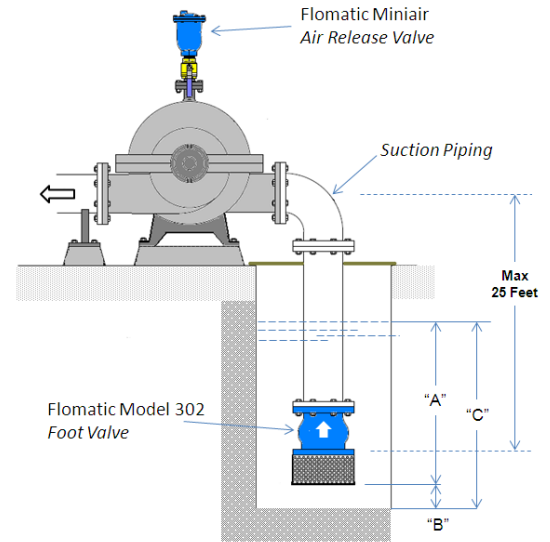


FLOMATIC Model 302 Foot Valve Installation

Foot Valve installations are sometimes overlooked and misunderstood. Most important, the foot valve shall be installed a maximum of 25 feet vertical distance below the suction pipe of the pump inlet. Flomatic recommends for vertical installation of Foot Valve Model 302 the design flow velocity at 5.5 Feet/sec or below for best hydraulic efficiencies. Also, installed with an intake screen submergence (see "A") according to the chart below (based on ANSI/HI 9.8-1998). It is important the foot valve have a bottom intake screen clearance (see "B") and is not supported by the intake screen. The pumps performance is dependent on hydraulic conditions that exist at the pump intake. The proper installation of a Foot Valve will minimize the following conditions:

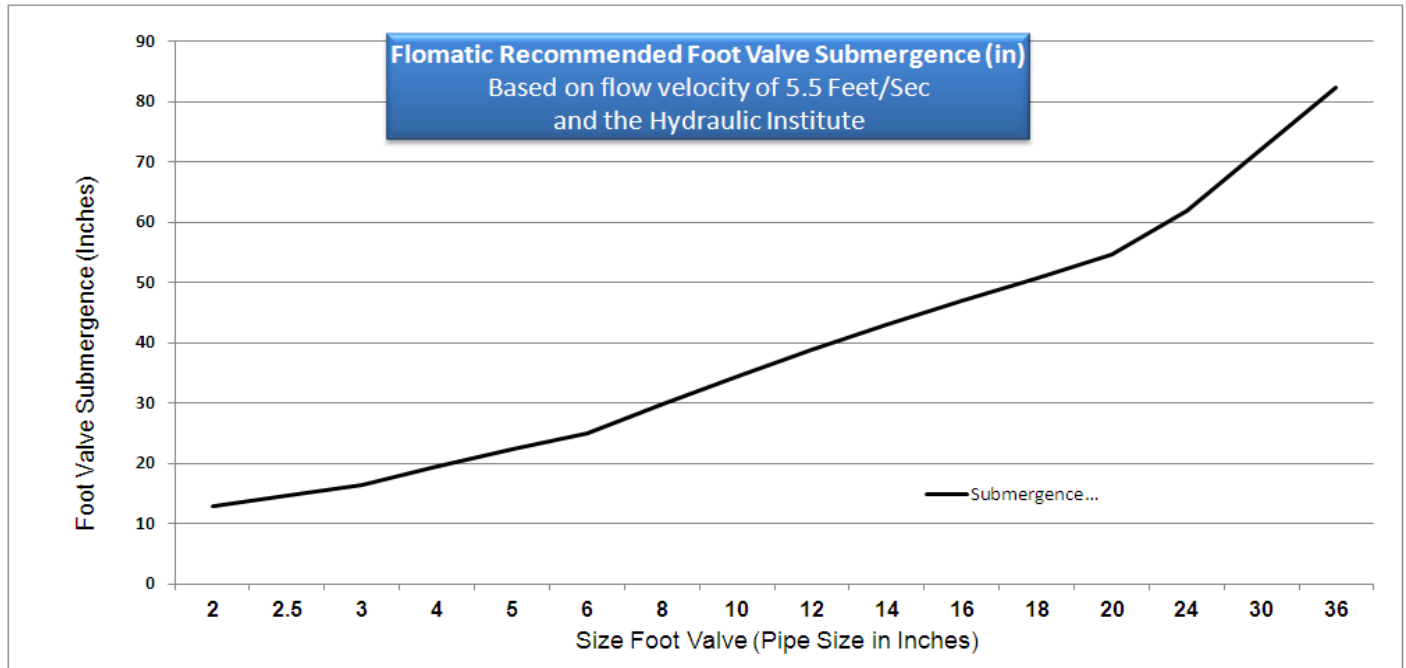
- Excessive swirling in the pump intake piping
- Air entrainment in the pumped flow
- Inadequate or poor NPSHA at the pump inlet
- Pump Cavitation and pipe system vibration that can result in costly repairs



Flomatic Foot Valve Submergence Recommendations

Based on a Pipe Velocity of: **5.5 Feet/Sec**

Pipe Dia.:	2	2.5	3	4	5	6	8	10	12	14	16	18	20	24	30	36
Flow (GPM):	54	84	121	215	337	485	862	1,346	1,939	2,639	3,447	4,362	5,386	7,755	12,118	17,449
"A" Submergence (in)	13	15	16	19	22	25	30	34	39	43	47	51	55	62	72	82
"B" Distance (.75 * Dia)	2	2	2	3	4	5	6	8	9	11	12	14	15	18	23	27
"C" Total Depth (Inches)	14	17	19	22	26	29	36	42	48	53	59	64	70	80	95	109



NOTE: Make sure well or tank has been pumped clean and that the foot valve is free from defects prior to installation. If the suction pipe is not totally vertically consult factory for spring-loaded poppet mechanism or another Model.

If the installation instructions are not followed warranty or any warranty claims may be void.

