

VTV VALVE

MAX & SB SERIES

SPECIALIZE FOR STEAM, CORROSIVE & HARSH MEDIA



VTV MAX
HIGH PERFORMANCE BUTTERFLY VALVE
WITH PNEUMATIC ACTUATED



VTV SB
HYPER CONDENSATE VALVE
WITH PNEUMATIC ACTUATED



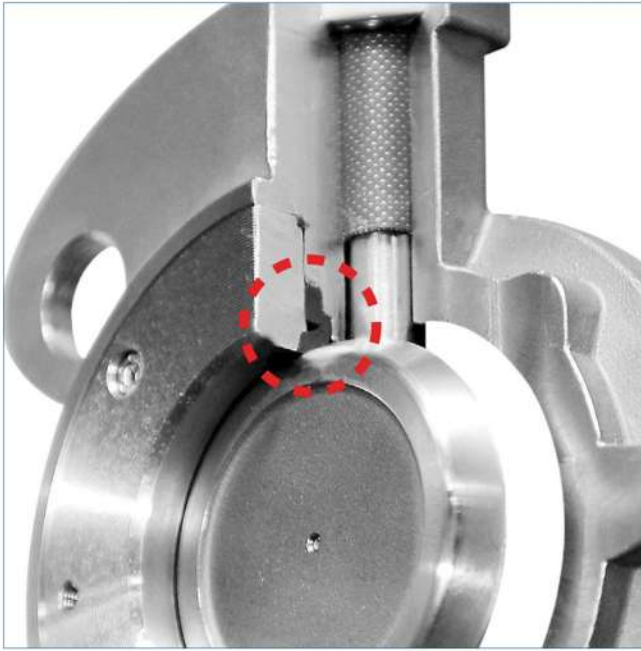
VTV LPD
LOW PRESSURE DROP
CHECK VALVE



VTV MAX
HIGH PERFORMANCE BUTTERFLY VALVE
WITH GEAR OPERATED

SIZE RANGE

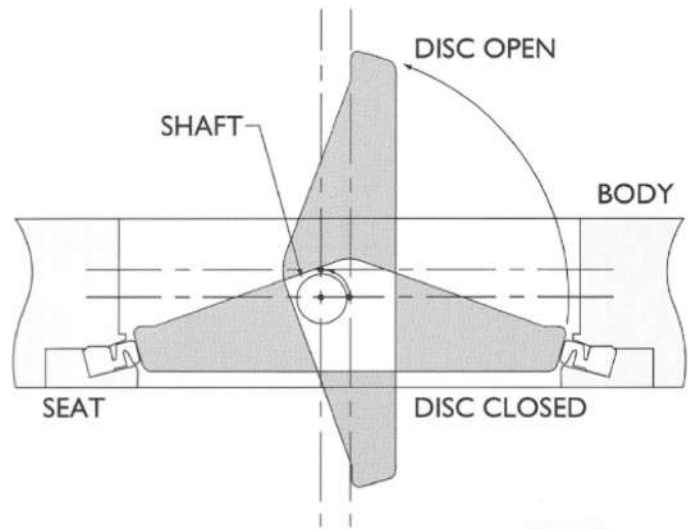
2" thru 48" (20A ~ 1200A), Optional thru 120"
ANSI Class 150/300, JIS10K / 20K



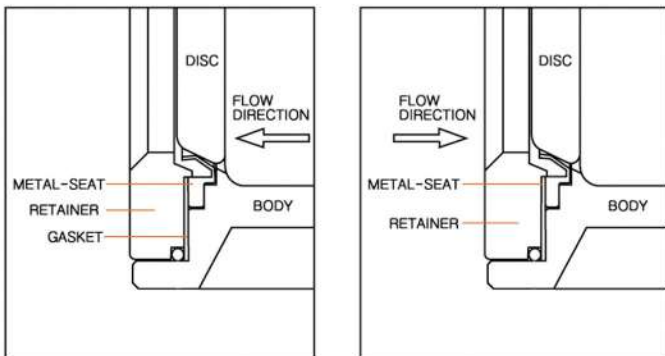
Structural Characteristics of the VTV - MAX High Performance Butterfly Valve Seat Design

Eccentric Double Offset Design Seating

The double offset shaft/disc design ensures bidirectional sealing throughout 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

