



## 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 are being used.

**HM2H | 2½" Hose Monster Model II or Flusher with flow splitter (HM2H, HM2HF)** Use this column if the Pitotless Nozzle is connected to the 2½" 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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# 1¾" PITOTLESS NOZZLE™

## PN1.75THD-GPM FLOW CHART

FC-PN175THD.2021.09.21.MA

	HM2H	OA		HM2H	OA		HM2H	OA
PSI	GPM	GPM	PSI	GPM	GPM	PSI	GPM	GPM
5.2*		250	36	640	658	64	853	878
5.7*	250		37	648	667	65	859	884
10	337	347	38	657	676	66	866	891
11	354	364	39	666	685	67	873	898
12	369	380	40	674	694	68	879	905
13	384	396	41	683	702	69	885	911
14	399	410	42	691	711	70	892	918
15	413	425	43	699	719	71	898	924
16	426	439	44	707	728	72	905	931
17	440	452	45	715	736	73	911	937
18	452	465	46	723	744	74	917	944
19	465	478	47	731	752	75	923	950
20	477	491	48	739	760	76	929	956
21	489	503	49	746	768	77	935	963
22	500	515	50	754	776	78	941	969
23	511	526	51	761	783	79	947	975
24	522	537	52	769	791	80	953	981
25	533	549	53	776	799			
26	544	559	54	783	806			
27	554	570	55	791	814			
28	564	580	56	798	821			
29	574	591	57	805	828			
30	584	601	58	812	835			
31	594	611	59	819	843			
32	603	621	60	826	850			
33	612	630	61	833	857			
34	622	640	62	839	864			
35	631	649	63	846	871			

\* Special flow rate point determined to be within the acceptable limitations of accuracy.

MANUFACTURED BY THE  
HOSE MONSTER™ COMPANY

# PITOTLESS NOZZLE™

## THREADED INSTRUCTIONS

The Pitotless Nozzle™ Threaded (PN#THD) must be used in conjunction with the 2½" 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 0.5% or better and of a suitable range.

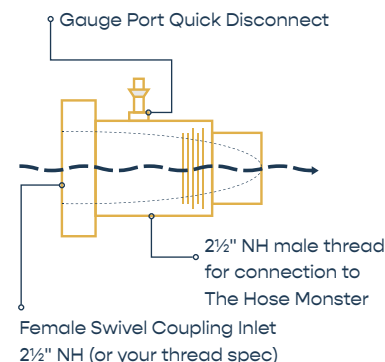
## PITOTLESS NOZZLE™ USE

### 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 one 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](http://www.hosemonster.com)



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