

TVI THERMOPLASTIC VALVES INC.

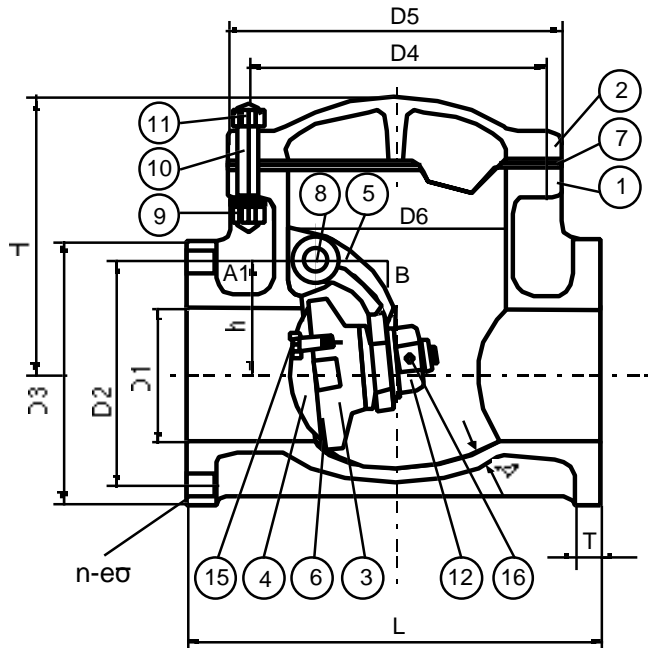
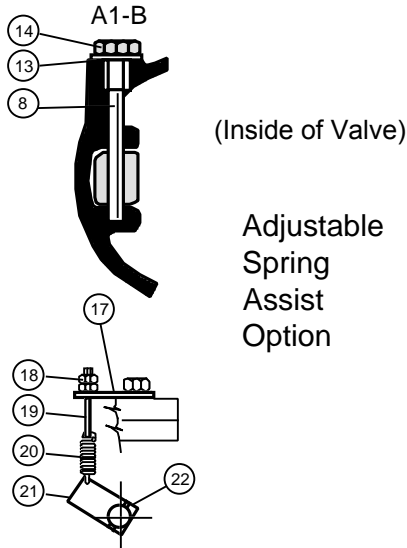
ARRANGEMENT DRAWING HORIZONTAL SWING CHECK VALVE

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

SIZE: 3/4" - 8"

DWN BY CKP	DATE 1-96	DWG NO. 105-HSCV
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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,PPG,PVDF	12	Disc Holder	1	PVC,PP,PPG,PVDF	
2	Bonnet	1	PVC,PP,PPG,PVDF	13	O-ring	1	EPDM,VITON®	
3	Disc	1	PVC,PP,PPG,PVDF	14	Shaft Holder	1	PVC,PP,PPG,PVDF	
4	Sheet Gasket Holder	1	PVC,PP,PPG,PVDF	15	Set Bolts	1" - 2" 1 5" - 6" 4	2 1/2" - 4" 3 8" 8	PVC, PP PPG, PVDF
5	Swing Arm	1	PVC,PP,PPG,PVDF	16	Set Pin	1	PVC, PP, PPG, 316 SS	
6	Disc Gasket	1	EPDM,VITON®TFE	17	Bracket	1	316 Stainless Steel	
7	Bonnet Gasket	1	EPDM,VITON®	18	Nut	1	316 Stainless Steel	
8	Shaft	1	PVC,PP,PPG,PVDF	19	Adjustment Stem	1	316 Stainless Steel	
9	Washer	1" - 3" 6 sets	SUS304	20	Spring	1	316 Stainless Steel	
10	Bolts	4" - 8" 8 sets	SUS304	21	Lever (Rod Eye)	1	Plated Carbon Steel	
11	Nuts		SUS304	22	Pin	1	316 Stainless Steel	

VITON® and TEFLON® are trademarks of DuPont Performance Elastomers

Ansi Dimensions

Size Inch	D1	D2	D3	e	n No. of holes	D4	D5	D6	L	T	A	h	H	Working Pressure PSI Elastomer TFE
3/4"	1.00	2.75	4.25	0.63	4	4.34	5.13	2.97	6.31	0.50	0.25	1.56	4.72	150 100
1	1.00	3.13	4.25	0.63	4	4.34	5.13	2.97	6.31	0.59	0.25	1.56	4.72	150 100
1 1/2"	1.63	3.88	5.00	0.63	4	4.94	5.72	3.34	7.09	0.63	0.31	1.78	5.44	150 100
2"	2.06	4.75	6.00	0.75	4	6.09	7.09	4.13	7.88	0.83	0.31	2.16	6.46	150 100
2 1/2"	3.16	5.50	7.00	0.75	4	7.13	8.06	5.13	10.25	0.83	0.34	2.75	6.72	150 100
3"	3.16	6.00	7.50	0.75	4	7.13	8.06	5.13	10.25	0.83	0.34	2.75	6.72	150 100
4"	3.94	7.50	9.00	0.75	8	9.25	10.44	6.69	11.93	0.87	0.41	3.53	8.38	100 70
5"	4.94	8.50	10.00	0.88	8	11.22	13.00	8.28	13.78	0.87	0.56	4.34	9.38	100 70
6"	5.53	9.50	11.00	0.88	8	13.00	14.56	9.84	15.75	0.91	0.63	5.31	10.56	100 70
8"	7.88	11.75	13.50	0.88	8	15.31	16.71	11.81	19.69	1.02	0.72	6.69	12.06	70 70

Testing performed on PVC material at 73°F water temperature, non-shock.

TVI SWING CHECK VALVES (3/4" - 8" FLANGED)

DESIGN SPECIFICATIONS

Thermoplastic Swing Check Valves 3/4" - 8" flanged design shall employ molded thermoplastic body, disc assembly, bonnet, and shaft. Metal internals are not acceptable. Valves have a full faced disc seal. Valves require low back pressure for drop-tight seating. Valves are of low pressure drop design. Body has a full open disc stop to prevent over travel and insure proper closing action. Bonnet is fully gasketed and fastened using stainless steel hardware. Valves are top entry design for ease of maintenance. Valves are suitable for vertical and horizontal installation. Flanged ends are designed for installation between ANSI B16.5 Class 150 flanges. Materials of construction shall be as follows: (select as required for service)

BODY/BONNET

PVC, ASTM D-1784
PP, ASTM D-4101
PVDF, ASTM D-3222

DISC ASSEMBLY / SHAFT

PVC, ASTM D-1784
PP, ASTM D-4101
PVDF, ASTM D-3222

SEAT / SEAL

EPDM, Ethylene propylene diene monomer
Fluorocarbon, Viton® (Dupont Dow Elastomers)
Fluorel (3M Corp.)
PTFE (Polytetrafluoroethylene), Teflon® (Dupont Dow Elastomers)

EXTERNAL FASTNERS

304 Stainless Steel

NOTE: Can be easily modified for spring assist operation. See details on Pg. 58.