

Butterfly Valve

Triple offset butterfly valve

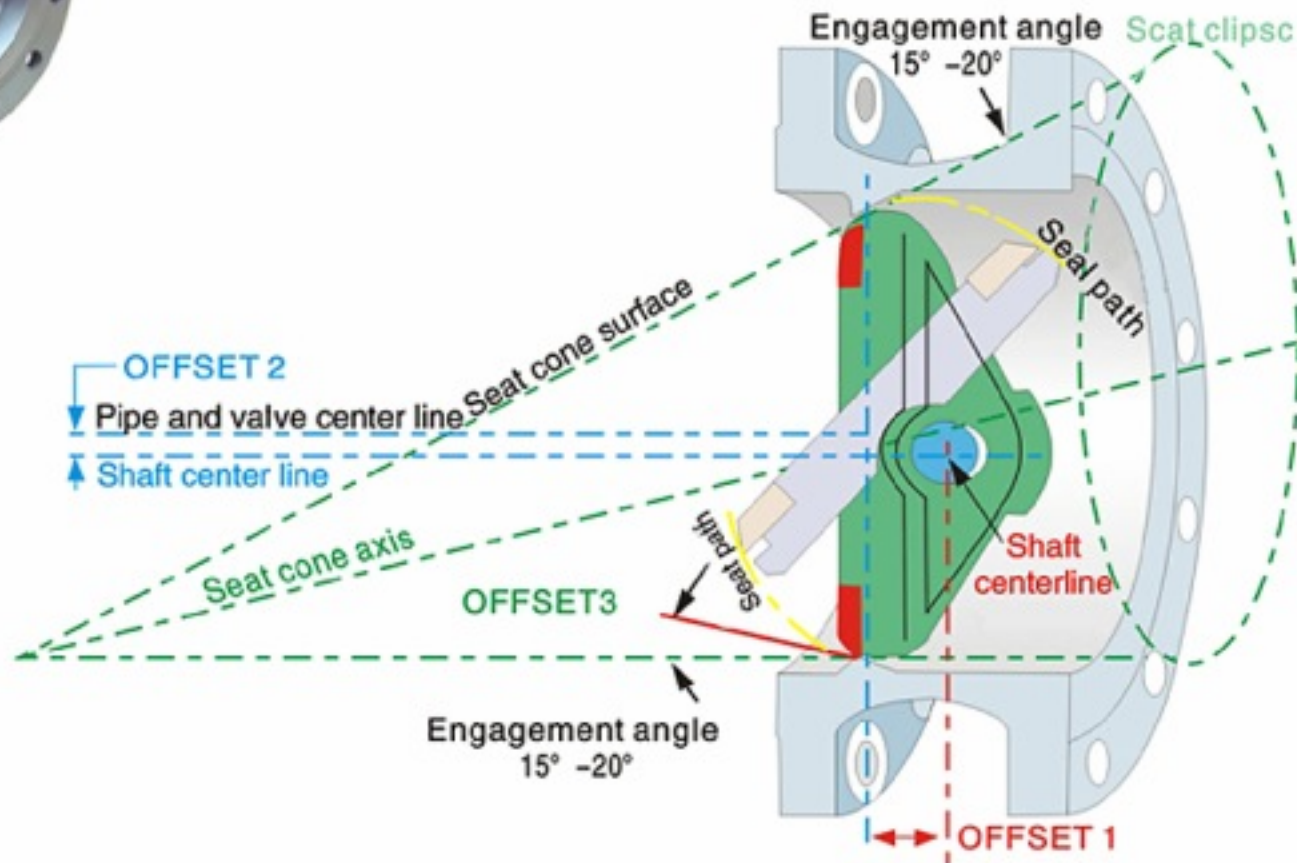
Trait and purpose:

Hard Seal Butterfly Valve triple offset series are our company's leading products, which are used in such fields as metallurgy, light industry, electric power, petrochemistry, coal gas channel etc.



The seal principle of hard Seal Butterfly Valve triple offset:

The Triple Offset Butterfly Valve provides a bi-directional bubble tight shut-off. This geometry ensures that the disc seal contacts the body seat only at the final shut-off position without rubbing or galling, providing a torque generated resilient seal with sufficient "wedging" to ensure uniform seal contact.

