



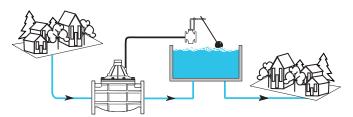
Float Valve Model C701/CF701

The Model C701/CF701 (Pilot Operated) Float Valve closes at high water level to prevent overflow of a ground storage tank, basin, or reservoir and opens to refill when the water level lowers.

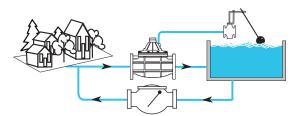
Normally, this valve is either full open or full closed however, the design characteristics of its controls causes the main valve piston to modulate (close slowly) over the last few inches of filling.

The Model C701/CF701 may also be used to control the effluent from a reservoir or basin by opening at high water level and closing at low water level. For this application, a minimum head pressure of 10 feet is required.(For most applications, the float operated pilot valve should be installed in a "stilling well" to avoid erratic operation caused by waved action).

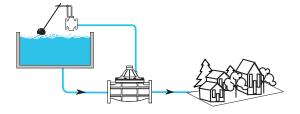
Typical Applications



Flow through float valve to reservoir and from reservoir to another pressure zone (close at high level and open at low level)



Flow through float valve to reservoir and from reservoir back to supply (close at high level and open at low level)



Flow from reservoir or basin through float valve to distribution (open at high level and close at low level)







Specifications



- C701 Full Port Globe Style
- CA701 Full Port Angle Body Globe Style
- CF701- Reduced Port Globe Style
- CFA701-Reduced Port Angle Body Globe Style

Sizes

- 1 1/4" 3" Threaded NPT / BSPP
- 1 1/2" 36" Flanged

Temperature Rating

■ Water up to 180° F (82°C)

Pressure Rating

Pressure Class												
ANSI	Stand	ard B	16.1	British Standard BS4504								
Ductile Iron Grade	150 lb	300lb	NPT Threaded	Ductile Iron Grade	PN10/16	PN 25	BSPP Threaded					
ASTM A536	250	400	400	BS 2789	250	400	400					

Standard Materials

		Barre 191			
Component		Material			
Component	Sizes 1 1/4" - 4"	Sizes 6" - 10"	Sizes 12" - 36"		
Body & Cover	Ductile Iron	Ductile Iron	Ductile Iron		
Intermediate Chamber	Ductile Iron	Ductile Iron	Ductile Iron		
Coating	Fusion Epoxy	Fusion Epoxy	Fusion Epoxy		
Spool & Diaphragm Plate	Unleaded Bronze	Ductile Iron	Ductile Iron		
Seat Ring & Seat Plate	Unleaded Bronze	Unleaded Bronze	Stainless Steel		
Cover Bushing	Bronze	Bronze	Bronze		
Disc Seal	Buna-N	Buna-N	Buna-N		
Diaphragm	Nitrile Nylon	Nitrile Nylon	Nitrile Nylon		
Stem, Nuts & Spring	Stainless Steel	Stainless Steel	Stainless Steel		

Options

- Stainless Steel Seat Trim (Standard 12" and larger sizes)
- Heavy Spring for Vertical Installation
- Viton Disc Seal
- Stainless Steel Stem Bushing
- Indicator Rod Sizes 1 1/2" thru 4" (Standard 6" and larger sizes)

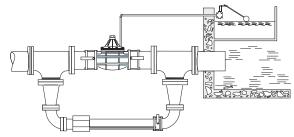
WARRANTY -

LIMITED THREE YEAR WARRANTY: Flomatic Valves warrants that its Automatic Hydraulic Control Valves are free from defects in material and workmanship for a period of three (3) years after shipment. Flomatic Valves will repair or replace any parts or components found to be defective with in three years from the date of shipment. All removal and installation of equipment or parts shall be at buyer's expense. Flomatic Valves shall not under any circumstances be liable for special or consequential damages. This warranty will be void if the valve or its controls have been modified without factory authorization or if it is subjected to unusual operating conditions which were not described or specified at the time of purchase.

Typical Installation

The Float Valve is used to the water level in ground storage tanks, reservoirs or basins by closing to prevent overflow and opening to refill when water level recedes.

To correctly size this valve and avoid undesirable operating characteristics (noise, excessive wear and poor pressure control) which result from oversizing (or undersizing) use the Sizing Guide Section and choose the smallest valve which satisfies the maximum flow requirement.



