

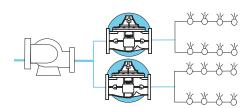


Solenoid Control Valve Model C801/CF801

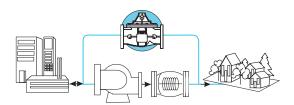
The Model C801/CF801 Normally Closed Solenoid Control Valve opens full when the solenoid control is energized and closes drop tight when de-energized.

The solenoid pilot valve introduces control water to the diaphragm chamber of the main valve for closure and exhaust control water from the diaphragm chamber to the open valve. (The control fluid is usually water from the pipeline; however, a separate source of higher pressure may be used when desired.)

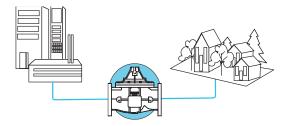
Typical Applications



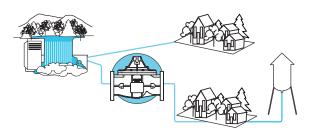
Flow from pump station to irrigating systems



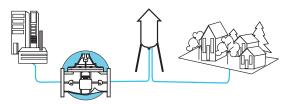
Flow from a pump discharge to pump suction with pump off



Flow between two distribution systems



Flow from transmission main to distribution system with storage



Flow to a water storage tank.







Specifications



- C801 Full Port Globe Style
- CA801- Full Port Angle Body Globe
- CF801 Reduced Port Globe Style
- CFA801-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	lard B		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

Company		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)

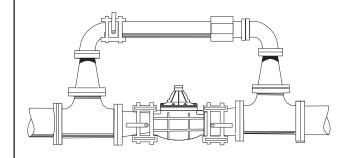
WARRANTY ...

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 Solenoid Control Valve is an electrically actuated, hydraulically operated valve used to control flow (open/close or throttle) to a water storage tank, a distribution system, pump suction or any location within a water system where an on-off (or throttling) valve is required. To properly size the Solenoid Control Valve use the sizing guide section and choose the valve size which satisfies the desired maximum flow rate at the allowable head loss.



Note: Australian and Japanese Flange Connections are Available



Also Available with Full Port Angle Body Globe Style (CA801)

(Model CFA801 Reduced Ported)





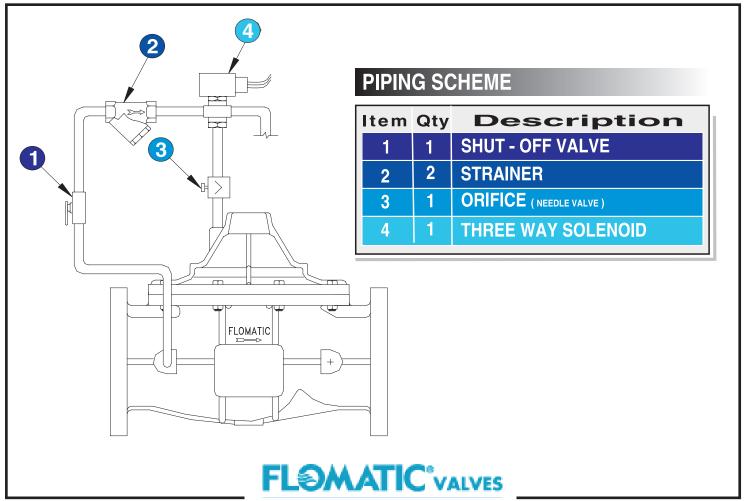
SIZING GUIDE for THROTTLING VALVES

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):

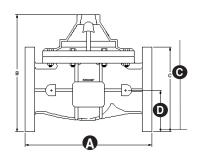
Valve Body Type (Size)	Flow	1.5"	2 "	2.5"	3 "	4"	6"	8 "	10"	12"	14"	16"	18"	20"	24"	30"	36"
M odel C & CA	Min	2.5	4	7	11	20	40	80	120	180	240	300	400	500	700	1,000	-
Full Ported	Max	90	160	230	340	600	1,300	2,400	3,700	5,200	7,200	9,500	12,000	14,000	21,000	32,000	-
M odel CF & CFA	Min	-	-	-	7	11	30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

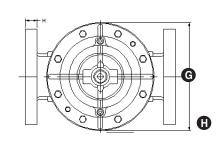


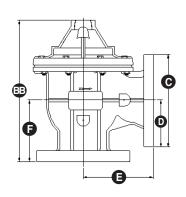


Model CF801 / CFA801 Full Ported Valves

S 12	ĽΕ	1.5"	2 "	2.5"	3 "	4"	6"	8"	10"	12"	14"	16"	20"	24"	30"
A	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
F	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
APF W E I															







Model CF801 / CFA801 Reduced Ported Valves

SIZ	ĽΕ	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
l B	150	8.1875	8.25	10.75	13.0625	16.9531	21.8125	26.4062	34	37.5	43	53.5	65	73.75
B	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
D D	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
BB	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
	150	7	7.5	7.5	10.625	13.125	15.5	19	21	23.5	27.5	32	38.875	46
C	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
"	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
١٩	300	N/ A	6.6875	8.125	11	14.25	19	22.5	29.25	34	36	45	54	62
Н	150	.6875	.75	.9375	1	1.125	3.1875	1.25	1.375	1.4375	1.6875	1.875	2.125	2.375
"	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	ROX GHT													

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