

HIGH PERFORMANCE BUTTERFLY VALVE

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TEK VALVE

You are center of our world

**No-leaking for 1000000 times circle test
Bi-directional bubble tight shut off**

TEK VALVE CO., LTD.

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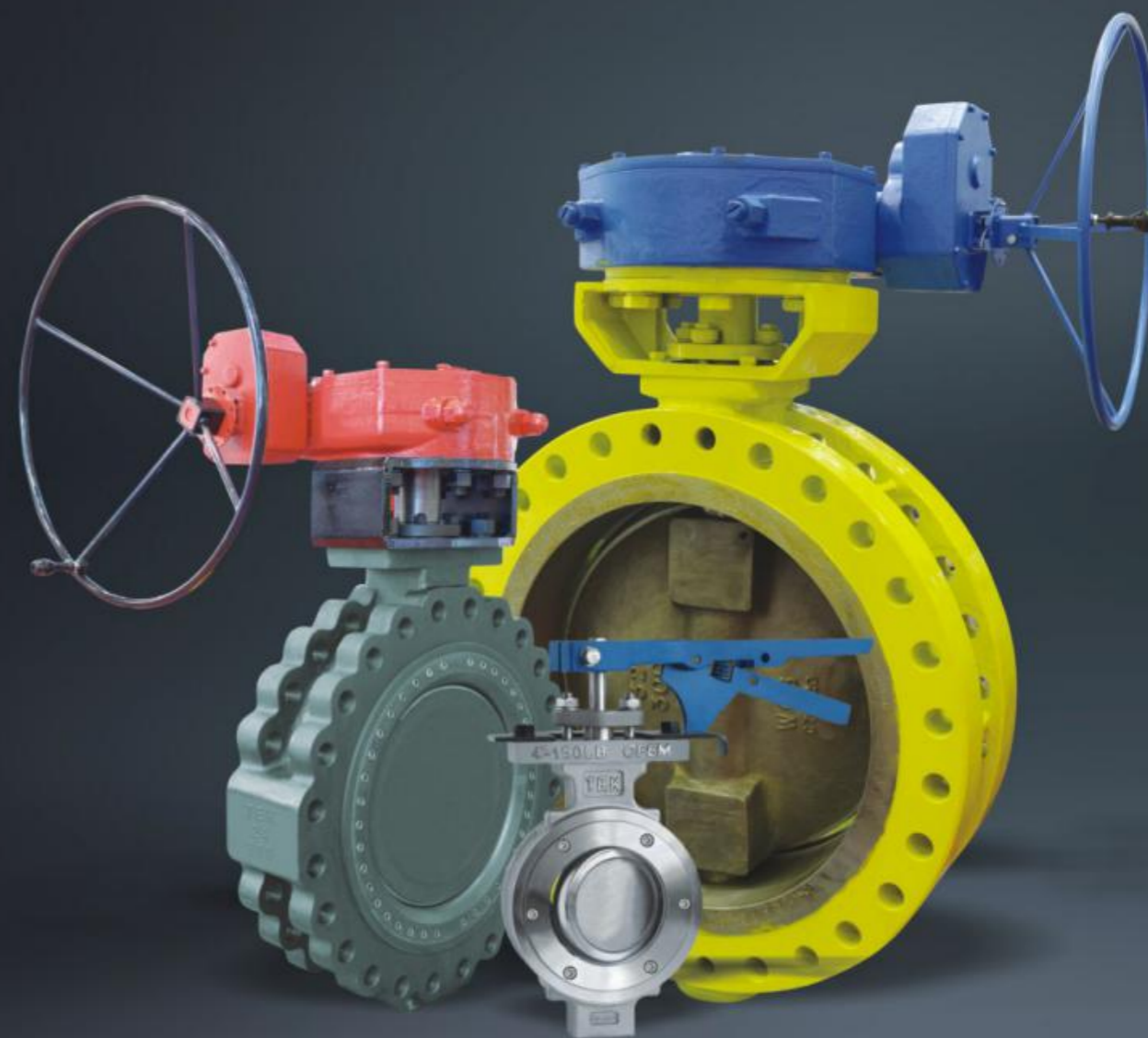
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TEK VALVE



Brief Introduction

Established in 2003 ,TEK Valve, located in Wenzhou City, zhejiang province, China. With TUV ISO9001, TUV CE, API 600, API 607, API 6D, our products sell well in Europe, America , South America , East South Asia, Middle East and Africa.

We are blessed with an excellent technique team engaged in researching, developing and manufacturing high quality products of Gate Valves, Globe Valves, Check Valves ,Ball Valves ,Butterfly Valves and Fluid Pipe fittings, which are made strictly in accordance with standards such as API, ASME, ASTM, EN, BS, DIN, JIS and successfully tested in many large projects.

Quality and satisfaction guaranteed is our philosophy. It is certain that long mutual-trust cooperation with our clients from home and abroad results in mutual benefit bright future.



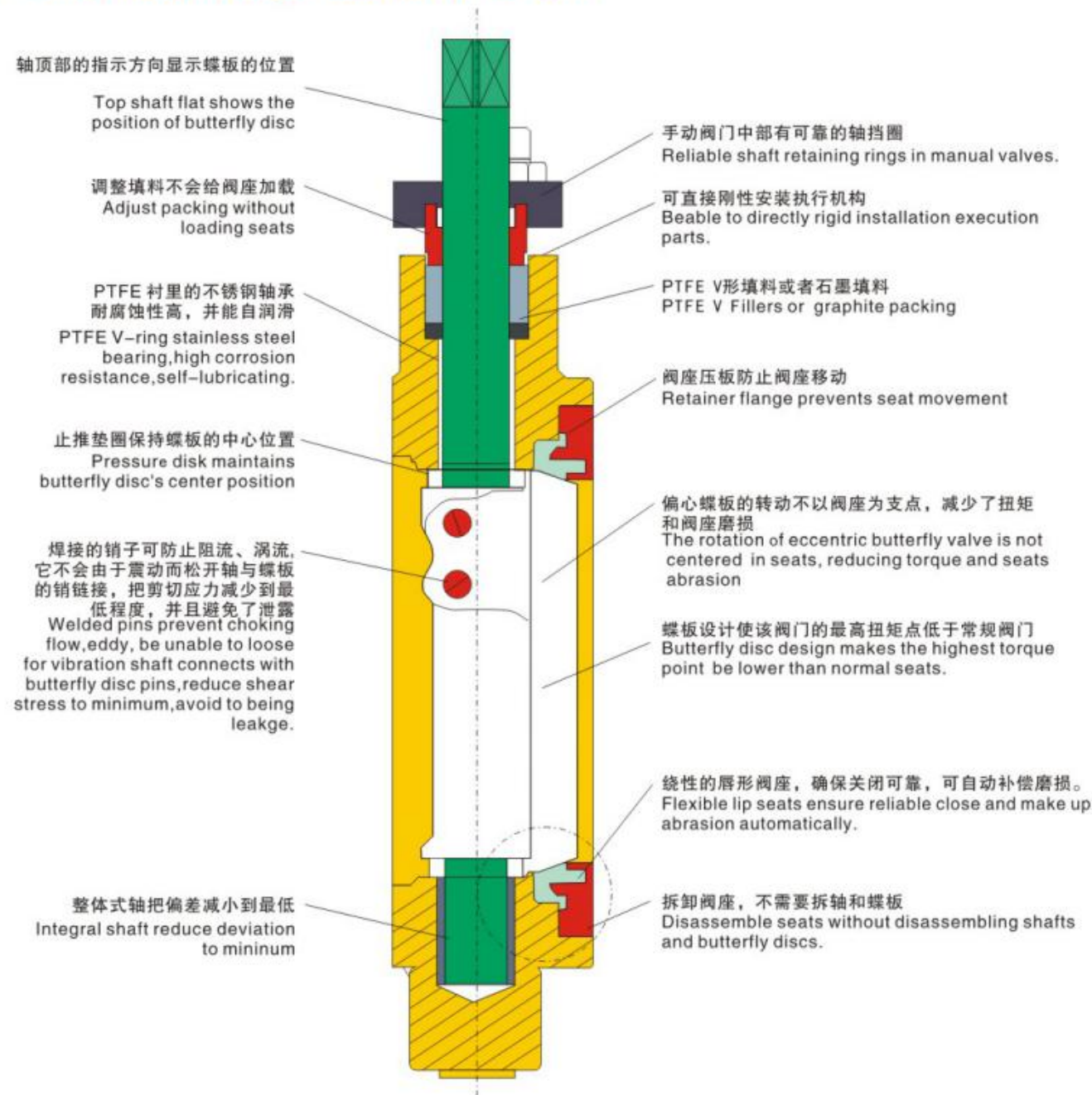
◎ 产品结构特征

高性能双偏心蝶阀，除常规介质外，根据不同的介质，可选用不同结构材料和特殊处理材料，还可用于深冷、蒸汽、氯气、氧气、高真空、抗腐蚀等特殊工况。

◎ 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.

◎ 阀门的整体结构 Integral structure of the valve



耐火结构

耐火型阀门按API 607第4版和BS 6755第二部分经过火烧试验。

Fire-proof structure

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

轴的固定可靠

2"-24" (DN50-600)轴的顶端装有固定环, 在轴意外断裂时防止轴的上部移窜出压盖。

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.

可提供CE标记的阀门

可提供符合欧共体压力容器规则(PED)97/23/EC带CE标记和文件的阀门, 阀门结构为ANSI 150级或300级标准型或防火型。

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.

阀座维修保养方便

只要取下阀座压板即可更换阀座, 不必拆卸蝶板和轴。

Convenient to maintain and upkeep valve seats

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

开关和控制兼备

- 1.具有优良的控制特性。
- 2.调节范围广。
- 3.可用于调节与切断介质。

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.

成套供应, 统一负责

- 1.阀门驱动装置及附件可配套安装, 统一提供。
- 2.可配套提供电功装置, 蜗轮装置, 双作用气动装置或弹簧复位气动装置, 以及各种附件, 包括限位装置, 电磁阀和定位器。
- 3.提供OEM服务。

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.

