



1" PITOTLESS NOZZLE™


PN1GRV FLOW CHART

3 - 46 PSI			47 - 90 PSI			Key Flow Test Points		
Little Hose Monster™			Little Hose Monster™			Little Hose Monster™		
Open Atmosphere			Open Atmosphere			Open Atmosphere		
PSI	GPM	GPM	PSI	GPM	GPM	GPM	PSI	PSI
3	47	48	47	186	190	125	21.1	20.4
4	54	55	48	188	192	250	84.5	81.5
5	61	62	49	190	194			
6	67	68	50	192	196			
7	72	73	51	194	198			
8	77	78	52	196	200			
9	82	83	53	198	202			
10	86	88	54	200	204			
11	90	92	55	202	205			
12	94	96	56	204	207			
13	98	100	57	205	209			
14	102	104	58	207	211			
15	105	107	59	209	213			
16	109	111	60	211	215			
17	112	114	61	212	216			
18	115	118	62	214	218			
19	119	121	63	216	220			
20	122	124	64	218	222			
21	125	127	65	219	223			
22	128	130	66	221	225			
23	130	133	67	223	227			
24	133	136	68	224	228			
25	136	139	69	226	230			
26	139	141	70	228	232			
27	141	144	71	229	233			
28	144	147	72	231	235			
29	146	149	73	232	237			
30	149	152	74	234	238			
31	151	154	75	236	240			
32	154	157	76	237	241			
33	156	159	77	239	243			
34	159	162	78	240	245			
35	161	164	79	242	246			
36	163	166	80	243	248			
37	165	168	81	245	249			
38	168	171	82	246	251			
39	170	173	83	248	252			
40	172	175	84	249	254			
41	174	177	85	251	255			
42	176	180	86	252	257			
43	178	182	87	254	258			
44	180	184	88	255	260			
45	182	186	89	257	261			
46	184	188	90	258	263			

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 chart is FM Approved for flow rate 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





Pitotless Nozzle™ Grooved

INSTRUCTIONS

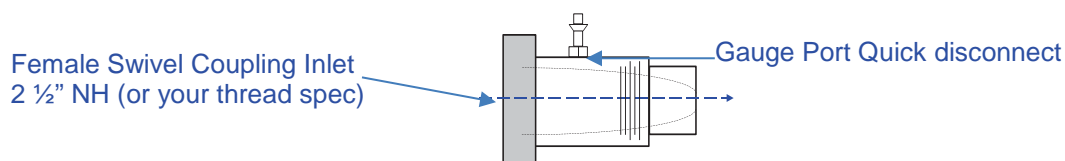
US Patent 6,874,375

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/literature.html

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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