



TECHNICAL BULLETIN

No. 1 of 2018

Pitot Tubes for 2 1/2" and 3" Pool piping - Part Numbers

Part Description	Description	Qty	Part Number
Pitot Tube – 1 7/8"	3/4" (19 mm) sch 40 pipe, for 2 1/2" Pool Piping, 45° angle cut, 1 7/8" length from bottom of threads, (2 pack)	1	73141
Pitot Tube – 2 5/8"	3/4" (19 mm) NPT, for 3" Pool Piping, 45° angle cut, 2 5/8" length from bottom of threads, (2 pack)	1	73142

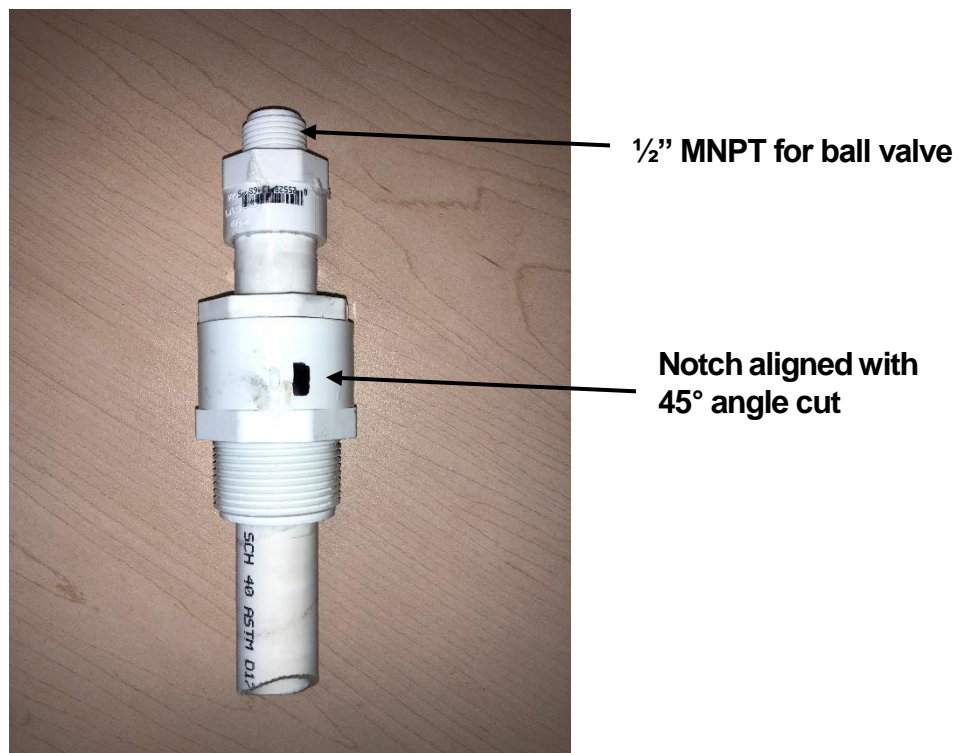
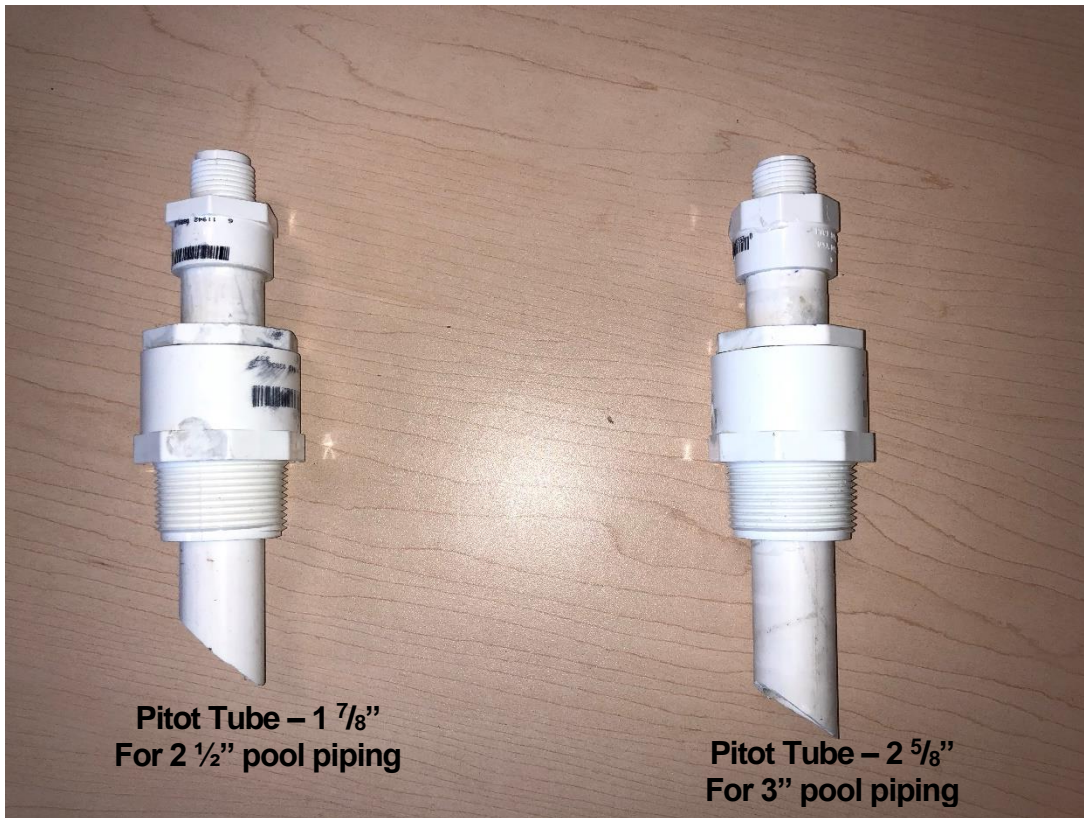
Background

