

TVI THERMOPLASTIC VALVES INC.

WAFER STYLE UNIVERSAL BUTTERFLY VALVE
FOR ANSI FLANGES

SIZE: 2" - 8"

DWN BY
CKP

DATE
1-00

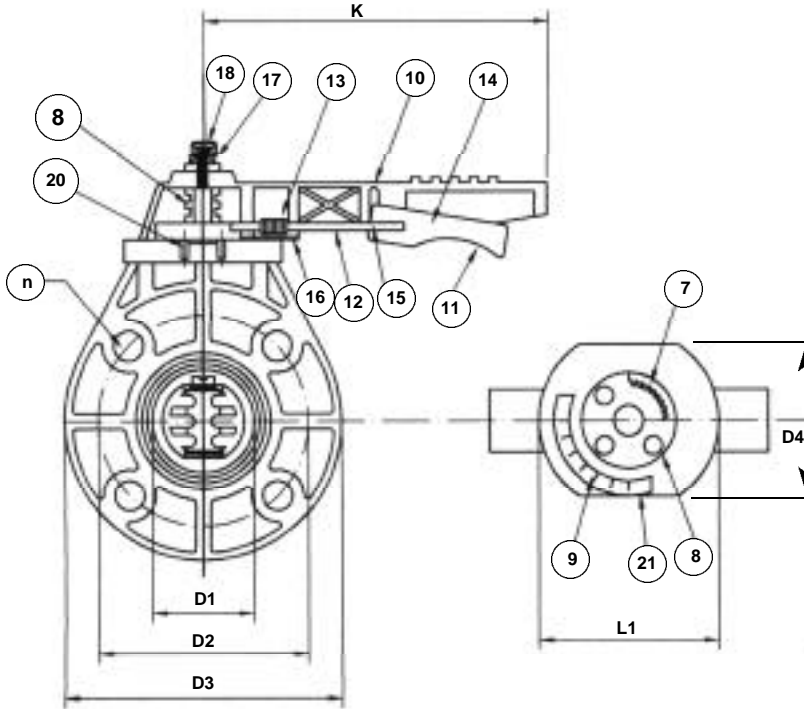
DWG NO.
220-BFV

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Ph: 610-967-6388 Fax: 610-967-6448

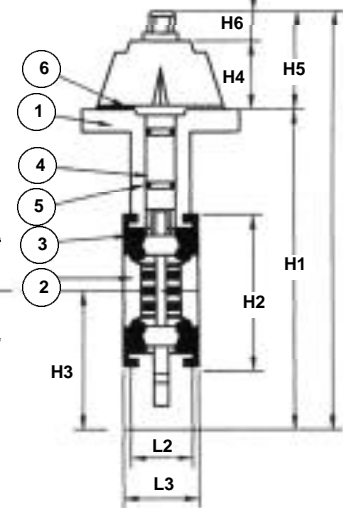
Email: tv2@fast.net
www.plasticvalves.com



CERTIFIED
CORRECT FOR GENERAL DIMENSIONS Date _____ Per: _____



*Universal Style 6 Position Latch Lever



L3 - Face to Face Dimension
(including the rubber liner)

Materials of Construction

Item	Parts	Pcs	Materials
1	Body	1	PVC,PP,PVDF,CPVC
2	Disc	1	PVC,PP,PVDF,CPVC
3	Seat	1	EPDM, VITON®, BUNA N
4	Stem	1	SUS 410, SUS 316
5	Stem O'ring	2	EPDM, VITON®, BUNA N
6	Washer	1	SUS 304
7	Positioner	1	SUS 304
8	Screw	3	SUS 304
9	Indicator	1	SUS 304
10	Handle	1	ABS
11	Lever	1	ABS

Item	Parts	Pcs	Materials
12	Lever	1	SUS 410
13	Spring	1	SUS 410
14	Setpin (Long)	1	SUS 410
15	Setpin (Short)	1	SUS 410
16	Handle Cap	1	ABS
17	Stem Bolt	1	PVC, PP, PVDF, CPVC
18	Cap	1	PVC Coated Brass
19	Handle Insert	1	Casting Parts
20	Bolt	1	Brass, SUS 304
21	Bolt	1	SUS 304

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Ansi Dimensions

Nom. size DN-Inch	D1	D2	D3	D4	n	L1	L2	L3	H1	H2	H3	H4	H5	H6	I	K
50 - 2"	2.16	4.84	6.46	3.66	4	4.13	1.50	1.61	7.44	3.31	3.23	1.69	2.48	0.68	9.84	7.95
80 - 3"	3.17	5.97	7.72	3.74	4	5.00	1.65	1.77	8.70	4.59	3.86	1.69	2.48	0.68	11.14	7.97
100 - 4"	3.94	7.16	8.85	3.89	8	5.27	1.89	2.0	9.92	5.59	4.43	1.85	2.68	0.84	12.55	9.92
150 - 6"	5.98	9.44	11.26	3.96	8	6.67	2.20	2.13	12.63	7.74	5.63	2.21	3.39	1.0	16.02	11.69
200 - 8"	7.87	11.70	13.54	4.31	8	7.52	2.40	2.52	15.12	10.12	6.77	2.21	3.39	1.0	18.50	11.69

Testing Procedure: Every valve is tested for bubble tight shutoff prior to leaving the factory.

Pressure testing performed on PVC/EPDM valves at 73° water temperature, non-shock.

TVI BUTTERFLY VALVE (2" - 8")

DESIGN SPECIFICATIONS

Thermoplastic Butterfly Valves 2"-8" are wafer style to fit between ANSI B16.5 Class 150 flanges. Disc is contoured for lowest possible pressure drop (highest Cv). Shaft is 410 S.S. and of one piece, through shaft design, with square drive through entire length of blade. 2" - 6" valves shall be complete with a spring loaded 6 position latch lever. 8" valves shall be either spring lever or gear actuated as required or specified. Seat liners shall be full faced with integral, ribbed flanges. No auxiliary gaskets shall be required for installation. Seat liners shall effectively isolate the body and shaft from the flow media. Seat liners shall also thermally insulate the body from the internal operating temperature. Valve liner and seals are replaceable. Materials of construction shall be: (select as required for service)

Note: The universal style 2-4" butterfly valve fits between ANSI B16.5, DIN, and JIS class 150 flanges, the 6" between ANSI and JIS flanges and the 8" between ANSI flanges.

BODY

PVC, ASTM D-1784, (Standard) PP and PVDF available
PP, ASTM D-4101 PVDF available
PVDF, ASTM D-3222

DISC

PP, ASTM D-4101 (Standard) PVDF available
PVDF, ASTM D-3222

SHAFT

ASTM A-240, TYPE 410 S.S. (Standard) 304 S.S., 316 S.S. available

SEALS / SEAT

EPDM, Ethylene Propylene Diene Monomer
Fluorocarbon, Viton® (Dupont Dow Elastomers)
Nitrile (Butadiene) Rubber (BUNA N)

HARDWARE

2" - 8" 304 S.S.

LEVER

ABS, ASTM D-1788

GEAR BOX

Cast iron housing ASTM A -53, Epoxy coated

OTHER MATERIALS AVAILABLE UPON REQUEST.
Not recommended for compressed air or gas service