



# SUPREME ENTERPRISE

## Industrial Valves

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| Doc. No. | SV-DATA-2026-<br>EXTERNAL_PILOT_OPERATED_DIRECTIONAL_CONTROL_VALVE_DCC | External Pilot Operated Directional Control Valve   DCC Series -- Technical Datasheet | Page | 1 OF 1      |
| Rev.     | A  |   | Date | 24-May-2026 |

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|-----------|--|---|--|---|
| <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   | External Pilot Operated Directional Control Valve   DCC Series  | 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) |   |

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|---------------------------|------------------------|--|
| <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) |

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| <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) |

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| <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   |  |  |

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| <b>26</b> | <b>NOTES</b> |  |  |  |
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| <p>1. This datasheet covers standard specifications for External Pilot Operated Directional Control Valve   DCC Series.</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 External Pilot Operated Directional Control Valve   DCC Series).</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 |

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



Diaphragm Valve



Globe Valve



Check Valve



Needle Valve



Plug Valve



Butterfly Valve



Piston Valve



Relief Valve



Ball Valve