



ROSOV Automated Triple-offset Butterfly Valve (SIL-3 Capable)

Technical Datasheet & Specifications

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1. Product Overview

Parameter	Specification
Product Name	Triple Offset Butterfly Valve – Metal Seated (TOBV)
Description	Butterfly Valve for Oil & Gas, Petrochemical, Water Treatment. KSA/UAE export. A

2. Salient Features



✓ IBR Certified Valves

✓ NiAlBr NAB Valves

4. Technical Specifications

Parameter	Specification
Valve Standard	API 609 Category B, ASME B16.34, API 607 Fire-Safe
System Standards	IEC 61508, IEC 61511 (Functional Safety loops)
Safety Integrity	SIL-2 Certified, SIL-3 Capable (1oo2 redundant setup)
Pressure Rating	ASME Class 150 to 900, PN16 to PN160
Size Range	3" to 48" (80 mm to 1200 mm)
Actuation Types	Heavy-duty Scotch-Yoke Pneumatic, Electro-Hydraulic (Fail-Safe)
Safety Accessories	SIL-3 Redundant Solenoids, Smart Digital Positioners, PST units
Testing Standard	API 598, ISO 5208, Partial Stroke Test (PST) online
Stroke Time	Quick emergency shutdown (< 1.0 second options available)
Fire Safe Design	Certified to API 607 / ISO 10497 (intrinsically fire-safe)

5. Materials of Construction

Part	Standard Material
Valve Body	ASTM A216 WCB Carbon Steel / A352 LCB (Low Temp) / CF8M Stainless Steel
Valve Trim	Stellite 21 hardfaced Body Seat with SS316 + Graphite Laminar Seal
Actuator Cylinder	High-grade Epoxy-coated Carbon Steel / Ductile Iron (Heavy-duty offshore du
Actuator Springs	Shot-peened high-tensile alloy steel springs (Fail-Safe spring-return)
Piston Seals	Low-friction NBR/Viton double-lip seal with PTFE backing
Control Panel Box	Stainless Steel SS316 weather-proof & explosion-proof enclosure

6. Dimensions



Conforms to API 609 or ISO 5752 Series 20. Bore sizes are full-bore from DN80 to DN1200. Standard Wafer, Lug, and Flanged face-to-face dimensions. General arrangement drawings (GAD) featuring electric actuator, pneumatic scotch-yoke actuator, or manual gear box dimensions are supplied per Purchase Order.

7. Testing & Inspection

Test	Standard Reference	Acceptance Criteria
Body Hydrostatic Shell	API 598 / ISO 5208	1.5 x Class Rated Pressure (e.g. 30 bar for 150#)
High Pressure Seat	API 598 / ISO 5208	1.1 x Class Rated Pressure (e.g. 22 bar for 150#)
Low Pressure Seat Air	API 598 / EN 12266-1	6 bar air pressure, 60s hold, zero bubbles/leak
Fire Safe Test	API 607 / ISO 10497	Intrinsically fire-safe design verified by fire test
PMI & Casting NDT	ASTM E1476 / ASME V	PMI check on SS316/Duplex disc and laminate

8. Design Standards & Codes

Code/Standard	Description
API 609	Butterfly Valves: Double Flanged, Lugged, and Wafer Type (standard)
ASME B16.34	Valves -- Flanged, Threaded, and Welding End (master pressure-temp)
ASME B16.5 / B16.47	Pipe Flanges and Flanged Fittings (dimensional standards)
API 607 / ISO 10497	Fire Test for Soft-Seated Quarter-Turn Valves
NACE MR0175 / ISO 15156	Materials for use in H2S-containing environments in oil and gas produ

9. Documentation & Certification

Deliverable	Details / Status
Material Test Certificates	EN 10204 3.1 Mill Certificates with full chemical & mechanical heat tra
Pressure Test Reports	Hydrostatic and pneumatic test certificates signed by QA/QC inspect
Fire Safe Certificate	API 607 / ISO 10497 fire-safe certificates signed by Lloyd's



10. General Notes

Certified SIL-3 system capability for emergency trip applications

PST (Partial Stroke Testing) verifies valve functionality online

Heavy scotch-yoke actuator yields high break-to-open safety torque

Explosion-proof ATEX/IECEX components for Zone 1 and Zone 2 areas

Highly suited for: Bulk Oil & Gas Storage Terminals & Tank Farms

Highly suited for: Refinery Emergency Shutdown (ESD) & Blowdown Systems

Highly suited for: Offshore Platform Fire-Safe Isolation Safety Loops

Highly suited for: Chemical Plant Hazard Containment & Tank Farms

11. Contact & Enquiry

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Product Range

Gate Valves

Gate Valves Overview

Knife Edge Gate Valve

Sluice Valve

Pressure Seal Gate



API 600 Gate Valves

● **Globe Valves**

Globe Valves Overview

Piston Valve

Needle Valve

Pressure Reducing Valve

● **Ball Valves**

Ball Valves Overview

1-Piece Ball Valve

2-Piece Ball Valve

3-Piece Ball Valve

3-Way Ball Valve

Trunnion Ball Valve

Cryogenic Ball Valve

Fire Safe Ball Valve

✦ **Butterfly Valves**

Butterfly Valves Overview

Wafer Type

Lug Type

Flanged Type

NAB Seawater Valves

PTFE Lined

Triple Offset

✓ **Check Valves**

Check Valves Overview

Swing Check Valve

Dual Plate Check

Wafer Check Valve

Lift Check Valve

Non-Slam Check Valve

Silent Check Valve

Alloy 20 Valves



▼ Strainers & Filters

Y-Strainer

Basket Strainer

T-Strainer

🤖 Automated & Control

Actuated Ball Valves

Control Valve Pneumatic

Control Valve Electric

Automated Butterfly

★ Specialty & Other

Sight Glass

Flush Bottom Valve

Steam Trap

Safety Relief Valve

Blow Down Valve

Plug Valve

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