



LPMFC-PN175THD.2018.09.21.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 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)

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# 1 3/4" PITOTLESS NOZZLE™

## PN1.75THD - LPM FLOW CHART

HM2H			OA			HM2H			OA			HM2H			OA		
PSI	LPM	LPM	PSI	LPM	LPM	PSI	LPM	LPM	PSI	LPM	LPM	PSI	LPM	LPM	PSI	LPM	LPM
5.2*		947	36	2421	2491	64	3228	3322	5.5*	947		37	2454	2526	65	3253	3348
10	1276	1313	38	2487	2560	66	3278	3373	11	1338	1377	39	2520	2593	67	3303	3399
12	1398	1438	40	2552	2626	68	3327	3424	12	1398	1438	41	2584	2659	69	3352	3449
13	1455	1497	42	2615	2691	70	3376	3474	13	1455	1497	43	2646	2723	71	3400	3499
14	1510	1554	44	2676	2754	72	3424	3523	14	1510	1554	45	2707	2785	73	3447	3548
15	1563	1608	46	2737	2816	74	3471	3572	15	1563	1608	47	2766	2847	75	3494	3596
16	1614	1661	48	2795	2877	76	3517	3620	16	1614	1661	49	2824	2907	77	3541	3643
17	1664	1712	50	2853	2936	78	3563	3667	17	1664	1712	51	2881	2965	79	3586	3691
18	1712	1762	52	2910	2994	80	3609	3714	18	1712	1762	53	2937	3023			
19	1759	1810	54	2965	3051				19	1759	1810	55	2992	3079			
20	1804	1857	56	3019	3107				20	1804	1857	57	3046	3135			
21	1849	1903	58	3073	3162				21	1849	1903	59	3099	3189			
22	1892	1948	60	3125	3216				22	1892	1948	61	3151	3243			
23	1935	1991	62	3177	3269				23	1935	1991	63	3203	3296			
24	1977	2034							24	1977	2034						
25	2017	2076							25	2017	2076						
26	2057	2117							26	2057	2117						
27	2097	2158							27	2097	2158						
28	2135	2197							28	2135	2197						
29	2173	2236							29	2173	2236						
30	2210	2274							30	2210	2274						
31	2246	2312							31	2246	2312						
32	2282	2349							32	2282	2349						
33	2318	2385							33	2318	2385						
34	2353	2421							34	2353	2421						
35	2387	2456							35	2387	2456						

\* Special flow rate point determined to be within the acceptable limitations of accuracy.



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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.

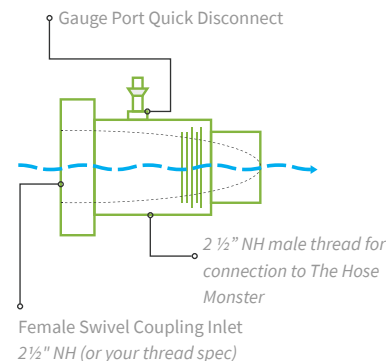
## PITOTLESS NOZZLE™ USE

### 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.

PSI	LHM		OA	
	GPM	GPM	GPM	GPM
10	533	282	41	1080
11	559	295	42	1093
12	584	308	43	1106
13	608	321	44	1119
14	631	333	45	1131
15	653	345	46	1144
16	675	356	47	1156
17	695	367	48	1169
18	716	378	49	1181
19	735	388	50	1193
20	754	398	51	1205
21	773	408	52	1216
22	791	418	53	1228
23	809	427	54	1239
24	826	436	55	1251

## 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)

