



2" PITOTLESS NOZZLE®

PN2THD - GPM FLOW CHART

FC-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 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.

GET THE MOST OUT OF YOUR HOSE MONSTER® HARDWARE

FIRE PUMP TESTING SOFTWARE

Professional-grade software that helps you work better! Keep your reports clean, your results accurate, and your process streamlined with Hose Monster's FPT Software.

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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					

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.

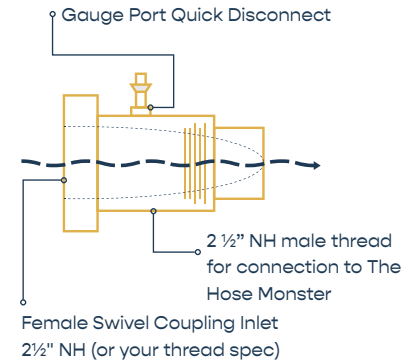
PITOTLESS NOZZLE® USE

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



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