

API High Performance Butterfly Valve

TEK VALVE

API SERIES

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◎ Seat Tightness

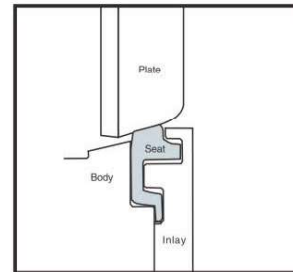
ANSI/FCI70-2 establishes a series of leakage classes for control valves and defines the test procedures. Class VI allows the least leakage, High performance Butterfly Valves are bubble-tight, MSS-SP61, which would exceed Class VI requirements.

◎ Standard seats

This butterfly valve standard seat seals constructed by RPTFE, utilizes a flexible lip, which, when distorted, will always attempt to return to its original shape and maintain a seal against the disc regardless of flow direction.

◎ Various optional seats

PEEK seals provide longer life, expanded performance boundaries, and greatest possible value. PEEK is a unique material that is a fluoropolymer-based blend proprietary.

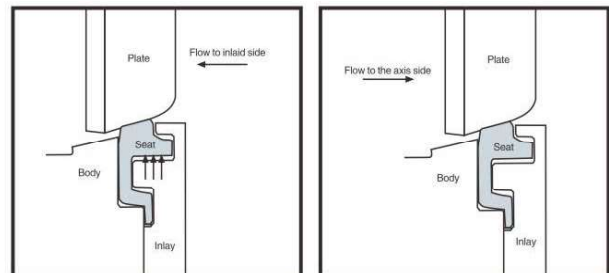


◎ Working principle

When the valve is shut, the disc slightly deflects the seat. This slight deflection energizes the seat. While energized, the sealing surface of the seat is constantly pushing against the edge of the disc.

When pressure is on the insert side, pressure is applied under the seat lip. This further amplifies the seating force between the disc and the seat.

When pressure is on the non-insert side, the disc moves into the seat. Due to the spherical profile of the disc, the more the disc moves into the seat, the tighter the shut-off. Excessive movement of the seat is limited by the flexible lip which contacts the bottom of the groove in the insert ring.



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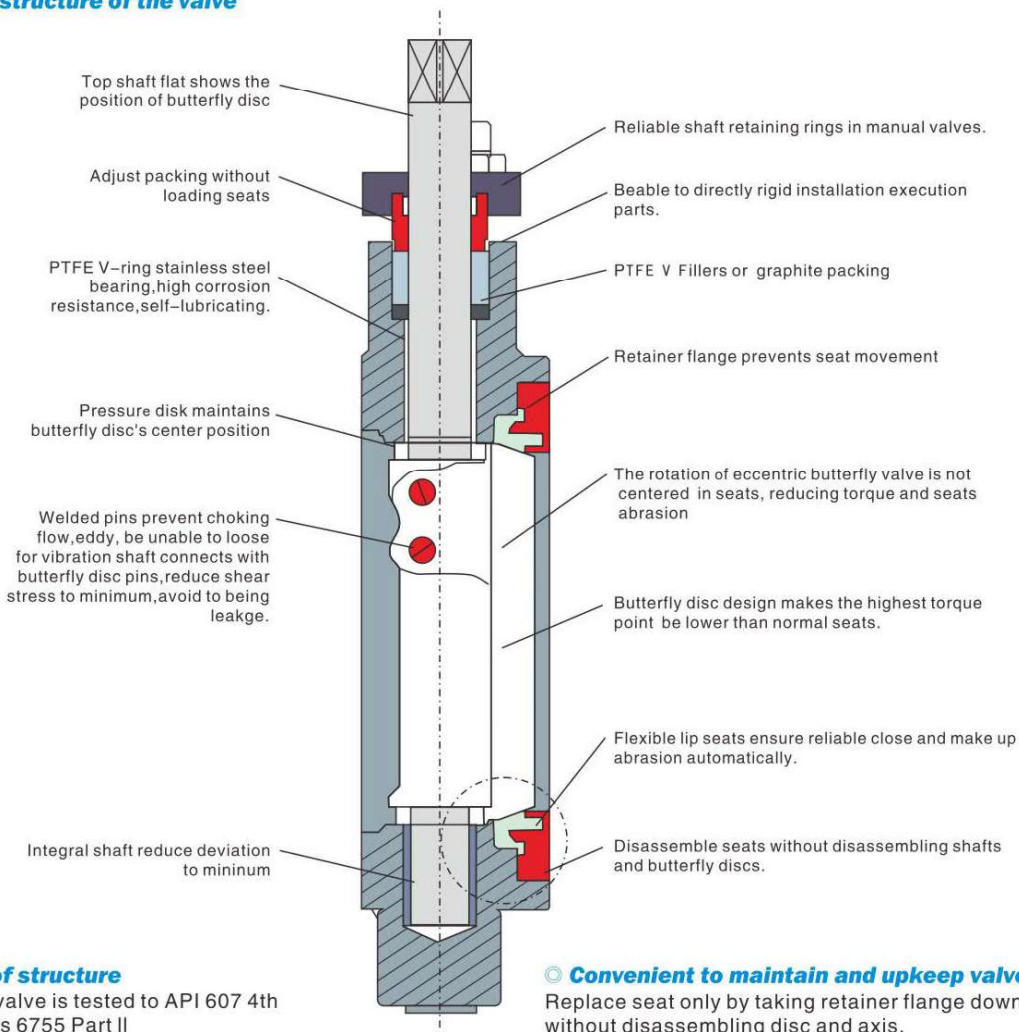
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Structural features of the product

