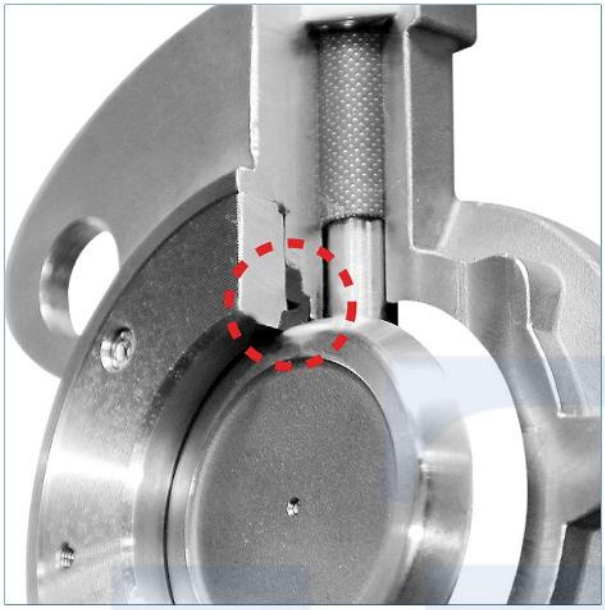
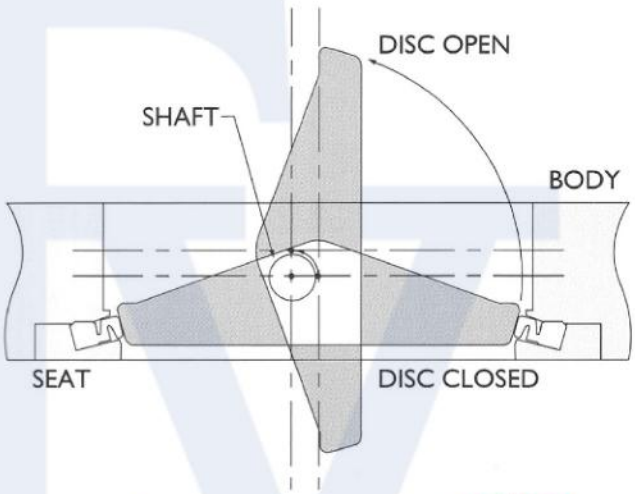


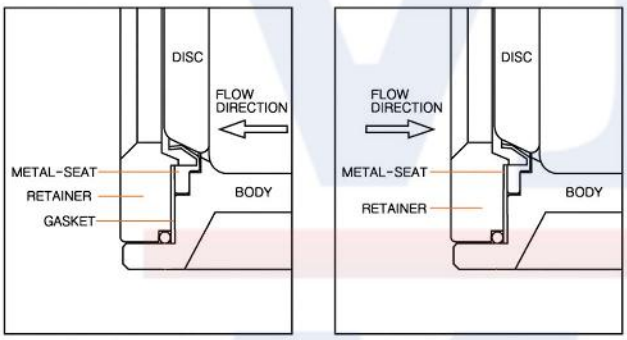
Structural Characteristics of the VTV - MAX High Performance Butterfly Valve Seat Design

Eccentric Double Offset Design Seating

The double offset shaft/disc design ensures bidirectional sealing throughtout the full pressure of the valve. The cam-like action produced by the offset stem and disc, effectively lifts the disc off the seat during the initial opening of the valve, reducing seat wear and eliminating seat deformation at the top and bottom. When the disc is in the open position, there is no contact between the disc and seat. Operating torques are reduced and seat life is extended



Soft Seat

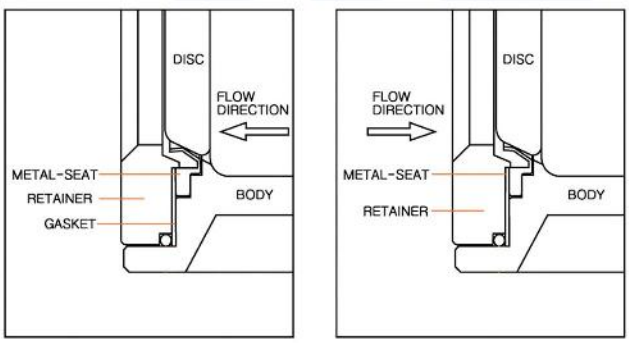


Seat Material Maximum Working Temperature

PTFE - SEAT 190°C (375°F) TFM - SEAT 246°C (475°F)

