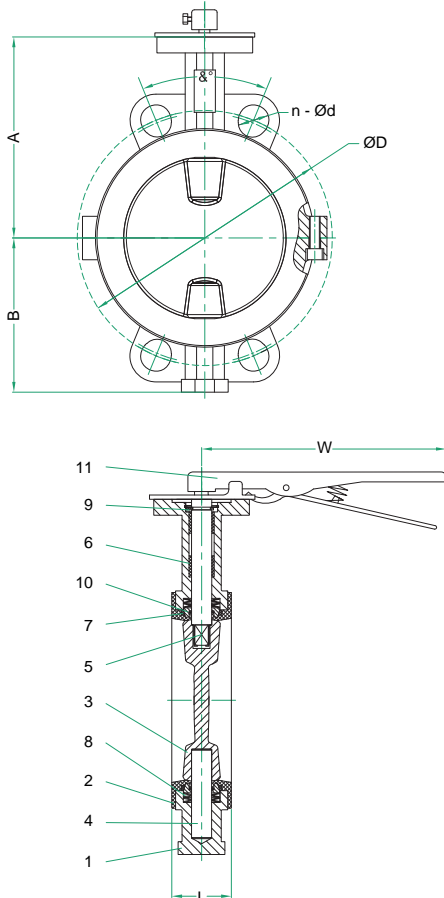




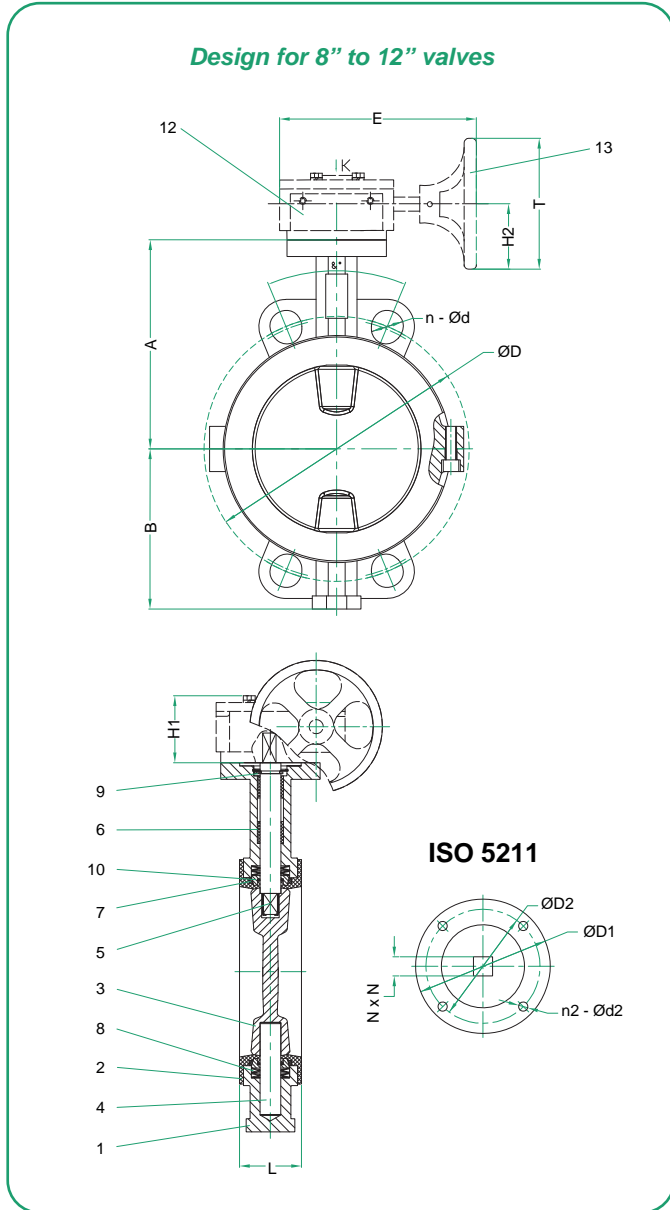
Design for 2" to 6" valves



Features / Design

- 1.- Butterfly valves are light in weight, easy to install, take apart and maintain. They have simple compact structure, 90° open and close rapidly and small operation torque - saving strength.
- 2.- TFV 9RT Series have a two-piece body design, which allows to use a fluoropolymer seat (with an internal elastomeric liner) that can be replaced.
- 3.- Design & Manufacture Standard: API 609.
- 4.- TFV butterfly valves can be assembled together with lever, worm gear, pneumatic and electric actuators.
- 5.- It is designed with a two piece stem which allows for maximum flow values and for repair of valve parts without special tools.
- 6.- Seat: The valve can be resilient seated and fluoropolymer seated with elastomeric backup - between the seat and the valve (disc) there is the back liner which is made of high-elasticity rubber.
- 7.- Top bushing is made from an impact and corrosion resistant material. Protects the stem from side thrust of actuators.
- 8.- Special double V-shape of stem seal self-adjusts to protect stem area for either vacuum or pressure use.
- 9.- Stem and body are isolated from line media by the seal created between the arch surface of the disc and the flat surface of the seat.
- 10.- Specially designed disc/stem prevents distortion of disc under high pressure. Thin disc allows for maximum open flow.
- 11.- Disc edge is individually processed through machining for a smooth edge, providing a bubble tight shut-off and maximum seal life.
- 12.- Ends: Wafer and lug options (ASME B16.5) - Class 150# (232 CWP).
- 13.- Flange location holes shall be provided on wafer bodies to allow for quick and precise alignment during valve installation.
- 14.- Face to face dimensions according to API 609.
- 15.- Pressure and temperature rating according to ASME B16.34.
- 16.- Inspection and Test Standard: API 598.
- 17.- Medium: Water, sewage, oil, food, gas and so on.





