



HYDRO FLOW PRODUCTS, INC.

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BIGBOY HOSE MONSTER™

Pitotless Nozzle US Patent 6,874,375

USER GUIDE

Item#: HMBB4

OVERVIEW

The BigBoy Hose Monster™ is used for fire flow testing of hydrants, water main flushing, and fire pump testing. It should be flowed from a 4" or larger test connection. The BigBoy Hose Monster incorporates the patented Pitotless Nozzle™ so rocks and flushing debris pass through without causing pitot damage. It is FM Approved and measures water flow-rates from 750 to 2,700 GPM. The BigBoy Hose Monster body is made from Polypropylene and the Pitotless Nozzle is made from hard coat anodized precision machined Aluminum. The unit weighs only 13 pounds.

COMPONENTS

- BigBoy Hose Monster Body
- BigBoy Pitotless Nozzle™ 4" (built-in)
- BigBoy GPM Gauge



SET-UP INSTRUCTIONS

- 1) Connect the gauge to the BigBoy Hose Monster. The BigBoy GPM Gauge can be attached directly to the BigBoy Hose Monster or connected by use of our Remote Readers (sold separately). The gauge comes with all the necessary fittings. Apply pipe thread tape to the gauge threads to ensure a water-tight seal when installing the fittings. A separate set of instructions are included with the gauge.
- 2) Attach the hydrant gate valve to hydrant if applicable. Tighten with spanner wrench.
- 3) Attach the hose to the BigBoy Hose Monster and the water source. Tighten with spanner wrench.

OPERATIONAL USE

Before Water Flow

- 4) Place the BigBoy Hose Monster in a location with sufficient drainage that allows safe water discharge.
- 5) Check hose connections and tighten as needed.
- 6) Check water discharge path for safety of people and property.

Start Water Flow Slowly

- 7) Slowly open the valve to start the water flow. Remove any kinks that may appear in the hose.
- 8) Record the flow-rate reading directly from the BigBoy GPM Gauge.

When Operation is Complete

- 9) Slowly close the water control valve. Rapid closing of a valve under flow can create severe water hammer and cause damage to water mains.

TAKING FLOW READINGS

The BigBoy GPM Gauge is calibrated to read flow-rate directly from the gauge face so that no flow chart is required. If you use a different pressure gauge, then refer to the BigBoy Flow Chart to convert from pressure to flow. A 0-60 psi gauge with a ½ % accuracy rating would be suitable. A Big Boy flow chart is provided with the original purchase and additional copies are available at <http://www.hosemonster.com/literature.html>

PRODUCT MAINTENANCE

- **BigBoy Hose Monster:** Hose off excess dirt and debris from the BigBoy Hose Monster as needed. Inspect the 4" swivel coupling. Verify that it rotates freely, gaskets are in place, and that there is no corrosion. If any nut/bolt becomes loose, or if the product is damaged in any way, do NOT use. Contact Hydro Flow Products for repair.
- **Inspect Wear-Guards (Foot Clips):** Wear-Guards are stainless steel J-shaped brackets designed to protect the Polypropylene legs of the BigBoy from deterioration caused by frictional contact with pavement surfaces. Check for excessive wear or if any are bent or missing. Replacement Wear-Guards are available through us and are field serviceable by the user with common tools.
- **Gauges:** The BigBoy GPM Gauge, and any other pressure gauge, will need to be recalibrated from time to time. Calibration to NIST standard is available through Hydro Flow Products.
- **Gauge fittings:** Apply lubricant or oil appropriate for stainless steel or brass to prevent corrosion. We recommend WD-40 or Gibbs Brand Lubricant.

HOSE (SOLD SEPARATELY)

The BigBoy Hose Monster is intended to be used with a hose and should not be attached directly to a hydrant. The unit comes standard with a 4" NH (National Hose Thread) connection and can be flowed from a larger valve connection size by use of our reducing hose or adapters. We offer several hose options. Your hose choice will depend on: 1) the diameter of the water source connection, 2) the thread or connection type (NH, Storz, etc.), and 3) the hose length.

RECOMMENDED HOSE OPTIONS

1) For flowing from a 4-½" NH hydrant connection:

Item #: H45.10.4	HOSE 4-1/2" Female NH Swivel X 10' length X 4" Male NH Swivel
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2) For flowing from a 4" NH hydrant connection:

Item #: H4.10	HOSE 4" Female NH Swivel X 10' length X 4" Male NH Swivel
Item #: H4.5	HOSE 4" Female NH Swivel X 5' length X 4" Male NH Swivel

3) For flowing from a 5" Storz connection:

Item #: H55.10.4	HOSE 5" Storz X 10' length X 4" Male NH Swivel
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4) For Special Threads such as CSA, WCT, BCT, AMA, QST, BAT, BSP, etc.:

Adapters or Hose of various lengths and sizes are available through us. Please contact us with your specific requirements.

OPTIONAL ACCESSORIES (SOLD SEPARATELY)

Item #: HGV4 or HGV45	Hydrant Gate Valve. 4" or 4-1/2" NH. Enables greater control over water flow and reduces opportunities for water hammer when opening and closing hydrants.
Item #: GCSW	Gauge Cap for Static/Residual Pressure.
Item #: GK160D4 or GK200D4	Gauge for Static/Residual Pressure. 160 or 200 psi.
Item #: HMRR12	Remote Reader 12'. Enables gauge readings to be taken at a convenient distance from the discharge.

TIPS

When performing the fire flow testing of hydrants, be sure to record and take into account the static pressure and residual pressure in order to get accurate information on the water supply available.

For more information on the fire flow testing of hydrants, we recommend the publications: *NFPA 291* by the National Fire Protection Association, *AWWA Manual 17* by the American Water Works Association, or the Fire Flow Testing section of Hydro Flow Products' catalog.



SAFETY AND HANDLING

CAUTION: ALL CONNECTIONS IN THIS ASSEMBLY MUST BE ATTACHED SECURELY. THE UNIT MUST BE USED WITH A HOSE AND NOT ATTACHED DIRECTLY TO A FIRE HYDRANT. 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. DO NOT DISASSEMBLE ANY PART OF THE BIGBOY HOSE MONSTER. DO NOT ATTEMPT TO LOOSEN OR REMOVE NUTS/BOLTS. DO NOT ATTEMPT TO REMOVE THE PITOTLESS NOZZLE. THE PITOTLESS NOZZLE WAS FACTORY INSTALLED IN A PERMANENT WAY.



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