RTFE - SEAT 230°C (446°F) PEEK - SEAT 270°C (529°F)

Metal Seat



Seat Material Maximum Working Temperature

METAL - SEAT 450°C

Class VI of ANSI / FCI 70 - 2 Class VI Leakage Rate

HP BUTTERFLY VALVE WITH PNEUMATIC ACTUATED

HP BUTTERFLY VALVE WITH ELECTRIC ACTUATED

LEVER

GEAR

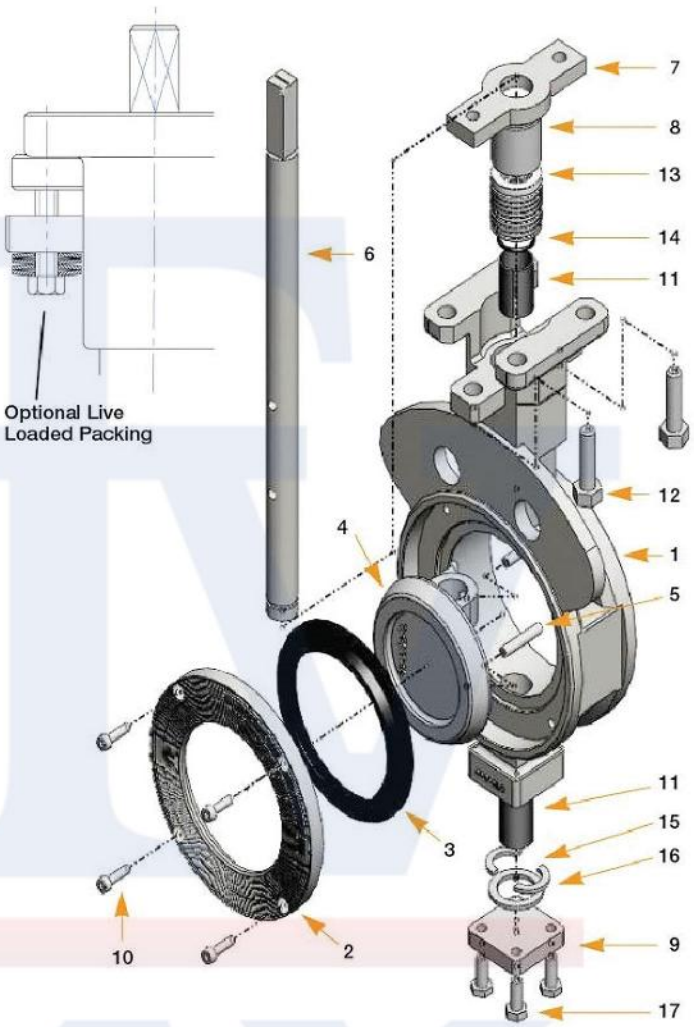
Specification is subject to change without prior notice

HOW TO ORDER

1	2	3	4	5	6	7	8	9		10
W	1	M	V	050	W	W	2	G	/	-

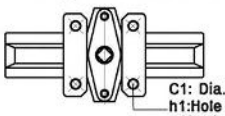
1	VALVE TYPE	L	Lugged Type
		W	Wafer Type
2	PRESSURE RATING	1	ASME Class 150
		2	ASME Class 300
3	SEAT MATERIAL	P	PTFE
		R	RTFE
		M	Metal - SS316L
4	PACKING CONTRUCTION	V	V-Packing - Temp. Max. 230 Deg C
		G	Graphite - Temp. Max. 450 Deg C
5	VALVE SIZE	XXX	eq. 2" = 050
6	BODY MATERIAL	A	ASTM A351 Gr. CF8
		W	ASTM A351 Gr. CF8M
		C	Carbon Steel
7	DISC MATERIAL	L	ASTM A351 Gr. CF8
		W	ASTM A351 Gr. CF8M
8	STEM & PIN MATERIAL	1	17 - 4PH
		2	SS316
9	OPERATED TYPE	L	Lever (Up to 8")
		G	Gear (8" & above)
		P	Pneumatic Actuator
		E	Electric Actuator
10	ACCESSORIES	XXX	eq. Positioner / Solenoid / Limit switch

