



1 1/8"

PITOTLESS NOZZLE™

PN1.125THD

FLOW CHART

5 - 47 PSI			48 - 90 PSI		
PSI	LPM	LPM	PSI	LPM	LPM
2 1/2" Hose Monster Model II			2 1/2" Hose Monster Model II		
Open Atmosphere			Open Atmosphere		
5	317	313	48	981	970
6	347	343	49	991	980
7	375	371	50	1001	990
8	400	396	51	1011	1000
9	425	420	52	1021	1010
10	448	443	53	1031	1020
11	469	464	54	1040	1029
12	490	485	55	1050	1039
13	510	505	56	1059	1048
14	530	524	57	1069	1057
15	548	542	58	1078	1067
16	566	560	59	1087	1076
17	584	577	60	1097	1085
18	601	594	61	1106	1094
19	617	610	62	1115	1103
20	633	626	63	1124	1112
21	649	642	64	1132	1120
22	664	657	65	1141	1129
23	679	672	66	1150	1138
24	693	686	67	1159	1146
25	708	700	68	1167	1155
26	722	714	69	1176	1163
27	736	728	70	1184	1172
28	749	741	71	1193	1180
29	762	754	72	1201	1188
30	775	767	73	1209	1197
31	788	780	74	1218	1205
32	801	792	75	1226	1213
33	813	804	76	1234	1221
34	825	817	77	1242	1229
35	837	829	78	1250	1237
36	849	840	79	1258	1245
37	861	852	80	1266	1253
38	873	863	81	1274	1260
39	884	875	82	1282	1268
40	895	886	83	1290	1276
41	906	897	84	1297	1284
42	917	908	85	1305	1291
43	928	918	86	1313	1299
44	939	929	87	1320	1306
45	950	939	88	1328	1314
46	960	950	89	1335	1321
47	970	960	90	1343	1329

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 device is FM Approved. The data included in this chart has been examined and confirmed for 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

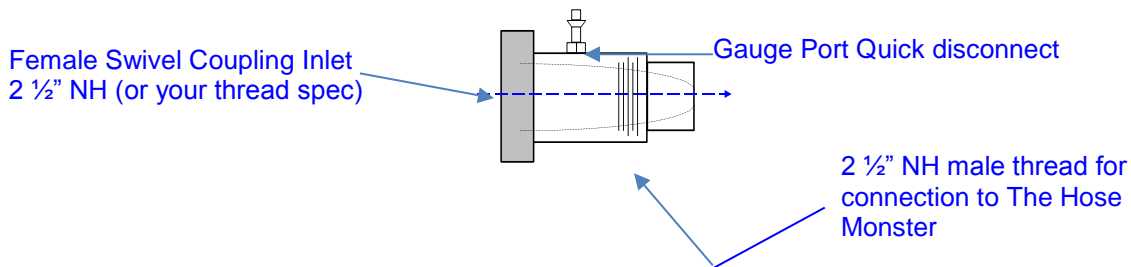
US Patent 6,874,375

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

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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