



LPMFC-PN1125THD.2018.07.17.MH

# 1 1/8" PITOTLESS NOZZLE™

## PN1.125THD - LPM FLOW CHART

### 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 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.

**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](http://hosemonster.com/resources)

### 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.

Learn more at: [www.hosemonster.com/fpts](http://www.hosemonster.com/fpts)

PSI	HM2H	OA	PSI	HM2H	OA	PSI	HM2H	OA
	LPM	LPM		LPM	LPM		LPM	
5	317	313	33	813	804	61	1106	1094
6	347	343	34	825	817	62	1115	1103
7	375	371	35	837	829	63	1124	1112
8	400	396	36	849	840	64	1132	1120
9	425	420	37	861	852	65	1141	1129
10	448	443	38	873	863	66	1150	1138
11	469	464	39	884	875	67	1159	1146
12	490	485	40	895	886	68	1167	1155
13	510	505	41	906	897	69	1176	1163
14	530	524	42	917	908	70	1184	1172
15	548	542	43	928	918	71	1193	1180
16	566	560	44	939	929	72	1201	1188
17	584	577	45	950	939	73	1209	1197
18	601	594	46	960	950	74	1218	1205
19	617	610	47	970	960	75	1226	1213
20	633	626	48	981	970	76	1234	1221
21	649	642	49	991	980	77	1242	1229
22	664	657	50	1001	990	78	1250	1237
23	679	672	51	1011	1000	79	1258	1245
24	693	686	52	1021	1010	80	1266	1253
25	708	700	53	1031	1020			
26	722	714	54	1040	1029			
27	736	728	55	1050	1039			
28	749	741	56	1059	1048			
29	762	754	57	1069	1057			
30	775	767	58	1078	1067			
31	788	780	59	1087	1076			
32	801	792	60	1097	1085			



**HOSE MONSTER**  
COMPANY

(888) 202-9987 (847) 434-0073 Service@FlowTest.com www.HoseMonster.com

MANUFACTURED BY THE HOSE MONSTER™ COMPANY

# 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.

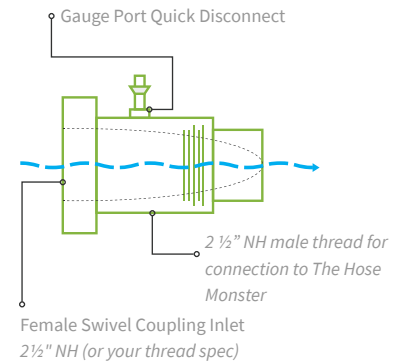
## PITOTLESS NOZZLE™ USE

### 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.

PSI	LHM		OA	PSI	LHM		OA
	GPM	GPM	GPM		GPM	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	827	436		55	1250	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](http://www.hosemonster.com)

