



# 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

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Rev.	A			Date	13-Jun-2026
<b>Manual Pinch Valve Flanged -- 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.	Manufacturer Standard, API 598 (where applicable)			
1	<b>GENERAL</b>				
2	P&ID No. / Tag No.	N/A -- Product Datasheet	Piping Class	PN10 / PN16	
3	Valve Tag / Item No.	N/A -- Product Datasheet	Quantity Required	As required	
4	Design Standard	Manufacturer Standard, API 598 (where applicable)		Pressure Class / Rating	PN10 / PN16
5	Valve Size, Inlet x Outlet	DN25 to DN300 (1" to 12")		End Connection	Flanged ASME B16.1 / PN drilling
6	Valve Type / Model	Manual Pinch Valve Flanged		Operation Mode	Flexible elastomer sleeve is mechanically pinched closed by a handwheel -- only the replaceable sleeve contacts the media, giving full-bore unobstructed flow and drop-tight shut-off on abrasive slurry and tailings
6A	Service / Application	Abrasive Slurry, Tailings, Mining, Ash Handling, Cement		Fluid State	Liquid / Gas / Steam (as applicable)
7	<b>DESIGN CONDITIONS</b>				
8	Design Pressure	PN10 / PN16		Design Temp. Min / Max	-29°C to +425°C (standard) -- higher/lower on request
9	Operating Pressure	PN10 / PN16		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	Abrasive Slurry, Tailings, Mining, Ash Handling, Cement		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	Flexible elastomer sleeve is mechanically pinched closed by a handwheel -- only the replaceable sleeve contacts the media, giving full-bore unobstructed flow and drop-tight shut-off on abrasive slurry and tailings		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		Cast Iron / Ductile Iron / Aluminium Body with full-bore Elastomer Sleeve	
	Bonnet / Cover	As per standard		As per standard / matching body grade	
	Trim (Disc / Seat)	As per standard		Natural Rubber (NR) / EPDM / NBR / Hypalon / Butyl	
	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	
	Mechanism	As per standard		Handwheel via dual pinch bars	
	Body	As per project specification		Cast Iron / Ductile Iron / Aluminium	
	Coating	As per standard		Epoxy	
17	<b>TESTING, INSPECTION &amp; CERTIFICATION REQUIREMENTS</b>				
18	Hydrostatic Shell Test	Full-bore open flow test		Seat / Pneumatic Test	Drop-tight on full pinch closure
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
26	<b>NOTES</b>	
	<p>1. This datasheet covers standard specifications for Manual Pinch Valve Flanged.</p> <p>2. Design Standard: Manufacturer Standard, API 598 (where applicable).</p> <p>3. Application / Service: Abrasive Slurry, Tailings, Mining, Ash Handling, Cement.</p> <p>4. Size Range: DN25 to DN300 (1" to 12"). Pressure Rating: PN10 / PN16.</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: Pneumatic and open/close configurations, plus abrasion-grade sleeve compounds 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>
	A	13-Jun-2026	Initial issue -- Product datasheet generated from standard catalogue
			<b>Prepared / Reviewed / Approved</b>
			Supreme Valves India -- Technical Department
<b>AP</b>	<b>DOCUMENT APPROVAL</b>		
	<b>PREPARED BY</b> Supreme Valves India -- Technical Department, Ahmedabad	<b>REVIEWED BY</b>	<b>APPROVED BY</b>
	_____	_____	_____
	Signature / Date	Name / Signature / Date	Name / Signature / Date