High performance double eccentric butterfly valve, in addition to the conventional valve had to adapt to the working condition of the medium, according to different medium, chose different structure material and special processing, can also be used for cryogenic, vapor, chlorine gas, oxygen, high vacuum, corrosion and other special conditions.

Integral structure of the valve



Fire-proof structure

Fixed-proof valve is tested to API 607 4th Edition and Bs 6755 Part II

Fixed axis

Fired collar is installed in the top of axis, 2"~24"(DN~600), when axis breaks accident, avoid the upper part to move out of gland.

Provide CE marked versions available

CE marked and documented valves that conform to the European Pressure Equipment Directive(PED) 97/23/EC are available in ANSI Class 150/300. standard type or fire-proof type.

Excellent for both On-Off and Control Application

1. Superior control characteristics.
2. Wide rangeability.
3. It can be used to adjust and cut off media.

Convenient to maintain and upkeep valve seats

Replace seat only by taking retainer flange down, without disassembling disc and axis.

Single-Source Responsibility

1. Purchase valves, actuators, and accessories, completely mounted from one source.
2. Available with electric, manual gear, and pneumatic double acting or spring return actuators and a variety of accessories including limit switch, solenoids, and positioners.
3. OEM service available through world-wide service centers.

Available in a Wide Choice of Material for a Broad Range of application

Standard body materials include carbon steel, stainless steel, aluminium bronze, alloy 20, monel, inconel . Users can also, according to requirements, select other materials

