



# SUPREME ENTERPRISE

Industrial Valves

4th Floor, Survey No. 235/A and 247/A, E/401, Nr. Bhattha School, Gyaspur, Ahmedabad, Gujarat 382405, India | Branch: Mehta House, Relief Road, Ahmedabad 380001  
 GST 24AFAFSS5839J1ZQ • IEC AFAFSS5839J • info@supremevalves.in | www.supremevalves.in • +91 97732 78770

Doc. No.	SV-DATA-2026-DUAL_PLATE_WAFER_CHECK_VALVE_CLASS_600			Page	1 OF 1
Rev.	A			Date	13-Jun-2026
<b>Dual Plate Wafer Check Valve Class 600 -- 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.	API 594, ASME B16.34, ASME B16.5			
1	<b>GENERAL</b>				
2	P&ID No. / Tag No.	N/A -- Product Datasheet	Piping Class	Class 600	
3	Valve Tag / Item No.	N/A -- Product Datasheet	Quantity Required	As required	
4	Design Standard	API 594, ASME B16.34, ASME B16.5		Pressure Class / Rating	Class 600
5	Valve Size, Inlet x Outlet	2" to 48" (DN50–DN1200)		End Connection	Wafer type, installed between ASME B16.5 flanges
6	Valve Type / Model	Dual Plate Wafer Check Valve Class 600		Operation Mode	Spring-loaded twin plates open under flow and close on reversal -- compact, lightweight pipeline isolation with hermetic shaft support and double springs on larger sizes
6A	Service / Application	Oil & Gas, Petrochemical, Water Treatment, Power Generation		Fluid State	Liquid / Gas / Steam (as applicable)
7	<b>DESIGN CONDITIONS</b>				
8	Design Pressure	Class 600		Design Temp. Min / Max	-29°C to +425°C (standard) -- higher/lower on request
9	Operating Pressure	Class 600		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	Oil & Gas, Petrochemical, Water Treatment, Power Generation		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	<b>VALVE OPERATION REQUIREMENT</b>				
14	Type of Valve Operator	Spring-loaded twin plates open under flow and close on reversal -- compact, lightweight pipeline isolation with hermetic shaft support and double springs on larger sizes		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	<b>VALVE MATERIAL SPECIFICATION (EQUIVALENT OR SUPERIOR)</b>				
	Valve Part	Specified Material		Proposed Material (Supreme Valves India)	
	Body	As per project specification		ASTM A216 WCB (Carbon Steel) / A351 CF8M	
	Bonnet / Cover	As per standard		As per standard / matching body grade	
	Trim (Disc / Seat)	As per standard		Integral metal-to-metal or resilient PTFE/Viton	
	Stem / Spindle	As per standard		SS316, hermetically supported	
	Gasket / Packing	As per standard		Spiral wound SS316 + graphite	
	Bolting / Nuts	As per standard		ASTM A193 B7 / A194 2H	
	Plates	As per standard		A216 WCB + Stellite or CF8M with PTFE/Viton seal	
	Springs	As per standard		Inconel X-750 (double springs on 8" and larger)	
	NACE Compliance	As per standard		MR0175 / ISO 15156 available on request	
17	<b>TESTING, INSPECTION &amp; CERTIFICATION REQUIREMENTS</b>				
18	Hydrostatic Shell Test	Hydrostatic 15.3 MPa (2225 psi)		Seat / Pneumatic Test	Hydrostatic 11.2 MPa (1630 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)
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
<b>26 NOTES</b>		
<p>1. This datasheet covers standard specifications for Dual Plate Wafer Check Valve Class 600.</p> <p>2. Design Standard: API 594, ASME B16.34, ASME B16.5.</p> <p>3. Application / Service: Oil &amp; Gas, Petrochemical, Water Treatment, Power Generation.</p> <p>4. Size Range: 2" to 48" (DN50–DN1200). Pressure Rating: Class 600.</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: A351 CF8M (SS316), Duplex, and Monel variants available 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>		

<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>			
	<p style="text-align: center;"><b>PREPARED BY</b> Supreme Valves India -- Technical Department, Ahmedabad</p> <p>_____</p> <p style="text-align: center;">Signature / Date</p>	<p style="text-align: center;"><b>REVIEWED BY</b></p> <p>_____</p> <p style="text-align: center;">Name / Signature / Date</p>		<p style="text-align: center;"><b>APPROVED BY</b></p> <p>_____</p> <p style="text-align: center;">Name / Signature / Date</p>