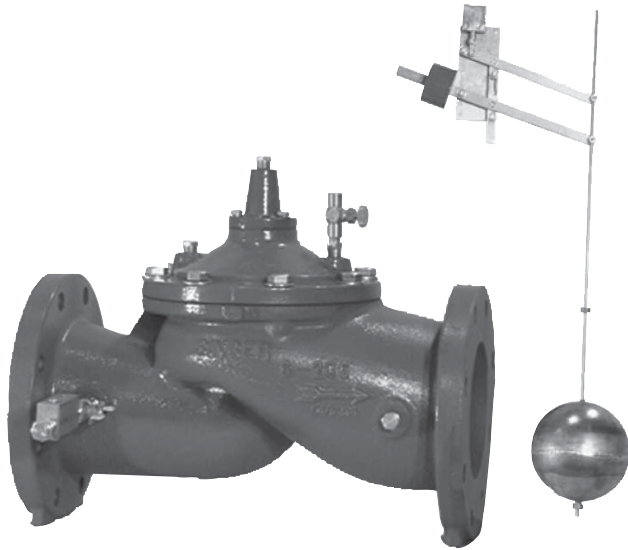


Non-Modulating Float Valve



The Singer model F-Type 5 non-modulating float valve employs the basic Singer model 106-PG or 206-PG main valve. The valve functions as a two position valve - either open or closed.

The F-Type 5 allows normal forward flow to fill the reservoir to the desired maximum high level, where it closes drip tight.

The valve remains closed when the reservoir level drops, until the float reaches the predetermined adjustable minimum reservoir level. The F-Type 5 then opens to refill the reservoir.

- NO OVERFLOW - DRIP TIGHT CLOSE
- FIXED DRAWDOWN FOR EACH CYCLE
- LEVEL SETTINGS ARE EASILY ADJUSTED
- LOW SUPPLY PRESSURE OPTIONS

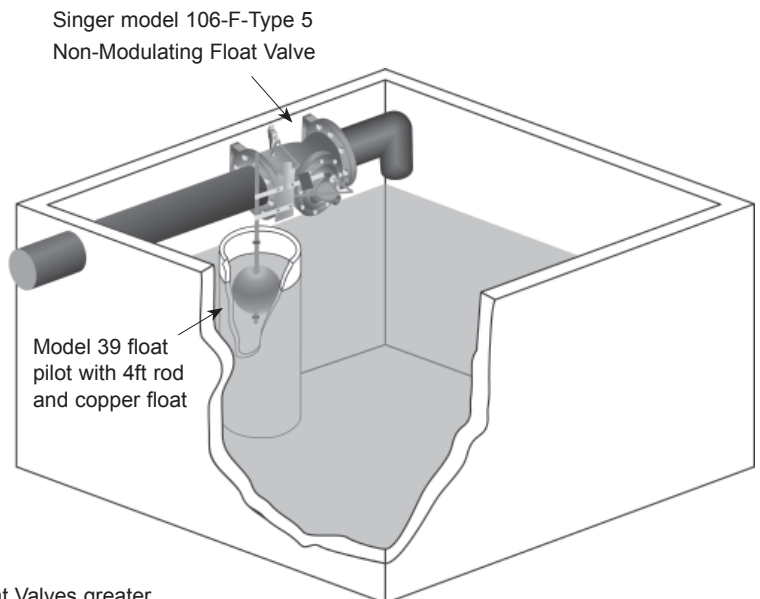
Typical Application:

Non-modulating float valves are typically used in buildings with reservoir tanks or installations where the valve and pilot are readily accessible.

The ON-OFF service ensures that the reservoir contents are cycled. It will also prevent over cycling of the supply pumps as the minimum quantity per cycle is adjustable.

When Ordering Please Specify:

1. Catalog Model #
2. Full Port (106) or Reduced Port (206) (See Main Valves)
3. Globe or Angle Pattern
4. End Connections
5. Valve Size



NOTE
 Per illustration, Float Valves greater than 4" (100mm) cannot be positioned on its side.

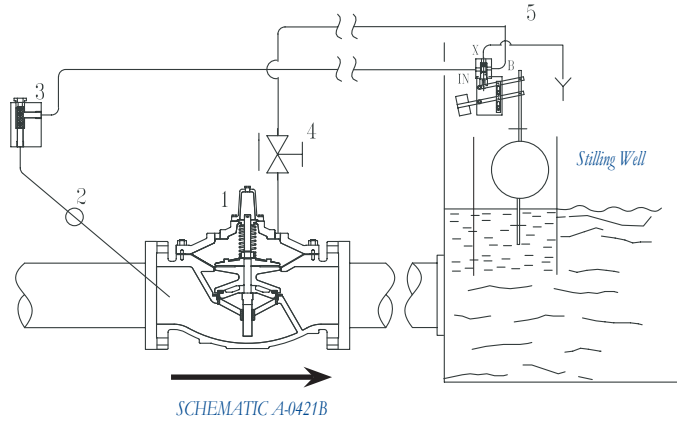
Non-Modulating Float Valve:

1. Main Valve - 106-PG or 206-PG
2. Isolation Valve
3. Strainer - 40 mesh stainless steel screen
4. Opening / Closing Speed Control
5. Model 39 Float Pilot c/w copper float, 4 ft brass rod

Standard materials for pilot system components are:

- ASTM B-62 bronze or ASTM B-16 brass
- AISI 303/316 stainless steel trim
- copper float

Note: The stilling well and the connections between main valve and pilot completed by others.