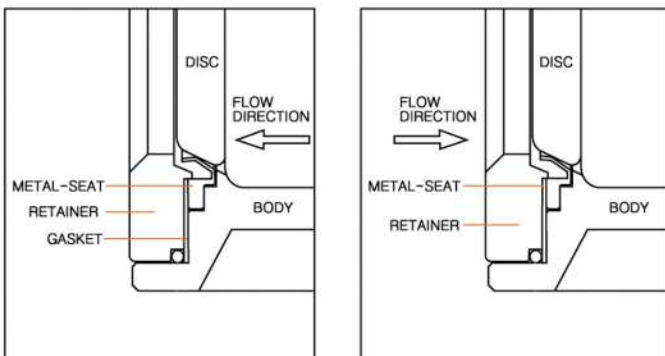


Soft Seat



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



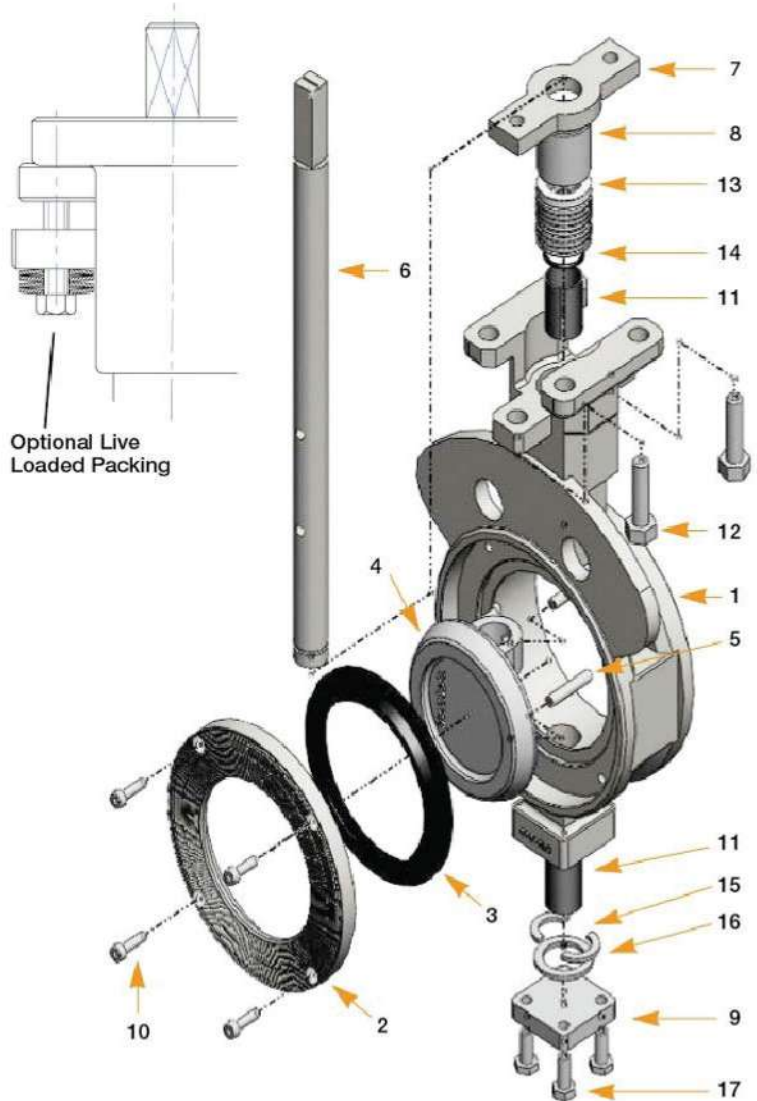
GEAR

HOW TO ORDER

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

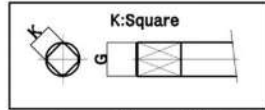
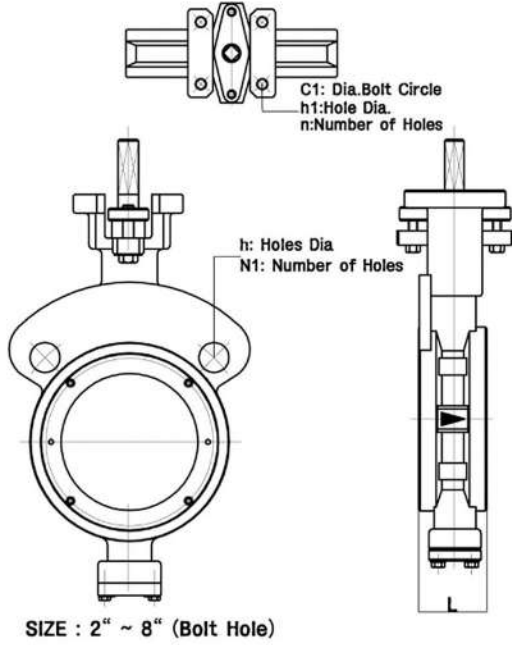
EXPLODED VIEW

