

# VAL-MATIC®



**Cost Efficient and  
Reliable....  
Right From the Start**

## Maximum Pressure-Temperature Ratings

### Maximum Non-Shock Working Pressure PSIG (BAR) ANSI Class 125, ISO PN 10 - 16

Temp.	Ductile Iron			Cast Iron			Temp.	Ductile Iron			Cast Iron		
	2" - 12"	14" - 24"	30" - 60"	50 - 300mm	350 - 600mm	750 - 1500mm							
<b>F</b>	<b>2" - 12"</b>	<b>14" - 24"</b>	<b>30" - 60"</b>	<b>C</b>	<b>50 - 300mm</b>	<b>350 - 600mm</b>	<b>750 - 1500mm</b>						
150	250	150	150	65	17.2	10.3	10.3						
200	235	135	115	95	16.2	9.3	7.9						
250	220	125	85	120	15.2	8.6	5.9						
Hydro Test	500	230	230	Hydro Test	35	16	16						

## Materials of Construction

Component		Standard		Optional
Body	2" - 12"	50 - 300mm	Ductile Iron ASTM A536 Gr. 65-45-12	N/A
	14" - 60"	350 - 1,500mm	Cast Iron ASTM A126, Class B	Ductile Iron ASTM A536 Gr. 65-45-12
Disc	2" - 12"	50 - 300mm	Bronze ASTM B584, C83600	N/A
	14" - 60"	350 - 1,500mm	Aluminum Bronze ASTM B148, Alloy C95200	Ductile Iron, Electroless Nickel Plated
Seal		Buna-N (NBR)		Viton (FKM)
Spring		316 SS (2"-16"/50-400mm), 17-7 PH (18"-60"/450-1,500mm)		N/A
Trim		316 Stainless Steel		N/A
Exterior Coating		Universal Primer		ANSI/NSF 61 Fusion Bonded Epoxy*

\*FBE also available on interior.

