



LPMFC-PN175THD.2018.09.21.MA

1 3/4" PITOTLESS NOZZLE™

PN1.75THD - 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

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

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



HOSE MONSTER
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PITOTLESS NOZZLE™

THREADED INSTRUCTIONS

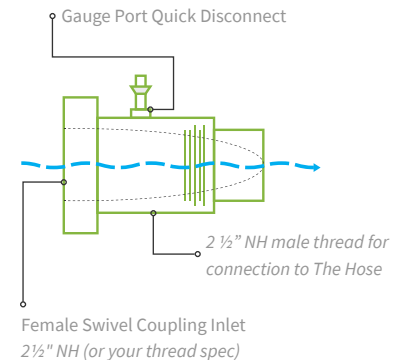
The Pitotless Nozzle™ Threaded (PN#THD) must be used in conjunction with the 2 ½” Hose Monster Model II (HM2H, HM2HF) or attached directly to a hydrant or test header valve discharging into open atmosphere.

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 THE MODEL II, 2 ½ 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 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
24	826	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 to 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

