1"
PITOTLESS NOZZLE™
PN1GRV
FLOW CHART

3 - 46 PSI	Little Hose Monster™	Open Atmosphere
PSI	GPM	GPM
3	47	48
4	54	55
5	61	62
6	67	68
7	72	73
8	77	78
9	82	83
10	86	88
11	90	92
12	94	96
13	98	100
14	102	104
15	105	107
16	109	111
17	112	114
18	115	118
19	119	121
20	122	124
21	125	127
22	128	130
23	130	133
24	133	136
25	136	139
26	139	141
27	141	144
28	144	147
29	146	149
30	149	152
31	151	154
32	154	157
33	156	159
34	159	162
35	161	164
36	163	166
37	165	168
38	168	171
39	170	173
40	172	175
41	174	177
42	176	180
43	178	182
44	180	184
45	182	186
46	184	188

47 - 90 PSI	Little Hose Monster™	Open Atmosphere
PSI	GPM	GPM
47	186	190
48	188	192
49	190	194
50	192	196
51	194	198
52	196	200
53	198	202
54	200	204
55	202	205
56	204	207
57	205	209
58	207	211
59	209	213
60	211	215
61	212	216
62	214	218
63	216	220
64	218	222
65	219	223
66	221	225
67	223	227
68	224	228
69	226	230
70	228	232
71	229	233
72	231	235
73	232	237
74	234	238
75	236	240
76	237	241
77	239	243
78	240	245
79	242	246
80	243	248
81	245	249
82	246	251
83	248	252
84	249	254
85	251	255
86	252	257
87	254	258
88	255	260
89	257	261
90	258	263

Key Flow Test Points	Little Hose Monster™	Open Atmosphere
GPM	PSI	PSI
125	21.1	20.4
250	84.5	81.5

The readings on this chart are based on which device the Pitotless Nozzle is connected to.
It is the user's responsibility to verify that the correct chart and column is being used.

• **Little Hose Monster™ (HML).** Use this column when the Pitotless Nozzle is connected to a Little Hose Monster.

• **Open Atmosphere.** Use this column when the Pitotless Nozzle is connected directly to a test header or hydrant flowing openly to atmosphere.

This device is FM Approved. The data included in this chart has been examined and confirmed for accuracy. Please call us or instruct the Authority Having Jurisdiction to call us if there are any questions. Additional copies of flow charts are available at: www.hosemonster.com

FM APPROVED

FC-PN1THD.2018.07.17.MH

Pitotless Nozzle™ Grooved

INSTRUCTIONS

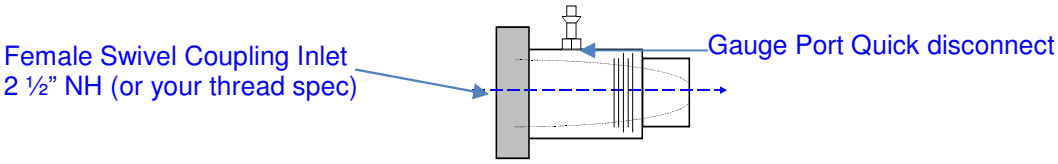
US Patent 6,874,375

The Pitotless Nozzle Grooved (PN#GRV) must be used with the Little Hose Monster (HML) **or** attached directly to a hydrant or test header valve discharging into open atmosphere. The flow chart has columns entitled Little Hose Monster™ and Open Atmosphere. Be sure to use the appropriate column to determine flow rates. *Call us if you are considering a configuration not listed here.*

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.



Using the Pitotless Nozzle with the 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.

If using the Pitotless Nozzle 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.

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**

WARNING:

- **Do not** attach the Pitotless Nozzle to the end of a hose unless the Hose Monster is attached to it or unless it is permanently secured.
- **Do not** attach a hose to the male outlet end of the Pitotless Nozzle under any circumstance. The resulting backpressure will distort flow rate measurement.
- **Do not** remove the quick disconnect gauge port fitting. The aluminum threads will be damaged. Contact The Hose Monster Company directly for any repairs.

HOSE MONSTER COMPANY

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