



OFFSET DISC DESIGN

We, "Flow-Tech" are a leading manufacturer and Exporters of OFFSET BUTTERFLY VALVE. Offset Butterfly valves means that the stem does not pass through the center line of the disc, but instead behind it, opposite of flow direction. When the stem is located right behind the center line of the disc, the valve is called single-offset. This design was developed to reduce the disc contact with the seal before full closure of the valve with the aim of improving service life of the valve. Today, single-offset valves have given way to double offset and triple offset butterfly valves.

In a Double-Offset Butterfly Valve, the stem is located behind the disc with an additional offset to one side. This double eccentricity of the stem enables the rotating disc to rub over the seat for only about one to three degrees.

In a Triple Offset Butterfly Valve is often used in critical applications and is designed similar to a double offset butterfly valve. A triple offset butterfly valve is more efficient and allows for less wear.



TECHNICAL DETAIL

DESIGN TYPE	OFFSET DESIGN DOUBLE OFFSET DESIGN TRIPLE OFFSET DESIGN
MFG. STANDARD	BS 5155, API 609 & AWWA 504
TESTING STANDARD	API 598 / BS 6755 Part-1
VALVE SEAT LEAKAGE	CLASS VI (Zero Leakage)
FLANGE STANDARD	BS 5155, API 609 & AWWA 504 / ANSI B 16.10
FACE TO FACE STANDARD	BS 5155, API 609 & AWWA 504 / ANSI B 16.10
PRESSURE & TEMPERATURE RATING	ASME B 16.34
PRESSURE CLASS	150#, 300#, PN10, PN16
VALVE SIZE	1 1/2" To 40" (40 mm TO 1000 mm)
END CONNECTIONS	WELDED TYPE
FLANGE DRILLING	150#, 300#, PN10, PN16, BS10 TABLED / E / F / H
MATERIAL OF CONSTRUCTION	CITIS 210 GR. FG200 ASTM A 216 GR. WCB ASTM A 351 GR. CF8 / CF8M / CF3 / CF3M
OPERATIONS	HANDLE (WRENCH) / GEAR PNEUMATIC / ELECTRICAL ACTUATOR

FACE TO FACE DIMENSIONS (FLANGED)

INCH	MM	150#
1 1/2"	40	35.0
2"	50	44.0
3"	80	46.0
4"	100	52.0
5"	125	56.0
6"	150	56.0
8"	200	60.0
10"	250	68.0
12"	300	78.0
14"	350	78.0
16"	400	102.0
18"	450	114.0
20"	500	127.0
24"	600	154.0

TEST PRESSURE

CLASS	BODY HYDRO TEST		SEAT HYDRO TEST	
	PSIG	KG/CM ²	PSIG	KG/CM ²
150#	213	15	142	10
Pn10	213	15	142	10
Pn16	300	21	213	15

*Pressure Testing Time Will be 15 Sec. *Test With Water only.

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