



1 1/8" PITOTLESS NOZZLE®

PN1.125THD- GPM FLOW CHART

FC-PN1125THD.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 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.

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FIRE PUMP TESTING SOFTWARE

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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				

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

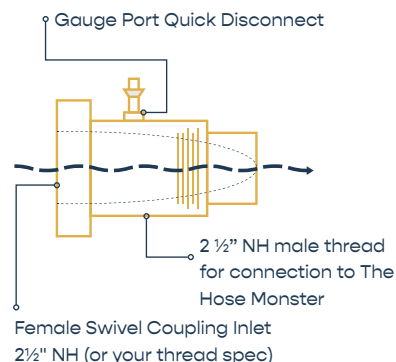
WITH THE MODEL II, 2½" HOSE MONSTER® OR FLUSHER

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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