



BUTTERFLY VALVES

THE
STANDARD IN
**NON-
STANDARD
VALVES**



GENERAL INFORMATION

Butterfly valves are a type of quarter-turn valves used to regulate flow in a pipeline. Named for the wing-like motion of their disc, these valves are known for their simple construction, cost-effectiveness, and versatility. They are widely used in various industries, including water treatment, oil and gas, chemical processing, and HVAC systems.

It operates on a simple principle: a disc is rotated 90 degrees to open or close the flow path. When the disc is aligned with the flow, the valve is fully open, allowing maximum flow. Conversely, when the disc is perpendicular to the flow, the valve is closed, stopping the flow entirely.

Intermediate positions of the disc allow for throttling and control of the flow rate. This quarter-turn operation makes butterfly valves quick to operate and ideal for applications requiring frequent opening and closure.

Butterfly valves can be categorized based on several criteria, including the type of disc alignment, seat design, and actuation method. Key types are:

- Centered (Concentric) Butterfly Valves
- Double Offset Butterfly Valves
- Triple Offset Butterfly Valves
- Lug and Wafer Butterfly Valves

SUITABLE APPLICATIONS

- Water Treatment
- Oil and Gas
- Chemical Processing
- HVAC Systems
- Food & Beverage industry
- Power Generation
- Marine industry

UNIQUE FEATURES

- Quick Operation
- Cost-Effective
- Compact design
- Versatility
- Bi-directional
- Low maintenance
- Excellent throttling
- Low pressure drop

TECHNICAL SPECIFICATIONS

PROGRAMM

Size inch (DN)	4" (100) - 14" (350)
ANSI class (lbs)	150 - 600
API rating (psi)	400 - 1000
DIN rating (PN)	10 - 100

STANDARDS

API 609
EN 593
DIN
PED
Manufacturer standard

RANGE

Pressure	Vacuum to 100 bar(g)
Pressure	Vacuum to 1450 psi
Temperature	-40°C to +450°C
Temperature	-40°F to +842°F
	-320°F to +1562°F

CONSTRUCTION

One piece body	Lugged
Top entry	Wrench operated
Side entry	Gear operated
Wafer type	Actuated

DISC CONSTRUCTION

Double eccentric
Triple eccentric
Laminated

SEAT CONSTRUCTION

Renewable	Metal to metal
Soft	Laminated

OPTIONS FOR SOFT SEAT AND DISC

PTFE	PCTFE
PEEK	PCTFE
PTFE (Virgin / Reinforced)	Graphite (laminated)

OPTIONS FOR METAL SEAT AND DISC

Tungsten Carbide Coating
Stellite

TIGHTNESS PERFORMANCE

API 598
EN 12266 Part 1/2
Clients' specification

END CONNECTIONS

Flanged (FF / RF / RTJ)
Butt Weld
Double flanged
Clients' specification



Triple offset 12" - 900 lbs



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Moerbeij 15
3371 NZ
Hardinxveld-Giessendam
The Netherlands

T: +31 (0)184 - 67 78 70
info@merwedevalves.nl
www.merwedevalves.nl