



# SUPREME ENTERPRISE

Industrial Valves

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Doc. No.	SV-DATA-2026-2_INCH_MONOFLANGE_DBB_VALVE_254_SMO_CLASS_300			Page	1 OF 1
Rev.	A			Date	13-Jun-2026
<b>2 Inch Monoflange DBB Valve 254 SMO Class 300 -- Technical Datasheet</b>					
<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.	ASME B16.34, IEC 61518, NACE MR0175, API 598			
<b>1</b>	<b>GENERAL</b>				
2	P&ID No. / Tag No.	N/A -- Product Datasheet	Piping Class	Class 300 (Class 150–900 on request)	
3	Valve Tag / Item No.	N/A -- Product Datasheet	Quantity Required	As required	
4	Design Standard	ASME B16.34, IEC 61518, NACE MR0175, API 598	Pressure Class / Rating	Class 300 (Class 150–900 on request)	
5	Valve Size, Inlet x Outlet	2" (DN50) flanged process x NPT / flanged instrument connection	End Connection	Flanged RF 2" (DN50) process x 1/2" NPT(F) instrument (per tag)	
6	Valve Type / Model	2 Inch Monoflange DBB Valve 254 SMO Class 300	Operation Mode	Single-piece monoflange combining primary isolation, secondary isolation, and bleed -- reduces weight, leak paths, and installation cost on transmitter/gauge hookups; 254 SMO for chloride/sour resistance	
6A	Service / Application	Instrumentation, Pressure Transmitter & Gauge Hookups, Metering Skids, Offshore Platforms	Fluid State	Liquid / Gas / Steam (as applicable)	
<b>7</b>	<b>DESIGN CONDITIONS</b>				
8	Design Pressure	Class 300 (Class 150–900 on request)	Design Temp. Min / Max	-29°C to +425°C (standard) -- higher/lower on request	
9	Operating Pressure	Class 300 (Class 150–900 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	Instrumentation, Pressure Transmitter & Gauge Hookups, Metering Skids, Offshore Platforms	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)	
<b>13</b>	<b>VALVE OPERATION REQUIREMENT</b>				
14	Type of Valve Operator	Single-piece monoflange combining primary isolation, secondary isolation, and bleed -- reduces weight, leak paths, and installation cost on transmitter/gauge hookups; 254 SMO for chloride/sour resistance	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	
<b>16</b>	<b>VALVE MATERIAL SPECIFICATION (EQUIVALENT OR SUPERIOR)</b>				
	Valve Part	Specified Material	Proposed Material (Supreme Valves India)		
	Body	As per project specification	254 SMO Super Austenitic Stainless Steel (UNS S31254 / 6Mo)		
	Bonnet / Cover	As per standard	Metal-to-metal + Graphite (fire-safe API 607)		
	Trim (Disc / Seat)	As per standard	As per standard		
	Stem / Spindle	As per standard	254 SMO / SS316 anti-tamper, non-rotating tip		
	Gasket / Packing	As per standard	PTFE / Graphite, fire-safe		
	Bolting / Nuts	As per standard	ASTM A193 B8M / B7M		
	Isolation Configuration	As per standard	Primary block (OS&Y needle / ball) + secondary block + bleed (DBB)		
<b>17</b>	<b>TESTING, INSPECTION &amp; CERTIFICATION REQUIREMENTS</b>				
18	Hydrostatic Shell Test	Hydrostatic 7.7 MPa (1125 psi)	Seat / Pneumatic Test	Hydrostatic 5.6 MPa (815 psi)	
19	NDT Requirements	100% MPI / DPT on machined surfaces (if specified) -- Radiography / Ultrasonic on request			
20	Required Certificates / MTC	EN 10204 3.1 MTC (standard) -- EN 10204 3.2 / third-party inspection on request			
21	Witness / Inspection Agency	Client / TPI representative (if specified)	Third Party Inspection	TUV / SGS / BV / Lloyds Register (client cost)	
<b>22</b>	<b>PAINTING, PRESERVATION &amp; PACKING</b>				

23	Painting / Coating Specification	Standard: one coat primer + two coats synthetic enamel (colour per client spec) -- special coatings (epoxy, PTFE, rubber lining) on request
24	Packing Requirement	Wooden cases / pallets with VCI protection -- sea-worthy packing for export on request
<b>26 NOTES</b>		
<ol style="list-style-type: none"> <li>1. This datasheet covers standard specifications for 2 Inch Monoflange DBB Valve 254 SMO Class 300.</li> <li>2. Design Standard: ASME B16.34, IEC 61518, NACE MR0175, API 598.</li> <li>3. Application / Service: Instrumentation, Pressure Transmitter &amp; Gauge Hookups, Metering Skids, Offshore Platforms.</li> <li>4. Size Range: 2" (DN50) flanged process x NPT / flanged instrument connection. Pressure Rating: Class 300 (Class 150-900 on request).</li> <li>5. All valves are manufactured new and unused by an ISO 9001 compliant foundry.</li> <li>6. Material Test Certificates (MTC) per EN 10204 3.1 provided as standard; EN 10204 3.2 available on request at additional cost.</li> <li>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.</li> <li>8. Face-to-face dimensions per ASME B16.10 / BS 2080 / manufacturer standard unless otherwise specified.</li> <li>9. Marking per MSS SP-25: Size, Pressure Class, Material, Heat Number, Tag Number, Serial Number, Flow Direction.</li> <li>10. Alternative / upgraded materials: Duplex 2205 / Super Duplex / Inconel 625 monoflange bodies available on request.</li> <li>11. Actuated valves (electric, pneumatic, hydraulic) supplied with ISO 5211 mounting pad and position indicator.</li> <li>12. Third-party inspection by TUV, SGS, Bureau Veritas, or Lloyds Register available on request at client cost.</li> <li>13. This datasheet is for general reference. Firm specifications to be confirmed upon receipt of confirmed Purchase Order with technical requirements.</li> <li>14. For specific project requirements, deviation forms, or material substitutions, please contact our engineering team.</li> </ol>		

<b>RH</b>	<b>REVISION HISTORY</b>					
	<b>Rev.</b>	<b>Date</b>	<b>Description of Change</b>	<b>Prepared / Reviewed / Approved</b>		
	A	13-Jun-2026	Initial issue -- Product datasheet generated from standard catalogue	Supreme Valves India -- Technical Department		
<b>AP</b>	<b>DOCUMENT APPROVAL</b>					
	<b>PREPARED BY</b> Supreme Valves India -- Technical Department, Ahmedabad  _____ Signature / Date		<b>REVIEWED BY</b>  _____ Name / Signature / Date		<b>APPROVED BY</b>  _____ Name / Signature / Date	