



#### 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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	HM2H	OA
PSI	LPM	LPM
5.2*		947
5.5*	947	
10	1276	1313
11	1338	1377
12	1398	1438
13	1455	1497
14	1510	1554
15	1563	1608
16	1614	1661
17	1664	1712
18	1712	1762
19	1759	1810
20	1804	1857
21	1849	1903
22	1892	1948
23	1935	1991
24	1977	2034
25	2017	2076
26	2057	2117
27	2097	2158
28	2135	2197
29	2173	2236
30	2210	2274
31	2246	2312
32	2282	2349
33	2318	2385
34	2353	2421
35	2387	2456

	HM2H	OA
PSI	LPM	LPM
36	2421	2491
37	2454	2526
38	2487	2560
39	2520	2593
40	2552	2626
41	2584	2659
42	2615	2691
43	2646	2723
44	2676	2754
45	2707	2785
46	2737	2816
47	2766	2847
48	2795	2877
49	2824	2907
50	2853	2936
51	2881	2965
52	2910	2994
53	2937	3023
54	2965	3051
55	2992	3079
56	3019	3107
57	3046	3135
58	3073	3162
59	3099	3189
60	3125	3216
61	3151	3243
62	3177	3269
63	3203	3296

	HM2H	OA
PSI	LPM	LPM
64	3228	3322
65	3253	3348
66	3278	3373
67	3303	3399
68	3327	3424
69	3352	3449
70	3376	3474
71	3400	3499
72	3424	3523
73	3447	3548
74	3471	3572
75	3494	3596
76	3517	3620
77	3541	3643
78	3563	3667
79	3586	3691
80	3609	3714

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

# 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

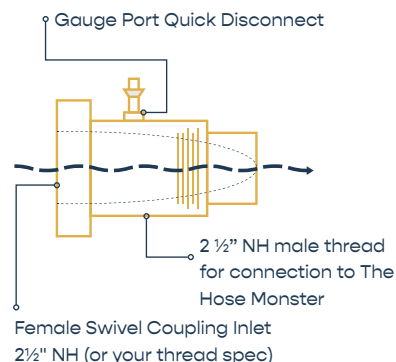
### WITH THE MODEL II, 2½" HOSE MONSTER® OR FLUSHER

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



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