



FC-PN2THD_2018.09.21.MA

2" PITOTLESS NOZZLE™

PN2THD - GPM 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 ½" Hose Monster Model II or Flusher with flow splitter (HM2H, HM2HF)

Use this column if the Pitotless Nozzle is connected to the 2 ½" 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		
PSI	GPM	GPM	PSI	GPM	GPM	PSI	GPM	GPM	PSI	GPM	GPM
10	521	529	31	918	931	52	1188	1206			
11	547	555	32	932	946	53	1200	1217			
12	571	579	33	947	960	54	1211	1229			
13	594	603	34	961	975	55	1222	1240			
14	617	626	35	975	989	56	1233	1251			
15	638	648	36	989	1003	57	1244	1262			
16	659	669	37	1002	1017	58	1255	1273			
17	679	689	38	1016	1031	59	1266	1284			
18	699	709	39	1029	1044	60	1277	1295			
19	718	729	40	1042	1057	61	1287	1306			
20	737	748	41	1055	1071	62	1298	1317			
21	755	766	42	1068	1084	63	1308	1327			
22	773	784	43	1081	1096	64	1318	1338			
23	790	802	44	1093	1109	65	1329	1348			
24	807	819	45	1106	1122	66	1339	1358			
25	824	836	46	1118	1134	67	1349	1369			
26	840	853	47	1130	1146	68	1359	1379			
27	856	869	48	1142	1158	69	1369	1389			
28	872	885	49	1154	1170	70	1379	1399			
29	887	900	50	1165	1182						
30	903	916	51	1177	1194						



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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.

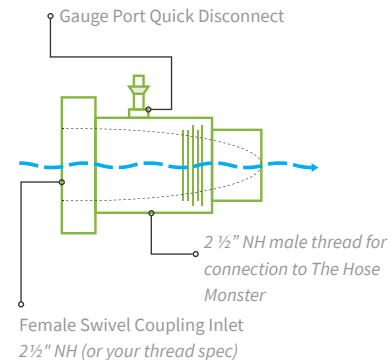
PITOTLESS NOZZLE™ USE

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

