



1 1/8"

PITOTLESS NOZZLE™

PN1.125GRV

FLOW CHART

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

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.

- **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.

Additional copies of flow charts are available at: www.hosemonster.com





Pitotless Nozzle™ Grooved

INSTRUCTIONS

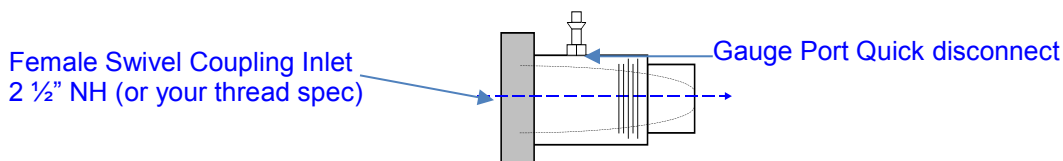
US Patent 6,874,375

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:
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