



## 1 1/8" PITOTLESS NOZZLE®

PN1.125GRV - LPM FLOW CHART

LPMFC.PN1.125.2023.04.30.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.

**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.

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	HML	OA		HML	OA		HML	OA
PSI	LPM	LPM	PSI	LPM	LPM	PSI	LPM	LPM
5	315	313	33	809	804	61	1100	1094
6	345	343	34	821	817	62	1109	1103
7	373	371	35	833	829	63	1118	1112
8	398	396	36	845	840	64	1126	1120
9	422	420	37	856	852	65	1135	1129
10	445	443	38	868	863	66	1144	1138
11	467	464	39	879	875	67	1153	1146
12	488	485	40	891	886	68	1161	1155
13	508	505	41	902	897	69	1170	1163
14	527	524	42	913	908	70	1178	1172
15	545	542	43	923	918	71	1186	1180
16	563	560	44	934	929	72	1195	1188
17	581	577	45	945	939	73	1203	1197
18	597	594	46	955	950	74	1211	1205
19	614	610	47	965	960	75	1219	1213
20	630	626	48	976	970	76	1227	1221
21	645	642	49	986	980	77	1236	1229
22	660	657	50	996	990	78	1244	1237
23	675	672	51	1006	1000	79	1251	1245
24	690	686	52	1015	1010	80	1259	1253
25	704	700	53	1025	1020			
26	718	714	54	1035	1029			
27	732	728	55	1044	1039			
28	745	741	56	1054	1048			
29	758	754	57	1063	1057			
30	771	767	58	1072	1067			
31	784	780	59	1082	1076			
32	796	792	60	1091	1085			

# PITOTLESS NOZZLE®

## GROOVED INSTRUCTIONS

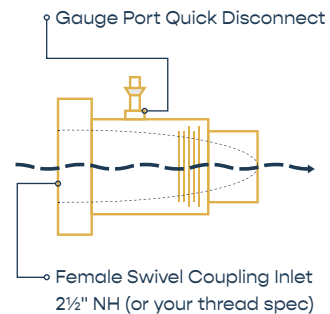
The Pitotless Nozzle® Grooved (PN#GRV) must be used in conjunction with the Little Hose Monster™ (HML) or attached directly to a hydrant or test header valve, discharging into open atmosphere.

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	1263	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)



Find this as well as other product guides at: [www.hosemonster.com/resources](http://www.hosemonster.com/resources)