

High Performance (Double Offset) Butterfly Valve: API 609

In a high performance butterfly valve, the stem is offset both from the disc centerline and from the pipe axis. As the valve opens, the disc moves away from the seat quickly, reducing wear and torque, so it can operate at higher pressures and temperatures than standard butterfly valves.

Technical specifications

Type	Wafer, lug, double-flanged
Pressure class	ASME Class 150, 300, 600
Seat	RPTFE, fire-safe (soft + metal), metal
Materials	WCB, CF8M, duplex; disc CF8M / duplex
Operation	Lever (small sizes), gear operator, pneumatic or electric actuator
Testing	API 598; API 607 for fire-safe designs



Double offset high-performance butterfly valve with lever · representative image

Key features

- Low wear and torque
- RPTFE, fire-safe and metal seat options
- Light, economical isolation in large sizes

Catalog data

Size and class	3"–48" (DN80–DN1200), Class 150–600; larger sizes on a project basis
Body type	Wafer, lug, double flanged
Design	API 609 Category B, double offset
Seat	PTFE, RPTFE, EPDM, NBR, FKM or metal; fire-safe design option
Sealing	Up to ANSI/FCI 70-2 Class VI, depending on seat design
Operation	Lever, gear operator, bare stem, pneumatic or electric actuator