提供多种材料选用

标准材料有碳钢, 不锈钢, 铝青铜, 20合金, 蒙乃尔, Inconel等。还可根据用户要求选用其它材料。

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

Class150阀体的额定值
Rated valve for class 150

psi

温度(°C) Temperature	碳钢 Carbon steel	316不锈钢 Stainless steel	20合金 Alloy	蒙乃尔 Monel
-20~100	285	275	230	230
200	260	235	200	200
300	230	215	180	190
400	200	195	160	185
500	170	170	150	170
试验压力 Test pressure	450	425	350	250

Class150阀体的额定值
Rated value for class 150

bar

温度(°C) Temperature	碳钢 Carbon steel	316不锈钢 Stainless steel	20合金 Alloy	蒙乃尔 Monel
-20~38	19.7	19.0	15.8	15.8
93	17.9	16.2	13.8	13.8
149	15.8	14.8	12.4	13.1
204	13.8	13.4	11.0	12.8
260	11.7	11.7	10.3	11.7
试验压力 Test pressure	31	29	24	24

Class300阀体的额定值
Rated valve for class 300

psi

温度(°C) Temperature	碳钢 Carbon steel	316不锈钢 Stainless steel	20合金 Alloy	蒙乃尔 Monel
-20~100	740	720	600	600
200	680	620	520	530
300	655	560	465	495
400	635	515	420	480
500	600	480	390	475
试验压力 Test pressure	1125	1100	900	900

Class300阀体的额定值
Rated value for class 300

bar

温度(°C) Temperature	碳钢 Carbon steel	316不锈钢 Stainless steel	20合金 Alloy	蒙乃尔 Monel
-20~38	51	49.6	41.4	41.4
93	46.9	42.7	35.9	36.5
149	45.2	38.6	32.1	34.1
204	43.8	35.5	29.0	33.1
260	41.4	33.1	26.9	32.8
试验压力 Test pressure	77	75	62	62

技术参数

1.阀座额定值

曲线图上表示的阀座额定值只对阀座而言, 是基于阀门全闭时蝶板两端的压差。这些额定值可作为通用条件下的使用指南。依据以往经验, 经过改进和变换其它阀座材料, 使用的额定值可更高。

2.阀体额定值

阀体的最大工作压力和各种材料阀体的试验压力示于下面的阀体压力额定值表中。实际工况使用压力要根据阀座额定值来决定。试验压力为蝶板开启时静压试验的压力。

Technical parameters

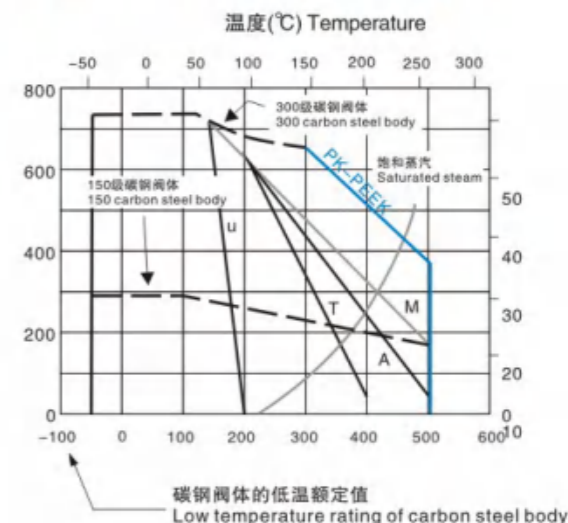
1.Valve seat ratings

Seat ratings are based on differential pressure with the disc in the fully closed position and refer to seats only. These ratings can be an operating guide in common conditions. In previous auctions, using improved or changed other valve seats materials have higher rated valve.

2.Valve seat ratings

The tables below are maximum working pressure ratings of the valve body only. The seat ratings determine the practical pressure limitations according to actual service conditions. Test pressures are for hydrostatic test with butterfly disc open.

阀座额定值 Valve seat ratings



*额定值复合ASME/ANSI B16.34-2004中的相应材料的额定值。
*Rated value is according to corresponding materials' in ASME/ANSI B 16.34-2004.

1.T-PTFE 2.M-增强PTFE 3.PL-PPL 4.PK-PEEK 5.A-耐火阀座注意: 316不锈钢, 20号合金或哈氏合金为阀杆的14"-60"(DN350-1500)的150级阀门的最大压差为150psi(10.35巴)。316不锈钢, 20号合金或哈氏合金为阀杆的3"-36"(DN80-900)的级阀门的最大压差为300psi(20.7巴)

1.T-PTFE 2.M-Reinforced PTFE 3.PL-PPL 4.PK-PEEK 5.A-Fireproofing valve seat. Notes:14"-60"(DN350-1500)Class 150 valves equipped with 316 stainless, Alloy 20 or Hastelloy C shafts are rated for maximum differential pressure is 150 psi(10.35 bar). 3"-36"(DN80-900)Class 300 valves equipped with310 stainless, Alloy 20 or Hastelloy C shaft are rated for maximum differential pressure is 300 psi(20.7 bar)

流量参数

下表提供了本样本Class150和Class300蝶阀的流量系数。Cv值标示压差为1磅/英寸(0.07巴),温度为60 F(15.6°C)时每分钟流过全开启阀门的水流量,单位为美国加仑/分钟。

Flow data

The tables below provide flow coefficient for Class150 and Class300 butterfly valves covered in this bulletin. The Cv values represent the number of gallons per minute of 60° F(15.6°C) water that flows through a fully open valve with gallon one minute.

Class150 Series		
阀门尺寸 Valve size		Cv
NPS	DN	
2	50	52
2 1/2	65	70
3	80	185
4	100	400
5	125	650
6	150	1050
8	200	2200
10	250	3300
12	300	5100
14	350	5800
16	400	8000
18	450	10500
20	500	14000
24	600	21600
30	750	34000
36	900	55500
42	1050	85650
48	1200	10830
54	1350	133500
60	1500	159000

流量参数

为确定中间位置阀门的CV值:

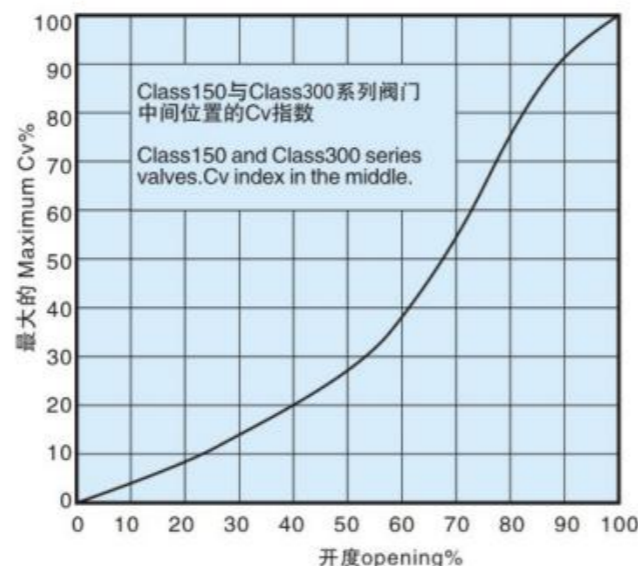
- 从曲线表中确定最大Cv值的百分率
- 将曲线表中的最大Cv值的百分率乘以流量数据表中的Cv值
如: 6"(DN150)815蝶阀70%开度时的Cv值为:
(1)从曲线表中确定6"(DN150)815蝶阀70%开度时的最大Cv值的百分率为53%
(2)53%的最大Cv值为, Cv值=0.53 x 1050=560

Flow Date

To determine Cv values for a value in an intermediate position:

- Determine the percent of maximum Cv from the graph.
- Multiply the percent of maximum Cv shown on the graph by the Cv value from the flow data sheet. Example: the Cv for a 6"(DN150)815 that is 70% open is:
(1)From the graph, 6"(DN150) 815 that is 70% open has a Cv value that is 53% of the maximum Cv.
(2)53% of the maximum Cv=0.53x 1050=560

Class300 Series		
阀门尺寸 Valve size		Cv
NPS	DN	
2	50	52
2 1/2	65	70
3	80	185
4	100	400
5	125	650
6	150	1050
8	200	2200
10	250	3300
12	300	5100
14	350	5800
16	400	8000
18	450	10500
20	500	14000
24	600	21600
30	750	34000
36	900	55500



阀座密封

ANSI/FCL 70-2规定了控制阀的泄露等级和试验程序。其VI级为最低泄露等级。高性能对夹式蝶阀能达到MS-SP61规定的无气泡密封,要高于VI级。

Seat Tightness

ANSI/FCI70-2establishes 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.

标准阀座密封

本蝶阀的标准阀座密封使用RPTFE材料。设计为唇式结构,不管流体的方向如何,变形后能恢复到原先的位置与蝶板保持密封。

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.

多种阀座结构可选

PEEK密封寿命长,性能高,适用广。PEEK是一种独特的密封材料,以氟聚合物为基本的复合材料。

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.

工作原理

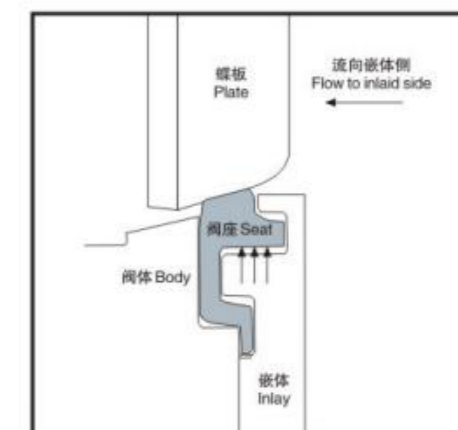
阀门关闭时蝶板使阀座稍稍变形。这一变形“激励”了阀座。阀座密封面的激励使它它与蝶板的边缘保持持久的密封。

Working principle

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

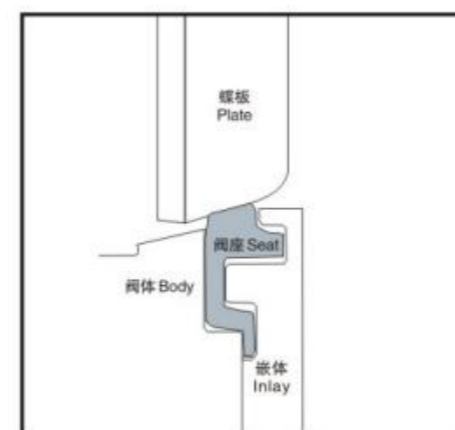
当嵌件侧手压时,压力被施加于唇缘的下方,进一步加大了碟板与阀座之间的密封力。

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



当压力施加于非嵌件的一侧时,蝶板被推向阀座。由于蝶板的轮廓呈球形,蝶板越向阀座推进,关闭就越紧密。唇缘与嵌件底部的槽接触,限制了阀座的过量移动。

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.



