HOSE MONSTER COMPANY

1" PITOTLESS NOZZLE™

PN1GRV–LPM FLOW CHART

LPMFC-PN1GRV.2021.09.21.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 are 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.

	HML	OA
PSI	LPM	LPM
3	178	182
4	206	210
5	230	234
6	252	257
7	272	277
8	291	297
9	309	315
10	326	332
11	341	348
12	357	363
13	371	378
14	385	392
15	399	406
16	412	419
17	424	432
18	437	445
19	449	457
20	460	469
21	472	480
22	483	492
23	494	503
24	504	514
25	515	524
26	525	535
27	535	545
28	545	555
29	554	565
30	564	574

	HML	OA
PSI	LPM	LPM
31	573	584
32	582	593
33	591	602
34	600	611
35	609	620
36	618	629
37	626	638
38	635	646
39	643	655
40	651	663
41	659	671
42	667	679
43	675	688
44	683	695
45	691	703
46	698	711
47	706	719
48	713	726
49	721	734
50	728	741
51	735	749
52	742	756
53	750	763
54	757	770
55	764	778
56	770	785
57	777	792
58	784	798

	HML	OA
PSI	LPM	LPM
59	791	805
60	797	812
61	804	819
62	811	826
63	817	832
64	824	839
65	830	845
66	836	852
67	843	858
68	849	865
69	855	871
70	861	877
71	867	883
72	874	890
73	880	896
74	886	902
75	892	908
76	898	914
77	903	920
78	909	926
79	915	932
80	921	938

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PITOTLESS NOZZLE™

GROOVED INSTRUCTIONS

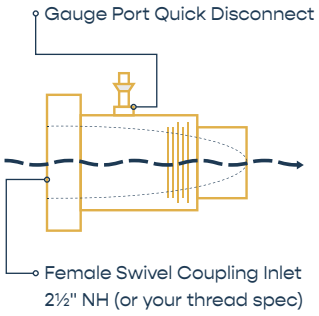
The Pitotless Nozzle™ Grooved (PN#GRV) must be used in conjunction with the Little Hose Monster™ (HML) or attached directly to a hydrant or test header valve, discharging into open atmosphere.

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 0.5% 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 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
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 one 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 **hosemonster.com**

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