



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 24AFAFS5839J1ZQ • IEC AFAFS5839J • info@supremevalves.in | www.supremevalves.in • +91 97732 78770

Doc. No.	SV-DATA-2026-DUPLEX_BASKET_STRAINER_AUTO_SWITCH			Page	1 OF 1
Rev.	A			Date	13-Jun-2026
Duplex Basket Strainer Auto Changeover -- Technical Datasheet					
R	REFERENCES & RELATED DOCUMENTS				
R1	P&ID / Process Diagram	N/A -- Product Datasheet	Piping Material Spec.	N/A -- Product Datasheet	
R2	Project Standard / Spec.	ASME B16.34, ASME B16.5, manufacturer fabrication practice			
1	GENERAL				
2	P&ID No. / Tag No.	N/A -- Product Datasheet	Piping Class	ASME Class 150 / 300	
3	Valve Tag / Item No.	N/A -- Product Datasheet	Quantity Required	As required	
4	Design Standard	ASME B16.34, ASME B16.5, manufacturer fabrication practice	Pressure Class / Rating	ASME Class 150 / 300	
5	Valve Size, Inlet x Outlet	2" to 24" (DN50 – DN600)	End Connection	Flanged RF per ASME B16.5	
6	Valve Type / Model	Duplex Basket Strainer Auto Changeover	Operation Mode	Two parallel baskets with a changeover diverter allow one basket to be cleaned while the other stays in service -- uninterrupted flow protection for cooling water and fuel-oil systems	
6A	Service / Application	Cooling Water, Fuel Oil, Continuous Process, Pump Protection	Fluid State	Liquid / Gas / Steam (as applicable)	
7	DESIGN CONDITIONS				
8	Design Pressure	ASME Class 150 / 300	Design Temp. Min / Max	-29°C to +425°C (standard) -- higher/lower on request	
9	Operating Pressure	ASME Class 150 / 300	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	Cooling Water, Fuel Oil, Continuous Process, Pump Protection	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	Two parallel baskets with a changeover diverter allow one basket to be cleaned while the other stays in service -- uninterrupted flow protection for cooling water and fuel-oil systems	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	ASTM A216 WCB / Cast Iron / Fabricated Carbon Steel		
	Bonnet / Cover	As per standard	Bolted (quick-open option)		
	Trim (Disc / Seat)	As per standard	As per standard		
	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		
	Baskets	As per standard	Twin SS304 / SS316 perforated plate / wire mesh		
	Changeover	As per standard	Manual plug or ball diverter (no flow interruption)		
	Drain / Vent	As per standard	CS / SS316 plugs		
17	TESTING, INSPECTION & CERTIFICATION REQUIREMENTS				
18	Hydrostatic Shell Test	Hydrostatic 7.7 MPa (1125 psi)	Seat / Pneumatic Test	N/A -- strainer (basket-retained)	
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	PAINTING, PRESERVATION & PACKING				

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
26 NOTES		
<p>1. This datasheet covers standard specifications for Duplex Basket Strainer Auto Changeover.</p> <p>2. Design Standard: ASME B16.34, ASME B16.5, manufacturer fabrication practice.</p> <p>3. Application / Service: Cooling Water, Fuel Oil, Continuous Process, Pump Protection.</p> <p>4. Size Range: 2" to 24" (DN50 – DN600). Pressure Rating: ASME Class 150 / 300.</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 body and SS316 baskets; differential pressure gauge ports 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 REVISION HISTORY				
	Rev.	Date	Description of Change	Prepared / Reviewed / Approved
	A	13-Jun-2026	Initial issue -- Product datasheet generated from standard catalogue	Supreme Valves India -- Technical Department
AP DOCUMENT APPROVAL				
	PREPARED BY Supreme Valves India -- Technical Department, Ahmedabad		REVIEWED BY	APPROVED BY
	_____		_____	_____
	Signature / Date		Name / Signature / Date	Name / Signature / Date