



1" PITOTLESS NOZZLE™



PN1THD FLOW CHART

3 - 46 PSI			47 - 90 PSI			Key Flow Test Points		
2½" Hose Monster Model II			2½" Hose Monster Model II			2½" Hose Monster Model II		
Open Atmosphere			Open Atmosphere			Open Atmosphere		
PSI	GPM	GPM	PSI	GPM	GPM	GPM	PSI	PSI
3	48	48	47	189	190	125	20.5	20.4
4	55	55	48	191	192	250	82.0	81.5
5	62	62	49	193	194			
6	68	68	50	195	196			
7	73	73	51	197	198			
8	78	78	52	199	200			
9	83	83	53	201	202			
10	87	88	54	203	204			
11	92	92	55	205	205			
12	96	96	56	207	207			
13	100	100	57	208	209			
14	103	104	58	210	211			
15	107	107	59	212	213			
16	110	111	60	214	215			
17	114	114	61	216	216			
18	117	118	62	217	218			
19	120	121	63	219	220			
20	123	124	64	221	222			
21	126	127	65	223	223			
22	129	130	66	224	225			
23	132	133	67	226	227			
24	135	136	68	228	228			
25	138	139	69	229	230			
26	141	141	70	231	232			
27	143	144	71	233	233			
28	146	147	72	234	235			
29	149	149	73	236	237			
30	151	152	74	237	238			
31	154	154	75	239	240			
32	156	157	76	241	241			
33	159	159	77	242	243			
34	161	162	78	244	245			
35	163	164	79	245	246			
36	166	166	80	247	248			
37	168	168	81	248	249			
38	170	171	82	250	251			
39	172	173	83	251	252			
40	175	175	84	253	254			
41	177	177	85	254	255			
42	179	180	86	256	257			
43	181	182	87	257	258			
44	183	184	88	259	260			
45	185	186	89	260	261			
46	187	188	90	262	263			

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

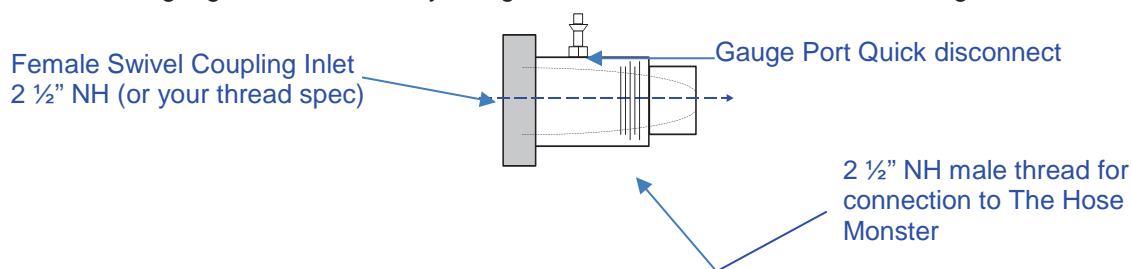
US Patent 6,874,375

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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COMPANY™

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