



FC-PN175THD.2018.09.21.MA

1 3/4" PITOTLESS NOZZLE™

PN1.75THD - 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		
PSI	GPM	GPM	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.



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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.

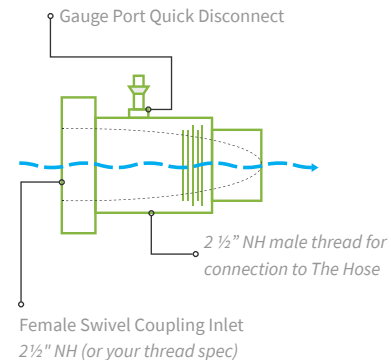
PITOTLESS NOZZLE™ USE

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