Note:Australian and Japanese Flange Connections are Available



Also Available with Full Port Angle Body Globe Style (CA701)

(Model CFA701 Reduced Ported)





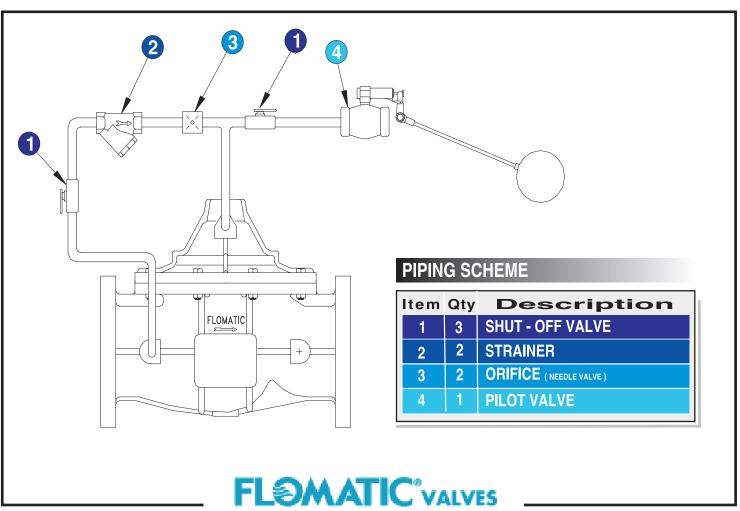
SIZING GUIDE for THROTTLING VALVES

In order to insure pressure control and avoid excessive noise and maintenance expense, extreme care must be taken when sizing the throttling valve for a specific application. Although both pressure conditions and flow (velocity) are contributing factor, field experience has determined that flow rate is the most critical factor and that proper valve sizing can be attained through consideration of the flow rate alone.

The maximum flow rates in tables below for Model C (Full ported valves) are based on a velocity of 15 ft per second, (fps) or 4.6 meter per second, (m/s). The throttling valve is capable of handling larger flows for short periods of time; however, the increase in maximum flow should be limited to 25% of the above values. Minimum flow rates are based on 0.5 feet/second flow rate (0.15 meter per second, m/s). Valve should be selected to be opened between 20-80% for best efficiencies and service life. The flow values for Model CF (Reduced ported valves) in the table below are less as they have smaller valve orifice or seat areas.

The tables below indicate the desired throttling valve size (inches) for designated maximum and minimum flow rates in gallons per minute (GPM):

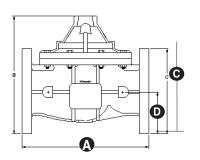
Valve Body Type (Size)	Flow	1.5"	2 "	2.5"	3 "	4 "	6"	8 "	10"	12"	14"	16"	18"	20"	24"	30"	36"
M odel C & CA	M in	2.5	4	7	11	20	40	80	120	180	240	300	400	500	700	1,000	-
Full Ported	Max	90	160	230	340	600	1,300	2,400	3,700	5,200	7,200	9,500	12,000	14,000	21,000	32,000	-
M odel CF & CFA	M in	-	-	-	7	11	30	40	80	120	180	240	300	400	500	700	900
Reduced Ported	Max	-	-	-	160	340	600	1,300	2,400	3,700	5,200	7,200	9,500	12,000	14,000	21,000	32,000
M odel CI	M in	-	2	2	2	5	8	25	-	-	-	-	-	-	-	-	-
Diaphram	Max	-	110	132	132	264	1,020	1,790	-	-	-	-	-	-	-	-	-