Material List

NO.	PART NAME	MATERIAL
1	BODY	ASTM A351 CF8M
2	SEAT	PTFE
3	DISC	ASTM A351 CF8M
4	DOWN SHAFT	17-4PH
5	UP SHAFT	17-4PH
6	BUSHING	PTFE
7	PRESSING SLEEVE	STAINLESS STEEL
8	BUTTERFLY SPRING	SPRING STEEL
9	U-SNAP RING	STAINLESS STEEL
10	SEAT ENERGIZER	SILICON
11	LEVER	STAINLESS STEEL
12	GEAR OPERATOR	COMPOSITE PARTS
13	HANDWHEEL	CARBON STEEL

NOTE: Material list as example - for SS body, other materials and liners available. TFV butterfly valves are available as per the needs of applications in additional sizes and other than standard materials. Please contact us.

Dimensions (inches)

NPS	δD	L	$\delta D1$	$\delta D2$	n	δd	A	B	δ°	n2	$\delta d2$	N	Shaft Height (in)	Top Flange Thickness (in)	W (in)	E (in)	H1 (in)	H2 (in)	δT (in)	CV (USgpm)	TORQUE (Lbf*in)	Weight (lb)
2"	4.752	1.693	2.559	1.969	4	0.787	5.394	2.874	90	4	0.315	0.354	1.102	0.551	10.236	/	/	/	/	115.0	221.268	7.496
2 1/2"	5.500	1.811	2.559	1.969	4	0.787	5.433	3.268	90	4	0.315	0.354	1.102	0.551	10.236	/	/	/	/	187.0	309.776	6.614
3"	6.000	1.811	2.559	1.969	4	0.787	5.866	3.425	90	4	0.315	0.354	1.102	0.492	10.236	/	/	/	/	257.0	398.283	9.921
4"	7.500	2.047	3.543	2.756	8	0.787	6.260	4.488	45	4	0.394	0.433	1.102	0.551	10.236	/	/	/	/	510.0	663.805	13.448
5"	8.500	2.205	3.543	2.756	8	0.906	6.850	5.236	45	4	0.394	0.551	1.102	0.591	10.236	/	/	/	/	869.0	1062.088	17.857
6"	9.500	2.205	3.543	2.756	8	0.906	7.441	5.669	45	4	0.394	0.551	1.102	0.591	10.236	/	/	/	/	1342.0	1416.117	20.503
8"	11.752	2.362	4.921	4.016	8	0.906	9.016	6.575	30	4	0.472	0.669	1.378	0.630	/	11.220	3.228	1.575	11.496	2666.0	2832.234	34.613
10"	14.252	2.677	4.921	4.016	12	1.024	10.669	8.110	30	4	0.472	0.866	1.378	0.709	/	11.220	3.228	1.575	11.496	4539.0	4071.337	53.616
12"	17.000	3.071	4.921	4.016	12	1.024	12.126	9.528	30	4	0.472	0.866	1.378	0.709	/	11.220	3.228	1.575	11.496	7013.0	5752.976	74.075

How to Order

VALVE BODY DESIGN (SERIES)	MATERIAL				ENDS	CLASS	SIZE ⁽¹⁾		OPERATION	
	BODY	TRIM	DISC LINER	SEAT						
9RT 2 Pcs Resilient Seated Butterfly Valve	2	WCB	1 Bronze	E EPDM	P EPDM	L Lug	0 ANSI 150# (232 CWP) ⁽²⁾	02	2"	L Manual Lever Operator
	3	CF8M	3 316SS	B BUNA-N	B NBR	W Wafer		02.5	2 1/2"	B Bare Shaft
	6	CI / DI	6 CI / DI	N NONE	V Viton	V		03	3"	B Gear Operator
					N Neoprene	N		04	4"	P Peumatic Actuator
					H Hypalon	H		05	5"	E Electric Actuator
					P PTFE	P		06	6"	
					W PTFE/EPDM	W		08	8"	
					X PTFE/NBR	X		10	10"	
					Y PTFE/Viton	Y		12	12"	
					Z PTFE/Silicon	Z				

Example:

2 Pcs Resilient Seated Butterfly Valve, Body CI, Disc CI, Seat EPDM, Wafer ANSI 150#, Size 6" with Lever.

9RT66NEW006L

NOTES:

(1) Please contact us for more available sizes.

(2) CWP stands for Cold Working Pressure and is an indication of the pressure rating for valves at a temperature up to 100°F.

