# 25 | W4.80 SINGER F-TYPE 5 NON MODULATING FLOAT VALVE

# Singer F-Type 5 Non Modulating Float Valve



Technical Guide W4.80

The 106-F-Type 5 and 206-F-Type 5 non-modulating float valves are based on the 106-PG or 206-PG main valve. It is ideal for allowing normal forward flow to fill water reservoirs to a desired high level and where the pilot and valve of the reservoirs are easily accessible.



# **Applications**

Pressure Control

Remote and standalone applications

Mining Applications

# **Product Attributes**

Quick opening relief

No electrical services required

Easily adjustable pressure settings

# Approvals/Standards

AS 5081:2008

Flanges to AS/NZS 4087 Fig. B5

Coating complies with AS/NZS 4158





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The valve functions as a two position valve, either open or closed. The valve remains closed when the reservoir level drops, until the float reaches the pre-determined adjustable minimum reservoir level. The F-Type 5 valve then opens to refill the reservoir and closes tightly when high water level is achieved.

# **KEY FEATURES**

- No overflow, drip-tight close
- Adjustable draw down
- Easily adjustable level settings
- 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.

# **STANDARD MATERIALS**

Standard materials for pilot system components are:

- ASTM B-62 bronze or ASTM B-16 brass
- Copper float

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

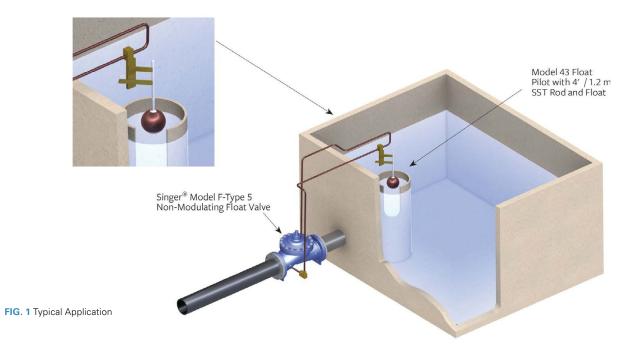
# **SELECTION SUMMARY**

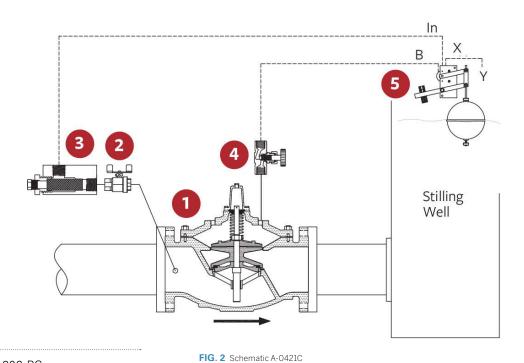
- 1. Generally select line size to minimize losses during normal forward flow see chart of maximum continuous flow below.
- 2. Use the performance curves and sizing bulletin to determine the pressure drop across the valve at normal flow rate.
- 3. Check the maximum operating pressure against the maximum working pressure rating of the flanges.
- 4. For pressures greater than 80 psi / 5.5 bar, consult factory
- 5. If the outlet pressure is less than 35% of the inlet pressure, check for cavitation.
- 6. If the inlet pressure is less than 10 psi / 0.70 bar higher than the reservoir head, consult with Singer Valve. Assisted opening may be required for full flow.
- To maintain a relatively steady tank level, refer to model 106-F-Type 4 / 206-F-Type 4
- For SCADA or electronic level control, refer to model 106-2SC-PCO / 206-2SC-PCO Dual Solenoid Control Valve

# **ORDERING INSTRUCTIONS**

Refer to Hynds for the order form and ordering instructions. Additionally, include the following information for this product:

- 1. Single chamber (106) or (206)
- 2. Pilot range





# **Schematic Drawing**

- 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 43 Float Pilot c/w SST float, 1.2 m SST rod

TABLE 1 Singer F-TYPE 5 106 / 206-F-TYPE 5 Non Modulating Float Valve (See 106-PG and 206-PG main valve section for other valve data)

Size (mm)	106-PR-R			206 PR-R		
	Min (L/s) Flat Diaphragm	Min (L/s) Rolling Diaphragm	Maximum Continuous (L/s)	Min (L/s) Flat Diaphragm	Min (L/s) Rolling Diaphragm	Maximum Continuous (L/s)
15mm	0.1	-	0.8	-	-	-
19mm	0.1	-	1	-	-	_
25mm	0.1	-	3	-	-	-
32mm	0.1	-	6	-	-	_
40mm	0.1	-	8	-	-	-
50mm	0.3	-	13	-	-	_
65mm	0.3	-	19	-	-	_
80mm	0.3	-	29	0.3	-	19
100mm	0.6	-	50	0.3	-	37
150mm	1.3	0.1	114	0.6	-	65
200mm	2.5	0.1	196	1.3	-	145
250mm	-	0.2	309	2.5	-	260
300mm	-	0.2	442	-	0.2	404
350mm	-	0.2	536	-	-	_
400mm	-	0.2	694	-	0.2	1040
450mm	-	-	-	-	0.2	1040
500mm	-	0.6	1104	-	0.2	1040
600mm	-	0.6	1628	-	-	_
600 x 400mm	-	-	-	-	0.2	1040
600 x 500mm	-	-	-	-	0.2	1370
700mm	-	-	-	-	0.6	2120
750mm	-	-	-	-	0.6	2123
800mm	-	-	-	-	0.6	2126
900mm	-	1.3	3500	-	0.6	2132
1000mm	-	-	-	-	1.3	3500
1200mm	-	-	-	-	1.3	3500

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