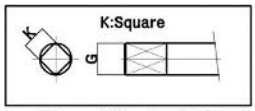
EXPLODED VIEW



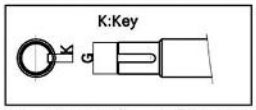
ITEM	PART DESCRIPTION	MATERIAL		
1	BODY	A216-WCB	Stainless steel ASTM A351 Gr. CF8	Stainless steel ASTM A351 Gr. CF8M
2	SEAT RETAINER	A216-WCB	Stainless steel ASTM A351 Gr. CF8	Stainless steel ASTM A351 Gr. CF8M
3	SEAT	PTFE	RTFE	Stainless steel ASTM A351 Gr. CF8M
4	DISC	Stainless steel ASTM A351 Gr. CF8		Stainless steel ASTM A351 Gr. CF8M
5	DISC PIN	Stainless steel SS316		
6	STEM	17 - 4PH	Stainless steel SS304	Stainless steel SS316
7	PACKING GLAND	Stainless steel ASTM A351 Gr. CF8		
8	PACKING FOLLOWER	Stainless steel ASTM A351 Gr. CF8		
9	BOTTOM COVER	Stainless steel ASTM A351 Gr. CF8		
10	RETAINER BOLT	Stainless steel SS316 - A193. GR. B8M		
11	STEM BEARING	RTFE		
12	GLAND BOLT	Stainless steel SS316 - A193. GR. B8M		
13	PACKING	V-Packing PTFE		
14	PACKING RETAINER	Viton		
15	SHAFT RETAINER	Stainless steel SS316 - A193. GR. B8M		
16	BOTTOM PACKING	PTFE		
17	BOTTOM BOLT	Stainless steel SS316 - A193. GR. B8M		

Mounting Base-ISO 5211

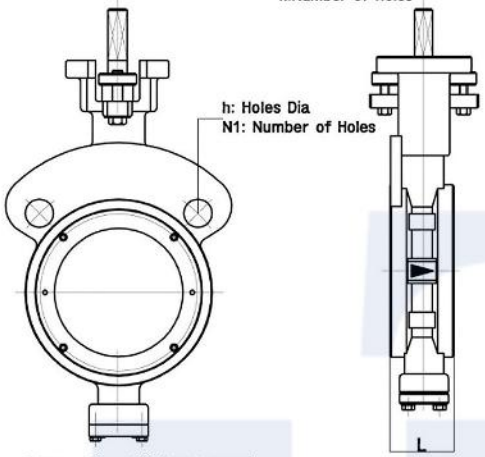




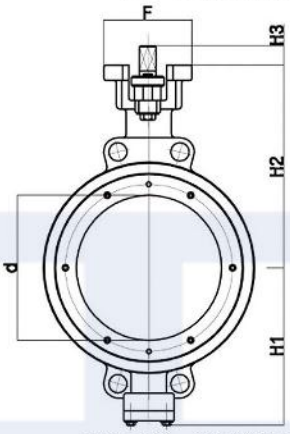
Valve Size : 2" ~ 16"(CLASS 150)
2" ~ 14"(CLASS 300)



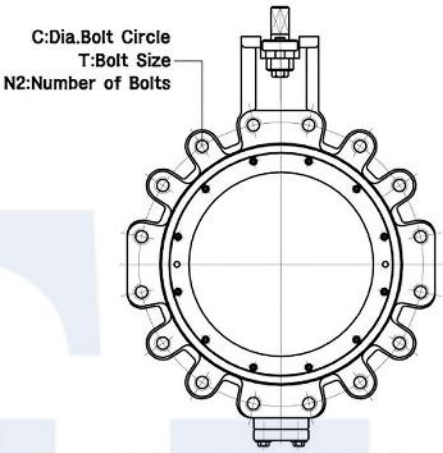
Valve Size :18" ~ 24"(CLASS 150)
16" ~ 24"(CLASS 300)



SIZE : 2" ~ 8" (Bolt Hole)



SIZE : 10" ~ 16" (Bolt Hole)
SIZE : 18" ~ 24" (Bolt Tap)



LUGGED-Body Style (Bolt Tap)

Note :
1. Face to face Dimension : Comply to API 609 Category B, ISO 5752 Short
2. End Connection Flange Dimension : Comply to ANSI B16.5

ANSI Class 150 High Performance Butterfly Valve (mm)

