



1" PITOTLESS NOZZLE™ PN1GRV FLOW CHART

3 - 46 PSI			47 - 90 PSI		
PSI	Little Hose Monster™ LPM	Open Atmosphere LPM	PSI	Little Hose Monster™ LPM	Open Atmosphere LPM
3	178	182	47	706	719
4	206	210	48	713	726
5	230	234	49	721	734
6	252	257	50	728	741
7	272	277	51	735	749
8	291	297	52	742	756
9	309	315	53	750	763
10	326	332	54	757	770
11	341	348	55	764	778
12	357	363	56	770	785
13	371	378	57	777	792
14	385	392	58	784	798
15	399	406	59	791	805
16	412	419	60	797	812
17	424	432	61	804	819
18	437	445	62	811	826
19	449	457	63	817	832
20	460	469	64	824	839
21	472	480	65	830	845
22	483	492	66	836	852
23	494	503	67	843	858
24	504	514	68	849	865
25	515	524	69	855	871
26	525	535	70	861	877
27	535	545	71	867	883
28	545	555	72	874	890
29	554	565	73	880	896
30	564	574	74	886	902
31	573	584	75	892	908
32	582	593	76	898	914
33	591	602	77	903	920
34	600	611	78	909	926
35	609	620	79	915	932
36	618	629	80	921	938
37	626	638	81	927	944
38	635	646	82	932	949
39	643	655	83	938	955
40	651	663	84	944	961
41	659	671	85	949	967
42	667	679	86	955	972
43	675	688	87	960	978
44	683	695	88	966	984
45	691	703	89	971	989
46	698	711	90	977	995

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

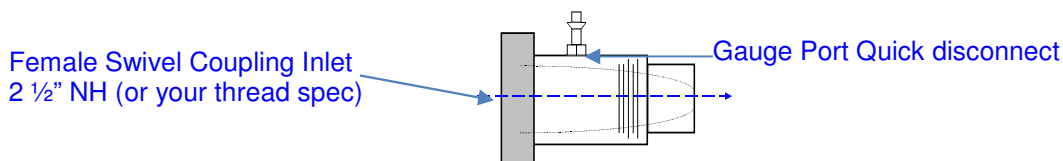
US Patent 6,874,375

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:
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