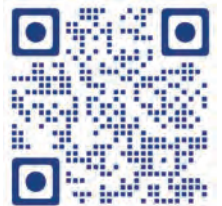




Crystal
Clear Water
Starts Here

with Modulating
Float Values



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The Purpose and Benefit of

a Mer-Made Modulating Float Valve

Modulating float valves are specifically designed to regulate water flow between the gutter and main drain lines in a surge tank. As the surge tank level rises due to increased gutter flow the float valve closes the main drain line to balance flow between the two. Float valves do not shut 100 percent and are engineered to allow 20-30% main drain line flow when the valve is closed.

There are four main styles of float valves

1. **FV-S & FV-D** - Standard float valves used in gravity flow applications
2. **FV-S-XWB & FV-D-XWB** - In-line float valves used when main drain is connected to the pump suction
3. **FV-S & FV-DP** - pivot style float valves used when to hold water level at a higher level than the centerline of the main drain line in gravity applications
4. **FV-SP-XWB & FV-DP-XWB** - pivot style float valves used to hold water level at a higher level than the centerline of the main drain line in In-line applications

Float Ball is 8" diameter.
 Float Rod 4" & 6" I.D. = 3/8"Ø
 8" & up I.D. = 5/8"Ø

Shaft Size:
 4" & 6" I.D. = 1/2"Ø
 8" & up I.D. = 3/4"Ø

Elbow may be added as an optional item.

I.D.	A	B	C	D	E	F	G	K
4"	9-1/2"	7-1/2"	23"	6-5/8"	10-1/8"	20-1/4"	34"	1-1/4"
6"	11-1/2"	9-1/2"	23"	7-5/8"	11-1/8"	22-1/4"	34"	1-1/4"
8"	14"	11-3/4"	23"	8-7/8"	12-3/8"	24-3/4"	34"	1-1/2"
10"	16-1/2"	14-1/4"	23"	9-7/8"	—	26-3/4"	34"	1-1/2"
12"	19-1/2"	17"	23"	11-3/8"	—	29-3/4"	39"	1-1/2"

FV-S = Single Arm Valve
FV-D = Double Arm Valve

Outer ball is foamed.
 Float Ball diameter:
 8"Ø for sizes 4"-16",
 13"Ø for sizes 18"-20"

Inner ball is weighted.

Shaft Size = 3/4"Ø

Flow

Float Rod 4" - 16" I.D. = 5/8"Ø
 18"-20" I.D. = 3/4"Ø

I.D.	A	B	C	D	E	F	G	K
4"	9-1/2"	7-1/2"	32"	6-5/8"	10-1/8"	20-1/4"	48"	1-1/4"
6"	11-1/2"	9-1/2"	32"	7-5/8"	11-1/8"	22-1/4"	48"	1-1/4"
8"	14"	11-3/4"	32"	8-7/8"	12-3/8"	24-3/4"	48"	1-1/2"
10"	16-1/2"	14-1/4"	32"	9-7/8"	—	26-3/4"	48"	1-1/2"
12"	19-1/2"	17"	32"	11-3/8"	—	29-3/4"	53"	1-1/2"
14"	21-1/2"	18-3/4"	32"	12-3/8"	—	31-3/4"	53"	1-1/2"
16"	24"	21-1/4"	32"	13-3/8"	—	33-3/4"	53"	2"
18"	25-1/2"	22-3/4"	44"	15"	—	48"	60"	4"
20"	28"	25"	44"	16"	—	48"	60"	4"
24"	32-1/2"	29-1/2"	44"	18"	—	48"	60"	4"

Float Valve shown is to be used for In-Line Application.
FV-S-XWB = Single Arm Valve
FV-D-XWB = Double Arm Valve

Elbow may be added as an optional item.

Flow

FV-SP = Single Arm Valve
FV-DP = Double Arm Valve

I.D.	A	B	C	D	E	F	G min	G max	H	K
4"	9-1/2"	7-1/2"	8"	6-5/8"	10-1/2"	21"	36"	54"	26"	1-1/4"
6"	11-1/2"	9-1/2"	8"	7-5/8"	11-1/8"	22-1/4"	36"	54"	25-1/2"	1-1/4"
8"	14"	11-3/4"	8"	8-7/8"	12-3/8"	24-3/4"	36"	54"	25"	1-1/2"
10"	16-1/2"	14-1/4"	8"	9-7/8"	—	26-3/4"	36"	54"	24-1/2"	1-1/2"
12"	19-1/2"	17"	8"	11-7/8"	—	28-3/4"	36"	54"	24"	1-1/2"

Floats are 8"Ø for valves up to 16-inch. Larger valves use 13"Ø float balls.

Extra Weighted Float Ball

Flow

FV-SP-XWB = Single Arm Valve
FV-DP-XWB = Double Arm Valve

I.D.	A	B	C	D	E	F	G min	G max	H	K
4"	9-1/2"	7-1/2"	8"	6-5/8"	10-1/2"	21"	36"	48"	26"	1-1/4"
6"	11-1/2"	9-1/2"	8"	7-5/8"	11-1/8"	22-1/4"	36"	48"	25-1/2"	1-1/4"
8"	14"	11-3/4"	8"	8-7/8"	12-3/8"	24-3/4"	36"	48"	25"	1-1/2"
10"	16-1/2"	14-1/4"	8"	9-7/8"	—	26-3/4"	36"	48"	24-1/2"	1-1/2"
12"	19-1/2"	17"	8"	11-3/8"	—	28-3/4"	36"	48"	24"	1-1/2"
14"	21-1/2"	18-3/4"	8"	12-3/8"	—	31-3/4"	36"	48"	23-1/2"	1-1/2"
16"	24"	21-1/4"	8"	13-1/2"	—	35"	36"	48"	24"	2"
20"	28"	25"	10"	16"	—	48"	48"	54"	31"	4"

Mer-Made Filter

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