As part of the design of the **Pulsar**® Infinity Feeder, pitot tubes help provide up to 2 times the flow rate increase with the same pressure differential. The increase in flow rate is needed to provide enough flow through the feeder to reach the maximum feed rate output established by the feed rate table, section 4.2.2, of the installation and operator's manual.

The pitot tubes listed in the parts of the manual are designed for 1 1/2" to 2" piping as that will accommodate the majority of pools in this market. For the remaining pools that have between 2 1/2" and 3" piping, design modifications to the pitot tubes were required to provide the same level of performance.

Pitot tube design for 2 1/2" and 3" Pool Pipe

The pitot tubes for 2 1/2" to 3" pool piping are shown in the pictures below. They have the same 45° angle cut similar to the smaller pitot tubes that come with the feeder system, but instead come with a threaded fastener that threads right into the pool pipe. No saddle clamps are needed making for a simple installation. Once the pitot tubes are installed, the isolation ball valves (part number 74061 from section 7.2 of the operator's manual) are used to complete the inlet and outlet connections of the feeder following section 3.4 in the manual.





Tools & Equipment Required for installation

- Drill – Cordless Recommended
- 1 ½" hole saw
- 1 ¼" pipe tap
- Gas Pliers (Channel Locks)
- Plumbers Tape or Pipe Sealant

