



## BUTTERFLY VALVES

W45 series

Lugged Ansi 150 Butterfly Valve

Body: Epoxy Coated Ductile Iron

Disc: Aluminium Bronze

Stem: 416 Stainless Steel

Seat: Buna-N

Flange Drilling: ANSI 150 drilled and tapped

Handwheel and gearbox operation.

## W4840 Trim 35V Lugged ANSI 150 Butterfly Valve

PRESSURE RATINGS		
BI-DIRECTIONAL BUBBLE TIGHT SHUT-OFF – Standard Disc		
Downstream Flanges/Disc in closed position		
S30/31	50-300mm (2-12")	175psi (12 bar)
Standard Disc	350-500mm (14-20")	150psi 10.3 bar
DEAD-END SERVICE – Lug Bodies/Standard Disc		
No Downstream Flanges/Disc in closed position		
S31	50-300mm (2-12")	75psi (5.2 bar)
	350-500mm (14-20")	50psi 3.4 bar
BODY: 250 psi (17.2 bar) CWP		

VELOCITY LIMITS for On/Off Services:	
Fluids 9m/s (30ft/sec)	Gases 54m/s (175ft/sec)

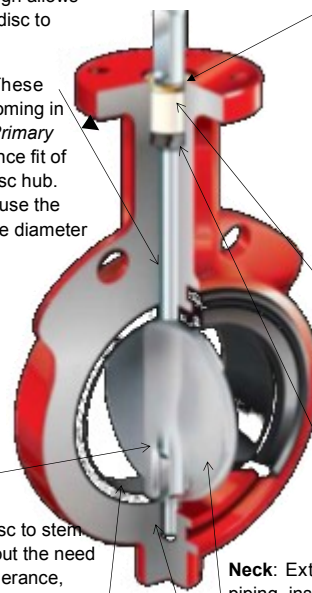


High strength through-stem design allows easy disassembly and reduced disc to stem failure.

**Primary & Secondary Seals:** These seals prevent line media from coming in contact with the stem or body. *Primary Seal* is achieved by an interference fit of the moulded seat flat with the disc hub. *Secondary Seal* is created because the stem diameter is greater than the diameter of the seat stem hole.

**Stem:** Precision double "D" disc to stem connection drives the disc without the need for screws or pins. The close tolerance, double "D" connection that drives the valve disc is an exclusive feature of this valve. Disassembly of the stem is just a matter of pulling the stem out of the disc.

**Seat :** The tongue and groove seat design lowers torque and provides complete isolation of flowing media from the body. The seat also features a moulded o-ring which eliminates the use of flange gaskets.



**Stem Retaining Assembly:** The stem is retained in the body by means of a unique Stainless Steel Spirolox® retaining ring, a thrust washer and two C-rings, manufactured from brass as standard, stainless steel upon request. The retaining ring may be easily removed with a standard hand tool. The stem retaining assembly prevents unintentional removal of the stem during field service.

**Stem Bushing:** Non-corrosive, heavy duty acetal bushing absorbs actuator side thrust.

**Stem Seal:** Double "U" cup seal design is self-adjusting and gives positive sealing in both directions.

**Neck:** Extended neck length allows for 2" of piping insulation and is easily accessible for mounting actuators.

**Disc:** Casting is spherically machined and hand polished to provide a bubble-tight shut off, minimum torque, and longer seat life.

**Body:** One-piece wafer or lug style. Polyester coating for excellent corrosion resistance. Nylon 11 coating is available as an option.