



FC-PN1125THD.2018.09.21.MA

1 1/8" PITOTLESS NOZZLE™

PN1.125THD- 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 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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	HM2H	OA		HM2H	OA		HM2H	OA
PSI	GPM	GPM	PSI	GPM	GPM	PSI	GPM	GPM
5	84	83	33	215	213	61	292	289
6	92	91	34	218	216	62	294	291
7	99	98	35	221	219	63	297	294
8	106	105	36	224	222	64	299	296
9	112	111	37	227	225	65	302	298
10	118	117	38	231	228	66	304	301
11	124	123	39	234	231	67	306	303
12	130	128	40	237	234	68	308	305
13	135	133	41	239	237	69	311	307
14	140	138	42	242	240	70	313	310
15	145	143	43	245	243	71	315	312
16	150	148	44	248	245	72	317	314
17	154	153	45	251	248	73	320	316
18	159	157	46	254	251	74	322	318
19	163	161	47	256	254	75	324	320
20	167	165	48	259	256	76	326	323
21	171	170	49	262	259	77	328	325
22	175	174	50	264	262	78	330	327
23	179	177	51	267	264	79	332	329
24	183	181	52	270	267	80	335	331
25	187	185	53	272	269			
26	191	189	54	275	272			
27	194	192	55	277	274			
28	198	196	56	280	277			
29	201	199	57	282	279			
30	205	203	58	285	282			
31	208	206	59	287	284			
32	212	209	60	290	287			



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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.

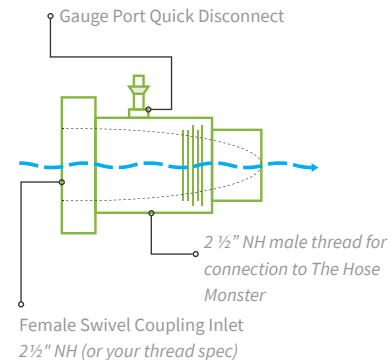
PITOTLESS NOZZLE™ USE

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