◎特殊工况的使用

动载密封—抑微泄盘根

为符合推行的防逸散泄露标准需要加强对泄露的控制, 本公司使用V形PTFE密封圈结构阀门, 石墨密封圈和动载蝶形弹簧垫圈, 适用于耐火型阀门, 它能保持恒定的密封力, 不会造成过分压缩。它与新阀门配套, 也可在现用的阀门上安装。另外还可提供双道密封以及带检测口的双道密封, 通过检测口可以对头道密封进行检测以监视泄露问题。订购特殊工况的阀门需要按订购说明做出标记。抑微泄盘根的阀门其扭矩增加请见扭矩数据。

◎Special services

Emission-Pak-Loaded Packing

When enhanced emissions control needed to comply with evolving emissions standards. Emission-Pak live-loaded packing is available. The Emission-Pak live-loaded packing assembly includes PTFE V-ring packing live-loaded with disc spring washers for standard construction valves and graphite packing with inconel disc springs for Fire-Tight valves to maintain a constant packing force without over-compression. It is available with new valves or as a retrofit kit for existing valves. Additional options, available with or without the Emission-Pak live-loaded packing, include double packing or double packing with monitoring port to facilitate testing of the primary seal and allow detection of a potential leak problem. Order valves for special services should be marked by order instructions. The operating torque of valves with Emission-Pak live-loaded packing increase refer to the torque data section.

◎蒸汽工况

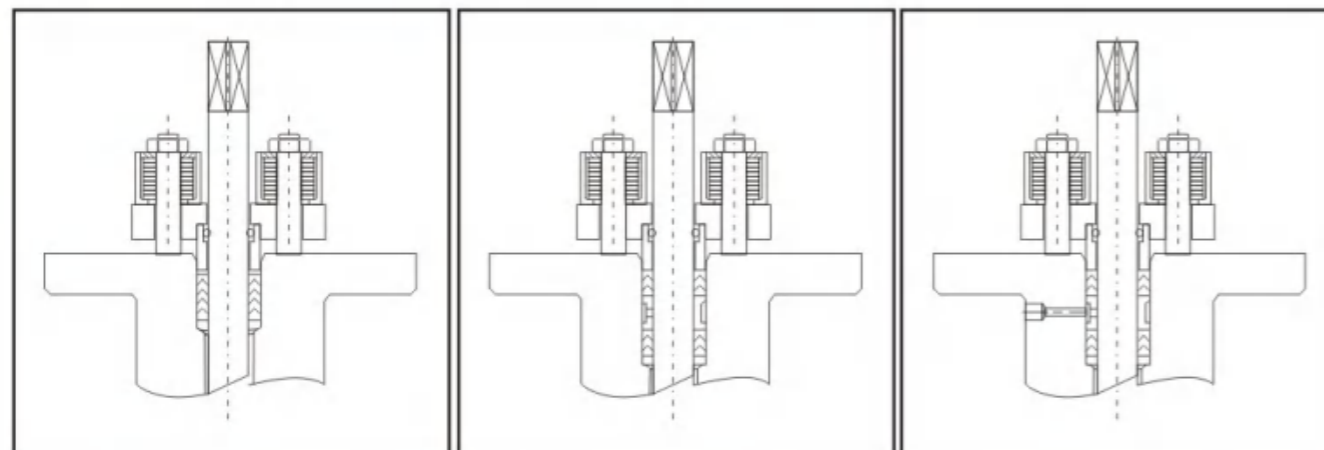
对夹式蝶阀, 包括RPTFE阀座的额定值较低的阀门到带PPL/PEEK阀座的阀门, 适用于范围很广的蒸汽工况。在蒸汽工况作为开关用的阀门额定值如下表所列, 根据轴材料的选用, 额定值会减低。

◎Steam service

Butterfly valves are well-suited for a wide range of steam applications. These range from PTFE-seated valves capable of handling lower pressure to valves with PPL/PEEK seats. Ratings of values in this buttering for on-off steam service are as follows: Valves may be derated based on shaft material selection.

阀门型号 valve type	阀座材料 seat material	最大压差 Maximum differential pressure	
		psi	bar
Class150	PEEK	200	14
Class300	PEEK	450	31

根据ASME/ANSI B16.34碳钢阀体在饱和蒸汽温度的最大额定值。
Max. rating of carbon steel body per ASME/ANSI B16.34 at corresponding saturated steam temperature.



动载填料的密封 (抑微泄盘根)
live-loaded packing seal (Emission-Pak)

带双重填料的动载密封 (抑微泄盘根)
live-loaded seal with double packing seal (Emission-Pak)

带双重填料的检测孔的动载 (抑微泄盘根)
live-loaded seal with double packing and monitoring port

◎操作手柄与驱动装置

对于小规格的蝶阀可选用手柄, 所有手柄都具有自锁功能。对于高于下列值的压差建议使用蜗轮、气动或电动装置。

◎Operating handles and actuators

As an option, handles are available for smaller sizes of the butterfly valve. We recommend that manual-gear, pneumatic, or electric actuators be used at differential pressures higher than the values listed below. All handles have locking function.

Class150									
阀门尺寸 valve size		最大压差 Maximum differential pressure				手柄长度 Handle length		手柄重量 Handle weight	
NPS	DN	RPTFE 阀座 RPTFE seat		耐火阀座 Refractory seat		inches	mm	lb	kg
		psi	bar	psi	bar				
2	50	285	19.7	285	19.7	11	279	3	1.3
2-1/2	65	285	19.7	285	19.7	11	279	3	1.3
3	80	285	19.7	285	19.7	11	279	3	1.3
4	100	285	19.7	285	19.7	11	279	3	1.3
5	125	150	10.3	-	-	11	279	3	1.3
6	150	150	10.3	-	-	11	279	3	1.3
8	200	150	10.3	-	-	22	559	15	6.8
10	250	50	3.4	-	-	22	559	15	6.8
12	300	50	3.4	-	-	22	559	15	6.8

Class300									
阀门尺寸 valve size		最大压差 Maximum differential pressure				手柄长度 Handle length		手柄重量 Handle weight	
NPS	DN	RPTFE 阀座 RPTFE seat		耐火阀座 Refractory seat		inches	mm	lb	kg
		psi	bar	psi	bar				
2	50	300	20.7	-	-	11	279	3	1.3
2-1/2	65	300	20.7	-	-	11	279	3	1.3
3	80	300	20.7	300	20.7	11	279	3	1.3
4	100	300	20.7	300	20.7	11	279	3	1.3
5	125	300	20.7	-	-	11	279	3	1.3
6	150	150	10.3	-	-	22	559	15	6.8
8	200	150	10.3	-	-	22	559	15	6.8
10	250	50	3.4	-	-	22	559	15	6.8

Valve Torque

阀门扭矩

TEK VALVE

阀门扭矩

Class150和Class300系列的开启与关闭扭矩可按下面的公式计算。为了方便起见，可使用下表来迅速选择驱动装置。

Valve Torque

The torque required to open or close the Class150and Class300 can easily be calculated using the equation the following page. However,for your convenience, the following tables can be used as a quick guide for actuator selections.

Class150 Torque

阀门尺寸 valve size		RPTFE阀座 RPTFE the seats					
		关闭压差 Shut down the differential					
NPS	DN	lb-ft@ 100 psi	Nm@ 6.9bar	lb-ft@ 200 psi	Nm@ 13.8bar	lb-ft@ 285 psi	Nm@ 19.7bar
2	50	16	23	18	24	19	26
2-1/2	65	21	29	23	31	24	33
3	80	25	34	27	37	29	39
4	100	35	47	39	51	43	58
5	125	48	65	56	74	63	86
6	150	72	97	83	113	93	126
8	200	121	164	142	193	160	217
10	250	163	222	202	274	234	318
12	300	214	290	287	390	350	475
14	350	362	491	505	684	626	849
16	400	463	628	646	876	802	1087
18	450	602	816	844	1144	1050	1423
20	500	810	1098	1140	1546	1421	1926
24	600	1234	1673	1758	2384	2200	2983
30	750	2170	2942	2940	3986	3595	4873
36	900	3530	4786	4860	6589	5990	8121
42	1050	5780	7873	8060	10928	10000	13558
48	1200	9170	12433	12840	17409	15960	21638
54	1350	12950	17558	17900	24269	22110	29977
60	1500	19020	25790	26040	35310	32000	43397

Class300 Torque

阀门尺寸 valve size		RPTFE阀座 RPTFE the seats					
		关闭压差 Shut down the differential					
NPS	DN	N.m@ 20.7bar	N.m@ 27.6bar	N.m@ 34.5bar	N.m@ 41.4bar	N.m@ 48.3bar	N.m@ 51bar
2-1/2	65	34	37	40	44	47	49
3	80	42	46	51	55	60	62
4	100	70	79	88	97	106	110
5	125	120	135	158	175	195	193
6	150	161	188	214	241	267	278
8	200	313	368	422	477	532	554
10	250	480	572	664	756	848	885
12	300	667	790	913	1035	1158	1207
14	350	1117	1372	1627	1882	2137	2239
16	400	1340	1643	1946	2248	2550	2671
18	450	1734	2118	2520	2885	3269	3422
20	500	2314	2842	3369	3897	4424	4635
24	600	3131	3840	4549	5258	5967	6251
30	750	5708	6888	8067	9247	10426	10898
36	900	9789	11877	13965	16053	18141	18976

Class150 Fire Desidn Torque

阀门尺寸 valve size		防火设计扭矩,RPTFE阀座 Fire design torque,RPTFE the seats					
		关闭压差 Shut down the differential					
NPS	DN	lb-ft@ 100 psi	Nm@ 6.9bar	lb-ft@ 200 psi	Nm@ 13.8bar	lb-ft@ 285psi	Nm@ 19.7bar
2	50	33	44	35	47	37	50
2-1/2	65	42	57	45	61	47	64
3	80	53	72	57	77	59	81
4	100	67	91	74	100	80	108
5	125	97	132	114	155	128	174
6	150	131	178	152	206	170	230
8	200	218	296	256	347	288	391
10	250	333	452	406	550	468	635
12	300	508	689	636	826	745	1010
14	350	604	819	758	1028	889	1205
16	400	710	963	920	1247	1099	1489
18	450	970	1315	1240	1657	1470	2018
20	500	1390	1885	1780	2385	2100	2864
24	600	2050	2779	2700	3661	3353	4410
30	750	2920	3959	3940	5342	4807	6517
36	900	3530	4786	4960	6725	6176	8673
42	1050	5620	7620	7440	10087	8987	12185
48	1200	8800	11931a	12100	16405	14905	20208