106-F-Type 5	Flow Capacity (See 106-PG in Main Valve Section for other Valve Data)								
Size (inches)	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
Size (mm)	15mm	19mm	25mm	32mm	40mm	50mm	65mm	80mm	100mm
Maximum Continuous (USGPM)	12	19	49	93	125	210	300	460	800
Maximum Continuous (L/s)	0.76	1.20	3.09	5.87	7.89	13.25	18.93	29	50
Pressure Drop (PSI)	20	20	20	15	15	20	15	16	15
Pressure Drop (Bar)	1.4	1.4	1.4	1.0	1.0	1.4	1	1.1	1.0

206-F-Type 5	Flow Capacity (See 206-PG in Main Valve Section for other Valve Data)								
Size (inches)	3"	4"	6"	8"	10"	12"	16"	18"	20"
Size (mm)	80mm	100mm	150mm	200mm	250mm	300mm	400mm	450mm	500mm
Maximum Continuous (USGPM)	300	580	1025	2300	4100	6400	9230	16500	16500
Maximum Continuous (L/s)	19	37	65	145	259	404	582	1041	1041
Pressure Drop (PSI)	19	15	17	21	17	17	18	23	22
Pressure Drop (Bar)	1.3	1.0	1.2	1.4	1.2	1.2	1.2	1.6	1.5

106-F-Type 5	Flow Capacity (See 106-PG in Main Valve Section for other Valve Data)								
Size (inches)	6"	8"	10"	12"	14"	16"	20"	24"	36"
Size (mm)	150mm	200mm	250mm	300mm	350mm	400mm	500mm	600mm	900mm
Maximum Continuous (USGPM)	1800	3100	4900	7000	8500	11000	22500	25000	55470
Maximum Continuous (L/s)	114	196	309	442	536	694	1420	1577	3500
Pressure Drop (PSI)	15	15	15	16	11	17	8.6	9.6	8.6
Pressure Drop (Bar)	1.0	1.0	1.0	1.1	0.8	1.2	0.6	0.7	0.6

206-F-Type 5	Flow Capacity (See 206-PG in Main Valve Section for other Valve Data)				
Size (inches)	24"	28"	30"	32"	36"
Size (mm)	600mm	700mm	750mm	800mm	900mm
Maximum Continuous (USGPM)	16500	33600	33650	33700	33800
Maximum Continuous (L/s)	1041	2120	2123	2126	2132
Pressure Drop (PSI)	21	17	17	17	17
Pressure Drop (Bar)	1.4	1.2	1.2	1.2	1.2

*Main Valve
Dimensions
106-PG Page 20
206-PG Page 29
Anti-Cav Page 82*

* CV = USGPM at 1 psi pressure drop; ** CV = L/s at 1 kPa pressure drop; $(Q=Cv\sqrt{\Delta P})$
 Note: based on fully open valve with pilot system vented to atmosphere

Selection Summary:

1. Generally select line size to minimize losses during normal forward flow - see chart of maximum continuous flow below.
2. Use the performance curves and sizing bulletin to determine the pressure drop across the valve at normal flow rate (see Technical & Sizing Section).
3. Check the maximum operating pressure against the maximum working pressure rating of the flanges.
4. If the outlet pressure is less than 35% of the inlet pressure, consult the factory. (May cavitate.)
5. If the inlet pressure is less than 10 psi (.69 bar) higher than the reservoir head, consult with the factory. Assisted opening may be required for full flow.

- to maintain a constant tank level, refer to model 206(106)-F-Type 4: Modulating Float Valve

- for SCADA or electronic level control, refer to model 206(106) -2SC-PCO Dual Solenoid Control Valve

Specifications:

The valve shall be a Singer Valve model 106 (206) - F-Type 5, size "_____", ANSI Class 150 (ANSI 300, ANSI flanges drilled to ISO PN 10 / 16/ 25 or 40) pressure rating/ flange standard, globe (angle), style valve. The Model 39 Non-Modulating Float Valve shall be utilized with a four-foot brass float rod with adjustable stops and a copper float (connection between main valve and Model 39 Non-Modulating Float Valve by others). Assembly shall be according to Schematic A-0421B

- The valve allows flow into the reservoir to the maximum high level where it closes drip tight. The valve remains close when the reservoir level drops until the float reaches the predetermined minimum reservoir level at which time it opens to refill the reservoir.

Refer to "Main Valve" section, 106-PG (or 206-PG) for detailed information pertaining to valve sizes and materials, selection criteria and specifications.

Refer to "Pilot and Accessories" section, Model 39 Non-Modulating Float Pilot With Vertical Rod for detailed information pertaining to materials and specifications.