



THERMOPLASTIC VALVES INC.

BALL CHECK VALVE AND BALL CHECK FOOT VALVE ASSEMBLY

SIZE: 1/2" - 4"

DWN BY CKP	DATE 1-96	DWG NO. 103-BC
-----------------------------	----------------------------	---------------------------------

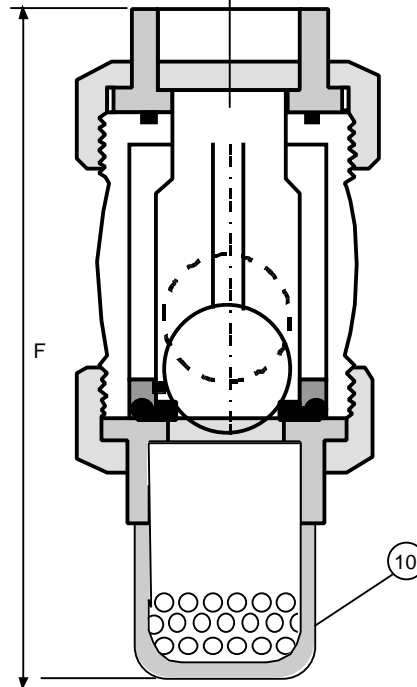
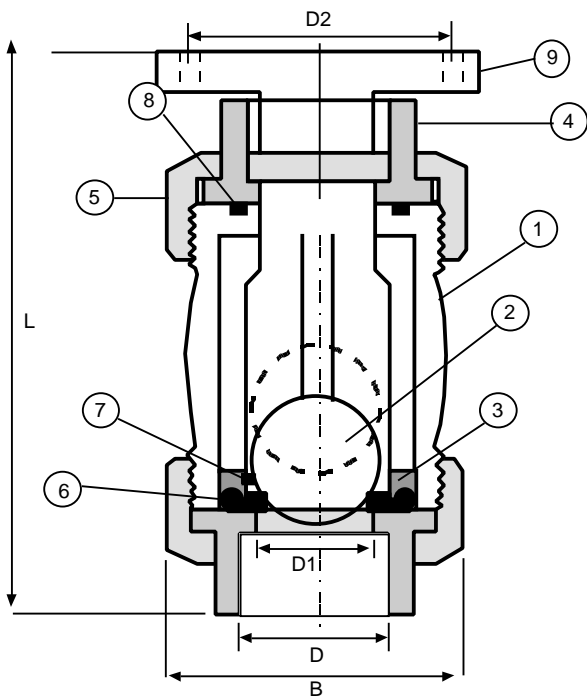
53 S. 7th Street, Emmaus, PA 18049

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

Email: tv2@fast.net

www.plasticvalves.com

CERTIFIED
CORRECT FOR GENERAL DIMENSIONS Date _____ Per: _____



- Less Than 1 PSI Pressure to Operate
- Operates in Vertical or Horizontal Installations
- One Piece Seat & Seal
- Excellent Flow Characteristics

Materials of Construction

Item	Parts	Pcs	Materials	Item	Parts	Pcs	Materials
1	Body	1	PVC,PP,PVDF,CPVC	6	Seat	1	EPDM,VITON®
2	Ball	1	PVC,PP,PVDF,CPVC	7	Seat Carrier O-Ring	1	EPDM,VITON®
3	Seat Carrier	1	PVC,PP,PVDF,CPVC	8	Solid End O-Ring	1	EPDM,VITON®
4	Connector	2	PVC,PP,PVDF,CPVC	9	Flanged Cut	1	PVC, PP, PVDF,CPVC
5	Union Nut	2	PVC,PP,PVDF,CPVC	10	Foot Valve Assembly	1	PVC

VITON® is a trademark of DuPont Performance Elastomers.

Ansi Dimensions

Size Inch	D1	d Socket	L Screw	Socket	Screw	FLG'D	B	D2	F	Working Pressure (PSI)
1/2"	0.598	0.840	NPT 1/2"	3.976	3.976	5.75	2.106	2.375	5.50	150
3/4"	0.771	1.050	NPT 3/4"	4.527	4.527	6.25	2.492	2.750	6.50	150
1"	0.984	1.315	NPT 1"	5.354	5.354	7.25	2.875	3.125	7.50	150
1 1/4"	1.259	1.660	NPT 1 1/4"	6.732	6.732	9.00	3.842	3.500	9.75	150
1 1/2"	1.574	1.900	NPT 1 1/2"	6.732	6.732	9.00	3.842	3.875	9.75	150
2"	1.968	2.375	NPT 2"	7.677	7.677	10.18	4.744	4.750	10.75	150
2 1/2"	2.559	2.875	NPT 2 1/2"	8.740	8.740	11.75	6.00	5.500	12.25	150
3"	3.150	3.500	NPT 3"	10.787	10.787	13.125	7.25	6.000	14.75	150
4"	3.937	4.50	NPT 4"	14.449	14.449	17.125	8.00	7.50	19.75	150

TVI BALL CHECK VALVES (1/2" - 4")

DESIGN SPECIFICATIONS

Thermoplastic Ball Check Valves (1/2" - 4") are of all thermoplastic construction. Body has full length ribs for maximum flow, minimum pressure drop, and to eliminate ball sticking and chatter. Ball is of solid thermoplastic material. Seat is full circle and resilient. A molded gasket seal and seat enlarges seating surface and facilitates maintenance. Valves require less than one (1) PSI to open and 3 -5 PSI to close drop tight. Valves are capable of installation in either vertical or horizontal pipe run. Valves are readily adaptable for foot valve service with the addition of a screen assembly. Materials of construction shall be as follows: (select as required for service)

BODY/UNION NUT / END CONNECTORS

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

BALL

PVC,CPVC, 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.)

End connectors shall conform to the following standards:

SOCKET

ASTM - D-2467 (PVC,SCH-80)
ASTM, F-437 (CPVC, SCH-80)

THREADED

ASTM - D-2464 (PVC, SCH-80)
ASTM - F-437 (CPVC, SCH-80)

FLANGED

ANSI - B16.5 Class 150

Not recommended for compressed air or gas service.