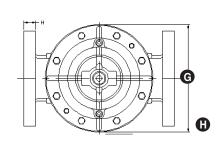


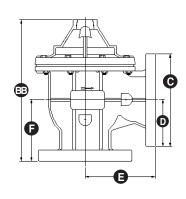


Model C701 / CA701 Full Ported Valves

S 12	ZE	1.5"	2 "	2.5"	3 "	4"	6"	8"	10"	12"	14"	16"	20"	24"	30"
Α	150	8.5	9.375	11	12	15	20	25.375	29.75	34	39	41.375	43.3125	61.5	63.75
	300	9	10	11.625	13.25	15.625	21	26.375	31.125	35.5	40.5	43.5	44.75	63.25	65.5
l _B	150	8	7.5	9.75	10.0312	12.1875	15.6875	23.2812	24.6875	28.9687	36.375	41	51.25	61.5	69.25
	300	8.5625	7.8125	9.875	10.25	12.75	16.375	24.1562	26.5	30.375	37.375	42	52.75	63.5	73.625
ВВ	150	7.9687	7.9867	10.375	10.4062	12.625	16.5	22.1562	25.75	33.3437	N/ A	N/A	N/A	N/ A	N/ A
	300	8.25	8.2187	N/A	10.7656	21.9375	16.9375	22.6562	26.4375	34.0937	N/ A	N/A	N/A	N/ A	N/ A
C	150	5	6	7	7.5	9	11	13.5	16	19	21	23.5	27.5	32	38.875
١٠	300	6.125	6.5	7.5	8.25	10	12.5	15	17.5	20.5	23	25.5	30.5	36	43.25
D	150	2.375	2.8125	3.375	3.625	5.125	6.25	7.5625	9.375	10.375	11.7812	14	15.5	18.25	21.75
"	300	2.875	3.125	3.5	3.875	4.8125	5.8.25	7.125	8.5	9.375	11.625	12.7812	15.5	18.25	21.75
E	150	4	4.75	5.5	6	7.5	10	12.75	14.875	17	N/ A	N/A	N/ A	N/ A	N/A
-	300	4.25	5	5.375	7.875	10.5	15.5625	17.75	N/ A	N/A	N/ A	N/A	N/A	N/ A	N/ A
F	150	4	3.25	4	4	5	6	8	8.625	13.75	N/ A	N/A	N/A	N/ A	N/ A
'	300	4.25	3.5	4.3125	5.375	6.5	8.5	9.3125	14.5	N/A	N/ A	N/A	N/A	N/A	N/ A
G	150	6.8675	6.8675	8.125	8.125	11	14.25	19	22.5	27.25	34	36	42	54	62
١٩	300	6.8675	6.8675	8.125	8.125	11	14.25	19	22.5	27.25	34	36	45	54	62
Н	150	.5625	.375	.6875	.75	.9375	1	1.125	1.1875	1.25	1.375	1.4375	1.6875	1.875	2.125
"	300	.8125	.875	1.125	1.125	1.25	1.4375	1.625	1.875	2	2.125	2.25	2.5	2.75	3
1	ROX GHT														







Model CF701 / CFA701 Reduced Ported Valves

SIZ	Έ	2.5"	3 "	4"	6"	8"	10"	12"	14"	16"	20"	24"	30"	36"
Α	150	10.75	10.875	11.9375	16.3437	20.5625	26	30	39	3 5	48	48	63.25	76
_ ^	300	N/ A	11.625	12.5	17.25	21.5625	27.375	31.5	40.5	36.625	49.625	49.75	65	78
В	150	8.1875	8.25	10.75	13.0625	16.9531	21.8125	26.4062	34	37.5	43	53.5	65	73.75
l D	300	N/A	8.6562	11.2812	13.875	17.8125	22.8125	27.9062	34	38.5	44.5	55.5	67.3125	44.25
ВВ	150	8.5156	8.5625	11.375	N/A	N/A	N/ A	N/ A	N/ A	N/A	N/ A	N/A	N/ A	N/ A
DD	300	N/ A	N/A	N/A	N/A	N/A	N/A	N/ A	N/ A	N/A	N/ A	N/A	N/A	N/ A
С	150	7	7.5	7.5	10.625	13.125	15.5	19	21	23.5	27.5	32	38.875	46
١٠	300	N/A	8.0468	9.8437	12.1875	14.75	17.25	20.5	23	25.5	30.5	56	43.25	50
D	150	3.5	3.75	4.5	5.125	6.4062	7.5	9.25	10.375	11.5	13.7812	17	21	24
٦	300	N/A	3.9843	4.8906	5.9375	7.2812	8.5	1	11.375		15.2812	19	23.125	25.5
E	150	5.5	5.5625	6.75	N/A	N/A	N/ A	N/ A	N/ A	N/A	N/ A	N/A	N/ A	N/ A
-	300	N/A	N/A	N/A	N/A	N/A	N/ A	N/A	N/A	N/A	N/A	N/A	N/ A	N/ A
F	150	3.7968	3.8437	5	N/A	N/A	N/ A	N/A	N/A	N/A	N/A	N/A	N/ A	N/A
「	300	N/A	N/ A	N/ A	N/ A	N/A	N/A	N/A	N/A	N/A	N/ A	N/A	N/A	N/ A
G	150	6.6875	6.6875	8.125	11	14.25	19	22.5	27.25	34	36	45	54	62
٦	300	N/ A	6.6875	8.125	11	14.25	19	22.5	29.25	34	36	45	5 4	62
	150	.6875	.75	.9375	1	1.125	3.1875	1.25	1.375	1.4375	1.6875	1.875	2.125	2.375
Н	300	N/ A	1.125	1.25	1.4375	1.625	1.875	2	2.125	2.25	2.5	2.75	3	3.375
APF W E I														

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