



## 2" PITOTLESS NOZZLE®

PN2THD - LPM FLOW CHART

LPMFC-PN2THD.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 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.

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#### FIRE PUMP TESTING SOFTWARE

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	HM2H		OA		HM2H		OA		HM2H		OA
PSI	LPM	LPM		PSI	LPM	LPM		PSI	LPM	LPM	
10	1973	2001		31	3473	3524		52	4498	4564	
11	2069	2099		32	3529	3580		53	4541	4607	
12	2161	2192		33	3583	3635		54	4584	4650	
13	2249	2282		34	3637	3690		55	4626	4693	
14	2334	2368		35	3690	3744		56	4668	4736	
15	2416	2451		36	3743	3797		57	4709	4778	
16	2495	2531		37	3794	3849		58	4750	4820	
17	2572	2609		38	3845	3901		59	4791	4861	
18	2646	2685		39	3895	3952		60	4832	4902	
19	2719	2759		40	3945	4003		61	4872	4943	
20	2790	2830		41	3994	4052		62	4912	4983	
21	2858	2900		42	4042	4101		63	4951	5023	
22	2926	2968		43	4090	4150		64	4990	5063	
23	2991	3035		44	4138	4198		65	5029	5102	
24	3056	3100		45	4184	4245		66	5068	5141	
25	3119	3164		46	4231	4292		67	5106	5180	
26	3181	3227		47	4276	4339		68	5144	5219	
27	3241	3288		48	4322	4385		69	5181	5257	
28	3301	3349		49	4366	4430		70	5219	5295	
29	3359	3408		50	4411	4475					
30	3417	3466		51	4455	4519					

# 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.

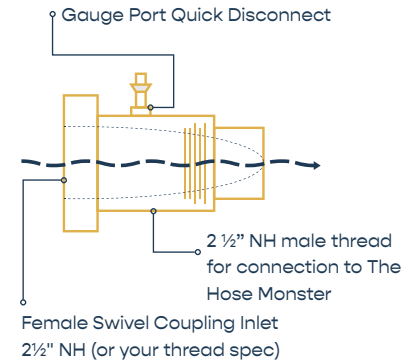
## PITOTLESS NOZZLE® USE

### 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)



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