SIZE		d	L	H1		H2	H3	F	G	K	Flange Dimension					Mounting Base			
inch	mm			Water	Lug						C	H	T	N1	N2	C1	n	h1	ISO
2	50	49	43	83	83	123	35	70	13	11	120.7	19.1	5/8" - 11unc	2	4	70	4	10	F07
2.5	65	62	47	94	95	144	35	70	13	11	139.7	19.1	5/8" - 11unc	2	4	70	4	10	F07
3	80	73	48	102	105	154	35	70	16	11	152.4	19.1	5/8" - 11unc	2	4	70	4	10	F07
4	100	95	54	117	121	174	35	70	16	11	190.5	19.1	5/8" - 11unc	2	8	70	4	10	F07
5	125	122	57	135	140	193	35	70	19	14	215.8	22.2	3-4" - 10unc	2	8	70	4	10	F07
6	150	141	57	155	161	213	35	70	22	17	241.3	22.2	3-4" - 10unc	2	8	70	4	10	F07
8	200	194	65	197	182	250	50	115	28	22	298.5	22.2	3-4" - 10unc	2	8	102	4	12	F10
10	250	238	72	228	228	275	50	115	35	22	362.0	25.4	7/8" - 9unc	4	12	125	4	12	F12
12	300	278	81	260	260	306	50	130	35	27	431.8	25.4	7/8" - 9unc	4	12	125	4	17	F12
14	350	318	92	290	290	330	50	130	38	27	476.3	1" - 8unc		4	12	125	4	17	F12
16	400	360	102	330	330	390	55	165	45	36	539.8	1" - 8unc		4	16	165	4	23	F16
18	450	433	114	360	360	425	80	165	50	16*10	577.9	1.1/8" - 8unc		4	16	165	4	23	F16
20	500	470	127	390	390	450	80	165	55	16*10	635.0	1.1/8" - 8unc		4	20	165	4	23	F16
22	550	520	154	425	425	495	80	250	60	18*11	692.2	1.1/4" - 8unc		4	20	165	4	23	F16
24	600	580	154	440	440	510	110	250	65	20*12	749.3	1.1/4" - 8unc		6	20	254	4	23	F25

ANSI Class 300 High Performance Butterfly Valve (mm)

SIZE		d	L	H1		H2	H3	F	G	K	Flange Dimension					Mounting Base			
inch	mm			Water	Lug						C	H	T	N1	N2	C1	n	h1	ISO
2	50	49	43	83	83	123	35	70	13	11	127.0	19.1	5/8" - 11unc	2	8	70	4	10	F07
2.5	65	62	47	94	95	144	35	70	13	11	149.4	22.2	3/4" - 10unc	2	8	70	4	10	F07
3	80	73	48	102	105	154	35	70	16	11	168.1	22.2	3/4" - 10unc	2	8	70	4	10	F07
4	100	95	54	117	121	174	35	70	16	11	200.2	22.2	3/4" - 10unc	2	8	70	4	10	F07
5	125	122	57	135	140	193	35	70	19	14	235.0	22.2	3/4" - 10unc	2	8	70	4	10	F07
6	150	141	59	155	161	213	35	70	22	17	269.7	22.2	3/4" - 10unc	2	12	70	4	10	F07
8	200	194	73	210	210	250	50	115	30	22	330.2	25.4	7/8" - 9unc	2	12	102	4	12	F10
10	250	238	83	240	240	280	50	115	35	27	387.4	28.6	1" - 8unc	4	16	125	4	12	F12
12	300	278	92	270	270	320	50	130	38	27	450.9	31.8	1.1/8" - 8unc	4	16	125	4	17	F12
14	350	318	117	320	320	370	55	165	45	36	514.4	1.1/8" - 8unc		4	20	125	4	17	F12
16	400	359	122	360	360	420	80	165	50	16*10	571.5	1.1/4" - 8unc		4	20	165	4	23	F16
18	450	430	149	400	400	460	80	165	65	20*12	628.7	1.1/4" - 8unc		4	24	165	4	23	F16
20	500	468	159	450	450	500	80	165	65	20*12	685.8	1.1/4" - 8unc		4	24	165	4	23	F16
24	600	578	181	520	520	570	110	250	80	22*14	812.8	1.1/2" - 8unc		6	24	254	4	23	F25