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 CONSTRUCTION	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

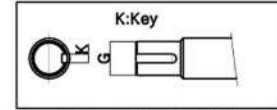
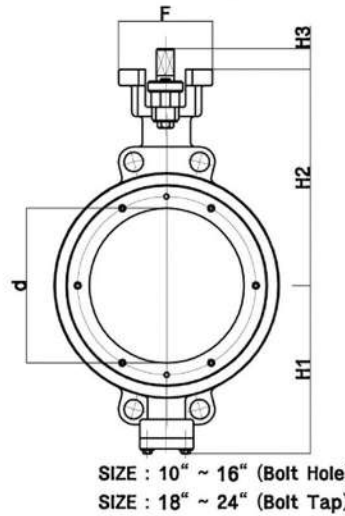


ITEM	PART DESCRIPTION	MATERIAL		
1	BODY	A216-WCB	Stainless steel ASTM A351 Gr. CF8	Stainless steel ASTM A351 Gr. CF8M
2	SEAT RETAINER	A216-WCB	Stainless steel ASTM A351 Gr. CF8	Stainless steel ASTM A351 Gr. CF8M
3	SEAT	PTFE	RTFE	Stainless steel ASTM A351 Gr. CF8M
4	DISC	Stainless steel ASTM A351 Gr. 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		

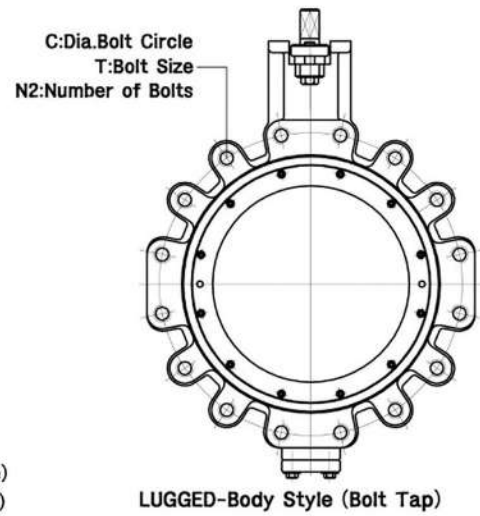
Mounting Base-ISO 5211



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



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



- 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)

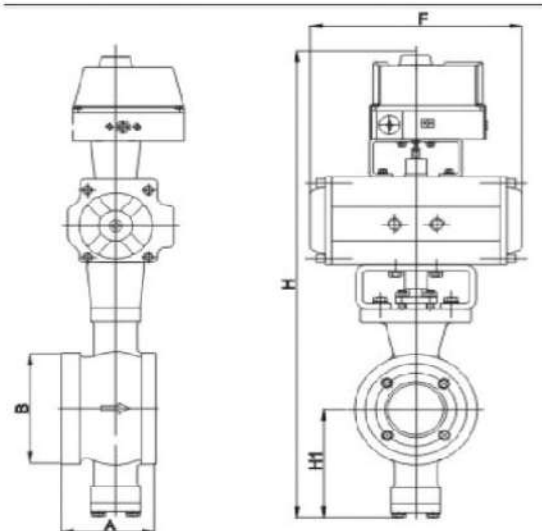
SIZE		d	L	H1		H2	H3	F	G	K	Flange Dimension				Mounting Base				
inch	mm			Water	Lug						C	H	T	N1	N2	C1	n	h1	ISO
2	50	49	43	83	83	123	35	70	13	11	120.7	19.1	5/8" - 11unc	2	4	70	4	10	F07
2.5	65	62	47	94	95	144	35	70	13	11	139.7	19.1	5/8" - 11unc	2	4	70	4	10	F07
3	80	73	48	102	105	154	35	70	16	11	152.4	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