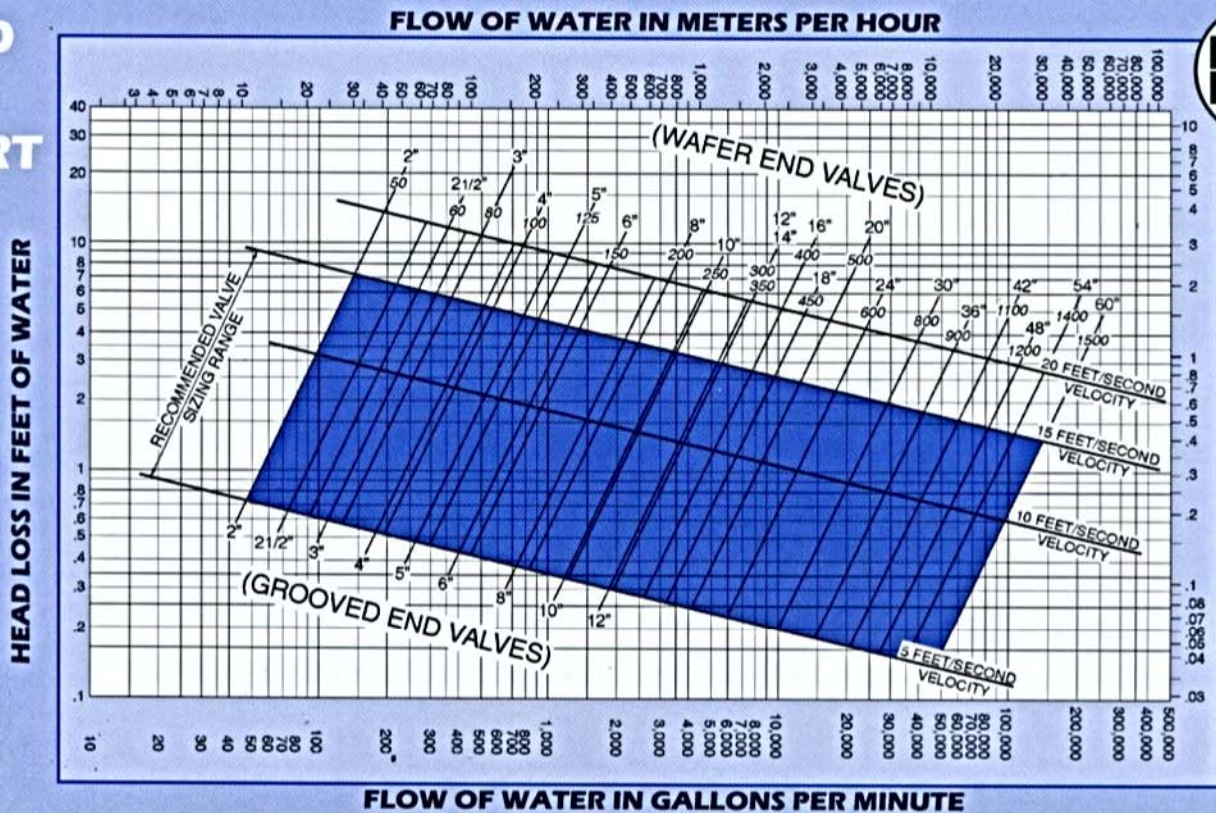
## FLOW COEFFICIENTS

Series	Series 8800W									
	IN	2"	2.5"	3"	4"	5"	6"	8"	10"	12"
	<b>*Cv</b>	76	161	224	400	648	1,060	1,890	3,340	5,270
	MM	50	65	80	100	125	150	200	250	300
	<b>**Kv</b>	65	137	191	341	553	904	1,612	2,850	4,495
Series	Series 8800G									
	IN	2"	2.5"	3"	4"	5"	6"	8"	10"	12"
	<b>*Cv</b>	77	129	209	358	573	898	1,740	3,180	4,950
	MM	50	65	80	100	125	150	200	250	300
	<b>**Kv</b>	66	110	178	305	489	766	1,484	2,712	4,222

Series 8800							
Size		*Cv	**Kv	Size		*Cv	**Kv
IN	MM			IN	MM		
14	350	5,200	4,435	36	900	50,000	42,650
16	400	7,200	8,018	42	1,100	72,000	61,400
18	450	9,400	10,240	48	1,200	97,000	82,740
20	500	12,000	15,780	54	1,144	130,000	112,400
24	600	18,500	28,150	60	1,500	180,000	155,700
30	800	33,000	42,650				

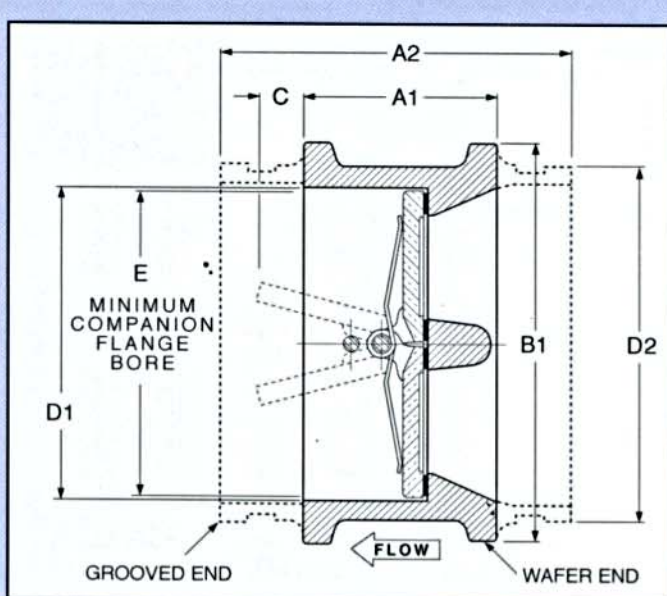
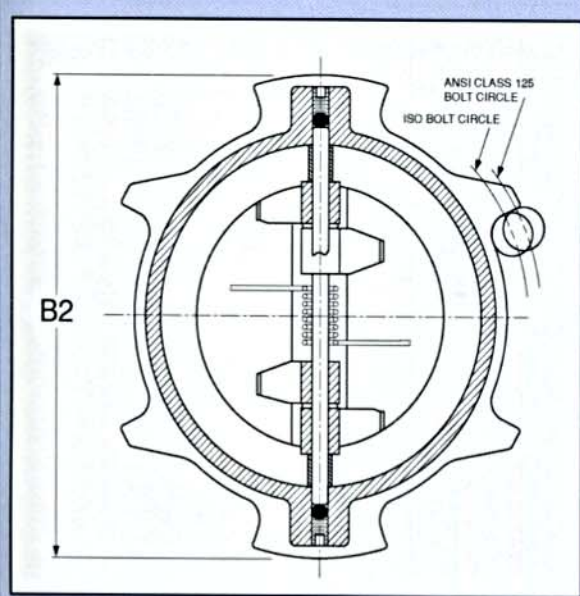
\*Cv = The number of U.S. gallons/minute of 60° F water that will flow through the valve with a 1 PSI pressure drop across the valve.  
 \*\*Kv = The number of cubic meters per hour of 20° C water that will flow through a valve with a 1 bar pressure drop across the valve.

