron	-20 C to +300 C reference
WCB Carbon Steel	-29 C to +425 C reference
CF8 (SS304)	-40 C to +600 C reference
CF8M (SS316)	-40 C to +650 C reference

Pressure derating applies as temperature increases. Final pressure-temperature limits must be confirmed for the selected valve and actuator configuration.

06 Typical Reference Dimensions

DN	NPS	L mm	D mm	K mm	End	H mm	Weight kg
15	1/2 in	130	95	65	4-14	280	8
25	1 in	160	115	85	4-14	325	15
50	2 in	230	165	125	4-18	420	34
80	3 in	310	200	160	8-18	510	60
100	4 in	350	220	180	8-18	570	82
150	6 in	480	285	240	8-22	700	150
200	8 in	600	340	295	12-22	810	230
250	10 in	730	405	355	12-26	920	340
300	12 in	850	460	410	12-26	1030	470
400	16 in	1100	580	525	16-30	1250	850

Dimensions are reference values for the supplied J941H data. Actual dimensions depend on pressure class, flange standard and selected actuator; confirm final values on the approved drawing.

07 Standards & Testing

Design / Manufacturing	GB/T 12235 / GB/T 12224 / ASME B16.34 / API 623 where applicable
Flange Standard	ASME B16.5 / EN 1092-1 / GB/T 9113
Face-to-Face	ASME B16.10 / GB/T 12221
Pressure Testing	API 598 / GB/T 13927
Pressure-Temperature	ASME B16.34
Actuator Documentation	Actuator datasheet, wiring diagram and explosion-proof certificate where applicable

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.

Actuator Documentation

Datasheet, wiring diagram and certification available according to selected actuator.

Dimensional Inspection

Key valve dimensions can be verified against the approved drawing.

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 and boiler auxiliary lines requiring automated throttling control
- Water and condensate systems with SCADA / DCS control
- Oil and oil-product pipelines
- Thermal power plant steam, feedwater and auxiliary systems
- Petroleum, chemical and petrochemical process lines
- HVAC and district heating/cooling systems using BMS-controlled valves
- Remote or unmanned stations requiring electric actuation

10 Product Views



11 Frequently Asked Questions

What is the difference between J941H and J41H?

J941H uses an electric actuator for remote or automated on/off or modulating control. J41H is manually operated by handwheel.

What is the difference between on/off and modulating control?

On/off control fully opens or closes the valve. Modulating control positions the valve between open and closed using an analog signal for flow regulation.

Can J941H be used for gas service?

The supplied product information lists steam, water, oil and compatible industrial media. For gas service, medium compatibility, leakage class, actuator protection and applicable project standards must be confirmed.

Why choose a globe valve for automated control?

The linear disc movement of a globe valve supports accurate throttling and positioning, making it suitable for automated flow regulation where precise control is needed.

12 How to Order

Send the valve size and quantity, body material, pressure class, flange standard, sealing-surface requirement, service medium and operating temperature, actuator type, power supply, control signal, explosion-proof requirement, manual override requirement, and required quality documentation. ZeMin Gas can support configuration confirmation before quotation.

Note: Technical data in this datasheet is based on the product information supplied for J941H. Final dimensions, materials, ratings, actuator details and documentation should be confirmed against the approved quotation and drawing for the selected model.