

AIR INJECTORS



MACHINED PVC AIR INJECTORS



Part Number: SM-EDUC-1-PVC

Connection Size: 1 inch FNPT

Part Number: SM-EDUC-1BSPT-PVC

Connection Size: 1 inch BSPT

Materials of Construction: PVC, Brass, SS316, Talc-filled PP with Buna Seals and Teflon Tape

Flow Range: 0 to 15 gpm

SWT Machined PVC Air Injectors are easily installed inline before filter systems when the percentage of dissolved oxygen content may be too low for effective oxidation.

These injectors operate with service flow as low as 1½ gpm. They draw air by a venturi effect and inject it into the water system. Rated working flows up to 15 gpm.

Machined from solid PVC, this injector is durable and resistant to chemicals, rust, and corrosion. The air injector has an adjustable bypass for fine adjustment of the air/volume ratio. The venturi and all other components are easily disassembled for cleaning.

INSTALLATION

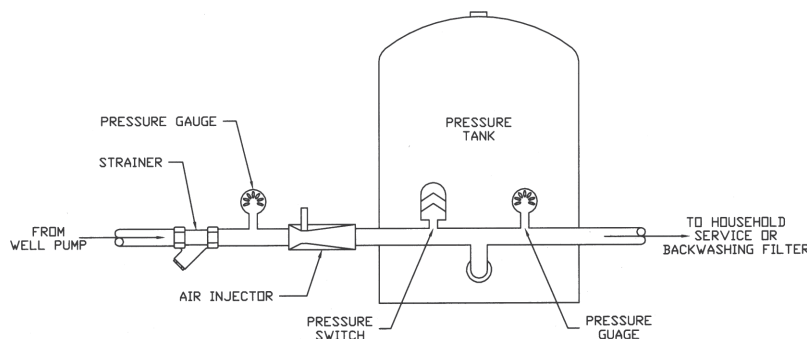


Table 1

Bypass Screw Position	Continuous Flow Pressure Range		
	40 to 20 psi	50 to 30 psi	60 to 40 psi
Approximate Flow Rate in US Gallons per Minute			
Closed (0 turns out)	2	2	2
1/4 Open (2.5 turns out)	4	4	4
1/2 Open (5 turns out)	8	9	9
3/4 Open (7.5 turns out)	11	12	12
Full Open (10 turns out)	15	16	16

1. Be sure the well pump has the capacity necessary for proper operation. 3 gpm, 60 psi are the minimum requirements for a draw of 1 cu.ft. of air per hour with a holding tank pressure of 30 psi.
2. Be sure to place the air injector before the pressure tank, (between the well pump and the pressure tank).
3. Set the pressure switch for at least a 20 psi differential between pump start and pump stop.
4. Adjust the bypass screw so that the unit draws air for the first one third of the pump cycle. Refer to Table 1.
5. Install a strainer ahead of the unit to prevent particles from lodging in the nozzle.
6. Install pressure gauges before and after air injector for adjusting and maintaining necessary pressures.