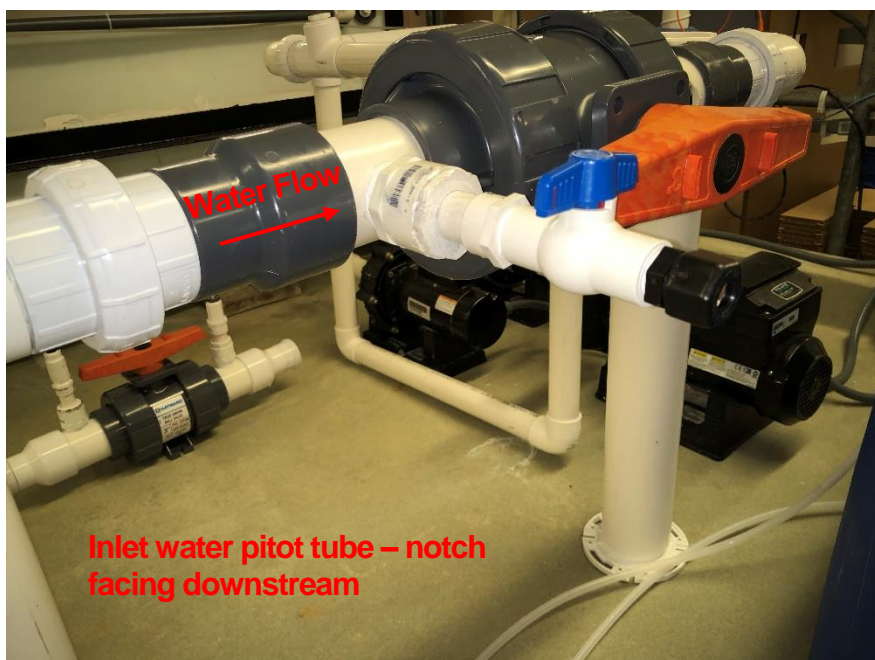
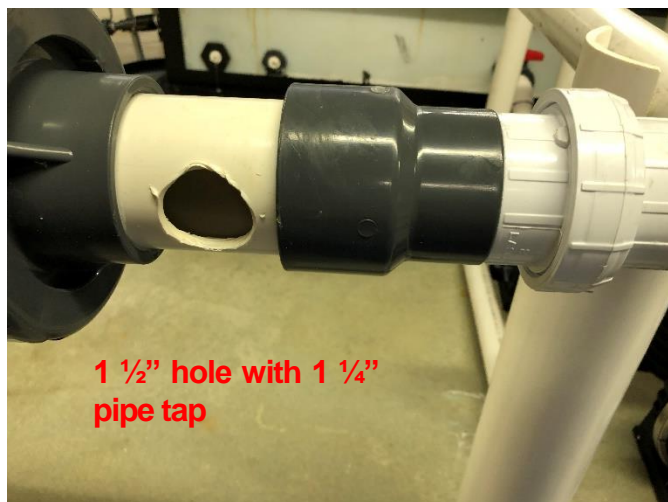
Installation Procedure

Go to section 3.4 of the manual and refer to the notes prior to starting the installation.

- To install the pitot tube that will make the inlet connection from the pool to the feeder, choose a location on the main pool recirculation piping on the discharge side of the pool pump but upstream of the pool filter(s).
- To install the pitot tube that will make the chlorine injection connection from the feeder to the pool piping, choose a location on the main pool recirculation piping downstream of the pool filter(s), and heater (if available), but before the acid or CO₂ injection point.

Make sure the pool pump is off and shut isolation valves from the pool piping so that it is dry.

1. Drill a 1 ½" (38.1 mm) hole anywhere on the top half of the pipe. **Caution: Do not drill on the bottom half of the pipe. Excess debris may enter your feeder.**
2. Use a 1 ¼" pipe tap and channel locks to tap threads in the hole
3. Select part 73141 for 2 ½" pool piping or part 73142 for 3" pool piping.
 - a. Apply plumbers tape to both exposed threads on the pitot tube
4. Thread the pitot tube as far into the pool pipe as possible preferably, until it touches the inside of the pipe and cannot rotate any further. Once the maximum depth has been reached, back out the pitot tube until the notch aligns with:
 - a. **Directly upstream of the pool pipe** for the inlet connection to the feeder
 - b. **Directly downstream of the pool pipe** for the chlorine injection connection from the feeder to the pool



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