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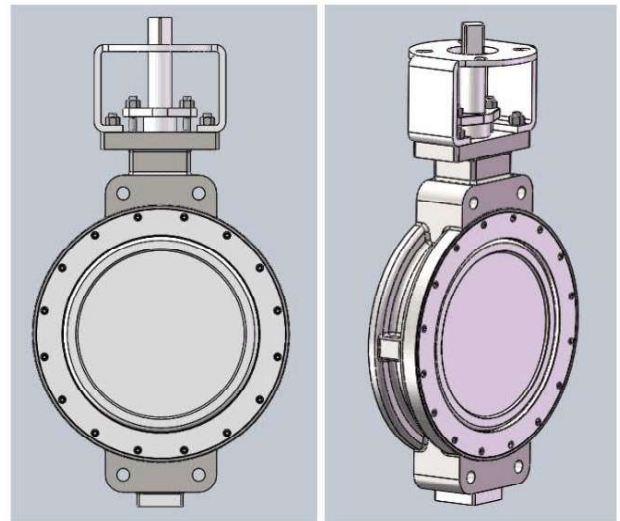
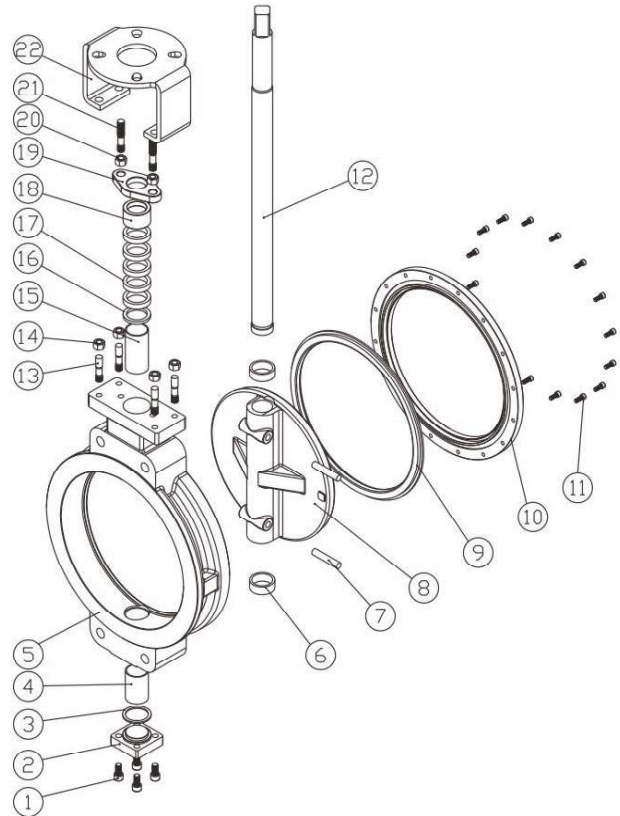
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API High Performance Wafer Butterfly Valve

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High performance Wafer Butterfly Valve Material

NO	Name	Material
1	Screw	A193 B8, A193 B8M
2	End Housing	A105, F304, F316
3	Gasket	SS316+Graphite
4	Bushings	SS316+PTFE
5	Body	WCB, CF8, CF8M
6	Positioning set	SS316
7	Pin	SS316
8	Disc	CF8, CF8M
9	Seat	RPTFE, PPL, PEEK
10	Retainer Flange	CS, SS304, SS316
11	Screw	A193 B8M
12	Stem	17-4PH, F51
13	Bolt	A193 B8, A193 B8M
14	Nut	A193 8, A193 8M
15	Bushings	SS316+PTFE
16	Packing Gasket	SS316
17	Packing	PTFE, Graphit
18	Packing Gland	SS316
19	Packing Flange	SS304
20	Nut	A193 8, A193 8M
21	Bolt	A193 B8, A193 B8M
22	York	CS, SS304



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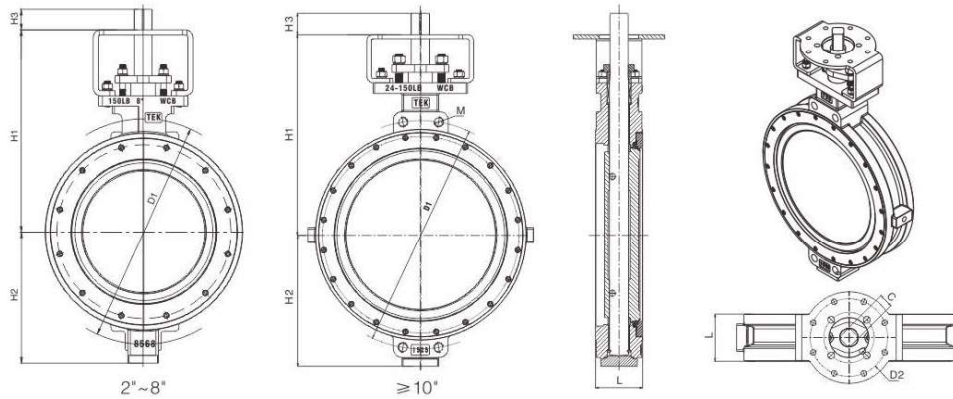
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150LB Wafer Butterfly Valve

