



LPMFC-PN1GRV.2018.09.21.MA

1" PITOTLESS NOZZLE™

PN1GRV - LPM FLOW CHART

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.

Find this flow chart and other resources at:
hosemonster.com/resources

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	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			



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PITOTLESS NOZZLE™

GROOVED INSTRUCTIONS

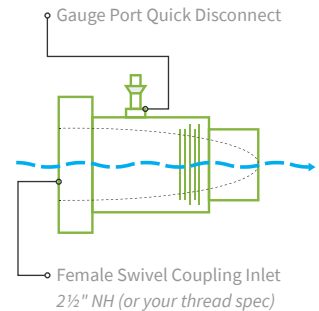
The Pitotless Nozzle™ Grooved (PN#GRV) must be used in conjunction with the Little Hose Monster™ (HML) or attached directly to a hydrant or test header valve, discharging into open atmosphere.

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	
25	843	445	
26	859	454	
27	875	463	
28	891	472	
29	907	481	
30	922	490	
31	937	499	
32	952	508	
33	967	517	
34	981	526	
35	996	535	
36	1010	544	
37	1024	553	
38	1038	562	
39	1052	571	
40	1066	580	
41	1080	589	
42	1093	598	
43	1106	607	
44	1119	616	
45	1131	625	
46	1144	634	
47	1156	643	
48	1169	652	
49	1181	661	
50	1193	670	
51	1205	679	
52	1216	688	
53	1228	697	
54	1239	706	
55	1251	715	
56	1262	724	
57	1273	733	
58	1284	742	
59	1295	751	
60	1306	760	
61	1317	769	
62	1328	778	
63	1339	787	
64	1350	796	
65	1361	805	
66	1372	814	
67	1383	823	
68	1394	832	
69	1405	841	
70	1416	850	
71	1427	859	
72	1438	868	
73	1449	877	
74	1460	886	
75	1471	895	
76	1482	904	
77	1493	913	
78	1504	922	
79	1515	931	
80	1526	940	
81	1537	949	
82	1548	958	
83	1559	967	
84	1570	976	
85	1581	985	
86	1592	994	
87	1603	1003	
88	1614	1012	
89	1625	1021	
90	1636	1030	
91	1647	1039	
92	1658	1048	
93	1669	1057	
94	1680	1066	
95	1691	1075	
96	1702	1084	
97	1713	1093	
98	1724	1102	
99	1735	1111	
100	1746	1120	

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



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