



# SUPREME ENTERPRISE

Industrial Valves

4th Floor, Survey No. 235/A and 247/A, E/401, Nr. Bhattha School, Gyaspur, Ahmedabad, Gujarat 382405, India | Branch: Mehta House, Relief Road, Ahmedabad 380001  
 GST 24AFAFS5839J1ZQ • IEC AFAFS5839J • info@supremevalves.in | www.supremevalves.in • +91 97732 78770

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Rev.	A			Date	13-Jun-2026
<b>UL / FM Approved Post Indicator Valve (PIV) Assembly -- Technical Datasheet</b>					
<b>R</b>	<b>REFERENCES &amp; RELATED DOCUMENTS</b>				
R1	P&ID / Process Diagram	N/A -- Product Datasheet	Piping Material Spec.	N/A -- Product Datasheet	
R2	Project Standard / Spec.	UL 789, FM 1120, NFPA 24, ASME B16.1			
1	<b>GENERAL</b>				
2	P&ID No. / Tag No.	N/A -- Product Datasheet	Piping Class	Class 150 / PN16 (175 psi rated)	
3	Valve Tag / Item No.	N/A -- Product Datasheet	Quantity Required	As required	
4	Design Standard	UL 789, FM 1120, NFPA 24, ASME B16.1		Pressure Class / Rating	Class 150 / PN16 (175 psi rated)
5	Valve Size, Inlet x Outlet	4" to 24" (DN100 – DN600)		End Connection	Flanged ASME B16.1 Class 125 / ASME B16.5 Class 150
6	Valve Type / Model	UL / FM Approved Post Indicator Valve (PIV) Assembly		Operation Mode	Adjustable-depth telescopic post with 'OPEN'/'SHUT' target windows coupled to a resilient-seated gate or butterfly valve -- satisfies NFPA 24 visible valve-position supervision
6A	Service / Application	Fire Service Water Mains, Sprinkler Supply Isolation, Buried Fire Loops, NFPA 24 Networks		Fluid State	Liquid / Gas / Steam (as applicable)
7	<b>DESIGN CONDITIONS</b>				
8	Design Pressure	Class 150 / PN16 (175 psi rated)		Design Temp. Min / Max	-29°C to +425°C (standard) -- higher/lower on request
9	Operating Pressure	Class 150 / PN16 (175 psi rated)		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 Service Water Mains, Sprinkler Supply Isolation, Buried Fire Loops, NFPA 24 Networks		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	<b>VALVE OPERATION REQUIREMENT</b>				
14	Type of Valve Operator	Adjustable-depth telescopic post with 'OPEN'/'SHUT' target windows coupled to a resilient-seated gate or butterfly valve -- satisfies NFPA 24 visible valve-position supervision		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	<b>VALVE MATERIAL SPECIFICATION (EQUIVALENT OR SUPERIOR)</b>				
	Valve Part	Specified Material	Proposed Material (Supreme Valves India)		
	Body	As per project specification	Ductile Iron ASTM A536 / Cast Iron ASTM A126 Class B (Indicator Post)		
	Bonnet / Cover	As per standard	As per standard / matching body grade		
	Trim (Disc / Seat)	As per standard	As per standard		
	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		
	Coupled Valve Body	As per standard	ASTM A216 WCB Carbon Steel / Ductile Iron		
	Coupled Valve Type	As per standard	Resilient Seated Gate Valve / Butterfly Valve		
	Target Assembly	As per standard	Aluminum / Cast Iron with polymer 'OPEN' / 'SHUT' indicating panels		
	Extension Rod	As per standard	High-Tensile Carbon Steel / Stainless Steel 304		
	Coating	As per standard	Fusion Bonded Epoxy (FBE) RAL 3000 Fire Red, DFT 250+ Microns		
	Operator	As per standard	Operating Wrench Handle with Lockable Cover		
17	<b>TESTING, INSPECTION &amp; CERTIFICATION REQUIREMENTS</b>				
18	Hydrostatic Shell Test	Hydrostatic 1.5x rated working pressure		Seat / Pneumatic Test	1.1x rated working pressure -- drop-tight

19	<b>NDT Requirements</b>	100% MPI / DPT on machined surfaces (if specified) -- Radiography / Ultrasonic on request		
20	<b>Required Certificates / MTC</b>	EN 10204 3.1 MTC (standard) -- EN 10204 3.2 / third-party inspection on request		
21	<b>Witness / Inspection Agency</b>	Client / TPI representative (if specified)	<b>Third Party Inspection</b>	TUV / SGS / BV / Lloyds Register (client cost)
22	<b>PAINTING, PRESERVATION &amp; PACKING</b>			
23	<b>Painting / Coating Specification</b>	Standard: one coat primer + two coats synthetic enamel (colour per client spec) -- special coatings (epoxy, PTFE, rubber lining) on request		
24	<b>Packing Requirement</b>	Wooden cases / pallets with VCI protection -- sea-worthy packing for export on request		

<b>26 NOTES</b>				
<p>1. This datasheet covers standard specifications for UL / FM Approved Post Indicator Valve (PIV) Assembly.</p> <p>2. Design Standard: UL 789, FM 1120, NFPA 24, ASME B16.1.</p> <p>3. Application / Service: Fire Service Water Mains, Sprinkler Supply Isolation, Buried Fire Loops, NFPA 24 Networks.</p> <p>4. Size Range: 4" to 24" (DN100 – DN600). Pressure Rating: Class 150 / PN16 (175 psi rated).</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: Wall-mount (WPIV) and vertical post configurations 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>				

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

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