



1 3/4"

PITOTLESS NOZZLE™

PN1.75THD

FLOW CHART

2 1/2" Hose Monster Model II			Open Atmosphere			2 1/2" Hose Monster Model II			Open Atmosphere		
PSI	GPM	GPM		PSI	GPM	GPM		PSI	GPM	GPM	
5.2		250		45	715	736		45	715	736	
5.5	250			46	723	744		46	723	744	
10	337	347		47	731	752		47	731	752	
11	354	364		48	739	760		48	739	760	
12	369	380		49	746	768		49	746	768	
13	384	396		50	754	776		50	754	776	
14	399	410		51	761	783		51	761	783	
15	413	425		52	769	791		52	769	791	
16	426	439		53	776	799		53	776	799	
17	440	452		54	783	806		54	783	806	
18	452	465		55	791	814		55	791	814	
19	465	478		56	798	821		56	798	821	
20	477	491		57	805	828		57	805	828	
21	489	503		58	812	835		58	812	835	
22	500	515		59	819	843		59	819	843	
23	511	526		60	826	850		60	826	850	
24	522	537		61	833	857		61	833	857	
25	533	549		62	839	864		62	839	864	
26	544	559		63	846	871		63	846	871	
27	554	570		64	853	878		64	853	878	
28	564	580		65	859	884		65	859	884	
29	574	591		66	866	891		66	866	891	
30	584	601		67	873	898		67	873	898	
31	594	611		68	879	905		68	879	905	
32	603	621		69	885	911		69	885	911	
33	612	630		70	892	918		70	892	918	
34	622	640		71	898	924		71	898	924	
35	631	649		72	905	931		72	905	931	
36	640	658		73	911	937		73	911	937	
37	648	667		74	917	944		74	917	944	
38	657	676		75	923	950		75	923	950	
39	666	685		76	929	956		76	929	956	
40	674	694		77	935	963		77	935	963	
41	683	702		78	941	969		78	941	969	
42	691	711		79	947	975		79	947	975	
43	699	719		80	953	981		80	953	981	
44	707	728									

This device is FM Approved

The pressure vs. flow rate data developed within this flow chart is based on the average K-factor measured during laboratory testing. This data has been determined to be within the acceptable limitations for accuracy.

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.

Additional copies of flow charts are available at:
www.hosemonster.com



Special flow rate point determined to be within the acceptable limitations of accuracy.





Pitotless Nozzle™ Threaded

INSTRUCTIONS

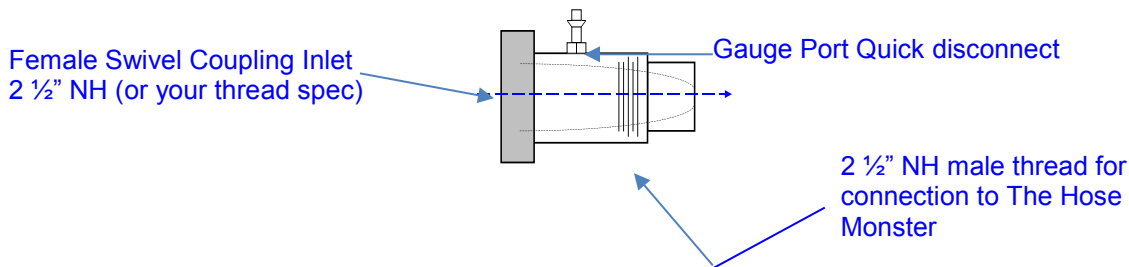
US Patent 6,874,375

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

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 The Hose Monster Company directly for any repairs.



HOSE MONSTER
COMPANY™

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