Class300 Fire Desidn Torque

阀门尺寸 valve size		防火设计扭矩,RPTFE阀座 Fire design torque,RPTFE the seats					
		关闭压差 Shut down the differential					
NPS	DN	N.m@ 20.7bar	N.m@ 27.6bar	N.m@ 34.5bar	N.m@ 41.4bar	N.m@ 48.3bar	N.m@ 51bar
3	80	77	79	81	83	85	86
4	100	117	127	138	149	160	164
6	150	256	287	319	350	381	394
8	200	424	480	536	591	647	669
10	250	629	708	786	865	944	975
12	300	1119	1302	1485	1668	1851	1924
14	350	1250	1459	1668	1877	2085	2169
16	400	1586	1885	2183	2481	2779	2899
18	450	2685	3308	3932	4556	5179	5429
20	500	3796	4691	5586	6481	7376	7734
24	600	5966	7321	8677	10033	11389	11931

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High Performance Wafer Butterfly Valve

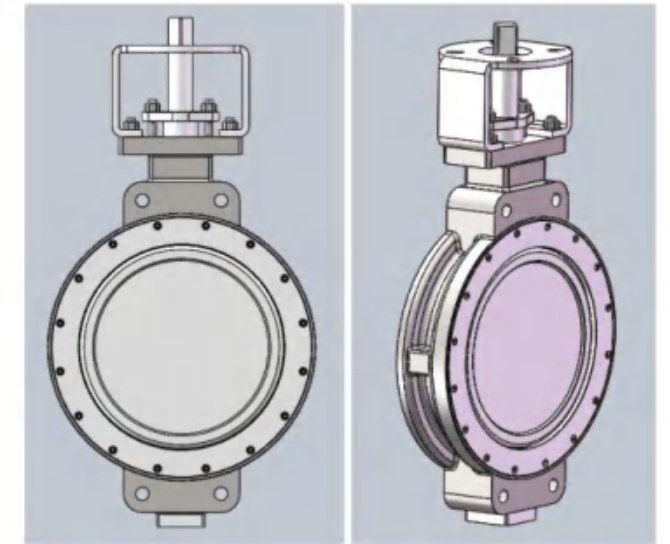
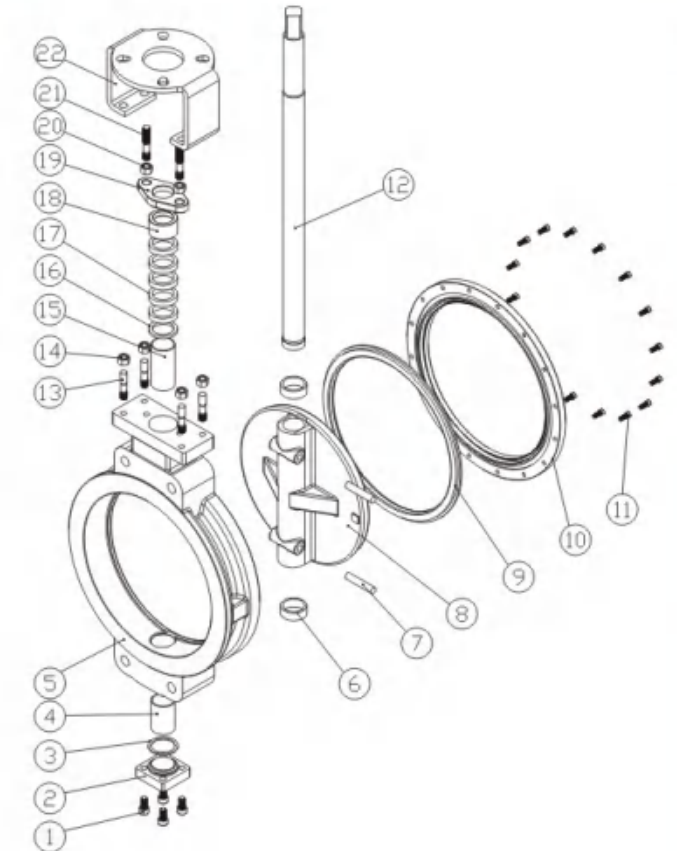
高性能对夹蝶阀

TEK VALVE

高性能对夹式蝶阀部件材质

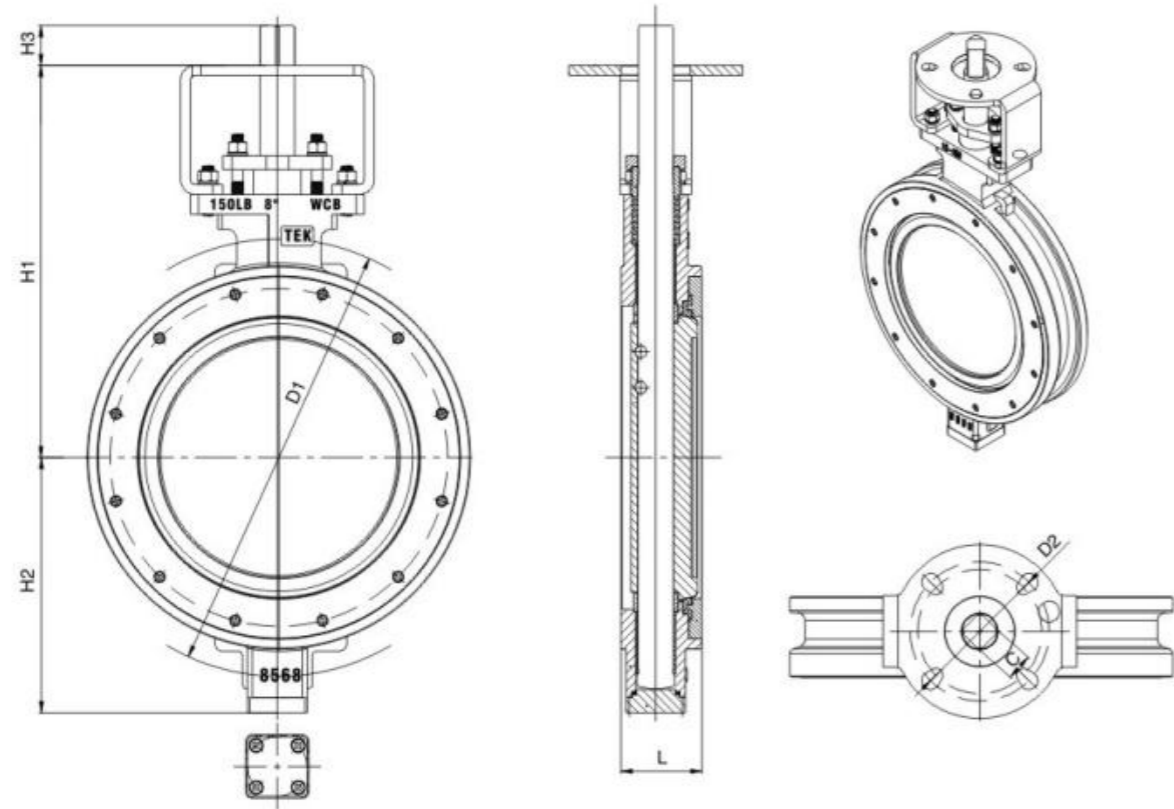
High performance Wafer Butterfly Valve Material

NO	名称 Name	材质 Material
1	螺栓 Screw	A193 B8, A193 B8M
2	端盖 End Housing	A105, F304, F316
3	垫片 Gasket	SS316+Graphite
4	轴套 Bushings	SS316+PTFE
5	阀体 Body	WCB, CF8, CF8M
6	定位套 Positioning set	SS316
7	销 Pin	SS316
8	蝶板 Disc	CF8, CF8M
9	阀座 Seat	RPTFE, PPL, PEEK
10	压板 Retainer Flange	CS, SS304, SS316
11	螺栓 Screw	A193 B8M
12	阀杆 Stem	17-4PH,F51
13	螺栓 Bolt	A193 B8, A193 B8M
14	螺母 Nut	A193 8, A193 8M
15	轴套 Bushings	SS316+PTFE
16	填料垫 Packing Gasket	SS316
17	填料 Packing	PTFE, Graphit
18	填料压盖 Packing Gland	SS316
19	填料压板 Packing Flange	SS304
20	螺母 Nut	A193 8, A193 8M
21	螺栓 Bolt	A193 B8, A193 B8M
22	支架 York	CS, SS304



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2"~8" Class150 对夹式蝶阀尺寸
2"~8" Class150 Wafer Butterfly Valve size

