



THERMOPLASTIC VALVES INC.

ARRANGEMENT DRAWING

WAFER STYLE BUTTERFLY VALVE FOR ANSI FLANGES

SIZE: 2" - 8"

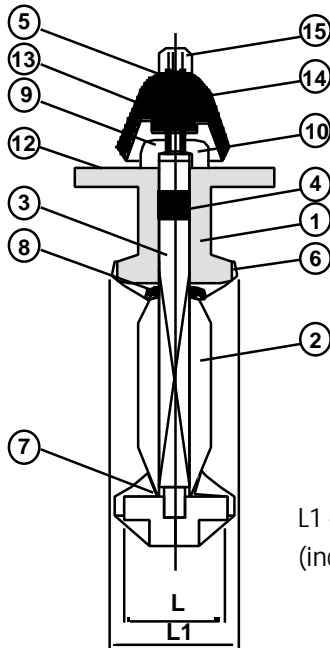
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**DWN BY
CKP**

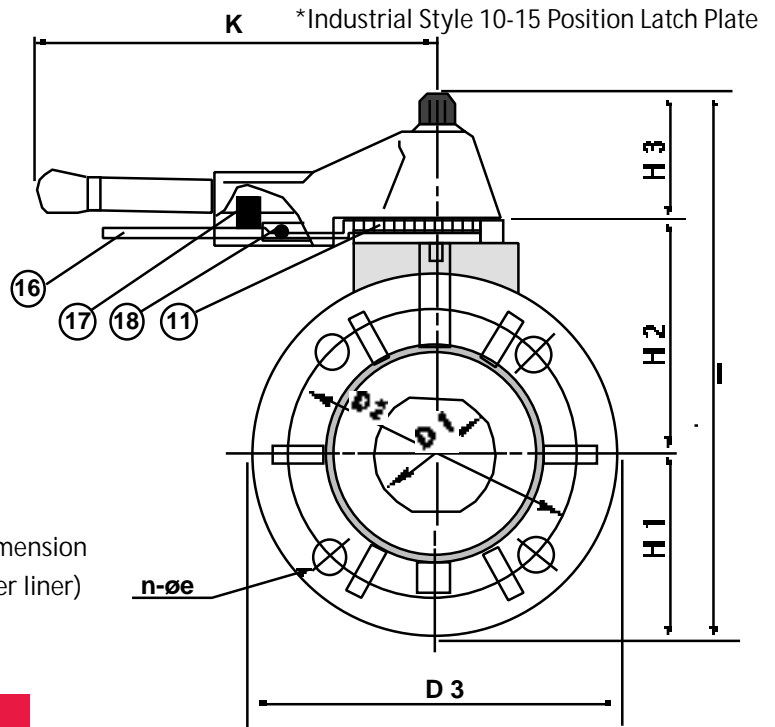
**DATE
1-96**

**DWG NO.
110-BFV**

CERTIFIED
CORRECT FOR GENERAL DIMENSIONS Date _____ Per: _____



L1 - Face to Face Dimension
(including the rubber liner)



Ansi Dimensions

Size Inch	D1	D2	D3	e	n	L	L1	H1	H2	H3	I	K	Test Press (PSI)		Working Press (PSI)
													Body	Seat	
2"	2.24	4.75	6.54	0.75	4	1.38	1.65	3.27	4.01	2.68	9.96	8.66	222	177	150
2 1/2"	2.75	5.50	7.24	0.75	4	1.46	1.81	3.62	4.33	2.68	10.63	8.66	222	177	150
3"	3.15	6.00	7.87	0.75	4	1.46	1.81	3.94	4.64	2.68	11.26	8.66	222	177	150
4"	4.01	7.50	9.06	0.75	8	1.85	2.20	4.53	5.28	2.68	12.48	8.66	222	177	150
5"	5.12	8.50	10.00	0.87	8	2.24	2.60	5.00	6.30	3.78	15.08	12.20	222	177	150
6"	6.02	9.50	11.42	0.87	8	2.44	2.80	5.71	6.97	3.78	16.46	12.20	222	177	150
8"	7.99	11.75	13.27	0.87	8	2.99	3.43	6.61	8.03	3.66	18.31	16.30	222	177	150

Materials of Construction

VITON® is a trademark of DuPont Performance Elastomer

Item	Parts	Pcs	Materials	Item	Parts	Pcs	Materials
1	Body	1	PVC,PP,PVDF, CPVC*	10	Retainer Cap	1	PVC,PP, CPVC, PVDF
2	Disc	1	PVC,PP,PVDF, CPVC*	11	Positioner	1	SUS304, 8" Use SS41
3	Stem	1	SUS410,SUS304,SUS316	12	Screw	3	SUS304
4	Stem O'ring	2	EPDM,VITON®, BUNA N	13	Handle	1	ABS
5	Washer	1	SUS304	14	Inserted Metal of Handle	1	CS
6	Seat	1	EPDM,VITON®, BUNA N	15	Nut	1	PVC COATED BRASS, SUS304
7	Disc O'Ring	2	EPDM,VITON®, BUNA N	16	Hand Lever	1	SUS 304,SUS41
8	Disc O'Ring	2	EPDM,VITON®, BUNA N	17	Spring	1	SUS304
9	Stem Retainer	1	SUS304	18	Set Pin	1	BRASS

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" - 8")

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. 2" - 6" valves shall be complete with a spring loaded 15 position latch lever. 10"-24" valves shall have epoxy coated gear actuators with handwheel. 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)

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