



# 1 3/4"

## PITOTLESS NOZZLE™

### PN1.75GRV

# FLOW CHART

10 - 50 PSI			51 - 91 PSI		
PSI	Little Hose Monster™ LPM	Open Atmosphere LPM	PSI	Little Hose Monster™ LPM	Open Atmosphere LPM
10	1253	1313	51	2830	2965
11	1314	1377	52	2858	2994
12	1373	1438	53	2885	3023
13	1429	1497	54	2912	3051
14	1483	1554	55	2939	3079
15	1535	1608	56	2966	3107
16	1585	1661	57	2992	3135
17	1634	1712	58	3018	3162
18	1681	1762	59	3044	3189
19	1727	1810	60	3070	3216
20	1772	1857	61	3095	3243
21	1816	1903	62	3120	3269
22	1859	1948	63	3145	3296
23	1901	1991	64	3170	3322
24	1941	2034	65	3195	3348
25	1981	2076	66	3219	3373
26	2021	2117	67	3244	3399
27	2059	2158	68	3268	3424
28	2097	2197	69	3292	3449
29	2134	2236	70	3316	3474
30	2171	2274	71	3339	3499
31	2206	2312	72	3363	3523
32	2242	2349	73	3386	3548
33	2277	2385	74	3409	3572
34	2311	2421	75	3432	3596
35	2344	2456	76	3455	3620
36	2378	2491	77	3477	3643
37	2411	2526	78	3500	3667
38	2443	2560	79	3522	3691
39	2475	2593	80	3545	3714
40	2506	2626	81	3567	3737
41	2537	2659	82	3589	3760
42	2568	2691	83	3610	3783
43	2599	2723	84	3632	3806
44	2629	2754	85	3654	3828
45	2658	2785	86	3675	3851
46	2688	2816	87	3696	3873
47	2717	2847	88	3718	3895
48	2746	2877	89	3739	3917
49	2774	2907	90	3760	3939
50	2802	2936			

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





# Pitotless Nozzle™ Grooved

## INSTRUCTIONS

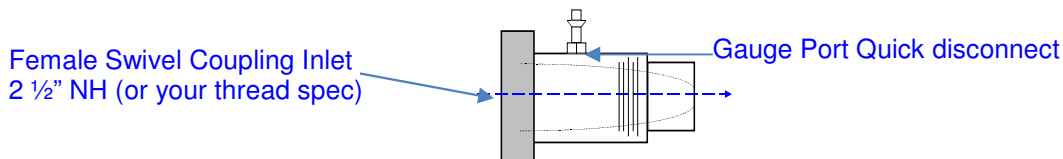
US Patent 6,874,375

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](http://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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