



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		HM2H	OA
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.

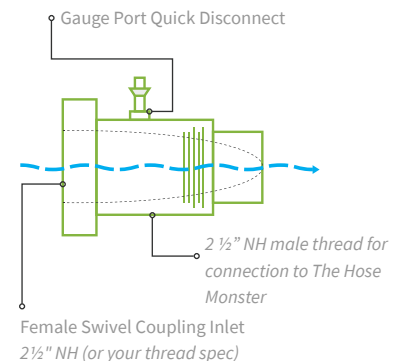
PITOTLESS NOZZLE™ USE

WITH 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	PSI	LHM		OA
	GPM	GPM	GPM		GPM	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	827	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 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

