



## 1" PITOTLESS NOZZLE®

### PN1THD - LPM FLOW CHART

LPMFC-PN1THD.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.

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	HML	OA
PSI	LPM	LPM
3	181	182
4	209	210
5	234	234
6	256	257
7	276	277
8	295	297
9	313	315
10	330	332
11	346	348
12	362	363
13	377	378
14	391	392
15	405	406
16	418	419
17	431	432
18	443	445
19	455	457
20	467	469
21	479	480
22	490	492
23	501	503
24	512	514
25	522	524
26	533	535
27	543	545
28	553	555
29	563	565

	HML	OA
PSI	LPM	LPM
30	572	574
31	582	584
32	591	593
33	600	602
34	609	611
35	618	620
36	627	629
37	635	638
38	644	646
39	652	655
40	661	663
41	669	671
42	677	679
43	685	688
44	693	695
45	701	703
46	709	711
47	716	719
48	724	726
49	731	734
50	739	741
51	746	749
52	753	756
53	761	763
54	768	770
55	775	778
56	782	785

	HML	OA
PSI	LPM	LPM
57	789	792
58	796	798
59	802	805
60	809	812
61	816	819
62	823	826
63	829	832
64	836	839
65	842	845
66	849	852
67	855	858
68	861	865
69	868	871
70	874	877
71	880	883
72	886	890
73	893	896
74	899	902
75	905	908
76	911	914
77	917	920
78	923	926
79	929	932
80	934	938

# 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

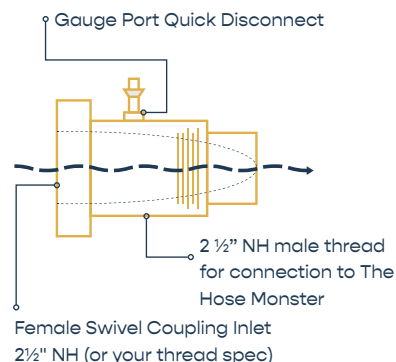
### WITH THE MODEL II, 2½" HOSE MONSTER® OR FLUSHER

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	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
24	826	436	55	1251	660
25	843	445	56	1262	666

## 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](http://www.hosemonster.com)



Find this as well as other product guides at: [www.hosemonster.com/resources](http://www.hosemonster.com/resources)