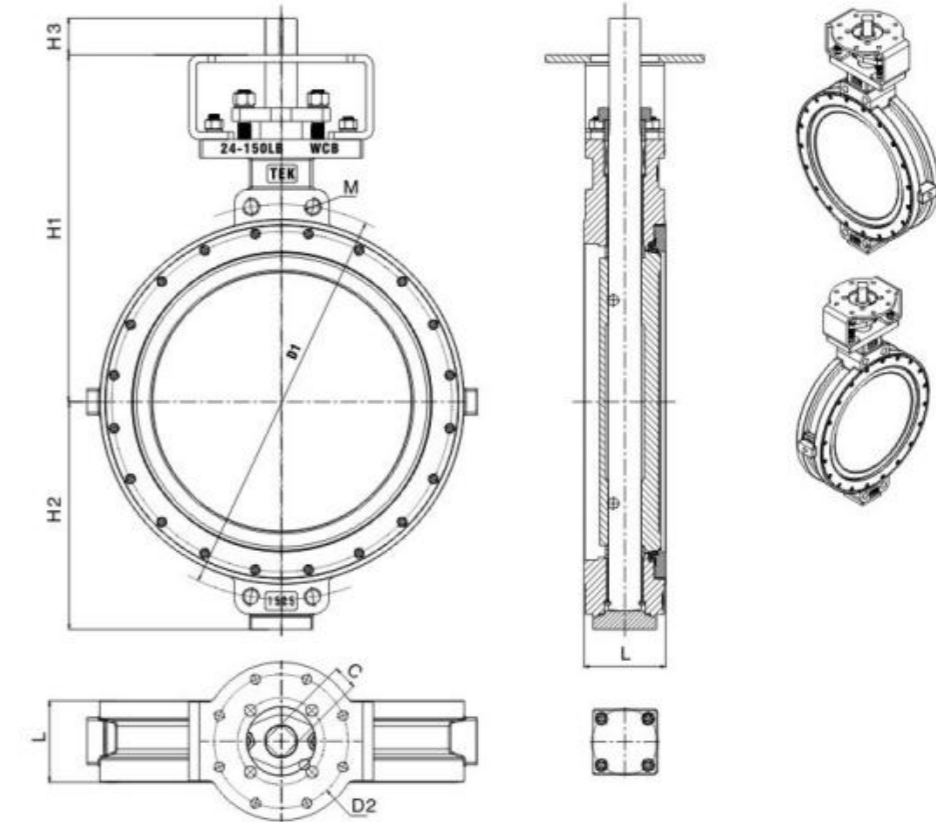


◎ 尺寸参数 Size parameters

Class150LB

NPS	DN	L	D1	D2	n-c-d	H1	H2	H3	C* <i>C</i>	TOP FLANGE	Torque
2	50	43	121	70	4-19	184	65	20	11*11	ISO5211 F07	26N.m
2.5	65	48	139.7	70	4-19	205	85	20	11*11	ISO5211 F07	33N.m
3	80	48	152.4	70	4-19	205	85	20	11*11	ISO5211 F07	39N.m
4	100	54	190	70	8-19	215	105	20	14*14	ISO5211 F07	58N.m
5	125	57	215.9	70	8-22	240	145	25	17*17	ISO5211 F07	86N.m
6	150	57	241	102	8-22	250	152	25	17*17	ISO5211 F10	126N.m
8	200	64	298.4	102	8-22	280	188	32	19*19	ISO5211 F10	217N.m

10"~36" Class150 对夹式蝶阀尺寸
10"~36" Class150 Wafer Butterfly Valve size

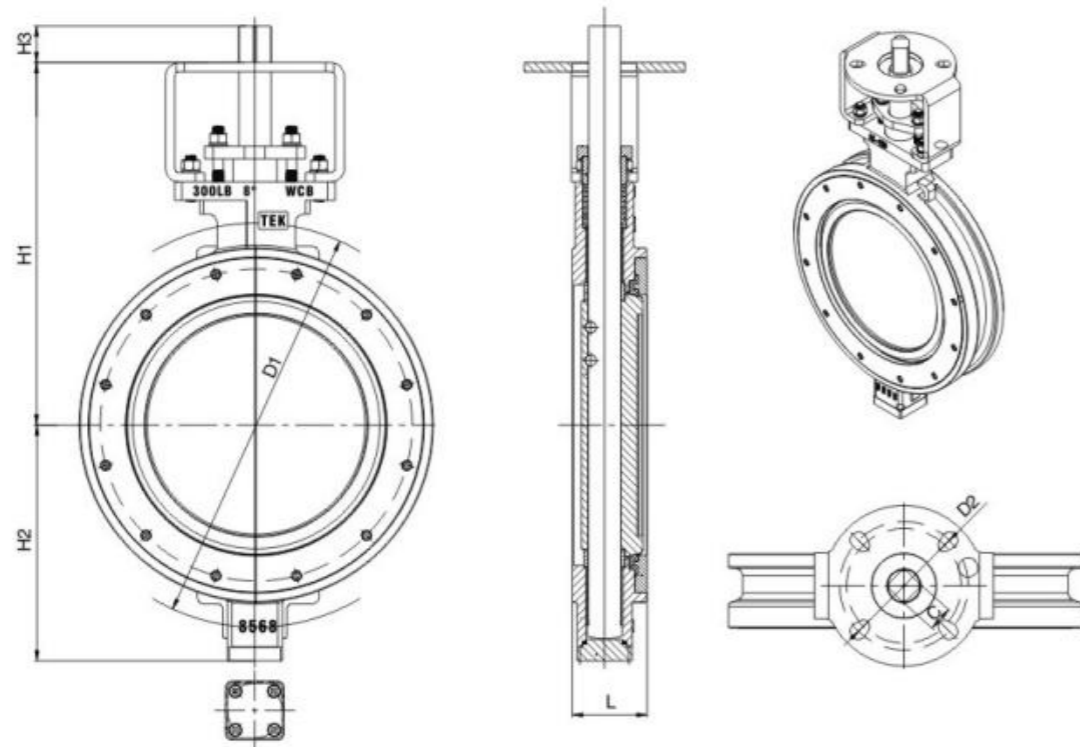


◎ 尺寸参数 Size parameters

Class150LB

NPS	DN	L	D1	D2	M	H1	H2	H3	C* <i>C</i>	TOP FLANGE	Torque
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 F25	8121N.m

2"~8" Class300 对夹式蝶阀尺寸
2"~8" Class300 Wafer Butterfly Valve size

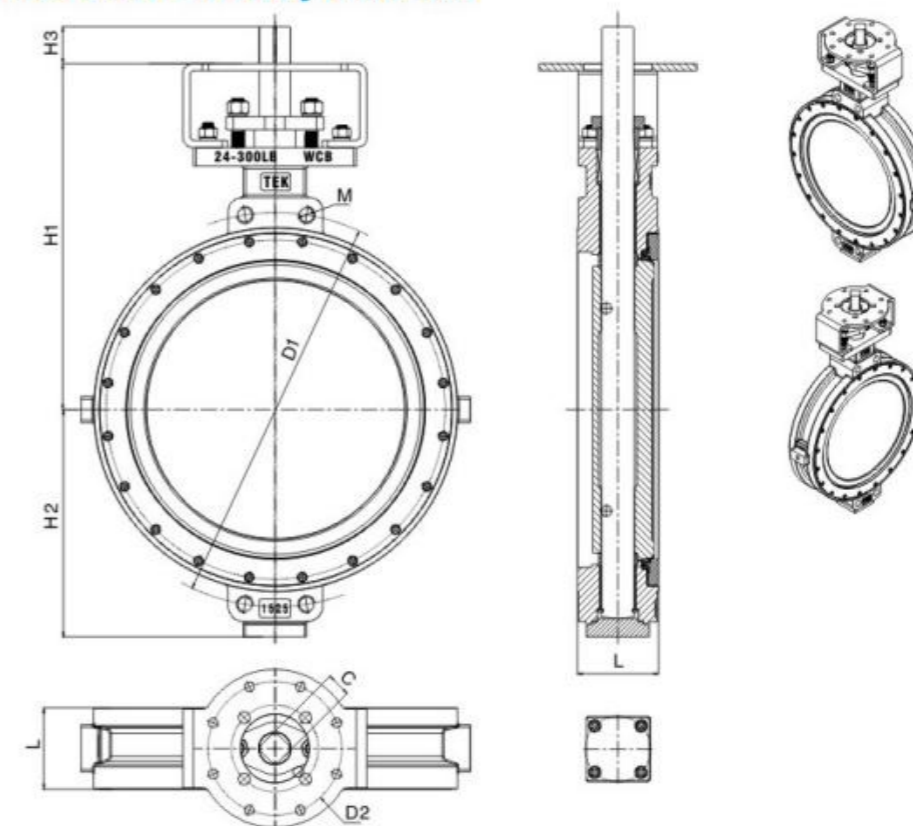


◎ 尺寸参数 Size parameters

Class300LB

NPS	DN	L	D1	D2	n-c d	H1	H2	H3	C°C	TOP FLANGE	Torque
2	50	43	127	70	8-19	184	65	20	11°11	ISO5211 F07	39N.m
2.5	65	48	149.2	70	8-22	205	85	20	11°11	ISO5211 F07	49N.m
3	80	48	168.3	70	8-22	205	85	20	11°11	ISO5211 F07	62N.m
4	100	54	200	70	8-22	215	105	20	14°14	ISO5211 F07	110N.m
5	125	57	234.9	70	8-22	240	145	25	17°17	ISO5211 F07	193N.m
6	150	59	269.9	102	12-22	250	152	25	17°17	ISO5211 F10	278N.m
8	200	73	330.2	102	12-25	280	188	32	21°21	ISO5211 F12	554N.m

10"~36" Class300 对夹式蝶阀尺寸
10"~36" Class300 Wafer Butterfly Valve size



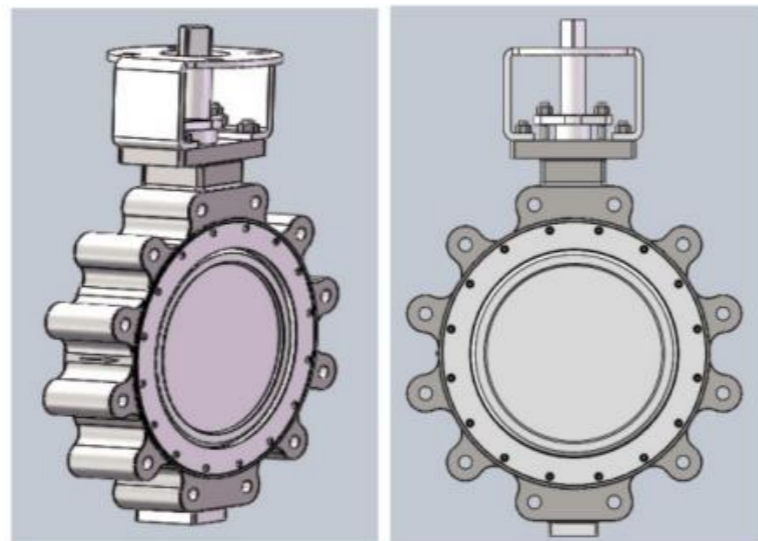
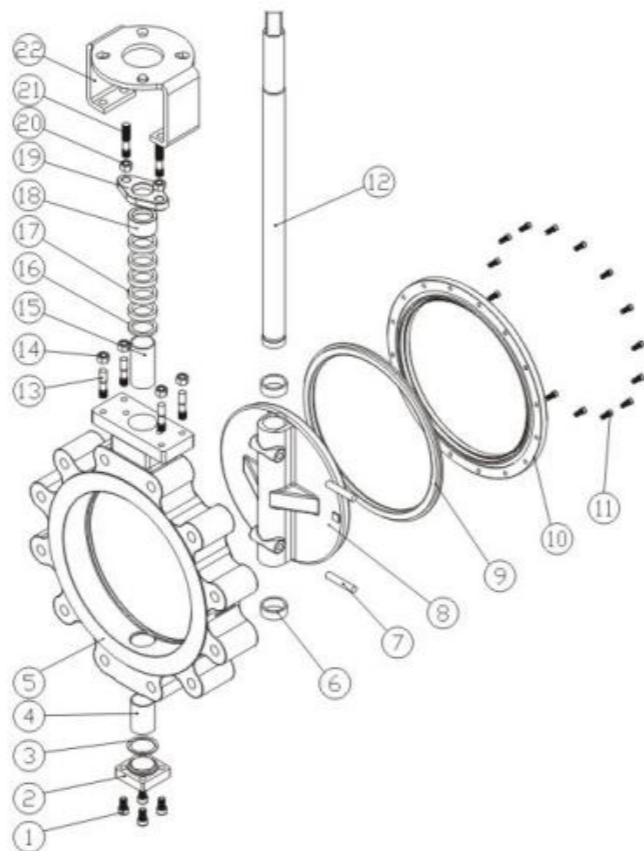
◎ 尺寸参数 Size parameters

