



PITOTLESS NOZZLE™

USER GUIDE

Threaded

Item#: PN2THD, PN1.75THD, PN1.125THD, PN1THD

OVERVIEW

Use the Pitotless Nozzle to measure the water flow-rate while conducting fire pump tests or fire flow tests on hydrants. The Pitotless Nozzle Threaded is designed for use with the 2 ½" Hose Monster Model II (HM2H), the 2 ½" Hose Monster Flusher (HM2HF) or attached directly to a hydrant or test header valve discharging into open atmosphere. Note: If you intend to use the Pitotless Nozzle with the Little Hose Monster (HML), then a Pitotless Nozzle Grooved (PN#GRV) is required.

COMPONENTS

The gauge connection on the Pitotless Nozzle is a factory-installed quick-disconnect male plug. Do not remove this fitting from the Pitotless Nozzle body. One female counterpart is included and additional ones can be purchased separately. Attach the female quick-disconnect coupling directly to the gauge or remote reader adapter and use the quick disconnect feature to easily attach and remove the gauge. We recommend a gauge with an accuracy rating of ½% or better and either 0-60 psi or 0-100 psi.



SETUP

Using the Pitotless Nozzle with the 2 ½" Hose Monster® Model II or the 2 ½" Hose Monster Flusher

Insert the male outlet end of the Pitotless Nozzle into the swivel coupling of the 2 ½" Hose Monster Model II (HM2H) or the 2 ½" Hose Monster Flusher (HM2HF). Hand-tighten plus about a quarter turn using a common rocker lug spanner wrench on the swivel coupling and a hole-type spanner wrench (Item#: WSPA104) for a holdback. Attach the male end of a hose into the inlet of the Pitotless Nozzle. Hand-tighten plus about a quarter turn using spanner wrenches. Note: A pitot or flow splitter should be installed in the 2 ½" Hose Monster or the 2 ½" Hose Monster Flusher for accurate readings. The pitot or flow splitter helps diffuse the discharge water.



Using the Pitotless Nozzle on a Hydrant Nozzle or Test Header Valve (Open Atmosphere)

Secure the female swivel coupling of the Pitotless Nozzle to a Nozzle Extension (Item#:NE2HNNH11WF) connected directly to the hydrant nozzle or test header valve. A Nozzle Extension is recommended because it eliminates the possibility of the gauge pulling a suction caused by water turbulence at the valve. The Pitotless Nozzle outlet points in the direction the water will flow. Clear water discharge path for safety of people and property.



FLOW CHARTS

The Pitotless Nozzle Threaded flow charts must be used to determine discharge flow rate. The use of flow charts of a different device or size will result in incorrect readings. Within the flow chart is a column for “2 ½” Hose Monster Model II” and for “Open Atmosphere”. Use the “2 ½” Hose Monster Model II” flows if the outlet end of the Pitotless Nozzle is attached to a 2 ½” Hose Monster Model II. Use the “Open Atmosphere” flows if the Pitotless Nozzle is attached directly on a hydrant or test header valve discharging out into the open. Flow charts are provided with the Pitotless Nozzle and additional copies are available at www.HoseMonster.com/literature.html

MAINTENANCE

- Wipe down the product with a damp cloth after each use to remove dirt and debris. To reduce corrosion on brass, aluminum, or steel fittings apply WD-40 or Gibbs Brand Lubricant, then wipe with a cloth.
- Replace damaged or worn gaskets.

SAFETY AND HANDLING



DO NOT ATTACH THE PITOTLESS NOZZLE TO THE END OF A HOSE UNLESS THE HOSE MONSTER IS ATTACHED TO IT OR UNLESS IT IS PERMANENTLY SECURED.

ALL CONNECTIONS IN THIS ASSEMBLY MUST BE ATTACHED SECURELY. DIRECT WATER DISCHARGE AWAY FROM ANY PEOPLE OR PROPERTY THAT MAY BE AFFECTED. THE USE OF THIS PRODUCT INVOLVES HEAVY WATER FLOW WHICH CAN RESULT IN SERIOUS INJURY OR DEATH IF USED IMPROPERLY. THE MANUFACTURER AND ITS DISTRIBUTORS ARE NOT RESPONSIBLE FOR ANY DAMAGE OR INJURY CAUSED BY THE USE OF THIS PRODUCT. PRODUCTS THAT HAVE BEEN ALTERED OR MODIFIED IN ANY WAY POSE A SAFETY RISK AND WILL VOID THE MANUFACTURER’S WARRANTY.



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