



1 3/4" PITOTLESS NOZZLE™

PN1.75THD

FLOW CHART

10 - 50 PSI			51 - 90 PSI		
2 1/2" Hose Monster Model II			2 1/2" Hose Monster Model II		
Open Atmosphere			Open Atmosphere		
PSI	LPM	LPM	PSI	LPM	LPM
10	1276	1313	51	2881	2965
11	1338	1377	52	2910	2994
12	1398	1438	53	2937	3023
13	1455	1497	54	2965	3051
14	1510	1554	55	2992	3079
15	1563	1608	56	3019	3107
16	1614	1661	57	3046	3135
17	1664	1712	58	3073	3162
18	1712	1762	59	3099	3189
19	1759	1810	60	3125	3216
20	1804	1857	61	3151	3243
21	1849	1903	62	3177	3269
22	1892	1948	63	3203	3296
23	1935	1991	64	3228	3322
24	1977	2034	65	3253	3348
25	2017	2076	66	3278	3373
26	2057	2117	67	3303	3399
27	2097	2158	68	3327	3424
28	2135	2197	69	3352	3449
29	2173	2236	70	3376	3474
30	2210	2274	71	3400	3499
31	2246	2312	72	3424	3523
32	2282	2349	73	3447	3548
33	2318	2385	74	3471	3572
34	2353	2421	75	3494	3596
35	2387	2456	76	3517	3620
36	2421	2491	77	3541	3643
37	2454	2526	78	3563	3667
38	2487	2560	79	3586	3691
39	2520	2593	80	3609	3714
40	2552	2626	81	3631	3737
41	2584	2659	82	3654	3760
42	2615	2691	83	3676	3783
43	2646	2723	84	3698	3806
44	2676	2754	85	3720	3828
45	2707	2785	86	3742	3851
46	2737	2816	87	3763	3873
47	2766	2847	88	3785	3895
48	2795	2877	89	3806	3917
49	2824	2907	90	3828	3939
50	2853	2936			

The readings on this chart are based on which device the Pitotless Nozzle is connected to.

It is the user's responsibility to verify that the correct chart and column is being used.

• **2 1/2" Hose Monster Model II or Flusher with flow splitter (HM2H, HM2HF).** Use this column if the Pitotless Nozzle is connected to the 2 1/2" Hose Monster or Flusher. The built-in pitot or flow splitter must be installed for accuracy.

• **Open Atmosphere.** Use this column when the Pitotless Nozzle is connected directly to a test header or hydrant flowing openly to atmosphere.

This chart is FM Approved for flow rate accuracy. Please call us or instruct the Authority Having Jurisdiction to call us if there are any questions. Additional copies of flow charts are available at: www.hosemonster.com





Pitotless Nozzle™ Threaded

INSTRUCTIONS

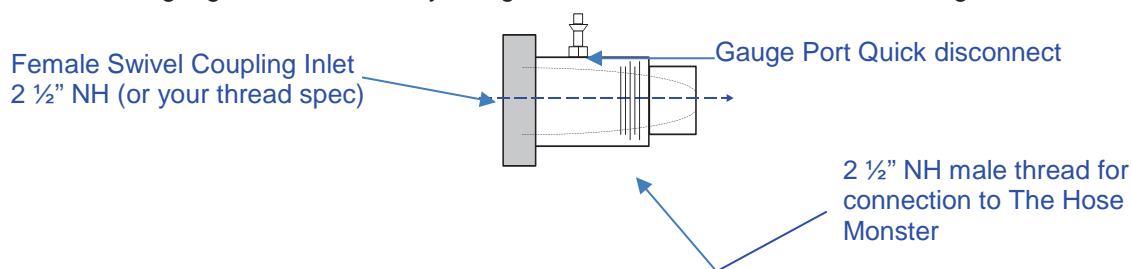
US Patent 6,874,375

The Pitotless Nozzle Threaded (PN#THD) must be used with the 2 ½" Hose Monster Model II (HM2H, 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. Do not use the Pitotless Nozzle Threaded (PN#THD) with the Little Hose Monster. Call us if you are considering a configuration not listed here.*

SETUP

The gauge connection on the Pitotless Nozzle is a factory-installed male end of a quick disconnect coupling. One female counterpart is included and additional ones can be purchased separately. Attach the female end of the quick disconnect coupling directly to the gauge or remote reader adapter and use the quick disconnect feature to attach and remove. Do not remove the male quick disconnect from the Pitotless Nozzle as it will damage the threads on the Pitotless Nozzle.

We recommend a gauge with an accuracy rating of ½% or better and of a suitable range.



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

Insert the male outlet end of the Pitotless Nozzle into the swivel coupling of the Hose Monster. Hand-tighten plus about a quarter turn using a common rocker lug spanner wrench on the swivel coupling and a hole type spanner wrench (WSPA104) for a holdback. Attach the male end of a hose into the swivel coupling on the Pitotless Nozzle, hand-tighten plus about a quarter turn using spanner wrenches. The pitot/flow splitter must be installed on either unit in order to collect accurate flow rates. Make sure the hose lays flat and is not twisted.

If using the Pitotless Nozzle without the Hose Monster

The Pitotless Nozzle must be attached securely to a pump test header valve or hydrant. Secure the female swivel coupling of the Pitotless Nozzle directly to a hydrant nozzle or test header valve. The Pitotless Nozzle points in the direction the water will flow. Clear water discharge path.

Flow Charts

Pitotless Nozzle 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 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 on our website at www.HoseMonster.com/literature.html

WARNING:

- **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.
- **Do not** attach a hose to the male outlet end of the Pitotless Nozzle under any circumstance. The resulting backpressure will distort flow rate measurement.
- **Do not** remove the quick disconnect gauge port fitting. The aluminum threads will be damaged. Contact Hydro Flow Products directly for any repairs.



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