NPS	DN	L	D1	D2	n-Φ d(M)	H1	H2	H3	C*C	TOP FLANGE	Torque
2	50	43	121	70	4-Φ19	184	65	20	11*11	ISO5211 F07	26N.m
2½	65	48	139.7	70	4-Φ19	205	85	20	11*11	ISO5211 F07	33N.m
3	80	48	152.4	70	4-Φ19	205	85	20	11*11	ISO5211 F07	39N.m
4	100	54	190	70	8-Φ19	215	105	20	14*14	ISO5211 F07	58N.m
5	125	57	215.9	70	8-Φ22	240	145	25	17*17	ISO5211 F07	86N.m
6	150	57	241	102	8-Φ22	250	152	25	17*17	ISO5211 F10	126N.m
8	200	64	298.4	102	8-Φ22	280	188	32	19*19	ISO5211 F10	217N.m
10	250	71	361.9	125	4-7/8"	386	219	35	22*22	ISO5211 F12	318N.m
12	300	81	431.8	140	4-7/8"	429	256	40	27*27	ISO5211 F14	475N.m
14	350	92	476.2	165	4-1"	472	282	40	27*27	ISO5211 F16	849N.m
16	400	102	539.8	165	4-1"	509	322	55	36*36	ISO5211 F16	1087N.m
18	450	114	577.9	165	4-1 1/8"	545	347	55	36*36	ISO5211 F16	1423N.m
20	500	127	635	165	4-1 1/8"	570	372	60	40*40	ISO5211 F16	1926N.m
24	600	154	749.3	254	4-1 1/4"	658	432	70	46*46	ISO5211 F25	2983N.m
28	700	165	863.6	254	4-1 1/4"	715	537	90	62*62	ISO5211 F25	4250N.m
30	750	165	914.4	254	4-1 1/4"	760	565	90	68*68	ISO5211 F25	4873N.m
32	800	190	978	254	4-1 1/2"	790	595	90	68*68	ISO5211 F25	6200N.m
36	900	200	1086	298	4-1 1/2"	910	635	100	75*75	ISO5211 F30	8121N.m

300LB Wafer Butterfly Valve

NPS	DN	L	D1	D2	n-Φ d(M)	H1	H2	H3	C*C	TOP FLANGE	Torque
2	50	43	127	70	8-Φ19	184	65	20	11*11	ISO5211 F07	39N.m
2½	65	48	149.2	70	8-Φ22	205	85	20	11*11	ISO5211 F07	49N.m
3	80	48	168.3	70	8-Φ22	205	85	20	11*11	ISO5211 F07	62N.m
4	100	54	200	70	8-Φ22	215	105	20	14*14	ISO5211 F07	110N.m
5	125	57	234.9	70	8-Φ22	240	145	25	17*17	ISO5211 F07	193N.m
6	150	59	269.9	102	12-Φ22	250	152	25	17*17	ISO5211 F10	278N.m
8	200	73	330.2	102	12-Φ25	280	188	32	21*21	ISO5211 F12	554N.m
10	250	83	387.4	125	4-1"	392	222	35	24*24	ISO5211 F12	885N.m
12	300	92	450.9	140	4-1-1/8"	457	270	40	29*29	ISO5211 F14	1207N.m
14	350	117	514.4	165	4-1-1/8"	480	290	40	41*41	ISO5211 F16	2239N.m
16	400	133	571.5	165	4-1-1/4"	535	335	55	41*41	ISO5211 F16	2671N.m
18	450	149	628.7	165	4-1-1/4"	595	367	55	51*51	ISO5211 F16	3422N.m
20	500	159	685.8	254	4-1-1/4"	690	435	60	51*51	ISO5211 F25	4635N.m
24	600	181	812.8	254	4-1-1/2"	758	483	70	58*58	ISO5211 F25	6251N.m
28	700	209	934	298	4-1-5/8"	791	575	90	70*70	ISO5211 F30	9350N.m
30	750	241	997	298	4-1-3/4"	852	621	90	80*80	ISO5211 F30	10898N.m
32	800	241	1054.1	298	4-1-7/8"	980	695	90	85*85	ISO5211 F30	13200N.m
36	900	260	1168.4	356	4-2"	1180	780	100	92*92	ISO5211 F35	18976N.m

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