

DOUBLE ECCENTRIC BUTTERFLY VALVES

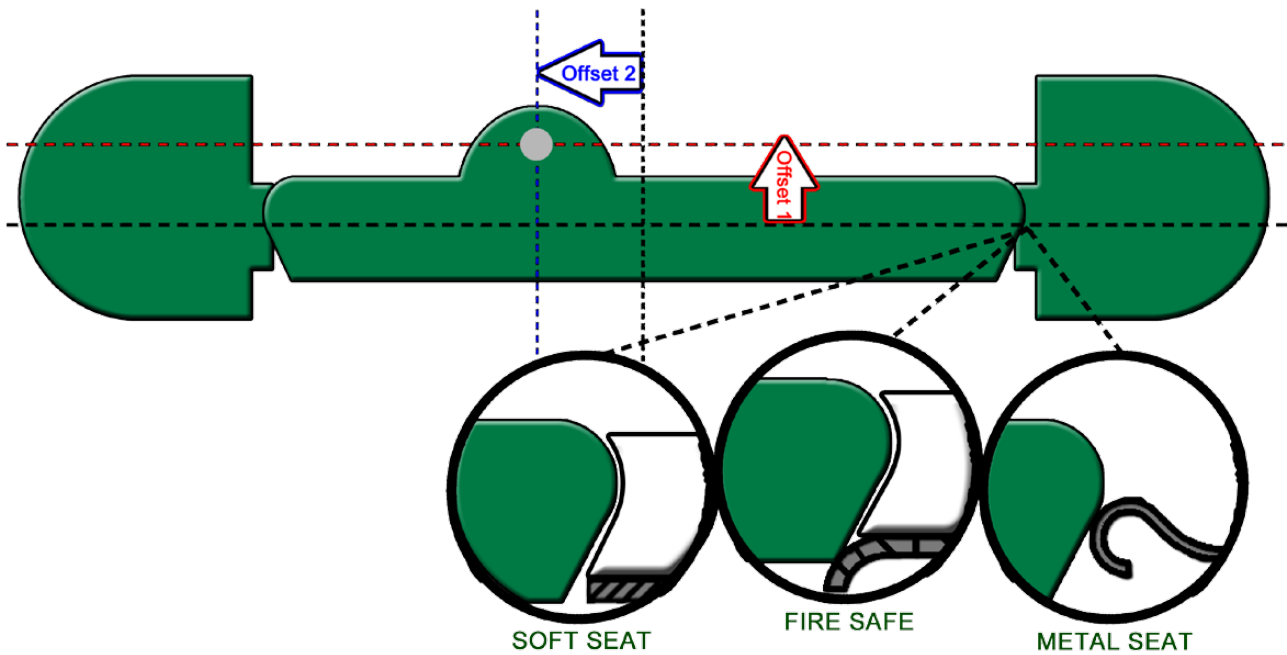
Double Eccentric Design Key Features

- High pressure, bi-directional, tight shut off.
- Valve shaft offset against the seat and the centre line of the body.
- Low maintenance requirements.
- Wide operating temperature, coupled with excellent media resistance.
- Reduced seat deformation.
- Low torque figures.
- Seat removal without disconnecting shaft and disc allows easy field maintenance.
- Stops in the body ensure precise closing.
- Three different patterns available - Wafer, Lugged and Flanged.
- Three distinctly different seat designs - Soft Seat, Fire Safe and Metal Seat.
- Wide range of operating methods including lever, gearbox and electric / pneumatic / hydraulic actuated packages.



Technical Specification

Body type & end connection	Size range	Pressure range	Operating temperature range:
Wafer / Lugged / Flanged	50 NB to 3000 NB	Up to 300lb	(Depending on MOC) -50C to 600°C
Available material of construction (MOC):			
Carbon Steels inc Low Temp		e.g. WCB, LCB	
Austenitic/Super Austenitic Stainless steels		e.g. CF8, CF8M, CF3M, 6MO	
Copper alloys		e.g. Aluminium bronze	
Duplex/Super Duplex alloys (1A-6A)		e.g. CD3MWCuN, CD4MCuN	
Superalloys		e.g. Hastelloy® B, C, Inconel	
Nickel alloys		e.g. Monel®, Alloy 20	
Others upon request		e.g. Titanium	
Shaft:		Testing Standards:	
AISI 410, AISI316, 17-4Ph, Monel® K500, UNS32760, Titanium		API 598 (Others on request i.e. API 6D)	
Seat		Applicable Design Standards:	
PTFE, RPTFE (Glass Filled PTFE), Metal		API609 Category B, ASME B16.34, BS EN593	



Offset One:

The shaft is offset from the centre of the seal.

Offset Two:

The shaft is offset from the centre of the bore.

Cam action:

The disc is lifted up and out of the seal due to the motion created by the two offsets.

This minimizes the friction generated during operation - increasing seat life.