Class300LB

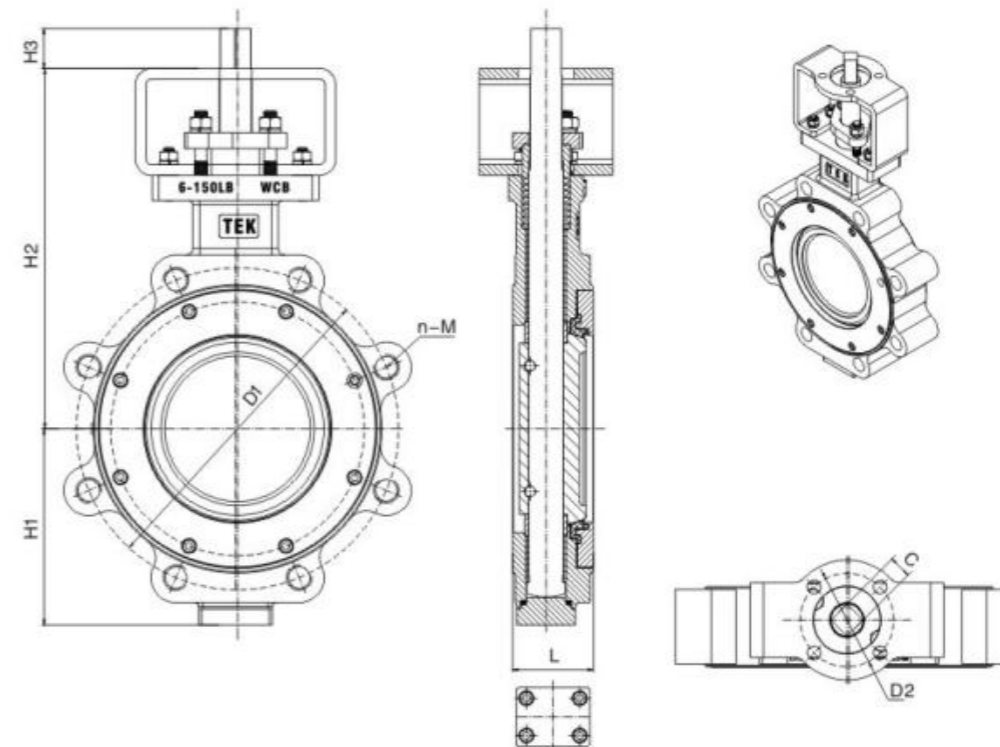
NPS	DN	L	D1	D2	M	H1	H2	H3	C°C	TOP FLANGE	Torque
10	250	83	387.4	125	4-1"	392	222	35	24°24	ISO5211 F12	885N.m
12	300	92	450.9	140	4-1-1/8"	457	270	40	29°29	ISO5211 F14	1207N.m
14	350	117	514.4	165	4-1-1/8"	480	290	40	41°41	ISO5211 F16	2239N.m
16	400	133	571.5	165	4-1-1/4"	535	335	55	41°41	ISO5211 F16	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

Class150 凸耳式蝶阀部件材质
Class150 LUG Butterfly Valve Material

NO	名称 Name	材质 Material
1	螺栓 Screw	A193 B8, A193 B8M
2	端盖 EN Housing	A105, F304, F316
3	垫片 Gasket	SS316+Graphite
4	轴套 Bushings	SS316+PTFE
5	阀体 Body	WCB, CF8, CF8M
6	定位套 Positioning set	SS316
7	销 Pin	SS316
8	蝶板 Disc	CF8, CF8M
9	阀座 Seat	RPTFE, PPL, PEEK
10	压板 Retainer Flange	CS, SS304, SS316
11	螺栓 Screw	A193 B8M
12	阀杆 Stem	17-4PH, F51
13	螺栓 Bolt	A193 B8, A193 B8M
14	螺母 Nut	A193 8, A193 8M
15	轴套 Bushings	SS316+PTFE
16	填料垫 Packing Gasket	SS316
17	填料 Packing	PTFE, Graphit
18	填料压盖 Packing Gland	SS316
19	填料压板 Packing Flange	SS304
20	螺母 Nut	A193 8, A193 8M
21	螺栓 Bolt	A193 B8, A193 B8M
22	支架 York	CS, SS304



2"~16" Class150 凸耳式蝶阀尺寸
2"~16" Class150 LUG Butterfly Valve size



尺寸参数 Size parameters

Class150LB

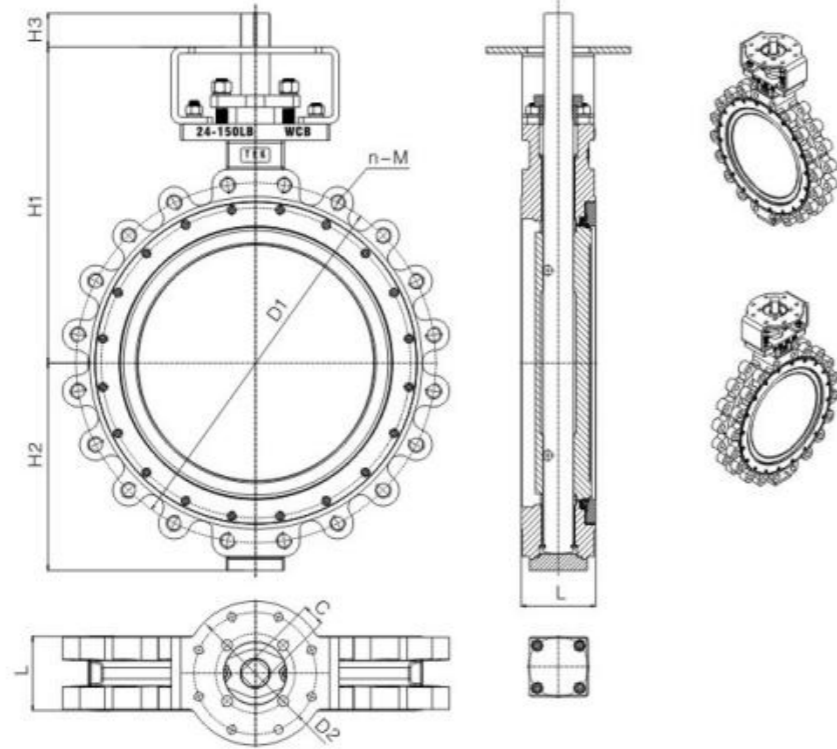
NPS	DN	L	D1	D2	n-M	H1	H2	H3	C°C	TOP FLANGE	Torque
2	50	43	121	70	4-5/8"	184	65	20	11*11	ISO5211 F07	26N.m
2.5	65	48	139.7	70	4-5/8"	205	85	20	11*11	ISO5211 F07	33N.m
3	80	48	152.4	70	4-5/8"	205	85	20	11*11	ISO5211 F07	39N.m
4	100	54	190	70	8-5/8"	215	105	20	14*14	ISO5211 F07	58N.m
5	125	57	215.9	70	8-3/4"	240	145	25	17*17	ISO5211 F07	86N.m
6	150	57	241	102	8-3/4"	250	152	25	17*17	ISO5211 F10	126N.m
8	200	64	298.4	102	8-3/4"	280	188	32	19*19	ISO5211 F10	217N.m
10	250	71	361.9	125	12-7/8"	386	219	35	22*22	ISO5211 F12	318N.m
12	300	81	431.8	140	12-7/8"	429	256	40	27*27	ISO5211 F14	475N.m
14	350	92	476.2	165	12-1"	472	282	40	27*27	ISO5211 F16	849N.m
16	400	102	539.8	165	16-1"	509	322	55	36*36	ISO5211 F16	1087N.m

