

Pitot Tube Hydrant Flow Meter Kits

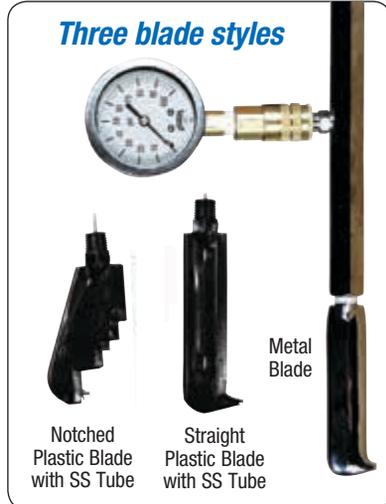
• Operator tested and recommended!

Our pitot flow test gauge features a chrome-plated hex brass body for a positive grip, even with one hand. The gauge is mounted with a brass quick-disconnect fitting. You can rotate it for easy reading; plus it allows quick removal for storage and for draining water from the body.

A small air chamber in the handle above the gauge port provides an extra measure of shock absorption to stabilize gauge movement. For operators who prefer to use the pitot tube without the air chamber, you can substitute a bleeder valve (included) for the threaded plug in the top of the handle to allow purging of the air under pressure.

Three styles of pitot blades are available

Choose from straight chrome-plated metal, straight plastic with integral stainless steel tube, and a notched plastic blade. The plastic blades are injection molded around a stainless steel water flow tube and are 33% narrower than metal blades to reduce turbulence and splashing. The notched plastic blade with integral SS tube allows for easy center placement of the pickup orifice on the hydrant nozzle. All are interchangeable and replaceable on-site, should damage occur.



Optional flow nozzle standardizes hydrants and eliminates guesswork

Where a wide variety of hydrants exist, flow coefficients may vary due to different hydrant nozzle configurations (butts). To eliminate guesswork and adjustment calculations, our optional hydrant flow nozzle standardizes hydrants to a 0.88 coefficient. This chrome-plated brass nozzle has a smooth bore 2 1/4" ID tube and comes with a 2 1/2" NST(F) connection fitting. A decal on the body shows gpm of flow for pitot readings between 10 to 56 psi. If you need to direct the flow of water from the nozzle to avoid damaging property, a 45° brass swivel elbow with NST M x F connections is available for mounting between the hydrant and the flow nozzle.

Choose from an assortment of kits

Our pitot tubes are available with your choice of either a single metal blade or the two types of plastic blades, and a choice of 100 psi or 160 psi gauges. All are packaged in a foam-lined molded plastic case.



Pitot Tube Flow Meter Kit 44740

Kit Includes:

- Pitot tube with quick-disconnect gauge fitting and bleeder valve
- Pitot blade (either metal or straight and notched plastic)
- 2 1/2" liquid-filled gauge with SS case (± 1.6 full scale accuracy)
- Hard carrying case

Pitot Tube Flow Meter Kits

GAUGE PSI	BLADE(S)	STOCK #	EACH
100	Metal	44740	\$
100	Straight and Notched Plastic (2)	44743	
160	Metal	44741	
160	Straight and Notched Plastic (2)	44744	

Replacement Items & Accessories

DESCRIPTION	STOCK #	EACH
Optional Flow Nozzle, 2 1/2" NST	44742	\$
Bleeder Valve, 1/4" NPT	88184	
Metal Blade, Straight	44746	
Plastic Blade, Straight	44747	
Plastic Blade, Notched	44748	
100 psi Gauge	44749	
160 psi Gauge	44750	
200 psi Gauge	44751	
Brass Swivel Elbow, 2 1/2" NST	44745	



Pitot Tube PLUS Flow Meter Kits

This kit contains the same pitot tube as our standard kit above, but also includes a hydrant adapter fitting for static pressure testing, two gauges (100 psi and 160 psi) and three blades (one metal, one straight plastic and one notched plastic). The pitot tube and hydrant adapter assembly have quick-disconnect fittings so you can easily disassemble them for storage in the included case. Case is lockable with a padlock (sold separately).

GAUGE PSI	BLADE(S)	STOCK #	EACH
100 and 160	Metal, Straight and Notched Plastic (3)	44754	\$

Discharge Coefficient

Discharge coefficients are applied to the values for theoretically perfect flows from circular orifices under a given amount of pressure. In hydrant nozzles, the amount of water actually being discharged at a given pitot pressure at the center of the nozzle can vary due to turbulence caused by the 90° inlet to the nozzle and the shape of the internal entrance to the nozzle.

operator notes

Three general types of hydrant outlets and their coefficients of discharge.

