



1" PITOTLESS NOZZLE™

PN1THD FLOW CHART



3 - 46 PSI			47 - 90 PSI		
2½" Hose Monster Model II			2½" Hose Monster Model II		
Open Atmosphere			Open Atmosphere		
PSI	LPM	LPM	PSI	LPM	LPM
3	181	182	47	716	719
4	209	210	48	724	726
5	234	234	49	731	734
6	256	257	50	739	741
7	276	277	51	746	749
8	295	297	52	753	756
9	313	315	53	761	763
10	330	332	54	768	770
11	346	348	55	775	778
12	362	363	56	782	785
13	377	378	57	789	792
14	391	392	58	796	798
15	405	406	59	802	805
16	418	419	60	809	812
17	431	432	61	816	819
18	443	445	62	823	826
19	455	457	63	829	832
20	467	469	64	836	839
21	479	480	65	842	845
22	490	492	66	849	852
23	501	503	67	855	858
24	512	514	68	861	865
25	522	524	69	868	871
26	533	535	70	874	877
27	543	545	71	880	883
28	553	555	72	886	890
29	563	565	73	893	896
30	572	574	74	899	902
31	582	584	75	905	908
32	591	593	76	911	914
33	600	602	77	917	920
34	609	611	78	923	926
35	618	620	79	929	932
36	627	629	80	934	938
37	635	638	81	940	944
38	644	646	82	946	949
39	652	655	83	952	955
40	661	663	84	957	961
41	669	671	85	963	967
42	677	679	86	969	972
43	685	688	87	974	978
44	693	695	88	980	984
45	701	703	89	986	989
46	709	711	90	991	995

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 ½" Hose Monster Model II or Flusher with flow splitter (HM2H, HM2HF).** Use this column if the Pitotless Nozzle is connected to the 2 ½" 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

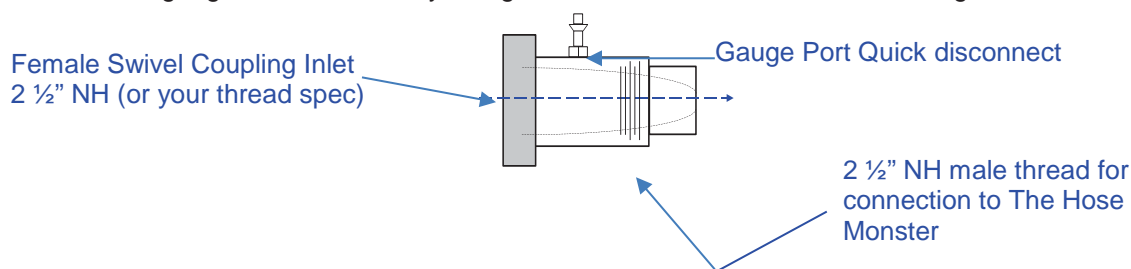
US Patent 6,874,375

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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