SERVICE

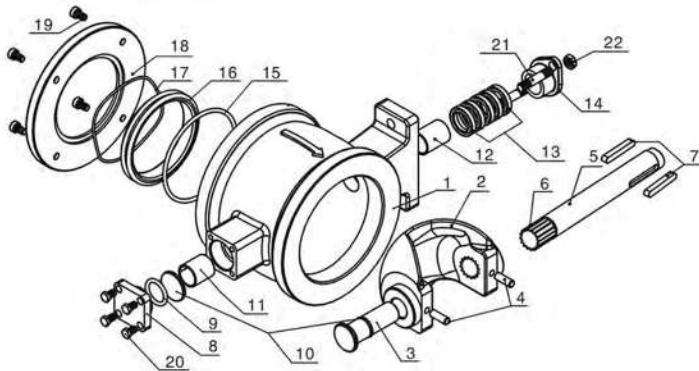
Hyper Condensate Valve is quarter turn control valve mainly recommended for throttle service, but it is also applicable for shut off service. Hyper Condensate Valve is in V-notch design with strong cutting force and self-cleanness, especially suitable for control of medium containing fibre and tiny solids. Therefore, it is widely used in the control systems in industries such as pulp and paper, petrochemistry, petroleum, chemical fibre, power, metallurgy, pharmacy, environmental protection etc.



DN	Code				
	A	B	F	H1	H
25	62	68	178	87	515
32	62	78	178	87	515
40	62	85	178	87	525
50	75	100	214	97	550
65	90	120	246	112	585
80	100	130	246	112	600
100	115	158	295	122	625
125	129	180	340	142	650
150	160	216	398	165	750
200	200	268	478	195	850
250	240	325	562	237	970

PARTS LIST

No.	Name	Material
1	Body	CF8 CF8M
2	Ball	CF8 CF8M with Hard Chromium
3	Lower Shaft	17-4PH
4	Cylindrical Pin	17-4PH
5	Upper Shaft	17-4PH
6	Spline	17-4PH
7	Flat Key	17-4PH
8	Cover plate	CF8 CF8M
9	O-ring	Viton
10	Gasket	PTFE
11	Self-Lubrating Bearing	Composite Material
12	Self-Lubrating Bearing	Composite Material
13	Packing	PTFE
14	Gland	CF8
15	O-ring	Viton
16	Seat	SS316L
17	Wavy Spring	SS316
18	Retainer	SS304 SS316
19	Socket Head Screw	SS304 SS316
20	Hexagon Screw	SS304 SS316
21	Stud	SS304 SS316
22	Hexagon Nut	SS304 SS316



Maximum Allowable Differential Pressure & Rated CV

DN	Wafer connection		Wafer connection		Rated Cv
	Max.shut off dp. (bar)	Max.control dp. (bar)	Max.shut off dp. (bar)	Max.control dp. (bar)	
25	50	35	40	35	27
32	50	35	40	35	47
40	50	35	40	35	70
50	50	35	40	35	110
65	50	35	40	35	170
80	50	35	40	35	280
100	40	25	40	25	410
125	40	25	40	25	750
150	40	25	40	25	980
200	35	25	35	25	1720
250	35	20	35	20	2900
300			30	10	3800
350			30	10	7000
400			30	10	9800
450			30	10	12000
500			30	10	23000

HOW TO ORDER

SB	080	F1	16	C	C	1	V
1	2	3	4	5	6	7	8

1 VALVE TYPE

SB | Hyper Condensate Valve

2 VALVE SIZE

80		DN 80 / 3"
100		DN 100 / 4"
150		DN 150 / 6"
200		DN 200 / 8"
250		DN 250 / 10"
XXX		DN XXX

3 CONNECTION TYPE

F1 | FLANGELESS / WAFER

4 PRESSURE RATING

10		JIS 10K
16		PN 16
150		ANSI 150

5 BODY MATERIAL

C		CFB + STELLITE
F		CF8M + STELLITE

6 BALL MATERIAL

C		CFB
F		CF8M

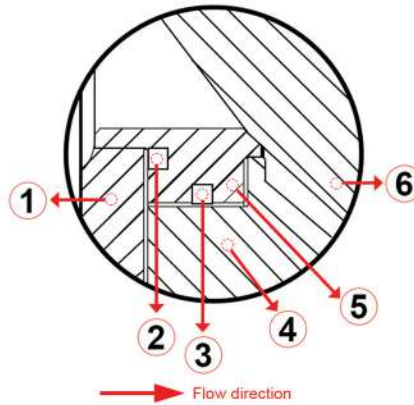
7 SEAT

1		METAL - SS316L
2		RTFE

8 O RING

V | VITON

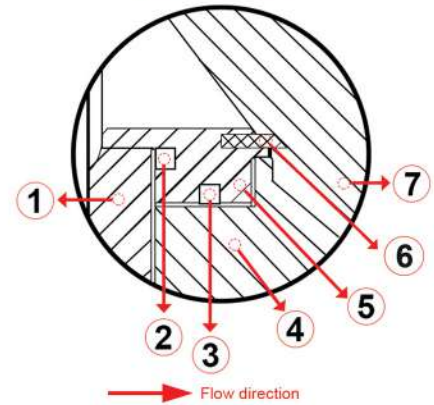
METAL - SEATED



METAL SEATED

No.	Name	Temp. Range
1	Retainer	
2	Spring	
3	O - Ring	
4	Valve Body	-20~160 -20~230
5	Metal Seat	
6	Ball	