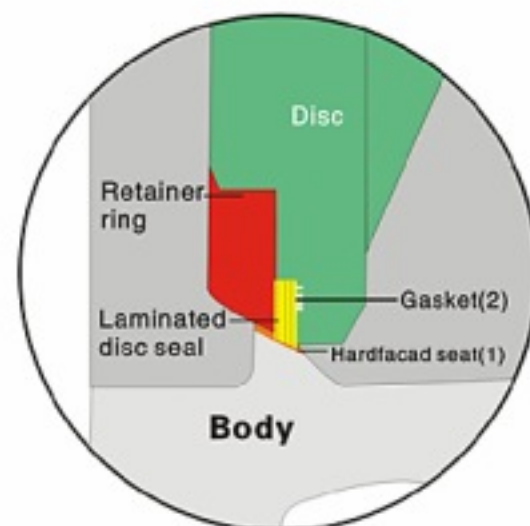


The triple offset geometry

- OFFSET1 The shaft is offset behind the seat axis to allow complete sealing contact around the entire seat
- OFFSET2 The shaft centerline is offset from the pipe and valve which provides interference free opening and closing of the valve
- OFFSET3 The seat cone axis is offset from the shaft centerline to eliminate friction during closing and opening and to achieve uniform compressive sealing around the entire seat.

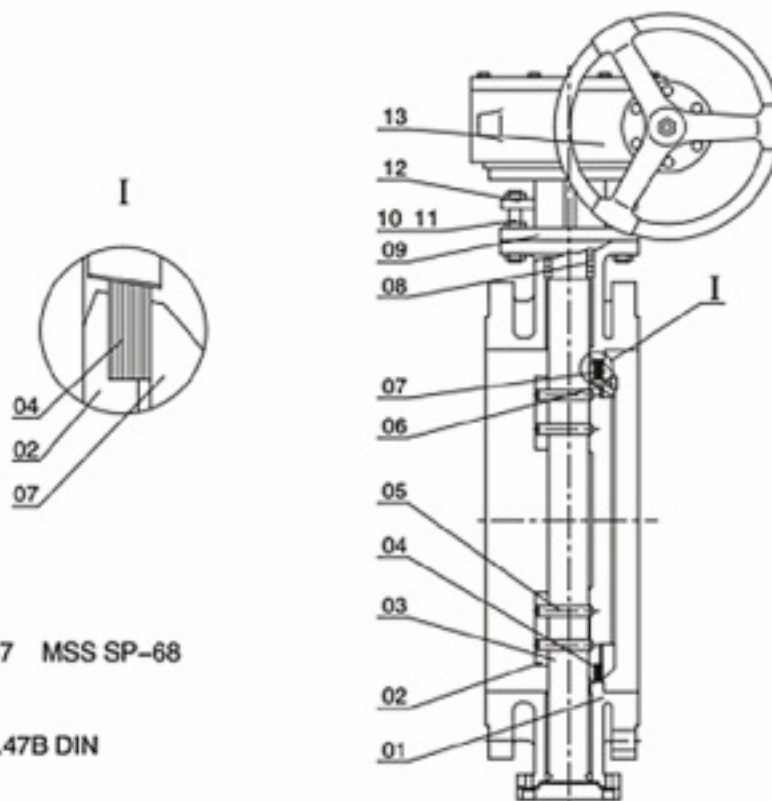
Friction free sealing for long cycle life

- (1) Seat is Cr13 Metal alloy or hardfaced with Stellite as standard.
- (2) The gasket is spiral wound SS/Graphite for zero leakage
- (3) Seat ring forces are generated by the torque during closing uniformly around the entire circumference. The resilient seal flexes and energizes, assuming the shape of the seat. The compression forces equally distributed around the perimeter provide a tight bi-directional shut off. The resiliency of the seal allows the valve body and disc to contract or expand, without the risk of jamming due to temperature fluctuations. It is self-adjusting.



