



SUPREME ENTERPRISE

Industrial Valves

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Doc. No.	SV-DATA-2026-FORGED_STEEL_GLOBE_VALVE_SCREWED_SOCKET_WELD			Page	1 OF 1
Rev.	A			Date	13-Jun-2026
Forged Steel Globe Valve (Screwed/Socket Weld) -- Technical Datasheet					
R	REFERENCES & RELATED DOCUMENTS				
R1	P&ID / Process Diagram	N/A -- Product Datasheet	Piping Material Spec.	N/A -- Product Datasheet	
R2	Project Standard / Spec.	API 602, ASME B16.34, BS 5352, API 598			
1	GENERAL				
2	P&ID No. / Tag No.	N/A -- Product Datasheet	Piping Class	ASME Class 800	
3	Valve Tag / Item No.	N/A -- Product Datasheet	Quantity Required	As required	
4	Design Standard	API 602, ASME B16.34, BS 5352, API 598	Pressure Class / Rating	ASME Class 800	
5	Valve Size, Inlet x Outlet	1/4" to 2" (DN8 – DN50)	End Connection	Screwed NPT / Socket Weld per API 602	
6	Valve Type / Model	Forged Steel Globe Valve (Screwed/Socket Weld)	Operation Mode	Compact forged OS&Y globe valve with screwed or socket-weld ends -- bar-stock trim for high-pressure instrument, drain, vent, and small-bore process lines	
6A	Service / Application	Oil & Gas, Refineries, Instrument & Drain Lines, Steam & Condensate	Fluid State	Liquid / Gas / Steam (as applicable)	
7	DESIGN CONDITIONS				
8	Design Pressure	ASME Class 800	Design Temp. Min / Max	-29°C to +425°C (standard) -- higher/lower on request	
9	Operating Pressure	ASME Class 800	Operating Temp.	Ambient to +200°C (standard) -- project-specific on request	
10	Set / Relief Pressure	N/A -- Product Datasheet	Back Pressure	N/A -- Product Datasheet	
11	Fluid Handled / Service	Oil & Gas, Refineries, Instrument & Drain Lines, Steam & Condensate	Corrosion Allowance	As per project specification	
12	Required Capacity / Flow Rate	As per valve size and pressure class	Location / Installation	Indoor / Outdoor / Offshore / Marine (as applicable)	
13	VALVE OPERATION REQUIREMENT				
14	Type of Valve Operator	Compact forged OS&Y globe valve with screwed or socket-weld ends -- bar-stock trim for high-pressure instrument, drain, vent, and small-bore process lines	Actuator Specification	ISO 5211 pad (actuated) -- Electric / Pneumatic / Hydraulic on request	
15	Fail-Safe Position	As per project / application requirements	Accessories Required	Limit switches, positioners, solenoid valves, manual override -- on request	
16	VALVE MATERIAL SPECIFICATION (EQUIVALENT OR SUPERIOR)				
	Valve Part	Specified Material	Proposed Material (Supreme Valves India)		
	Body	As per project specification	ASTM A105N (Forged Carbon Steel)		
	Bonnet / Cover	As per standard	As per standard / matching body grade		
	Trim (Disc / Seat)	As per standard	A105 + Stellite 6 hardfacing, integral seat		
	Stem / Spindle	As per standard	ASTM A182 F6a / SS316, OS&Y rising		
	Gasket / Packing	As per standard	PTFE / Graphite		
	Bolting / Nuts	As per standard	ASTM A193 B7 / A194 2H		
17	TESTING, INSPECTION & CERTIFICATION REQUIREMENTS				
18	Hydrostatic Shell Test	Hydrostatic 20.4 MPa (2965 psi)	Seat / Pneumatic Test	Hydrostatic 15.0 MPa (2175 psi)	
19	NDT Requirements	100% MPI / DPT on machined surfaces (if specified) -- Radiography / Ultrasonic on request			
20	Required Certificates / MTC	EN 10204 3.1 MTC (standard) -- EN 10204 3.2 / third-party inspection on request			
21	Witness / Inspection Agency	Client / TPI representative (if specified)	Third Party Inspection	TUV / SGS / BV / Lloyds Register (client cost)	
22	PAINTING, PRESERVATION & PACKING				
23	Painting / Coating Specification	Standard: one coat primer + two coats synthetic enamel (colour per client spec) -- special coatings (epoxy, PTFE, rubber lining) on request			
24	Packing Requirement	Wooden cases / pallets with VCI protection -- sea-worthy packing for export on request			

26 NOTES

1. This datasheet covers standard specifications for Forged Steel Globe Valve (Screwed/Socket Weld).
2. Design Standard: API 602, ASME B16.34, BS 5352, API 598.
3. Application / Service: Oil & Gas, Refineries, Instrument & Drain Lines, Steam & Condensate.
4. Size Range: 1/4" to 2" (DN8 – DN50), Pressure Rating: ASME Class 800.
5. All valves are manufactured new and unused by an ISO 9001 compliant foundry.
6. Material Test Certificates (MTC) per EN 10204 3.1 provided as standard; EN 10204 3.2 available on request at additional cost.
7. Testing performed per ISO 5208 / API 598: shell test at 1.5x rated pressure, seat test at 1.1x rated pressure -- bubble-tight zero leakage.
8. Face-to-face dimensions per ASME B16.10 / BS 2080 / manufacturer standard unless otherwise specified.
9. Marking per MSS SP-25: Size, Pressure Class, Material, Heat Number, Tag Number, Serial Number, Flow Direction.
10. Alternative / upgraded materials: A182 F316, F11/F22 (high temp), A350 LF2 (low temp); Class 1500 on request.
11. Actuated valves (electric, pneumatic, hydraulic) supplied with ISO 5211 mounting pad and position indicator.
12. Third-party inspection by TUV, SGS, Bureau Veritas, or Lloyds Register available on request at client cost.
13. This datasheet is for general reference. Firm specifications to be confirmed upon receipt of confirmed Purchase Order with technical requirements.
14. For specific project requirements, deviation forms, or material substitutions, please contact our engineering team.

RH REVISION HISTORY			
Rev.	Date	Description of Change	Prepared / Reviewed / Approved
A	13-Jun-2026	Initial issue -- Product datasheet generated from standard catalogue	Supreme Valves India -- Technical Department

AP DOCUMENT APPROVAL		
PREPARED BY	REVIEWED BY	APPROVED BY
Supreme Valves India -- Technical Department, Ahmedabad		
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Signature / Date	Name / Signature / Date	Name / Signature / Date