

TVI THERMOPLASTIC VALVES INC.

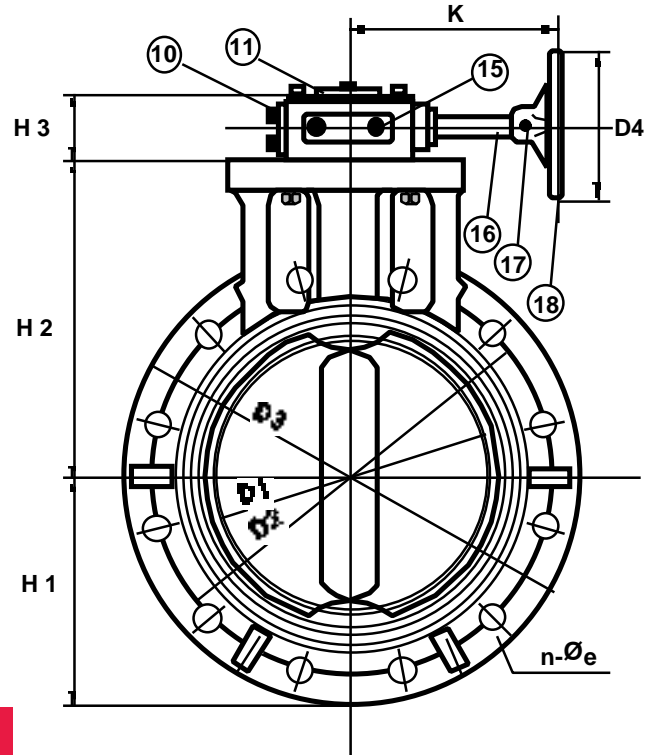
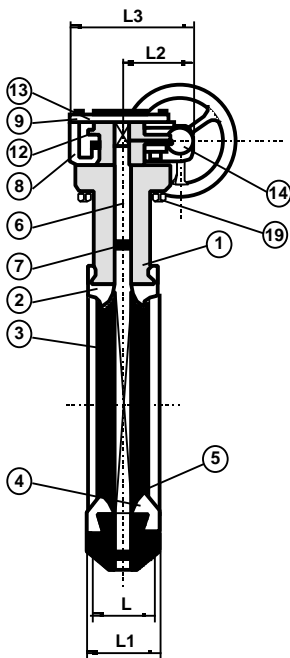
ARRANGEMENT DRAWING BUTTERFLY VALVE-GEAR TYPE

53 S. 7th Street, Emmaus, PA 18049
 Ph: 610-967-6388 Fax: 610-967-6448
 Email: tvi2@fast.net
www.plasticvalves.com

SIZE: 8" - 24"

DWN BY CKP	DATE 1-96	DWG NO. 102-BFV
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CERTIFIED
 CORRECT FOR GENERAL DIMENSIONS Date _____ Per: _____



Materials of Construction

Item	Parts	Pcs	Materials	Item	Parts	Pcs	Materials
1	Body	1	PVC,PP,PVDF, CPVC*	11	Indicator Plate	1	PVC
2	Seat	1	EPDM,VITON® BUNA N	12	Gear	1	FORGEDSTEEL
3	Disc	1	PVC,PP,PVDF, CPVC*	13	Oil Seal	1	EPDM
4	Disc O-Ring (A)	2	EPDM,VITON®, BUNA N	14	Bearing	1	HEATTREATEDSTEEL
5	Disc O-Ring (B)	2	EPDM,VITON®, BUNA N	15	Adjustable Bolt	2	SS41
6	Stem	1	SUS410, SUS304, SUS316	16	Gearing	1	SS41
7	Stem O-Ring	2	EPDM,VITON®, BUNA N	17	Set Pin	1	STEEL
8	Gear Box	1	C.I.	18	Hand Wheel	1	C.I.
9	Gear Box Cap	1	C.I.	19	Tightening Bolt	4	SUS304
10	Side Cap	1	C.I.				

VITON® is a trademark of DuPont Performance Elastomers

Ansi Dimensions

Size Inch	D1	D2	n	Ø e	D3	L	L1	H1	H2	H3	K	L2	L3	D4	Test Press (PSI)		Working Press (PSI)
															Body	Seat	
8"	7.99	11.75	8	0.88	13.27	2.99	3.43	6.61	8.03	2.72	7.01	2.01	5.35	5.63	222	177	150
10"	10.00	14.25	12	0.98	15.75	3.78	4.37	7.87	9.25	2.72	7.01	2.01	5.35	5.63	222	177	150
12"	12.28	17.00	12	0.98	19.02	4.57	5.20	9.41	11.38	4.05	8.35	2.83	7.44	9.61	155	125	105
14"	14.09	18.75	12	1.14	20.47	4.57	5.20	10.20	12.01	4.05	8.35	2.83	7.44	9.61	155	125	105
16"	15.69	21.25	16	1.14	23.62	6.02	6.65	11.89	13.90	4.05	8.35	2.83	7.44	9.61	133	103	88
18"	17.75	22.75	16	1.26	25.20	6.54	7.13	12.48	14.37	4.76	10.59	4.57	11.22	18.27	111	88	74
20"	19.70	25.00	20	1.26	27.99	6.73	7.48	14.37	15.94	4.76	12.99	4.57	11.22	18.27	74	59	52
24"	23.66	29.50	20	1.38	32.00	7.52	8.23	16.73	18.11	4.76	12.99	4.57	11.22	18.27	74	59	52

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.

*CPVC available to 14"

TVI BUTTERFLY VALVE (2" - 24")

DESIGN SPECIFICATIONS

Thermoplastic Butterfly Valves 2"-24" are wafer style to fit between ANSI B16.5 Class 150 flanges. Disc is smooth and 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. 24" valves shall have epoxy coated gear actuators with handwheel. 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)

BODY

PVC, CPVC (available to 12"), ASTM D-1784,
PP, ASTM D-4101
PVDF, ASTM D-3222

DISC

PP, ASTM D-4101 (Standard 2" - 24" in PVC & PP valves)
PVC, CPVC, ASTM D-1784 (CPVC disc standard in CPVC valves)
PVDF, ASTM D-3222

SHAFT

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

SEALS / SEAT

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

HARDWARE

2" THRU 24" 304 S.S. 8" size positioner plate 410 S.S. Chrome Plated

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