## HEAD LOSS CHART



HEAD LOSS IN METERS OF WATER

# INSTALLATION DIMENSIONS



**FM**  
APPROVED  
2.5" - 16"  
65 - 400mm

**UL** US  
2.5" - 12"  
65 - 300mm

Valve Size	A1	A2	B1	B2	C	D1	D2	E	Wafer Wt. Lbs. (KG)	Grooved Wt. Lbs. (KG)
2" 50 mm	2.13 54.0	4.66 118.3	4.13 104.8	5.13 130.2	.19 4.8	2.56 65.1	2.38 60.3	1.94 49.2	4 1.8	4 1.8
2.5" 65 mm	2.38 60.3	4.91 124.6	4.88 123.8	5 142.9	.31 7.9	3.06 77.8	2.88 73.0	2.31 58.7	5 2.3	5 2.3
3" 80 mm	2.63 66.7	5.31 134.9	5.38 136.5	6 136.5	.5 12.7	3.69 93.7	3.5 88.9	2.88 73.0	7 3.2	8 3.6
4" 100 mm	2.63 66.7	5.38 136.5	6.88 174.6	7.75 196.9	1 25.4	4.63 117.5	4.5 114.3	3.88 98.4	9 4.1	9 4.1
5" 125 mm	3.25 82.6	5.72 145.3	7.75 196.9	7.56 192.1	1.13 28.6	5.69 144.5	5.56 141.3	4.81 122.2	13 5.9	13 5.9
6" 150 mm	3.75 95.3	6 152.4	8.75 222.3	8.63 219.1	1.25 31.8	6.75 171.5	6.63 168.3	5.75 146.1	19 8.6	18 8.2
8" 200 mm	5 127.0	6.72 170.7	11 279.4	12.25 311.2	1.31 33.3	8.75 222.3	8.63 219.1	7.63 193.7	38 17.2	30 13.6
10" 250 mm	5.5 139.7	7.78 197.6	13.38 339.7	13.75 349.3	2.5 63.5	10.88 276.2	10.75 273.1	9.56 242.9	65 29.5	56 25.4
12" 300 mm	7.13 181.0	8.19 208.0	16.13 409.6	17.38 441.3	2.38 60.3	12.88 327.0	12.75 323.9	11.38 288.9	94 42.6	81 36.7
14" 350 mm	7.25 184.2	N/A	17.75 450.9	N/A	3.25 82.6	14.38 365.1	N/A	12.5 317.5	187 84.8	N/A
16" 400 mm	7.5 190.5	N/A	20.25 514.4	N/A	4.5 114.3	16.38 415.9	N/A	15 381.0	270 122	N/A
18" 450 mm	8 203.2	N/A	21.63 549.3	N/A	5.38 136.5	18.38 466.7	N/A	17 431.8	330 150	N/A
20" 500 mm	8.38 212.7	N/A	23.88 606.4	N/A	6.38 161.9	20.25 514.4	N/A	19 482.6	424 192	N/A
24" 600 mm	8.75 222.3	N/A	28.25 717.6	N/A	8.5 215.9	24.25 616.0	N/A	23 584.2	589 267	N/A
30" 800 mm	12 304.8	N/A	34.75 882.7	N/A	9.5 241.3	30 762.0	N/A	28.5 723.9	1,112 504	N/A
36" 900 mm	14.5 368.3	N/A	41.25 1,048	N/A	12 304.8	36 914.4	N/A	34.5 876.3	1,864 846	N/A
42" 1,050 mm	17 431.8	N/A	48 1,219	N/A	13.75 349.3	42 1,067	N/A	40.5 1,029	2,889 1,310	N/A
48" 1,200 mm	20.63 523.9	N/A	N/A	59.5 1,511	17 431.8	48 1,219	N/A	46.5 1,181	5,525 2,506	N/A
54" 1,350 mm	21.25 539.8	N/A	N/A	66.25 1,683	20 508.0	54 1,372	N/A	52.5 1,334	7,000 3,175	N/A
60" 1,500 mm	26 660.4	N/A	N/A	73 1,854	19 482.6	60 1,524	N/A	58.5 1,486	10,100 4,580	N/A