



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.

HML | Little Hose Monster™ - Use this column when the Pitotless Nozzle® is connected to a Little Hose Monster™.

OA | Open Atmosphere - Use this column when the Pitotless Nozzle® is connected directly to a test header or hydrant flowing openly to atmosphere.

GET THE MOST OUT OF YOUR HOSE MONSTER® HARDWARE

FIRE PUMP TESTING SOFTWARE

Professional-grade software that helps you work better! Keep your reports clean, your results accurate, and your process streamlined with Hose Monster's FPT Software.

LEARN MORE AT [HOSEMONSTER.COM/RESOURCES](https://www.hosemonster.com/resources)

1" PITOTLESS NOZZLE®

PN1GRV - LPM FLOW CHART

LPMFC-PN1GRV.2023.04.30.MA

	HML	OA		HML	OA		HML	OA
PSI	LPM	LPM	PSI	LPM	LPM	PSI	LPM	LPM
3	178	182	31	573	584	59	791	805
4	206	210	32	582	593	60	797	812
5	230	234	33	591	602	61	804	819
6	252	257	34	600	611	62	811	826
7	272	277	35	609	620	63	817	832
8	291	297	36	618	629	64	824	839
9	309	315	37	626	638	65	830	845
10	326	332	38	635	646	66	836	852
11	341	348	39	643	655	67	843	858
12	357	363	40	651	663	68	849	865
13	371	378	41	659	671	69	855	871
14	385	392	42	667	679	70	861	877
15	399	406	43	675	688	71	867	883
16	412	419	44	683	695	72	874	890
17	424	432	45	691	703	73	880	896
18	437	445	46	698	711	74	886	902
19	449	457	47	706	719	75	892	908
20	460	469	48	713	726	76	898	914
21	472	480	49	721	734	77	903	920
22	483	492	50	728	741	78	909	926
23	494	503	51	735	749	79	915	932
24	504	514	52	742	756	80	921	938
25	515	524	53	750	763			
26	525	535	54	757	770			
27	535	545	55	764	778			
28	545	555	56	770	785			
29	554	565	57	777	792			
30	564	574	58	784	798			

PITOTLESS NOZZLE®

GROOVED INSTRUCTIONS

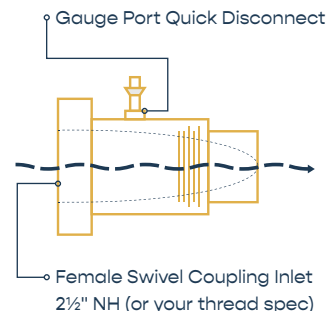
The Pitotless Nozzle® Grooved (PN#GRV) must be used in conjunction with the Little Hose Monster™ (HML) or attached directly to a hydrant or test header valve, discharging into open atmosphere.

The flow chart has two columns entitled Little Hose Monster™ and Open Atmosphere. Be sure to use the appropriate column to determine flow rates. Contact Hose Monster® 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 LITTLE HOSE MONSTER™

Line up the Pitotless Nozzle® outlet at the inlet of the Little Hose Monster™ with the gauge port rotated to 45° off either side of vertical. Push the Nozzle all the way in until the latch lever arms hook into the groove. Rotate the Nozzle right or left until the latch levers snap parallel to the body and the gauge port is in the desired position. The gauge port can be positioned so that a gauge can be viewed in a vertical position, or horizontal to the left or right side of the Little Hose Monster™. Insert the locking pins all the way through the pinhole and latch-lever arm. When the Pitotless Nozzle® is installed, securely attach a hose using a spanner wrench. 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		
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



Find this as well as other product guides at: www.hosemonster.com/resources