



1 1/8" PITOTLESS NOZZLE™



PN1.125THD FLOW CHART

5 - 47 PSI 2 1/2" Hose Monster Model II Open Atmosphere			48 - 90 PSI 2 1/2" Hose Monster Model II Open Atmosphere			Key Flow Test Points 2 1/2" Hose Monster Model II Open Atmosphere		
PSI	GPM	GPM	PSI	GPM	GPM	GPM	PSI	PSI
5	84	83	48	259	256	125	11.2	11.4
6	92	91	49	262	259	250	44.7	45.7
7	99	98	50	264	262			
8	106	105	51	267	264			
9	112	111	52	270	267			
10	118	117	53	272	269			
11	124	123	54	275	272			
12	130	128	55	277	274			
13	135	133	56	280	277			
14	140	138	57	282	279			
15	145	143	58	285	282			
16	150	148	59	287	284			
17	154	153	60	290	287			
18	159	157	61	292	289			
19	163	161	62	294	291			
20	167	165	63	297	294			
21	171	170	64	299	296			
22	175	174	65	302	298			
23	179	177	66	304	301			
24	183	181	67	306	303			
25	187	185	68	308	305			
26	191	189	69	311	307			
27	194	192	70	313	310			
28	198	196	71	315	312			
29	201	199	72	317	314			
30	205	203	73	320	316			
31	208	206	74	322	318			
32	212	209	75	324	320			
33	215	213	76	326	323			
34	218	216	77	328	325			
35	221	219	78	330	327			
36	224	222	79	332	329			
37	227	225	80	335	331			
38	231	228	81	337	333			
39	234	231	82	339	335			
40	237	234	83	341	337			
41	239	237	84	343	339			
42	242	240	85	345	341			
43	245	243	86	347	343			
44	248	245	87	349	345			
45	251	248	88	351	347			
46	254	251	89	353	349			
47	256	254	90	355	351			

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

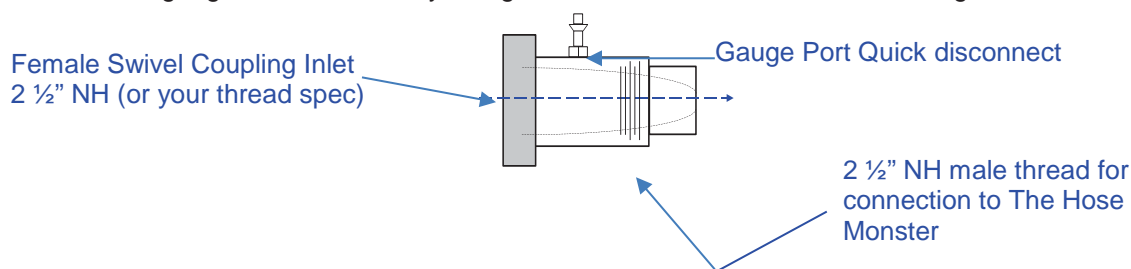
US Patent 6,874,375

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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