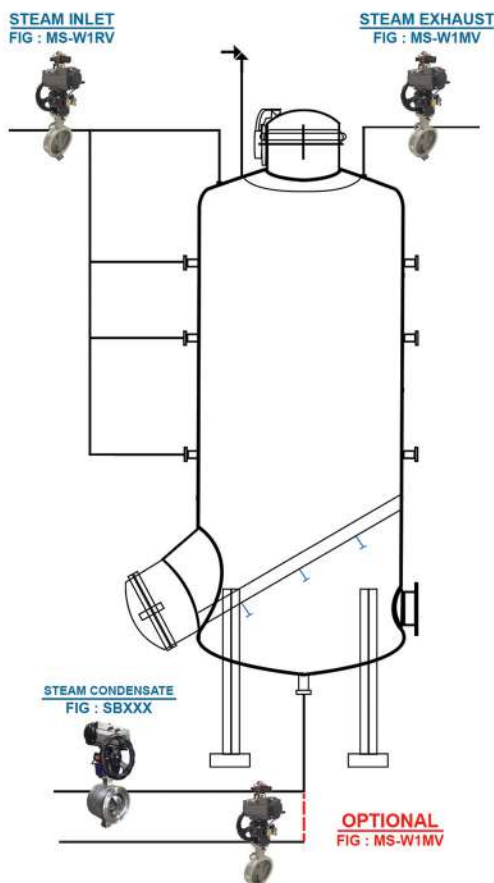
PTFE - SEATED



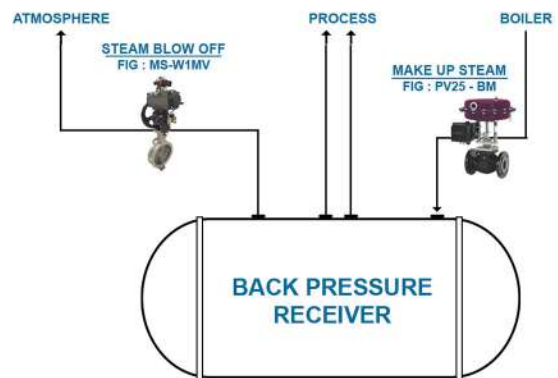
PTFE - SEATED

No.	Name	Temp. Range
1	Retainer	
2	Spring	
3	O - Ring	
4	Valve Body	-20~160
5	Seat Ring	
6	PTFE	
7	BALL	

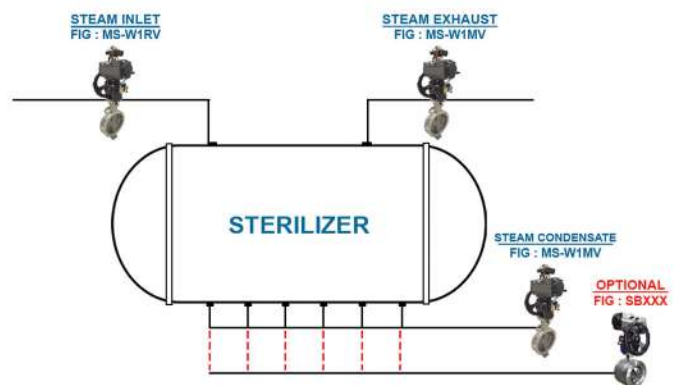
VTV MAX AT VERTICAL STERILIZER SYSTEM



VTV MAX & ADCA CONTROL VALVE BPR SYSTEM



VTV MAX AT HORIZONTAL STERILIZER SYSTEM

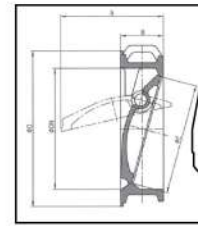


• BJMS - VTV VALVE LOW PRESSURE DROP CHECK VALVE

Low pressure drop check valve is unidirectional. Therefore the assembly should be always according to the Direction of flow of the fluid so the counter pressure is on the disk. The assembly of the valve can be made either horizontally or vertically, it depends on the works.

