FC-PN1THD.2018.09.21.MA

1" PITOTLESS NOZZLE™

PN1THD - GPM FLOW CHART

	HML	OA
PSI	GPM	GPM
3	48	48
4	55	55
5	62	62
6	68	68
7	73	73
8	78	78
9	83	83
10	87	88
11	92	92
12	96	96
13	100	100
14	103	104
15	107	107
16	110	111
17	114	114
18	117	118
19	120	121
20	123	124
21	126	127
22	129	130
23	132	133
24	135	136
25	138	139
26	141	141
27	143	144
28	146	147
29	149	149
30	151	152

	HML	OA
PSI	GPM	GPM
31	154	154
32	156	157
33	159	159
34	161	162
35	163	164
36	166	166
37	168	168
38	170	171
39	172	173
40	175	175
41	177	177
42	179	180
43	181	182
44	183	184
45	185	186
46	187	188
47	189	190
48	191	192
49	193	194
50	195	196
51	197	198
52	199	200
53	201	202
54	203	204
55	205	205
56	207	207
57	208	209
58	210	211

	HML	OA
PSI	GPM	GPM
59	212	213
60	214	215
61	216	216
62	217	218
63	219	220
64	221	222
65	223	223
66	224	225
67	226	227
68	228	228
69	229	230
70	231	232
71	233	233
72	234	235
73	236	237
74	237	238
75	239	240
76	241	241
77	242	243
78	244	245
79	245	246
80	247	248

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.

Find this flow chart and other resources at:
hosemonster.com/resources

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PITOTLESS NOZZLE™

THREADED INSTRUCTIONS

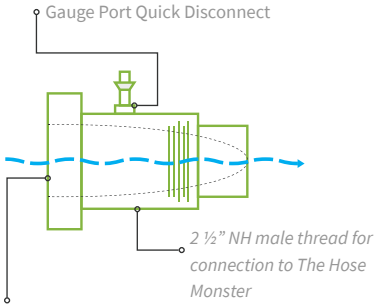
The Pitotless Nozzle™ Threaded (PN#THD) must be used in conjunction with the 2 ½" Hose Monster Model II (HM2H, HM2HF) or attached directly to a hydrant or test header valve discharging into open atmosphere.

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 LITTLE HOSE MONSTER™

Line up the Pitotless Nozzle outlet at the inlet of the Little Hose Monster with the gauge port rotated to 45° off either side of vertical. Push the Nozzle all the way in until the latch lever arms hook into the groove. Rotate the Nozzle right or left until the latch levers snap parallel to the body and the gauge port is in the desired position. The gauge port can be positioned so that a gauge can be viewed in a vertical position, or horizontal to the left or right side of the Little Hose Monster. Insert the locking pins all the way through the pinhole and latch-lever arm. When the Pitotless Nozzle is installed, securely attach a hose using a spanner wrench. Make sure the hose lays 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		LHM	OA
PSI	GPM	GPM	PSI	GPM	GPM
10	533	282	41	1080	570
11	559	295	42	1093	577
12	584	308	43	1106	584
13	608	321	44	1119	591
14	631	333	45	1131	597
15	653	345	46	1144	604
16	675	356	47	1156	610
17	695	367	48	1169	617
18	716	378	49	1181	623
19	735	388	50	1193	630
20	754	398	51	1205	636
21	773	408	52	1216	642
22	791	418	53	1228	648
23	809	427	54	1239	654

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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