



# SUPREME ENTERPRISE

## Industrial Valves

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Doc. No.	SV-DATA-2026-NEEDLE_VALVE_HIGH_PRESSURE_INSTRUMENT_SS316	Supreme Valves India -- Technical Datasheet	Page	1 OF 1
Rev.	A		Date	24-May-2026

<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.	API / ASME / BS / IS / EN (as applicable)		
<b>1</b>	<b>GENERAL</b>			
2	P&ID No. / Tag No.	N/A -- Product Datasheet	Piping Class	As per product rating
3	Valve Tag / Item No.	N/A -- Product Datasheet	Quantity Required	As required
4	Design Standard	API / ASME / BS / IS / EN (as applicable)	Pressure Class / Rating	As per product rating
5	Valve Size, Inlet x Outlet	As per product range	End Connection	Flanged (FF/RF/RTJ) / Screwed (BSP/NPT) / Socket Weld / Butt Weld -- as per specification
6	Valve Type / Model	Supreme Valves India	Operation Mode	Manual (Handwheel / Lever) -- Electric / Pneumatic / Hydraulic actuator available on request
6A	Service / Application	Industrial / Oil & Gas / Power / Water / Marine (as applicable)	Fluid State	Liquid / Gas / Steam (as applicable)
<b>7</b>	<b>DESIGN CONDITIONS</b>			
8	Design Pressure (barg)	As per pressure class rating	Design Temp. Min / Max (deg C)	-29 deg C to +425 deg C (standard) -- Higher/lower on request
9	Operating Pressure (barg)	As per pressure class rating	Operating Temp. (deg C)	Ambient to +200 deg C (standard) -- Project-specific on request
10	Set Pressure / Relief Pressure (barg)	N/A -- Product Datasheet	Back Pressure (barg)	N/A -- Product Datasheet
11	Fluid Handled / Service	As per application / service	Corrosion Allowance (mm)	As per project specification
12	Required Capacity / Flow Rate	As per valve size and pressure class	Location / Installation	Indoor / Outdoor / Offshore / Marine (as applicable)
<b>13</b>	<b>VALVE OPERATION REQUIREMENT</b>			
14	Type of Valve Operator	Manual (Handwheel / Lever / Gear) -- Actuated options available	Actuator Specification No.	ISO 5211 mounting pad (for actuated valves) -- Electric / Pneumatic / Hydraulic actuator on request
15	Fail-Safe Position	As per project / application requirements	Accessories Required	Limit switches, positioners, solenoid valves, manual override -- on request
<b>16</b>	<b>VALVE MATERIAL SPECIFICATION (EQUIVALENT OR SUPERIOR)</b>			
	Valve Part	Specified Material	Proposed Material (Supreme Valves India)	

<b>Body</b>	As per design standard	As per design standard
<b>Bonnet / Cover</b>	As per design standard	As per design standard
<b>Trim (Disc / Seat)</b>	As per design standard	SS410 / SS316 / Bronze (as applicable)
<b>Stem / Spindle</b>	As per design standard	SS410 / SS304 / SS316
<b>Gasket / Packing</b>	As per design standard	Graphite / PTFE / CI Ring (as applicable)
<b>Bolting / Nuts</b>	As per design standard	Carbon Steel / Alloy Steel (as applicable)

<b>17</b>	<b>TESTING, INSPECTION &amp; CERTIFICATION REQUIREMENTS</b>		
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<b>18</b>	<b>Hydrostatic Test</b>	Shell 1.5 x WP, Seat 1.1 x WP	<b>Seat / Pneumatic Test</b>	Shell 1.5 x WP, Seat 1.1 x WP
<b>19</b>	<b>NDT Requirements</b>	100% MPI / DPT on machined surfaces (if specified by project) -- Radiography / Ultrasonic on request		
<b>20</b>	<b>Required Certificates / MTC</b>	EN 10204 3.1 MTC (standard) -- EN 10204 3.2 / Third-party inspection on request		
<b>21</b>	<b>Witness / Inspection Agency</b>	Client / TPI representative (if specified)	<b>Third Party Inspection</b>	TUV / SGS / BV / Lloyds Register (client cost)

<b>22</b>	<b>PAINTING, PRESERVATION &amp; PACKING</b>			
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<b>23</b>	<b>Painting / Coating Specification</b>	Standard: One coat primer + two coats synthetic enamel (colour as per client specification) -- Special coatings available on request		
<b>24</b>	<b>Packing Requirement</b>	Wooden cases / pallets with VCI protection -- Sea-worthy packing for export on request		

<b>26</b>	<b>NOTES</b>			
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<p>1. This datasheet covers standard specifications for Supreme Valves India.</p> <p>2. Design Standard: API / ASME / BS / IS / EN / ISO (as applicable to product type).</p> <p>3. Application: Industrial process, oil &amp; gas, power, water, HVAC, marine (as applicable for Supreme Valves India).</p> <p>4. All valves are manufactured new and unused by ISO 9001 certified foundry.</p> <p>5. Material Test Certificates (MTC) per EN 10204 3.1 provided as standard; EN 10204 3.2 available on request at additional cost.</p> <p>6. Testing performed per ISO 5208 / API 598: Shell test at 1.5 x rated pressure, Seat test at 1.1 x rated pressure -- bubble-tight zero leakage.</p> <p>7. Face-to-face dimensions per ASME B16.10 / BS 2080 / Manufacturer standard unless otherwise specified.</p> <p>8. Marking per MSS SP-25: Size, Pressure Class, Material, Heat Number, Tag Number, Serial Number, Flow Direction.</p> <p>9. Special materials (Duplex, Super Duplex, Inconel, Monel, Hastelloy, Titanium) available on request with extended delivery.</p> <p>10. Actuated valves (electric, pneumatic, hydraulic) supplied with ISO 5211 mounting pad and position indicator.</p> <p>11. Third-party inspection by TUV, SGS, Bureau Veritas, or Lloyds Register available on request at client cost.</p> <p>12. This datasheet is for general reference. Firm specifications to be confirmed upon receipt of confirmed Purchase Order with technical requirements.</p> <p>13. For specific project requirements, deviation forms, or material substitutions, please contact our engineering team.</p>				
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<b>RH</b>	<b>REVISION HISTORY</b>			
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Rev.	Date	Description of Change	Prepared / Reviewed / Approved
A	24-May-2026	Initial issue -- Product datasheet generated from standard catalogue	Supreme Valves India -- Technical Department

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



Diaphragm Valve



Globe Valve



Check Valve



Needle Valve



Plug Valve



Butterfly Valve



Piston Valve



Relief Valve



Ball Valve