



# 1 1/8" PITOTLESS NOZZLE™

## PN1.125GRV FLOW CHART

5 - 47 PSI			48 - 90 PSI			Key Flow Test Points		
PSI	GPM	GPM	PSI	GPM	GPM	GPM	PSI	PSI
Little Hose Monster™	Open Atmosphere	Little Hose Monster™	Open Atmosphere	Little Hose Monster™	Open Atmosphere	Little Hose Monster™	Open Atmosphere	Open Atmosphere
5	83	83	48	258	256	125	11.3	11.4
6	91	91	49	260	259	250	45.2	45.7
7	98	98	50	263	262			
8	105	105	51	266	264			
9	112	111	52	268	267			
10	118	117	53	271	269			
11	123	123	54	273	272			
12	129	128	55	276	274			
13	134	133	56	278	277			
14	139	138	57	281	279			
15	144	143	58	283	282			
16	149	148	59	286	284			
17	153	153	60	288	287			
18	158	157	61	291	289			
19	162	161	62	293	291			
20	166	165	63	295	294			
21	170	170	64	298	296			
22	174	174	65	300	298			
23	178	177	66	302	301			
24	182	181	67	304	303			
25	186	185	68	307	305			
26	190	189	69	309	307			
27	193	192	70	311	310			
28	197	196	71	313	312			
29	200	199	72	316	314			
30	204	203	73	318	316			
31	207	206	74	320	318			
32	210	209	75	322	320			
33	214	213	76	324	323			
34	217	216	77	326	325			
35	220	219	78	329	327			
36	223	222	79	331	329			
37	226	225	80	333	331			
38	229	228	81	335	333			
39	232	231	82	337	335			
40	235	234	83	339	337			
41	238	237	84	341	339			
42	241	240	85	343	341			
43	244	243	86	345	343			
44	247	245	87	347	345			
45	250	248	88	349	347			
46	252	251	89	351	349			
47	255	254	90	353	351			

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](http://www.hosemonster.com)





# Pitotless Nozzle™ Grooved

## INSTRUCTIONS

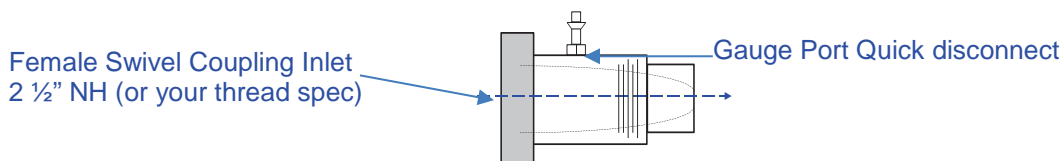
US Patent 6,874,375

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](http://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™

**MANUFACTURED BY:**  
The Hose Monster Company  
(888) 202-9987 Toll Free  
(847) 434-0073 Fax  
Service@FlowTest.com  
www.HoseMonster.com