THERMOPLASTIC VALVES INC.

SAFTEY BLOCK TRUE UNION BALL VALVE WITH MOUNTING PADS

SIZE: 1/2"- 3"

 DWN BY
 DATE
 DWG NO.

 CKP
 1-96
 103-SB

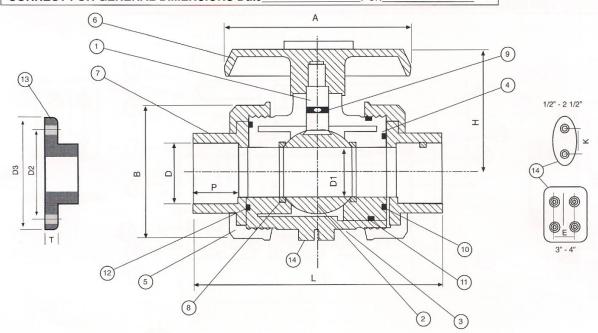
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www.plasticvalves.com

CERTIFIED

CORRECT FOR GENERAL DIMENSIONS Date

Per:



Materials of Construction

Iter	n Parts	Pcs	Materials	Item	Parts	Pcs	Materials
1	Stern	1	PVC, PP, CPVC, PVDF	8	Seat	2	TEFLON®
2	Ball	1	PVC, PP, CPVC, PVDF	9	Stem O-rings	1	EPDM, VITON®
3	Body	1	PVC, PP, CPVC, PVDF	10	Seat Carrier O-ring	2	EPDM, VITON®
4	Seat Carrier	1	PVC, PP, CPVC, PVDF	11	Body End O-ring	1	EPDM, VITON®
5.	Union Nut	2	PVC, PP, CPVC, PVDF	12	Solid End O-ring	2	EPDM, VITON®
6.	Handle	1	UPVC, PP, PVDF, CPVC	13	Flange	2	PVC, PP, CPVC, PVDF
7	End Connector	2	PVC, PP, CPVC, PVDF	14	Mounting Pad		w/Brass Inserts

VITON® and TEFLON® are trademarks of Dupont Dow Elastomer.

Ansi Dimensions																Working
Size Inch	D ₁	D₂	D ₃	Socket	Figure 1989	е	n	Р	Socket	L Thread	Flange	Α	т	н	В	Pressure (PSI)
1/2"	.591	2.375	3.500	0.840	NPT1/2"	0.625	4	0.875	4.420	4.420	6.015	3.240	.590	2.120	2.114	150
3/4"	.799	2.750	3.875	1.050	NPT3/4"	0.625	4	1.000	4.843	4.843	6.673	3.976	.590	2.530	2.500	150
1"	1.024	3.125	4.250	1.315	NPT1"	0.625	4	1.125	5.615	5.615	7.765	4.390	.630	2.811	2.874	150
11/4"	1.20	3.500	4.625	1.660	NPT11/4"	0.625	4	1.250	7.160	7.160	9.275	4.780	.630	3.340	3.850	150
11/2"	1.50	3.875	5.000	1.900	NPT11/2"	0.625	4	1.375	7.160	7.160	9.275	4.780	.630	3.340	3.850	150
2"	1.89	4.750	6.000	2.375	NPT2"	0.750	4	1.500	7.950	7.950	8.100	5.880	.787	3.850	4.733	150
21/2"	2.64	5.500	7.000	2.889	NPT21/2"	0.750	4	1.750	8.860	8.860	11.540	7.480	.787	5.51	5.91	150
3"	3.150	6.000	7.500	3.516	NPT3"	0.750	4	1.875	10.830	10.830	14.920	9.050	.866	6.54	7.20	150

Testing Procedure: Every valve is tested for bubble tight shutoff prior to leaving the factory. Pressure testing preformed on PVC/EPDM valves at 73° water temperature, non-shock.

TVI SAFETY BLOCK - TRUE UNION BALL VALVES

DESIGN SPECIFICATIONS

Thermoplastic Ball Valves 1/2" - 4" are designed to safely block full system pressure in either direction to allow on-line system maintenance. Valve stem is of the blow-out proof design. Valve has full port for lowest possible pressure loss. Seats shall be easily adjustable and replaceable. Stem has an internal pressure sealed land to protect stem and stem seal from contaminents. Every valve is fully pressure and cycle tested before leaving the factory. Materials of construction shall be: (select as required for service)

BODY/BALL/STEM/END NUTS AND CONNECTORS

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

SEAT

PTFE (Polytetrafluoroethylene), Teflon® (DuPont Dow Elastomers)

SEALS

EPDM, Ethylene Propylene Diene Monomer Fluorocarbon. Viton® (DuPont Dow Elastomers) Fluorel (3M Corp.)

MANUAL LEVER

ABS, ASTM D-1788

End connectors shall conform to the following standards:

SOCKET

ASTM - D-2467 (PVC, SCH-80) ASTM - F-439 (CPVC, SCH-80)

THREADED

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

FLANGED -

ANSI - B16.5 Class 150

Both socket and threaded end connectors shall be supplied on all 1/2" - 2" PVC and CPVC valves. On 2 1/2" - 4" socket end connectors will be supplied unless otherwise specified.

Valves shall be backed by a full two (2) year guarantee.

Not recommended for compressed air or gas service.