



# SUPREME ENTERPRISE

Industrial Valves

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|----------|---|--|------|-------------|
| Doc. No. | SV-DATA-2026-SUPREME_3_WAY_DIRECT_ACTING_SOLENOID_VALVE_MANUFACTURER_IN_INDIA | <b>Supreme 3 Way Direct Acting Solenoid Valve Manufacturer in India -- Technical Datasheet</b> | Page | 1 OF 1      |
| Rev.     | A   |  | Date | 13-Jun-2026 |

**R REFERENCES & RELATED DOCUMENTS**

|    |                          |   |                       |                          |
|----|--------------------------|---|-----------------------|--------------------------|
| R1 | P&ID / Process Diagram   | N/A -- Product Datasheet                      | Piping Material Spec. | N/A -- Product Datasheet |
| R2 | Project Standard / Spec. | IS 14735 / IEC 60947, coil IP65 per IEC 60529 |                       |                          |

**1 GENERAL**

|    |                            |   |                         |   |
|----|----------------------------|---|-------------------------|---|
| 2  | P&ID No. / Tag No.         | N/A -- Product Datasheet  | Piping Class            | 0 to 16 bar differential (model dependent; vacuum and high-pressure PBN series on request)  |
| 3  | Valve Tag / Item No.       | N/A -- Product Datasheet  | Quantity Required       | As required   |
| 4  | Design Standard            | IS 14735 / IEC 60947, coil IP65 per IEC 60529   | Pressure Class / Rating | 0 to 16 bar differential (model dependent; vacuum and high-pressure PBN series on request)  |
| 5  | Valve Size, Inlet x Outlet | 1/4" to 2" (screwed)  | End Connection          | Screwed BSP / NPT (flanged on 2½" and larger)   |
| 6  | Valve Type / Model         | Supreme 3 Way Direct Acting Solenoid Valve Manufacturer in India                      | Operation Mode          | 3/2-Way normally closed (nc) direct acting solenoid valve. Standard coils 24V DC and 110 / 230V AC 50/60 Hz (other voltages on request). Operating temperature Ambient to 140°C. Manual override and DIN 43650 connector available. |
| 6A | Service / Application      | Process Automation, Pneumatic Skids, Water / Air / Gas / Steam Control, OEM Equipment | Fluid State             | Liquid / Gas / Steam (as applicable)  |

**7 DESIGN CONDITIONS**

|    |                               |  |                         |   |
|----|-------------------------------|--|-------------------------|---|
| 8  | Design Pressure               | 0 to 16 bar differential (model dependent; vacuum and high-pressure PBN series on request) | Design Temp. Min / Max  | -29°C to +425°C (standard) -- higher/lower on request       |
| 9  | Operating Pressure            | 0 to 16 bar differential (model dependent; vacuum and high-pressure PBN series on request) | 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       | Process Automation, Pneumatic Skids, Water / Air / Gas / Steam Control, OEM Equipment      | 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 VALVE OPERATION REQUIREMENT**

|    |                        |   |                        |   |
|----|------------------------|---|------------------------|---|
| 14 | Type of Valve Operator | 3/2-Way normally closed (nc) direct acting solenoid valve. Standard coils 24V DC and 110 / 230V AC 50/60 Hz (other voltages on request). Operating temperature Ambient to 140°C. Manual override and DIN 43650 connector available. | 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 VALVE MATERIAL SPECIFICATION (EQUIVALENT OR SUPERIOR)**

| Valve Part          | Specified Material           | Proposed Material (Supreme Valves India)                                  |
|---------------------|------------------------------|---|
| Body                | As per project specification | Brass / CF8 (SS304) / CF8M (SS316) body                                   |
| Bonnet / Cover      | As per standard              | As per standard / matching body grade                                     |
| Trim (Disc / Seat)  | As per standard              | NBR / EPDM / Viton (FKM) / PTFE -- selected per media                     |
| 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  |
| Coil                | As per standard              | Class F / H insulation, continuously rated, IP65 (Ex d / IP67 on request) |
| Core / Plunger Tube | As per standard              | Stainless Steel 304 / 430F  |
| Seat                | As per standard              | PTFE / metal (per service)  |
| Spring              | As per standard              | Stainless Steel 304 / 316   |

|    |   |   |  |
|----|---|---|--|
| 17 | <b>TESTING, INSPECTION &amp; CERTIFICATION REQUIREMENTS</b> |   |  |
| 18 | <b>Hydrostatic Shell Test</b>                               | Hydrostatic shell test per IS 14735 / manufacturer standard   | <b>Seat / Pneumatic Test</b><br>Pneumatic seat leak test -- bubble-tight at rated differential |
| 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><br>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  |  |

|  |              |  |  |
|--|--------------|--|--|
| 26   | <b>NOTES</b> |  |  |
| <p>1. This datasheet covers standard specifications for Supreme 3 Way Direct Acting Solenoid Valve Manufacturer in India.</p> <p>2. Design Standard: IS 14735 / IEC 60947, coil IP65 per IEC 60529.</p> <p>3. Application / Service: Process Automation, Pneumatic Skids, Water / Air / Gas / Steam Control, OEM Equipment.</p> <p>4. Size Range: 1/4" to 2" (screwed). Pressure Rating: 0 to 16 bar differential (model dependent; vacuum and high-pressure PBN series on request).</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: Body options: Brass / CF8 (SS304) / CF8M (SS316). Viton / EPDM / PTFE seals per media; explosion-proof (Ex d) and plastic-body variants 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> |              |  |  |

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

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