HOSE MONSTER COMPANY

2” PITOTLESS NOZZLE®

PN2GRV - LPM FLOW CHART

LPMFC-PN2GRV.2023.04.30.MA

	HML	OA
PSI	LPM	LPM
10	1867	2001
11	1958	2099
12	2045	2192
13	2129	2282
14	2209	2368
15	2287	2451
16	2362	2531
17	2435	2609
18	2505	2685
19	2574	2759
20	2641	2830
21	2706	2900
22	2770	2968
23	2832	3035
24	2893	3100
25	2952	3164
26	3011	3227
27	3068	3288
28	3124	3349
29	3180	3408
30	3234	3466

	HML	OA
PSI	LPM	LPM
31	3288	3524
32	3340	3580
33	3392	3635
34	3443	3690
35	3493	3744
36	3543	3797
37	3592	3849
38	3640	3901
39	3687	3952
40	3734	4003
41	3781	4052
42	3827	4101
43	3872	4150
44	3917	4198
45	3961	4245
46	4005	4292
47	4048	4339
48	4091	4385
49	4133	4430
50	4175	4475
51	4217	4519

	HML	OA
PSI	LPM	LPM
52	4258	4564
53	4299	4607
54	4339	4650
55	4379	4693
56	4419	4736
57	4458	4778
58	4497	4820
59	4535	4861
60	4574	4902
61	4612	4943
62	4649	4983
63	4687	5023
64	4724	5063
65	4760	5102
66	4797	5141
67	4833	5180
68	4869	5219
69	4905	5257
70	4940	5295

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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PITOTLESS NOZZLE®

GROOVED INSTRUCTIONS

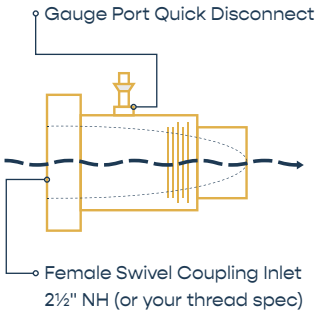
The Pitotless Nozzle® Grooved (PN#GRV) must be used in conjunction with the Little Hose Monster™ (HML) or attached directly to a hydrant or test header valve, discharging into open atmosphere.

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
10	533	282
11	559	295
12	584	308
13	608	321
14	631	333
15	653	345
16	675	356
17	695	367
18	716	378
19	735	388
20	754	398
21	773	408
22	791	418
23	809	427
24	826	436

	LHM	OA
PSI	GPM	GPM
41	1080	570
42	1093	577
43	1106	584
44	1119	591
45	1131	597
46	1144	604
47	1156	610
48	1169	617
49	1181	623
50	1193	630
51	1205	636
52	1216	642
53	1228	648
54	1239	654
55	1251	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 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**

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

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