SUPREME ENTERPRISE

Industrial Valves

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Doc. No.	SV-DATA-2026-FORGED_STEEL_GLOBE_VALVE_API_602_CLASS_800	**Forged Steel Globe Valve API 602 Class 800 -- Technical Datasheet**	Page	1 OF 1
Rev.	A		Date	13-Jun-2026

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		
1	**GENERAL**			
2	**P&ID No. / Tag No.**	N/A -- Product Datasheet	**Piping Class**	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	**Pressure Class / Rating**	Class 800
5	**Valve Size, Inlet x Outlet**	1/4" to 2" (DN8–DN50)	**End Connection**	Socket Weld (SW), NPT Threaded, or Butt Weld per API 602
6	**Valve Type / Model**	Forged Steel Globe Valve API 602 Class 800	**Operation Mode**	OS&Y rising stem, bar-stock trim, handwheel operated -- compact forged body for high-pressure utility, drain, and vent lines
6A	**Service / Application**	Oil & Gas, Petrochemical, Water Treatment, Power Generation	**Fluid State**	Liquid / Gas / Steam (as applicable)
7	**DESIGN CONDITIONS**			
8	**Design Pressure**	Class 800	**Design Temp. Min / Max**	-29°C to +425°C (standard) -- higher/lower on request
9	**Operating Pressure**	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, Petrochemical, Water Treatment, Power Generation	**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**	OS&Y rising stem, bar-stock trim, handwheel operated -- compact forged body for high-pressure utility, drain, and vent 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 A105 (Forged Carbon Steel)	
	Bonnet / Cover	As per standard	A105, bolted	
	Trim (Disc / Seat)	As per standard	A105 + Stellite 6 hardfacing, integral seat	
	Stem / Spindle	As per standard	A182 F6a / SS316	
	Gasket / Packing	As per standard	PTFE / Graphite	
	Bolting / Nuts	As per standard	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 API 602 Class 800.
2. Design Standard: API 602, ASME B16.34, BS 5352.
3. Application / Service: Oil & Gas, Petrochemical, Water Treatment, Power Generation.
4. Size Range: 1/4" to 2" (DN8–DN50). Pressure Rating: 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, A182 F22, A350 LF2 (low temperature) available 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 Supreme Valves India -- Technical Department, Ahmedabad Signature / Date	**REVIEWED BY** Name / Signature / Date	**APPROVED BY** Name / Signature / Date