HOSE NSTER COMPANY

1" PITOTLESS NOZZLE®

PN1GRV - GPM FLOW CHART FC-PN1GRV.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.

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.

3 47 48 31 151 154 59 209 213 4 54 55 32 154 157 60 211 215 5 61 62 33 156 159 60 211 215 6 67 68 33 156 159 62 214 218 7 72 73 35 161 164 63 216 220 8 77 78 36 163 166 64 218 222 9 82 83 37 165 168 65 219 223 10 86 88 38 168 171 66 221 225 11 90 92 39 170 173 67 223 227 12 94 96 40 172 173 69 226 230		HML	OA		HML	OA		HML	OA
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26139141542002042714114455202205	24	133	136	52	196	200	80	243	248
27 141 144 55 202 205	25	136	139	53	198	202			
	26	139	141	54	200	204			
	27	141	144	55	202	205			
28 144 147 56 204 207	28	144	147	56	204	207			
29 146 149 57 205 209	29	146	149	57	205	209			
30 149 152 58 207 211	30	149	152	58	207	211			

LEARN MORE AT HOSEMONSTER.COM/RESOURCES

PITOTLESS NOZZLE[®]

GROOVED INSTRUCTIONS

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 $\frac{1}{2}$ % or better and of a suitable range.

PITOTLESS NOZZLE[®] USE

WITH LITTLE HOSE MONSTER™

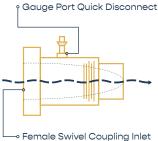
Line up the Pitotless Nozzle® outlet at the inlet of the Little Hose Monster[™] with the gauge port rotated to 45° off either side of vertical. Push the Nozzle all the way in until the latch lever arms hook into the groove. Rotate the Nozzle right or left until the latch levers snap parallel to the body 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.

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.



 Female Swivel Coupling Inlet 2½" NH (or your thread spec)

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		LHM	OA
	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

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