



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-FM_UL_FIRE_PROTECTION_BUTTERFLY_VALVE			FM / UL compliant Fire Protection Butterfly Valve (API 609, Concentric Lug) -- Technical Datasheet	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.	API 609 Category A, NFPA 13, ASME B16.5, API 598				
1	GENERAL					
2	P&ID No. / Tag No.	N/A -- Product Datasheet	Piping Class	Class 150 / PN16 (UL rated 300 psi WOG)		
3	Valve Tag / Item No.	N/A -- Product Datasheet	Quantity Required	As required		
4	Design Standard	API 609 Category A, NFPA 13, ASME B16.5, API 598		Pressure Class / Rating	Class 150 / PN16 (UL rated 300 psi WOG)	
5	Valve Size, Inlet x Outlet	2" to 24" (DN50 – DN600)		End Connection	Concentric Lug Type (Wafer optional), ASME B16.5 Class 150 drilling	
6	Valve Type / Model	FM / UL compliant Fire Protection Butterfly Valve (API 609, Concentric Lug)		Operation Mode	Worm gear operator with position indicator and supervisory tamper switch -- UL Listed / FM Approved for NFPA 13/14/20 sprinkler and hydrant networks	
6A	Service / Application	Fire Sprinkler Systems, Fire Hydrant Mains, NFPA 13/14/20 Networks, Building Protection		Fluid State	Liquid / Gas / Steam (as applicable)	
7	DESIGN CONDITIONS					
8	Design Pressure	Class 150 / PN16 (UL rated 300 psi WOG)		Design Temp. Min / Max	-29°C to +425°C (standard) -- higher/lower on request	
9	Operating Pressure	Class 150 / PN16 (UL rated 300 psi WOG)		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	Fire Sprinkler Systems, Fire Hydrant Mains, NFPA 13/14/20 Networks, Building 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	Worm gear operator with position indicator and supervisory tamper switch -- UL Listed / FM Approved for NFPA 13/14/20 sprinkler and hydrant networks		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 (Carbon Steel) / ASTM A536 Ductile Iron		
	Bonnet / Cover	As per standard		As per standard / matching body grade		
	Trim (Disc / Seat)	As per standard		Bronze (Gunmetal LG2 / C83600 per BS 1400) / SS316 / Fire-Resistant EPDM Rubber		
	Stem / Spindle	As per standard		Stainless Steel 410 / 416 (ASTM A276)		
	Gasket / Packing	As per standard		Spiral Wound SS316 + Graphite (ASME B16.20)		
	Bolting / Nuts	As per standard		ASTM A193 Gr. B7 (Studs) / A194 Gr. 2H (Nuts)		
	Operator	As per standard		Worm Gear with Position Indicator & Tamper Switch		
17	TESTING, INSPECTION & CERTIFICATION REQUIREMENTS					
18	Hydrostatic Shell Test	Hydrostatic 1.5x rated working pressure per API 598		Seat / Pneumatic Test	1.1x rated working pressure -- bubble-tight per API 598	
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

1. This datasheet covers standard specifications for FM / UL compliant Fire Protection Butterfly Valve (API 609, Concentric Lug).
2. Design Standard: API 609 Category A, NFPA 13, ASME B16.5, API 598.
3. Application / Service: Fire Sprinkler Systems, Fire Hydrant Mains, NFPA 13/14/20 Networks, Building Protection.
4. Size Range: 2" to 24" (DN50 – DN600). Pressure Rating: Class 150 / PN16 (UL rated 300 psi WOG).
5. All valves are manufactured new and unused by an ISO 9001 compliant foundry.
6. Material Test Certificates (MTC) per EN 10204 3.1 provided as standard; EN 10204 3.2 available on request at additional cost.
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.
8. Face-to-face dimensions per ASME B16.10 / BS 2080 / manufacturer standard unless otherwise specified.
9. Marking per MSS SP-25: Size, Pressure Class, Material, Heat Number, Tag Number, Serial Number, Flow Direction.
10. Alternative / upgraded materials: Wafer body style and chainwheel/electric supervised operators available on request.
11. Actuated valves (electric, pneumatic, hydraulic) supplied with ISO 5211 mounting pad and position indicator.
12. Third-party inspection by TUV, SGS, Bureau Veritas, or Lloyds Register available on request at client cost.
13. This datasheet is for general reference. Firm specifications to be confirmed upon receipt of confirmed Purchase Order with technical requirements.
14. For specific project requirements, deviation forms, or material substitutions, please contact our engineering team.

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	REVIEWED BY	APPROVED BY
Supreme Valves India -- Technical Department, Ahmedabad		
_____	_____	_____
Signature / Date	Name / Signature / Date	Name / Signature / Date