

Triple Offset Butterfly Valve: Wafer, Lug and Double-Flanged

In a triple offset butterfly valve, the conical seat geometry adds a third offset to the two offsets of the stem axis, so the disc contacts the seat only at the moment of closing, without rubbing. Metal-to-metal sealing, high-temperature capability and long service life are achieved together.

Technical specifications

Type	Wafer, lug, double-flanged, butt-weld
Pressure class	ASME Class 150, 300, 600; higher classes on request
Sealing	Laminated or solid metal ring; metal-to-metal
Flanges	ASME B16.5; ASME B16.47 Series A/B above 24"
Materials	WCB, LCC, CF8M, duplex; nickel alloys such as Alloy 625 on request
Operation	Gear operator, pneumatic or electric actuator



Triple offset butterfly valve with gear operator · representative image

Key features

- Friction-free closing, low torque
- Near-zero leakage (metal-to-metal)
- Fire-safe design (API 607 type-tested options)
- Light and compact 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; flange dimensions to ASME B16.5 / B16.47
Design	API 609 Category B; metal-to-metal, laminated (metal + graphite) seal ring
Sealing	ANSI/FCI 70-2 Class V or API 598 metal-seated leakage criteria; bidirectional sealing design option
Materials	WCB, LCC, CF8M, duplex; also nickel alloys and aluminum bronze
Operation	Gear operator, pneumatic, electric or hydraulic actuator