Class150 High Performance LUG Butterfly Valve

TEK VALVE

Class150 高性能凸耳式蝶阀

18"~36" Class150 凸耳式蝶阀尺寸
18"~36" Class150 LUG Butterfly Valve size



◎ 尺寸参数 Size parameters

Class150LB

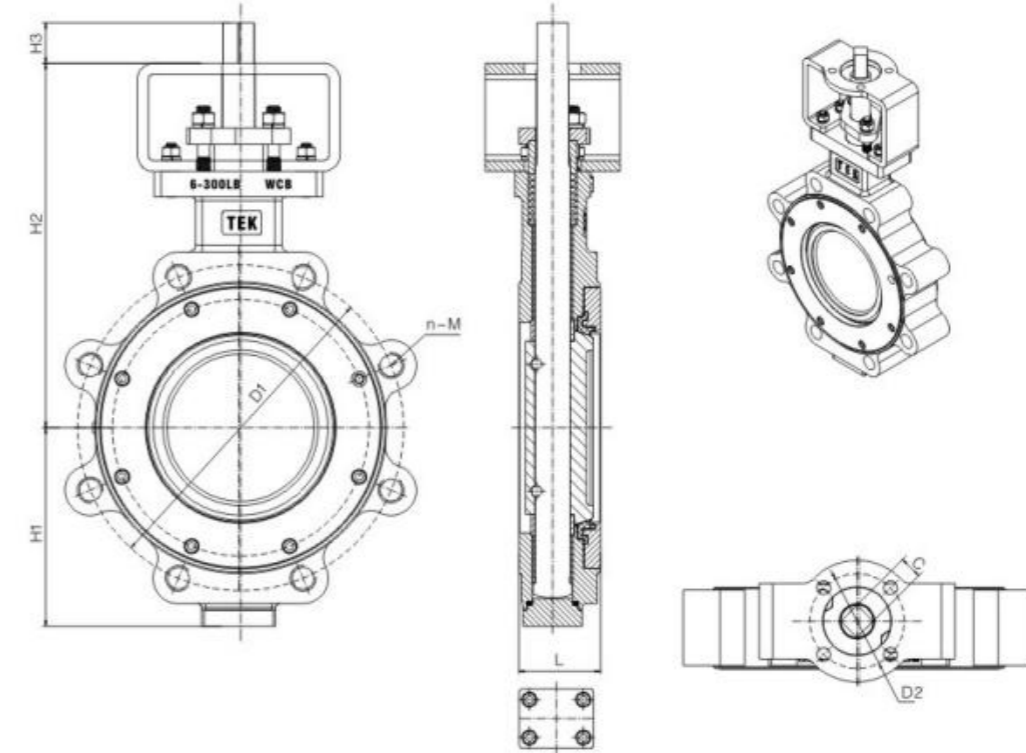
NPS	DN	L	D1	D2	n-M	H1	H2	H3	C×C	TOP FLANGE	Torque
18	450	114	577.9	165	16-1-1/8"	545	347	55	36*36	ISO5211 F16	1423N.m
20	500	127	635	165	20-1-1/8"	570	372	60	40*40	ISO5211 F16	1926N.m
24	600	154	749.3	254	20-1-1/4"	658	432	70	46*46	ISO5211 F25	2983N.m
28	700	165	863.6	254	28-1-1/4"	715	537	90	62*62	ISO5211 F25	4250N.m
30	750	165	914.4	254	28-1-1/4"	760	565	90	68*68	ISO5211 F25	4873N.m
32	800	190	978	254	28-1-1/2"	780	595	90	68*68	ISO5211 F25	6200N.m
36	900	200	1086	298	32-1-1/2"	910	635	100	75*75	ISO5211 F25	8121N.m

Class300 High Performance LUG Butterfly Valve

TEK VALVE

Class300 高性能凸耳式蝶阀

2"~16" Class300 凸耳式蝶阀尺寸
2"~16" Class300 Lug Butterfly Valve size



◎ 尺寸参数 Size parameters

Class300LB

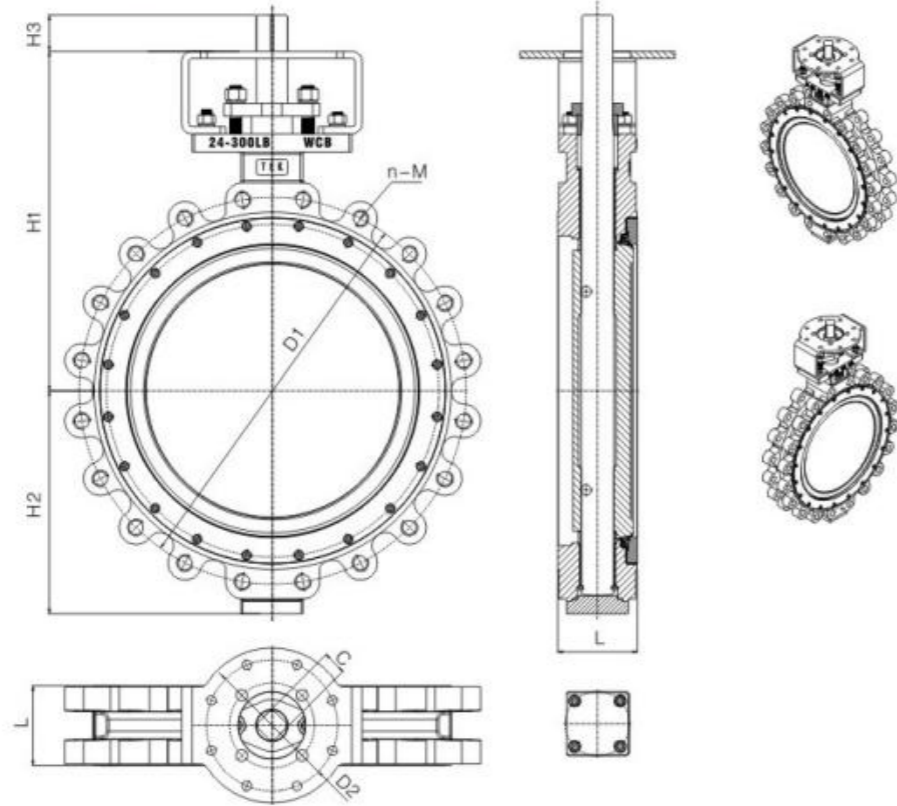
NPS	DN	L	D1	D2	n-M	H1	H2	H3	C×C	TOP FLANGE	Torque
2	50	43	127	70	8-5/8"	184	65	20	11*11	ISO5211 F07	39N.m
2.5	65	48	149.2	70	8-3/4"	205	85	20	11*11	ISO5211 F07	49N.m
3	80	48	168.3	70	8-3/4"	205	85	20	11*11	ISO5211 F07	62N.m
4	100	54	200	70	8-3/4"	215	105	20	14*14	ISO5211 F07	110N.m
5	125	57	234.9	70	8-3/4"	240	145	25	17*17	ISO5211 F07	193N.m
6	150	59	269.9	102	12-3/4"	250	152	25	17*17	ISO5211 F10	278N.m
8	200	73	330.2	102	12-7/8"	280	188	32	21*21	ISO5211 F12	554N.m
10	250	83	387.4	125	16-1"	392	222	35	24*24	ISO5211 F12	885N.m
12	300	92	450.9	140	16-1-1/8"	457	270	40	29*29	ISO5211 F14	1207N.m
14	350	117	514.4	165	20-1-1/8"	480	290	40	41*41	ISO5211 F16	2239N.m
16	400	133	571.5	165	20-1-1/4"	535	335	55	41*41	ISO5211 F16	2671N.m

Class300 High Performance LUG Butterfly Valve

TEK VALVE

Class300 高性能凸耳式蝶阀

18"~36" Class300 凸耳式蝶阀尺寸 18"~36" Class300 Lug Butterfly Valve size



尺寸参数 Size parameters

Class300LB

NPS	DN	L	D1	D2	n-M	H1	H2	H3	C* ^c	TOP FLANGE	Torque
18	450	149	628.7	165	24-1-1/4"	595	367	55	51*51	ISO5211 F16	3422N.m
20	500	159	685.8	254	24-1-1/4"	690	435	60	51*51	ISO5211 F25	4635N.m
24	600	181	812.8	254	24-1-1/2"	758	483	70	58*58	ISO5211 F25	6251N.m
28	700	209	934	298	28-1-5/8"	791	575	90	70*70	ISO5211 F30	9350N.m
30	750	241	997	298	28-1-3/4"	852	621	90	80*80	ISO5211 F30	10898N.m
32	800	241	1054.1	298	28-1-7/8"	980	695	90	85*85	ISO5211 F30	13200N.m
36	900	260	1168.4	356	32-2"	1180	780	100	92*92	ISO5211 F35	18976N.m

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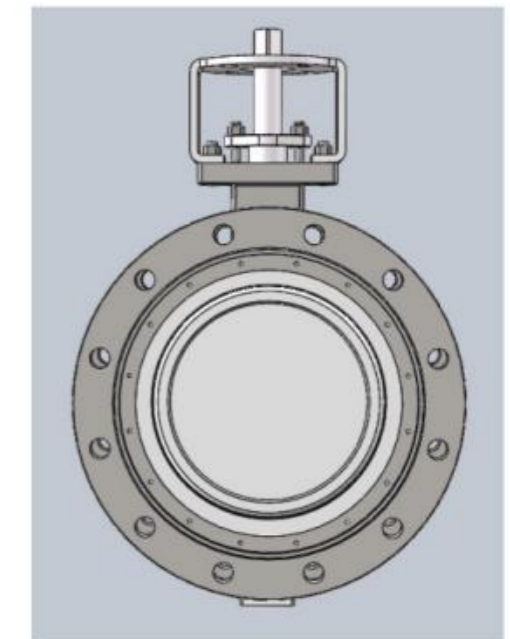
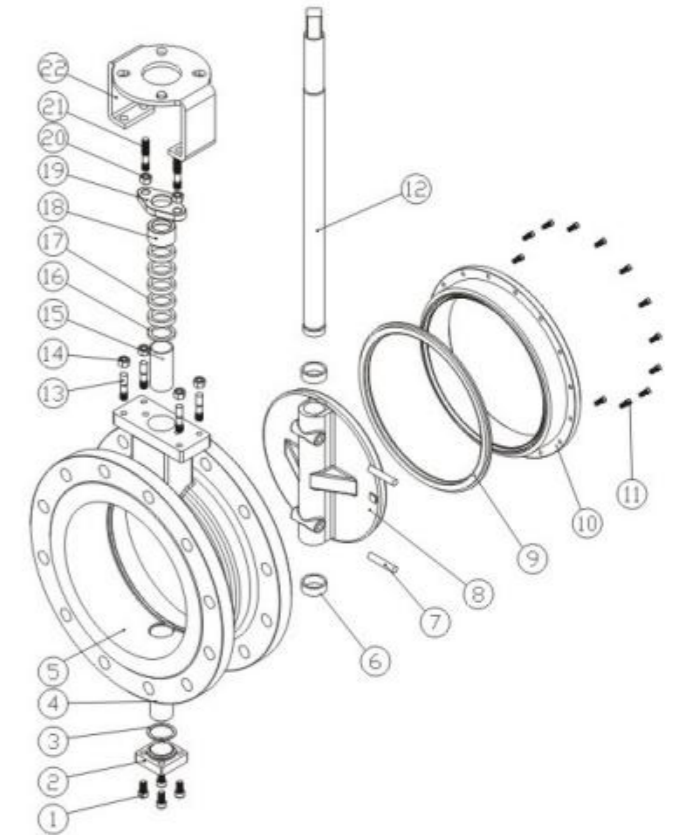
Class150 High Performance Flange Butterfly Valve

