



# SUPREME ENTERPRISE

## Industrial Valves

4th Floor, Survey No. 235/A and 247/A, E/401, Zam Zam App., Nr. Bhattha School, Nr. Classic Park, Gyaspur, Ahmedabad Gujarat 382405

India

GSTIN 24AFAFS5839J1ZQ

supremevalvesindia@gmail.com | www.supremevalves.in

9773278770

Doc. No.	SV-DATA-2026-PILOT_OPERATED_SAFETY_VALVE	Pilot Operated Safety Valve -- 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 526, ASME Section VIII		
<b>1</b>	<b>GENERAL</b>			
2	P&ID No. / Tag No.	N/A -- Product Datasheet	Piping Class	PN16-PN160 / Class 150-900
3	Valve Tag / Item No.	N/A -- Product Datasheet	Quantity Required	As required
4	Design Standard	API 526, ASME Section VIII	Pressure Class / Rating	PN16-PN160 / Class 150-900
5	Valve Size, Inlet x Outlet	25mm to 300mm	End Connection	Flanged (FF/RF/RTJ) / Screwed (BSP/NPT) / Socket Weld / Butt Weld -- as per specification
6	Valve Type / Model	Pilot Operated Safety Valve	Operation Mode	Manual (Handwheel / Lever) -- Electric / Pneumatic / Hydraulic actuator available on request
6A	Service / Application	Gas, Liquid, Near Zero Overpressure	Fluid State	Liquid / Gas / Steam (as applicable)
<b>7</b>	<b>DESIGN CONDITIONS</b>			
8	Design Pressure (barg)	PN16-PN160 / Class 150-900	Design Temp. Min / Max (deg C)	-29 deg C to +425 deg C (standard) -- Higher/lower on request
9	Operating Pressure (barg)	PN16-PN160 / Class 150-900	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	Gas, Liquid, Near Zero Overpressure	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>	CS / SS / Duplex	CS / SS / Duplex
	<b>Bonnet / Cover</b>	As per standard	As per standard
	<b>Trim (Disc / Seat)</b>	As per standard	SS410 / SS316 / Bronze (as applicable)
	<b>Stem / Spindle</b>	As per standard	SS410 / SS304 / SS316
	<b>Gasket / Packing</b>	As per standard	Graphite / PTFE / CI Ring (as applicable)
	<b>Bolting / Nuts</b>	As per 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>	Set Pressure	<b>Seat / Pneumatic Test</b>	Seat Leakage
<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 (epoxy, PTFE, rubber lining) 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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1. This datasheet covers standard specifications for Pilot Operated Safety Valve.
2. Design Standard: API 526, ASME Section VIII.
3. Application: Gas, Liquid, Near Zero Overpressure.
4. Size Range: 25mm to 300mm. Pressure Rating: PN16-PN160 / Class 150-900.
5. All valves are manufactured new and unused by ISO 9001 certified 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 1.5 x rated pressure, Seat test at 1.1 x 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. Special materials (Duplex, Super Duplex, Inconel, Monel, Hastelloy, Titanium) available on request with extended delivery.
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.

<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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PREPARED BY	REVIEWED BY	APPROVED BY
Supreme Valves India Technical Department Ahmedabad, India _____ Signature / Date	_____ Name / Signature / Date	_____ Name / Signature / Date



Gate Valve



Diaphragm Valve



Globe Valve



Check Valve



Needle Valve



Plug Valve



Butterfly Valve



Piston Valve



Relief Valve



Ball Valve