



# SUPREME ENTERPRISE

## Industrial Valves

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Doc. No.	SV-DATA-2026-1081_CAST_IRON_CHECK_VALVE	Cast Iron Check Valve -- Technical Datasheet	Page	1 OF 1
Rev.	A		Date	24-May-2026

<b>R</b>	<b>REFERENCES &amp; RELATED DOCUMENTS</b>			
<b>R1</b>	<b>P&amp;ID / Process Diagram</b>	N/A -- Product Datasheet	<b>Piping Material Spec.</b>	N/A -- Product Datasheet
<b>R2</b>	<b>Project Standard / Spec.</b>	IS 5312, IS 210		
<b>1</b>	<b>GENERAL</b>			
<b>2</b>	<b>P&amp;ID No. / Tag No.</b>	N/A -- Product Datasheet	<b>Piping Class</b>	PN10 / 1.0 MPa
<b>3</b>	<b>Valve Tag / Item No.</b>	N/A -- Product Datasheet	<b>Quantity Required</b>	As required
<b>4</b>	<b>Design Standard</b>	IS 5312, IS 210	<b>Pressure Class / Rating</b>	PN10 / 1.0 MPa
<b>5</b>	<b>Valve Size, Inlet x Outlet</b>	50mm to 300mm	<b>End Connection</b>	Flanged (FF/RF/RTJ) / Screwed (BSP/NPT) / Socket Weld / Butt Weld -- as per specification
<b>6</b>	<b>Valve Type / Model</b>	Cast Iron Check Valve	<b>Operation Mode</b>	Manual (Handwheel / Lever) -- Electric / Pneumatic / Hydraulic actuator available on request
<b>6A</b>	<b>Service / Application</b>	Water, Sewage, Pump Protection	<b>Fluid State</b>	Liquid / Gas / Steam (as applicable)
<b>7</b>	<b>DESIGN CONDITIONS</b>			
<b>8</b>	<b>Design Pressure (barg)</b>	PN10 / 1.0 MPa	<b>Design Temp. Min / Max (deg C)</b>	-29 deg C to +425 deg C (standard) -- Higher/lower on request
<b>9</b>	<b>Operating Pressure (barg)</b>	PN10 / 1.0 MPa	<b>Operating Temp. (deg C)</b>	Ambient to +200 deg C (standard) -- Project-specific on request
<b>10</b>	<b>Set Pressure / Relief Pressure (barg)</b>	N/A -- Product Datasheet	<b>Back Pressure (barg)</b>	N/A -- Product Datasheet
<b>11</b>	<b>Fluid Handled / Service</b>	Water, Sewage, Pump Protection	<b>Corrosion Allowance (mm)</b>	As per project specification
<b>12</b>	<b>Required Capacity / Flow Rate</b>	As per valve size and pressure class	<b>Location / Installation</b>	Indoor / Outdoor / Offshore / Marine (as applicable)
<b>13</b>	<b>VALVE OPERATION REQUIREMENT</b>			
<b>14</b>	<b>Type of Valve Operator</b>	Manual (Handwheel / Lever / Gear) -- Actuated options available	<b>Actuator Specification No.</b>	ISO 5211 mounting pad (for actuated valves) -- Electric / Pneumatic / Hydraulic actuator on request
<b>15</b>	<b>Fail-Safe Position</b>	As per project / application requirements	<b>Accessories Required</b>	Limit switches, positioners, solenoid valves, manual override -- on request
<b>16</b>	<b>VALVE MATERIAL SPECIFICATION (EQUIVALENT OR SUPERIOR)</b>			
	<b>Valve Part</b>	<b>Specified Material</b>	<b>Proposed Material (Supreme Valves India)</b>	

<b>Body</b>	Cast Iron IS 210 Gr. FG 200	Cast Iron IS 210 Gr. FG 200
<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>	Shell 1.5 MPa	<b>Seat / Pneumatic Test</b>	Seat 1.1 MPa
<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 Cast Iron Check Valve.
2. Design Standard: IS 5312, IS 210.
3. Application: Water, Sewage, Pump Protection.
4. Size Range: 50mm to 300mm. Pressure Rating: PN10 / 1.0 MPa.
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