TEK VALVE

Class150 高性能法兰式蝶阀

Class150 法兰式蝶阀部件材质 Class150 Flange Butterfly Valve Material

NO	名称 Name	材质 Material
1	螺栓 Screw	A193 B8, A193 B8M
2	端盖 EN Housing	A105, F304, F316
3	垫片 Gasket	SS316+Graphite
4	轴套 Bushings	SS316+PTFE
5	阀体 Body	WCB, CF8, CF8M
6	定位套 Positioning set	SS316
7	销 Pin	SS316
8	蝶板 Disc	CF8, CF8M
9	阀座 Seat	RPTFE, PPL, PEEK
10	压板 Retainer Flange	CS, SS304, SS316
11	螺栓 Screw	A193 B8M
12	阀杆 Stem	17-4PH, F51
13	螺栓 Bolt	A193 B8, A193 B8M
14	螺母 Nut	A193 8, A193 8M
15	轴套 Bushings	SS316+PTFE
16	填料垫 Packing Gasket	SS316
17	填料 Packing	PTFE, Graphit
18	填料压盖 Packing Gland	SS316
19	填料压板 Packing Flange	SS304
20	螺母 Nut	A193 8, A193 8M
21	螺栓 Bolt	A193 B8, A193 B8M
22	支架 York	CS, SS304



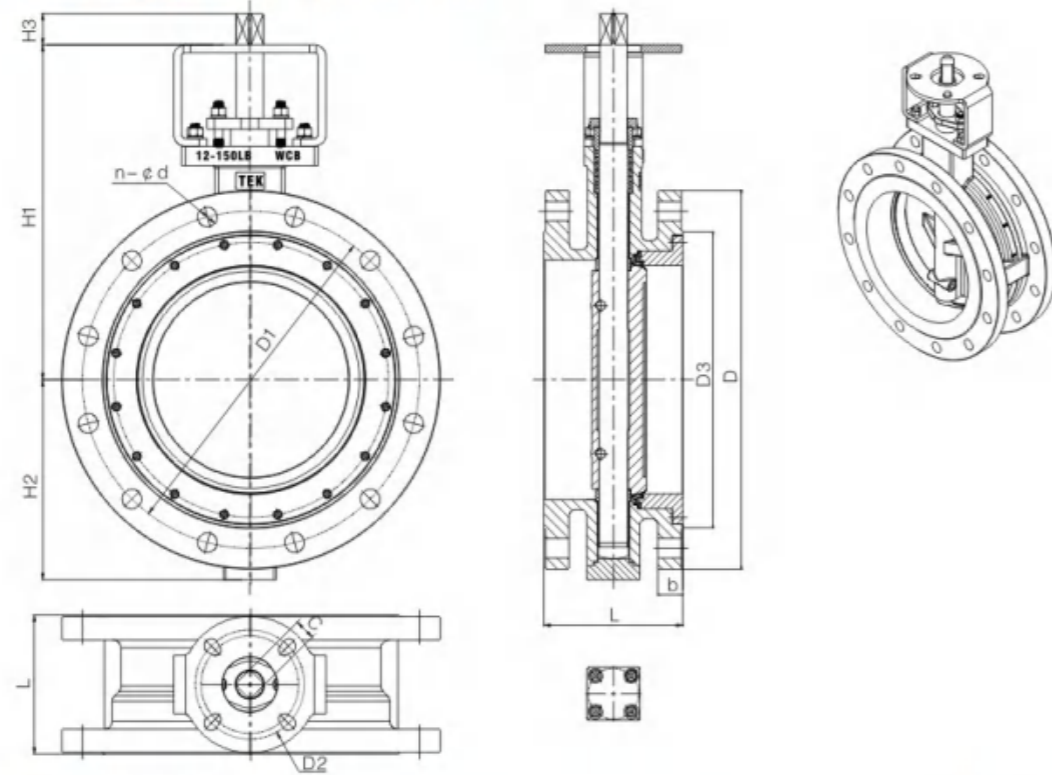
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Class150 High Performance Flange Butterfly Valve

TEK VALVE

Class150 高性能法兰式蝶阀

3"~36" Class150 法兰式蝶阀尺寸 3"~36" Class150 Flange Butterfly Valve size



尺寸参数 Size parameters

Class150LB

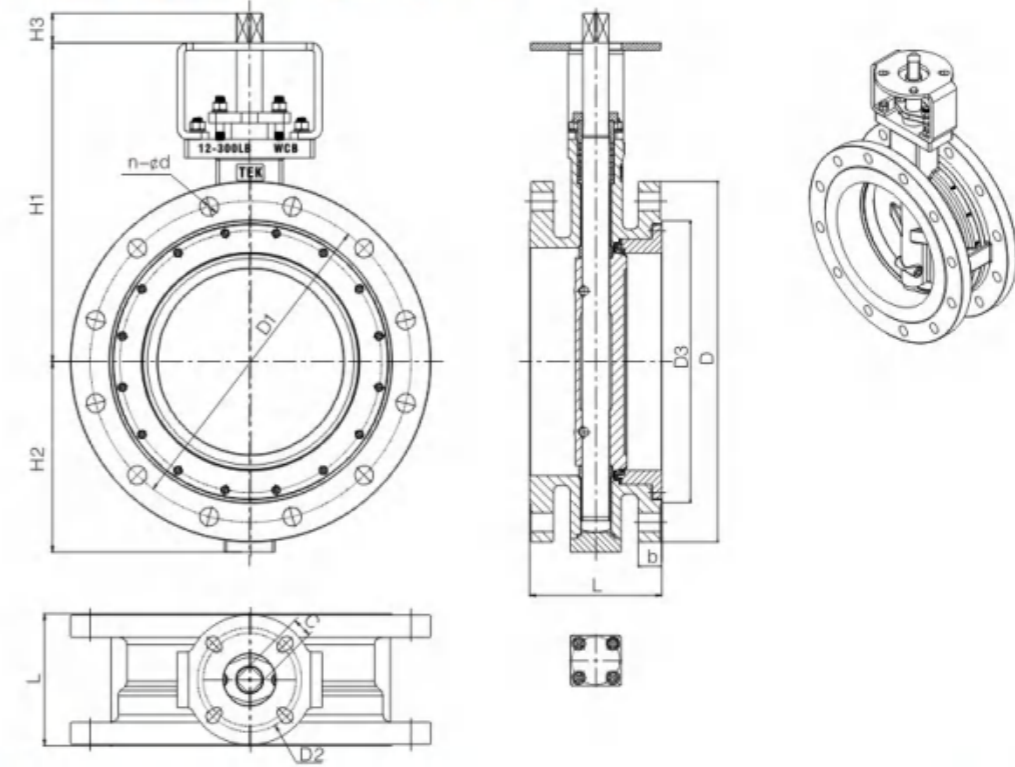
NPS	DN	L	D	D1	D2	D3	b	n-c d	H1	H2	H3	C°C	TOP FLANGE	Torque
3	80	114	191	152.4	70	127	24	4-19	205	85	20	11°11	ISO5211 F07	39N.m
4	100	127	229	190	70	157.2	24	8-19	215	105	25	14°14	ISO5211 F07	58N.m
5	125	140	254	215.9	70	185.7	24	8-22	240	145	25	17°17	ISO5211 F07	86N.m
6	150	140	279	241	102	216	26	8-22	250	152	25	17°17	ISO5211 F10	126N.m
8	200	152	343	298.4	102	269.9	29	8-22	280	188	32	19°19	ISO5211 F10	217N.m
10	250	165	406	361.9	125	323.8	30	12-25	386	219	35	22°22	ISO5211 F12	318N.m
12	300	178	483	431.8	140	381	32	12-25	429	256	40	27°27	ISO5211 F14	475N.m
14	350	190	533	476.2	165	412.7	35	12-29	472	282	40	27°27	ISO5211 F16	849N.m
16	400	216	597	539.8	165	470	37	16-29	509	322	55	36°36	ISO5211 F16	1087N.m
18	450	222	635	577.9	165	533.4	40	16-32	545	347	55	36°36	ISO5211 F16	1423N.m
20	500	229	699	635	165	584.2	43	20-32	570	372	60	40°40	ISO5211 F16	1926N.m
24	600	267	813	749.3	254	692.2	48	20-35	658	432	70	46°46	ISO5211 F25	2983N.m
28	700	292	927	863.6	254	800	71	28-35	715	537	90	62°62	ISO5211 F25	4250N.m
30	750	318	984	914.4	254	857	75	28-35	760	565	90	68°68	ISO5211 F25	4873N.m
32	800	318	1060	978	254	914	81	28-41	790	595	90	68°68	ISO5211 F25	6200N.m
36	900	330	1168	1086	298	1022	90	32-41	910	635	100	75°75	ISO5211 F25	8121N.m

Class300 High Performance Flange Butterfly Valve

TEK VALVE

Class300高性能法兰式蝶阀

3"~36" Class300 法兰式蝶阀尺寸 3"~36" Class300 Flange Butterfly Valve size



尺寸参数 Size parameters

Class300LB

NPS	DN	L	D	D1	D2	D3	b	n-c d	H1	H2	H3	C°C	TOP FLANGE	Torque
3	80	180	210	168.3	70	127	29	8-22	205	85	20	11°11	ISO5211 F07	62N.m
4	100	190	254	200	70	157.2	32	8-22	215	105	20	14°14	ISO5211 F07	110N.m
5	125	210	279	234.9	70	185.7	35	8-22	240	145	25	17°17	ISO5211 F07	193N.m
6	150	210	318	269.9	102	215.9	37	12-22	250	152	25	17°17	ISO5211 F10	278N.m
8	200	230	381	330.2	102	269.9	42	12-25	280	188	32	21°21	ISO5211 F12	554N.m
10	250	250	445	387.4	125	323.8	48	16-29	392	222	35	24°24	ISO5211 F12	885N.m
12	300	270	521	450.9	140	381	51	16-32	457	270	40	29°29	ISO5211 F14	1207N.m
14	350	290	584	514.4	165	412.7	54	20-32	480	290	40	41°41	ISO5211 F16	2239N.m
16	400	310	648	571.5	165	470	57	20-35	535	335	55	41°41	ISO5211 F16	2671N.m
18	450	330	711	628.7	165	533.4	60	24-35	595	367	55	51°51	ISO5211 F16	3422N.m
20	500	350	775	685.8	254	584.2	64	24-35	690	435	60	51°51	ISO5211 F25	4635N.m
24	600	390	914	812.8	254	692.2	70	24-41	758	483	70	58°58	ISO5211 F25	6251N.m
28	700	430	1035	934	298	800	86	28-45	791	575	90	70°70	ISO5211 F30	9350N.m
30	750	450	1092	997	298	857	92	28-48	852	621	90	80°80	ISO5211 F30	10898N.m
32	800	470	1149	1054.1	298	914	99	28-51	980	695	90	85°85	ISO5211 F30	13200N.m
36	900	510	1270	1168.4	356	1022	105	32-54	1180	780	100	92°92	ISO5211 F35	18976N.m