



# 2" PITOTLESS NOZZLE™

## PN2THD

### FLOW CHART

PSI	2½" Hose Monster Model II		PSI	2½" Hose Monster Model II	
	GPM	Open Atmosphere		GPM	Open Atmosphere
10	521	529	41	1055	1071
11	547	555	42	1068	1084
12	571	579	43	1081	1096
13	594	603	44	1093	1109
14	617	626	45	1106	1122
15	638	648	46	1118	1134
16	659	669	47	1130	1146
17	679	689	48	1142	1158
18	699	709	49	1154	1170
19	718	729	50	1165	1182
20	737	748	51	1177	1194
21	755	766	52	1188	1206
22	773	784	53	1200	1217
23	790	802	54	1211	1229
24	807	819	55	1222	1240
25	824	836	56	1233	1251
26	840	853	57	1244	1262
27	856	869	58	1255	1273
28	872	885	59	1266	1284
29	887	900	60	1277	1295
30	903	916	61	1287	1306
31	918	931	62	1298	1317
32	932	946	63	1308	1327
33	947	960	64	1318	1338
34	961	975	65	1329	1348
35	975	989	66	1339	1358
36	989	1003	67	1349	1369
37	1002	1017	68	1359	1379
38	1016	1031	69	1369	1389
39	1029	1044	70	1379	1399
40	1042	1057			


**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.

- **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.
- **Open Atmosphere.** Use this column when the Pitotless Nozzle is connected directly to a test header or hydrant flowing openly to atmosphere.

Additional copies of flow charts are available at:  
[www.hosemonster.com](http://www.hosemonster.com)





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# Pitotless Nozzle™ Threaded

## INSTRUCTIONS

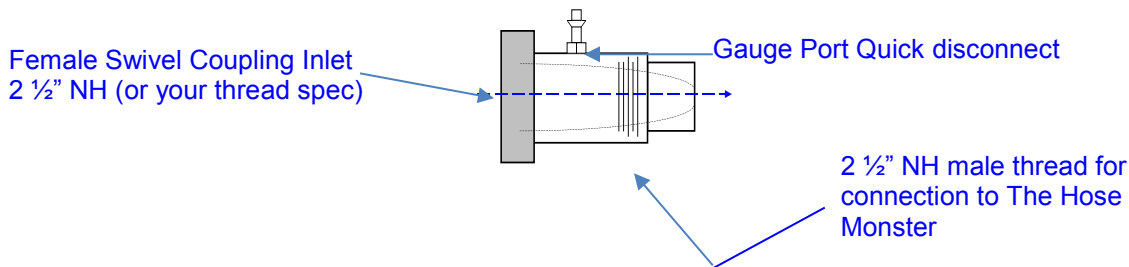
US Patent 6,874,375

The Pitotless Nozzle Threaded (PN#THD) must be used 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.*

### 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.



### Using the Pitotless Nozzle with the 2 ½" Hose Monster® or Flusher

Insert the male outlet end of the Pitotless Nozzle into the swivel coupling of the Hose Monster. Hand-tighten plus about a quarter turn using a common rocker lug spanner wrench on the swivel coupling and a hole type spanner wrench (WSPA104) for a holdback. 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 be installed on either unit in order to collect accurate flow rates. Make sure the hose lays flat and is not twisted.

### If using the Pitotless Nozzle without the Hose Monster

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.

### 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 "2 ½" Hose Monster Model II" and for "Open Atmosphere". Use the "2 ½" Hose Monster Model II" flows if the Pitotless Nozzle is attached to a 2 ½" Hose Monster Model II. 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)

### WARNING:

- **Do not** attach the Pitotless Nozzle to the end of a hose unless the Hose Monster is attached to it or unless it is permanently secured.
- **Do not** attach a hose to the male outlet end of the Pitotless Nozzle under any circumstance. The resulting backpressure will distort flow rate measurement.
- **Do not** remove the quick disconnect gauge port fitting. The aluminum threads will be damaged. Contact The Hose Monster Company directly for any repairs.



**HOSE MONSTER**  
COMPANY™

**MANUFACTURED BY:**  
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