



THERMOPLASTIC VALVES INC.

ARRANGEMENT DRAWING

DIAPHRAGM VALVE-FLG. TYPE

SIZE: 1/2" - 10"

DWN BY CKP	DATE 1/96
DWG NO. 104-DV	

CERTIFIED
CORRECT FOR GENERAL DIMENSIONS

Date _____ Per: _____

Materials of Construction

Item	Parts	Pcs	Materials	Item	Parts	Pcs	Materials
1	Body	1	PVC	11	Grease Nipple	1	BRASS
2	Bonnet	1	PVC, PP, PVDF, CPVC, PPO	12	Stud Bolt & Nut	4 Sets 1/2" - 1" 6 Sets	SS-41, SUS304
3	Compressor	1	1/2" - 1" PPG-Nylon	13	Inserted Nut	9 Sets 2 1/2" - 5" 6 Sets	BRASS
4	Hand Wheel	1	1 1/2" - 10" CAST IRON*	14	Bolt Nut & Washer	12 Sets 10"	SS-41, SUS304
5	Sleeve	1	1/2" - 2" BRASS	15	Thrust Bearing	1	Standardized 3" - 10" Used Only
6	Stern	1	2 1/4" - 10" CAST IRON*	16	Stopper	1	SS-41, BRASS, SUS304
7	Diaphragm	1	2 1/4" - 10" SS-41 EPDM, HYPALON®	17	Set Nut	1	SS-41, BRASS, SUS304
8	Cap	1	1/2" - 2" BRASS	18	Gauge Cover	1	POLYCARBONATE
9	Compressor Pin	1	2 1/2" - 10" PVC, PP*	19	Sheet Gasket	1	EPDM
10	Name Plate	1	SUS-304	20	Sheet Ring	1	SS-41, BRASS, SUS304
				21	Spring Washer	1	SS-41, SUS304

Ansi Dimensions

Size Inch	D1	D2	D3	D4	D5	Lift	L	T	H	I	Rubber Diaphragm @ 73°F			Teflon Diaphragm @ 73°F							
											UPVC	PP	PPG	CPVC	PVDF	UPVC	PP	PPG	CPVC	PVDF	
1/2	0.63	2.38	3.50	0.63	4	2.32x2.09	3.70	0.51	4.25	0.51	3.98	5.51	150	150	150	105	105	105	105	105	105
3/4	0.79	2.76	3.86	0.63	4	2.80x2.48	3.70	0.59	5.90	0.59	4.17	5.98	150	150	150	105	105	105	105	105	105
1	0.98	3.13	4.25	0.63	4	3.15x2.60	3.70	0.55	5.90	0.67	4.45	6.22	150	150	150	105	105	105	105	105	105
1 1/2	1.61	3.88	5.00	0.63	4	4.96	5.79	0.94	6.95	0.67	5.24	7.60	150	150	150	105	105	105	105	105	105
2	2.05	4.74	5.96	0.75	4	5.83	5.79	1.10	7.95	0.67	5.71	8.27	150	150	150	105	105	105	105	105	105
2 1/2	2.68	5.49	7.01	0.75	4	7.48	7.95	1.26	9.85	0.79	7.76	10.87	150	150	150	105	105	105	105	105	105
3	3.07	6.00	7.52	0.75	4	8.46	7.95	1.34	10.40	0.79	8.50	11.54	150	150	150	105	105	105	105	105	105
4	3.94	7.50	9.02	0.75	4	10.04	9.49	2.13	12.95	1.10	10.28	14.57	150	150	150	105	105	105	105	105	105
5	4.92	8.50	10.00	0.87	8	12.60	10.79	2.83	16.14	1.10	12.13	16.22	105	105	105	60	60	60	60	60	60
6	5.83	9.51	10.98	0.87	8	15.16	15.55	2.83	18.90	1.26	13.15	18.54	105	105	105	60	60	60	60	60	60
8	7.80	11.75	13.50	0.87	8	16.93	15.55	3.78	22.44	1.26	16.40	24.61	60	60	60	45	45	45	45	45	45
10	9.76	14.25	15.98	0.98	12	21.26	21.85	5.20	26.77	1.34	20.08	29.53	60	45	60	45	45	45	45	45	45

Testing performed on PVC body, EPDM diaphragm at 73°F water temperature, non-shock