It is necessary to supervise and keep the correct distance between flanges, as well as a good alignment and parallelism between the valve and the pipe.

For assembly of this valve a watertightness joint between flanges should be placed.

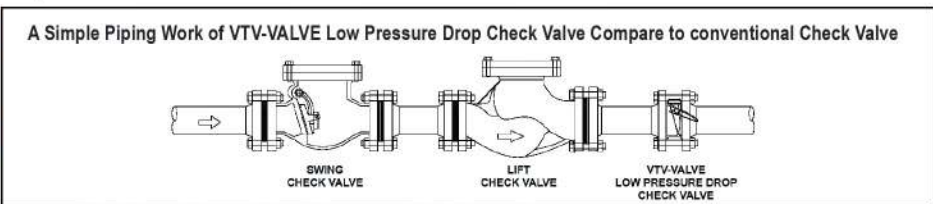
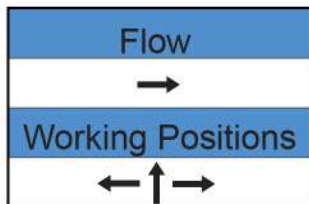


ADVANTAGE

- High Capacity
- Short Face to Face
- Suitable for all the standard flanges
- For high performances and pressures
- Doesn't need any maintenance
- Stainless Steel SS316 Material, for corrosion resistant
- Metal seated
- Excellent tightness
- Fast acting & Quick closing reaction
- Installation can be Horizontal and Vertical
- Low pressure drop and opening pressure

MATERIAL

- AISI 316 (CF8M) : - Special alloys under request
 - Spindle in AISI 316



DIMENSION

DN	INCHES	A	B	øC	øD				
					PN10	PN16	PN25	PN40	ANSI150
50	2"	57	43	44	107	107	107	107	102,5
65	2-1/2"	67	46	58	127	127	127	127	121,5
80	3"	87	64	72	142	142	142	142	134,5
100	4"	100	64	90	162	162	162	162	172,5
125	5"	117	70	112	194	194	194	194	194
150	6"	135	76	135	219	219	224	224	219
200	8"	178	89	180	273	273	284	291	273
250	10"	220	114	225	329	329	340	352	337,5
300	12"	262	114	270	378	384	401	418	407,5
350	14"	303	127	315	438	444	458	475	448,5
400	16"	355	140	365	490	496	515	574	512
450	18"	390	152	420	539	556	565		547
500	20"	440	152	460	594	618	625	629	604,5
600	24"	530	178	555	696	735	732		715,5
700	28"	610	229	650	811	805			
800	32"	705	241	740	918	912			
900	36"	795	275	835	1018	1012			



RELIABLE VALVE FOR THE FUTURE

COMPANY PROFILE



Established in 2005, PT. Budijaya Makmursentosa strives to be a leading engineering supplier to offer the most complete selection of instruments and mechanicals for Palm Oil Mills, Refineries, Oil & Gas, Pulp & Papers, Mining, Pharmaceutical, Petrochemical, Bio-Diesel and General Industries.

The company is committed to provide solution and exceed the expectation of our customers through high-quality products, competitive-price, warranty, and service after sales. Since its establishment, PT. Budijaya Makmursentosa has proven outstanding reputation and gained trust from its principals and customers in establishing excellent business relationship. Supported with professional sales team and qualified project engineers, PT. Budijaya Makmursentosa is dedicated to accomplish all requirements to achieve highest level of customer satisfaction.



OPERATIONAL & FUNCTIONAL CHECKED



LEAKAGE AND PRESSURE TEST



STOCK AREA



DELIVERY ZONE



ASSEMBLING ZONE

MEDAN OFFICE / WAREHOUSE

Jl. Sangir Talaud I KIM IV, Pematang Johar, Labuhan Deli
Kabupaten Deli Serdang, Sumatera Utara 20373
Indonesia, Email : sales@bjmsgroup.com
Telp: 061 - 4273 1118, Fax : 061 - 4273 1119

JAKARTA OFFICE / WAREHOUSE

Jl. Daan Mogot, KM.18,
Green Sedayu Bizpark Unit DM 5 No.2,
Jakarta Barat 11840 Indonesia
Telp. : (021) 2252 2441, Fax : (021) 2252 2442



@bjmsonline



08116158502



sales@bjmsgroup.com

www.bjmsgroup.com | www.bjmsonline.com