



2" PITOTLESS NOZZLE™

PN2GRV FLOW CHART

10 - 50 PSI			51 - 70 PSI		
PSI	Little Hose Monster™ LPM	Open Atmosphere LPM	PSI	Little Hose Monster™ LPM	Open Atmosphere LPM
10	1867	2001	51	4217	4519
11	1958	2099	52	4258	4564
12	2045	2192	53	4299	4607
13	2129	2282	54	4339	4650
14	2209	2368	55	4379	4693
15	2287	2451	56	4419	4736
16	2362	2531	57	4458	4778
17	2435	2609	58	4497	4820
18	2505	2685	59	4535	4861
19	2574	2759	60	4574	4902
20	2641	2830	61	4612	4943
21	2706	2900	62	4649	4983
22	2770	2968	63	4687	5023
23	2832	3035	64	4724	5063
24	2893	3100	65	4760	5102
25	2952	3164	66	4797	5141
26	3011	3227	67	4833	5180
27	3068	3288	68	4869	5219
28	3124	3349	69	4905	5257
29	3180	3408	70	4940	5295
30	3234	3466			
31	3288	3524			
32	3340	3580			
33	3392	3635			
34	3443	3690			
35	3493	3744			
36	3543	3797			
37	3592	3849			
38	3640	3901			
39	3687	3952			
40	3734	4003			
41	3781	4052			
42	3827	4101			
43	3872	4150			
44	3917	4198			
45	3961	4245			
46	4005	4292			
47	4048	4339			
48	4091	4385			
49	4133	4430			
50	4175	4475			

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





Pitotless Nozzle™ Grooved

INSTRUCTIONS

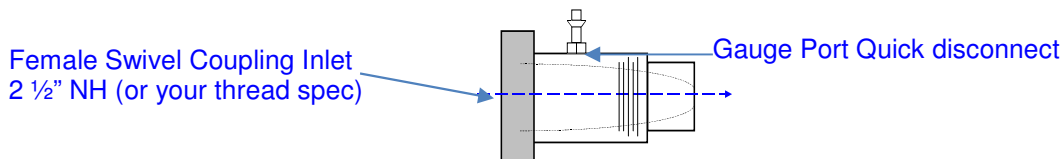
US Patent 6,874,375

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.



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