Butterfly Valve

Triple offset butterfly valve main parts materials and specification



(Adopt Standard):

- 1.Design Standard :API609 MSS SP-67 MSS SP-68
- 2.Face To Face:ISO5752
- 3.Tubing Flange:ANSI B16.5 ANSI B16.47B DIN
- 4.Inspection and Test:API598

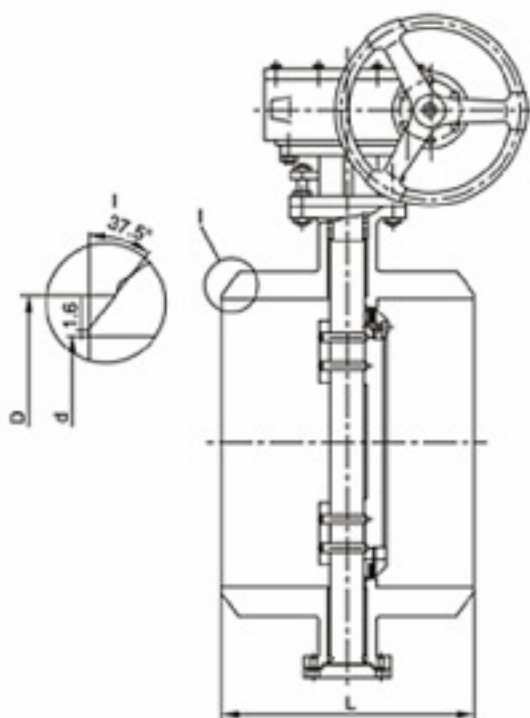
Main parts materials

Part Name		Material				
01	Body	ASTM A216 WCB	ASTM A351 CF8	ASTM A351 CF3	ASTM A351 CF8M	ASTM A351 CF3M
02	Disc	WCB	CF8	CF3	CF8M	CF3M
03	Stem	A276 420 or 304 or 316	A276 304	A276 304L	A276 316	A276 316L
04	Seal Ring	SS 304 or 316+Graphite or PTFE	SS 304+Graphite or PTFE	SS 304L+Graphite or PTFE	SS 316+Graphite or PTFE	SS 316+Graphite or PTFE
05	Spin	A276 420 or 304 or 316	A276 304	A276 304L	A276 316	A276 316L
06	Capscrew	A193 B7 or B8 or B8M	A193 B8	A193 B8	A193 B8M	A193 B8M
07	Retaining ring	A105 or A182 F304 F316	A182 F304	A182 F304L	A182 F316	A182 F316L
08	Packing	Soft graphite				
09	Yoke	WCB	WCB GALVAN CF8	WCB GALVAN CF8 or CF3	WCB GALVAN CF8 or CF8M	WCB GALVAN CF8 or CF3M
10	Bolt	A193 B7	A193 B8	A193 B8	A193 B8M or B8	A193 B8M or B8
11	Nut	A194 2H	A194 8	A194 8	A194 8M or B8	A194 8M or 8
12	Gland	WCB	CF8	CF8	CF8M	CF3M
13	Drive actuator	Hand actuator, Electric actuator, Worm gear actuator, Pneumatic actuator				

Note: The chart above only lists out some common composition of valve parts. We may provide other different parts material composition according to the customer's request or the actual valve working condition.

Butterfly Valve

API/MSS/DIN Butt weld triple offset butterfly valve connection dimension



(Adopt Standard) :

1 (Butt-weld End Size) : ANSI B16.25 DIN 3239

2 (Face To Face Dimension) : ISO5752

3 (Inspection And Test) : API598

Main connection dimension

Unit: mm

Type	NPS	DN	L	D	d
Class 150					
	3	80	114	88.9	80
	4	100	127	114/108	100
	5	125	140	140/133	125
D363H-150LbC	6	150	140	168/159	150
D663H-150LbC	8	200	152	219	200
D963H-150LbC	10	250	165	273/267	250
D363Y-150LbC	12	300	178	324	300
D663Y-150LbC	14	350	190	356/368	350
D963Y-150LbC	16	400	216	406/419	400
D363W-150LbP	18	450	222	457	450
D663W-150LbP	20	500	229	508	500
D963W-150LbP	24	600	267	610	600
D363Y-150LbP	28	700	292	711	700
D363W-150LbR	30	750	318	762	750
D663W-150LbR	32	800	318	813	800
D963W-150LbR	36	900	330	914	900
D363Y-150LbR	40	1000	410	1016/1020	1000
D663Y-150LbR	44	1100	440	1118	1100
D963Y-150LbR	48	1200	470	1220	1200
	52	1300	500	1320	1300
	56	1400	530	1420	1400
	60	1500	565	1524	1500

Asper client's requirement