



LPMFC-PN1THD.2018.07.17.MH

1" PITOTLESS NOZZLE™

PN1THD - 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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	HML	OA		HML	OA		HML	OA
PSI	LPM	LPM	PSI	LPM	LPM	PSI	LPM	LPM
3	181	182	31	582	584	59	802	805
4	209	210	32	591	593	60	809	812
5	234	234	33	600	602	61	816	819
6	256	257	34	609	611	62	823	826
7	276	277	35	618	620	63	829	832
8	295	297	36	627	629	64	836	839
9	313	315	37	635	638	65	842	845
10	330	332	38	644	646	66	849	852
11	346	348	39	652	655	67	855	858
12	362	363	40	661	663	68	861	865
13	377	378	41	669	671	69	868	871
14	391	392	42	677	679	70	874	877
15	405	406	43	685	688	71	880	883
16	418	419	44	693	695	72	886	890
17	431	432	45	701	703	73	893	896
18	443	445	46	709	711	74	899	902
19	455	457	47	716	719	75	905	908
20	467	469	48	724	726	76	911	914
21	479	480	49	731	734	77	917	920
22	490	492	50	739	741	78	923	926
23	501	503	51	746	749	79	929	932
24	512	514	52	753	756	80	934	938
25	522	524	53	761	763			
26	533	535	54	768	770			
27	543	545	55	775	778			
28	553	555	56	782	785			
29	563	565	57	789	792			
30	572	574	58	796	798			



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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.

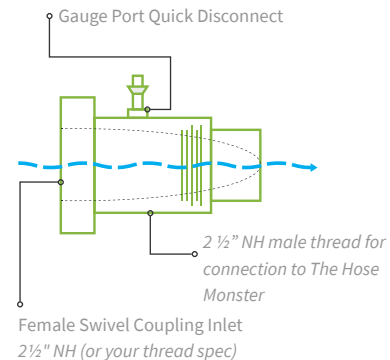
PITOTLESS NOZZLE™ USE

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

