HOSE MONSTER COMPANY

1 ⅛” PITOTLESS NOZZLE®

PN1.125THD - LPM FLOW CHART

LPMFC-PN1125THD.2023.04.30.MA

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.

HM2H | 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.

OA | Open Atmosphere - Use this column when the Pitotless Nozzle® is connected directly to a test header or hydrant flowing openly to atmosphere.

GET THE MOST OUT OF YOUR HOSE MONSTER® HARDWARE

FIRE PUMP TESTING SOFTWARE

Professional-grade software that helps you work better! Keep your reports clean, your results accurate, and your process streamlined with Hose Monster’s FPT Software.

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	HM2H	OA
PSI	LPM	LPM
5	317	313
6	347	343
7	375	371
8	400	396
9	425	420
10	448	443
11	469	464
12	490	485
13	510	505
14	530	524
15	548	542
16	566	560
17	584	577
18	601	594
19	617	610
20	633	626
21	649	642
22	664	657
23	679	672
24	693	686
25	708	700
26	722	714
27	736	728
28	749	741
29	762	754
30	775	767
31	788	780
32	801	792

	HM2H	OA
PSI	LPM	LPM
33	813	804
34	825	817
35	837	829
36	849	840
37	861	852
38	873	863
39	884	875
40	895	886
41	906	897
42	917	908
43	928	918
44	939	929
45	950	939
46	960	950
47	970	960
48	981	970
49	991	980
50	1001	990
51	1011	1000
52	1021	1010
53	1031	1020
54	1040	1029
55	1050	1039
56	1059	1048
57	1069	1057
58	1078	1067
59	1087	1076
60	1097	1085

	HM2H	OA
PSI	LPM	LPM
61	1106	1094
62	1115	1103
63	1124	1112
64	1132	1120
65	1141	1129
66	1150	1138
67	1159	1146
68	1167	1155
69	1176	1163
70	1184	1172
71	1193	1180
72	1201	1188
73	1209	1197
74	1218	1205
75	1226	1213
76	1234	1221
77	1242	1229
78	1250	1237
79	1258	1245
80	1266	1253

(888) 202-9987 (847) 434-0073 service@hosemonster.com hosemonster.com

PITOTLESS NOZZLE®

THREADED INSTRUCTIONS

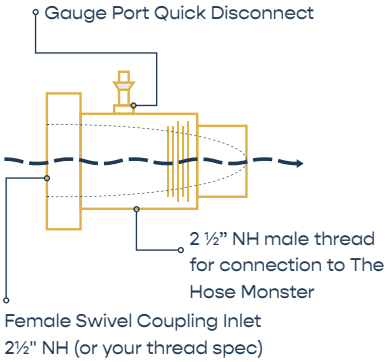
The Pitotless Nozzle® Threaded (PN#THD) must be used in conjunction with the 2 ½" Hose Monster® Model II (HM2H, HM2HF) or attached directly to a hydrant or test header valve discharging into open atmosphere.

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.

PITOTLESS NOZZLE® 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.



PITOTLESS NOZZLE® USE

WITH THE MODEL II, 2½" HOSE MONSTER® OR FLUSHER

Insert the male outlet of the Pitotless Nozzle® into the swivel coupling of the Hose Monster®. Hand-tighten plus about a quarter-turn using a rocker lug spanner wrench on the swivel coupling and a pin lug spanner wrench (WSPA104) for a holdback on the Pitotless Nozzle®. 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 remain on either unit in order to collect accurate flow rates. Make sure the hose lies flat and is not twisted.

ON A HYDRANT OR TEST HEADER VALVE

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.

WARNING

- **Do not** attach the Pitotless Nozzle® to the end of a hose unless the Hose Monster® is attached or it is **permanently** secured.
- **Do not** attach a hose to the male outlet end of the Pitotless Nozzle® **under any circumstance.** The backpressure will distort flow rate reading.
- **Do not** remove the gauge port quick disconnect fitting. The aluminum threads **will be damaged.** Contact Hose Monster® for any repairs.

	LHM	OA
PSI	GPM	GPM
10	533	282
11	559	295
12	584	308
13	608	321
14	631	333
15	653	345
16	675	356
17	695	367
18	716	378
19	735	388
20	754	398
21	773	408
22	791	418
23	809	427
24	826	436

	LHM	OA
PSI	GPM	GPM
41	1080	570
42	1093	577
43	1106	584
44	1119	591
45	1131	597
46	1144	604
47	1156	610
48	1169	617
49	1181	623
50	1193	630
51	1205	636
52	1216	642
53	1228	648
54	1239	654
55	1251	660

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 "Little Hose Monster™" and for "Open Atmosphere". Use the "Little Hose Monster™" flows if the Pitotless Nozzle® is attached to a Little Hose Monster™. 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**

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Find this as well as other product guides at: www.hosemonster.com/resources

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