



SUPREME ENTERPRISE

Industrial Valves

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Doc. No.	SV-DATA-2026-PRESSURE_REGULATING_VALVE_FOR_FIRE_HYDRANT			Page	1 OF 1
Rev.	A			Date	13-Jun-2026
Pressure Regulating Valve for Fire Hydrant -- 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.	NFPA 14 / IS 909 design intent, ASME B16.34, API 598			
1	GENERAL				
2	P&ID No. / Tag No.	N/A -- Product Datasheet	Piping Class	Class 150 / 300 (PN16 / PN25)	
3	Valve Tag / Item No.	N/A -- Product Datasheet	Quantity Required	As required	
4	Design Standard	NFPA 14 / IS 909 design intent, ASME B16.34, API 598	Pressure Class / Rating	Class 150 / 300 (PN16 / PN25)	
5	Valve Size, Inlet x Outlet	2-1/2" to 6" (DN65 – DN150)	End Connection	Flanged ASME B16.5 / Instantaneous BS 336 coupling on request	
6	Valve Type / Model	Pressure Regulating Valve for Fire Hydrant	Operation Mode	Maintains a safe, constant downstream pressure to landing valves and hydrants regardless of inlet surges -- protects fire hoses and standpipe equipment	
6A	Service / Application	Fire Hydrant Systems, High-Rise Standpipes, Landing Valves, Pressure Zone Control	Fluid State	Liquid / Gas / Steam (as applicable)	
7	DESIGN CONDITIONS				
8	Design Pressure	Class 150 / 300 (PN16 / PN25)	Design Temp. Min / Max	-29°C to +425°C (standard) -- higher/lower on request	
9	Operating Pressure	Class 150 / 300 (PN16 / PN25)	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	Fire Hydrant Systems, High-Rise Standpipes, Landing Valves, Pressure Zone Control	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	Maintains a safe, constant downstream pressure to landing valves and hydrants regardless of inlet surges -- protects fire hoses and standpipe equipment	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	Cast Steel ASTM A216 WCB / Ductile Iron / Gun Metal		
	Bonnet / Cover	As per standard	As per standard / matching body grade		
	Trim (Disc / Seat)	As per standard	Stainless Steel 316 / Resilient		
	Stem / Spindle	As per standard	As per standard		
	Gasket / Packing	As per standard	Spiral wound SS316 + graphite		
	Bolting / Nuts	As per standard	ASTM A193 B7 / A194 2H		
	Control / Pilot	As per standard	Direct spring or pilot-operated diaphragm		
	Diaphragm	As per standard	Fabric-reinforced Nitrile / EPDM		
	Coating	As per standard	Fusion Bonded Epoxy Fire Red		
17	TESTING, INSPECTION & CERTIFICATION REQUIREMENTS				
18	Hydrostatic Shell Test	Hydrostatic 3.1 MPa (450 psi)	Seat / Pneumatic Test	Hydrostatic 2.2 MPa (320 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			
<p>1. This datasheet covers standard specifications for Pressure Regulating Valve for Fire Hydrant.</p> <p>2. Design Standard: NFPA 14 / IS 909 design intent, ASME B16.34, API 598.</p> <p>3. Application / Service: Fire Hydrant Systems, High-Rise Standpipes, Landing Valves, Pressure Zone Control.</p> <p>4. Size Range: 2-1/2" to 6" (DN65 – DN150). Pressure Rating: Class 150 / 300 (PN16 / PN25).</p> <p>5. All valves are manufactured new and unused by an ISO 9001 compliant foundry.</p> <p>6. Material Test Certificates (MTC) per EN 10204 3.1 provided as standard; EN 10204 3.2 available on request at additional cost.</p> <p>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.</p> <p>8. Face-to-face dimensions per ASME B16.10 / BS 2080 / manufacturer standard unless otherwise specified.</p> <p>9. Marking per MSS SP-25: Size, Pressure Class, Material, Heat Number, Tag Number, Serial Number, Flow Direction.</p> <p>10. Alternative / upgraded materials: Gun metal/bronze body for marine and corrosive water available on request.</p> <p>11. Actuated valves (electric, pneumatic, hydraulic) supplied with ISO 5211 mounting pad and position indicator.</p> <p>12. Third-party inspection by TUV, SGS, Bureau Veritas, or Lloyds Register available on request at client cost.</p> <p>13. This datasheet is for general reference. Firm specifications to be confirmed upon receipt of confirmed Purchase Order with technical requirements.</p> <p>14. For specific project requirements, deviation forms, or material substitutions, please contact our engineering team.</p>				

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		
	<p style="text-align: center;">PREPARED BY</p> <p style="text-align: center;">Supreme Valves India -- Technical Department, Ahmedabad</p> <p style="text-align: center;">_____</p> <p style="text-align: center;">Signature / Date</p>	<p style="text-align: center;">REVIEWED BY</p> <p style="text-align: center;">_____</p> <p style="text-align: center;">Name / Signature / Date</p>	<p style="text-align: center;">APPROVED BY</p> <p style="text-align: center;">_____</p> <p style="text-align: center;">Name / Signature / Date</p>