



LPMFC-PN175GRV.2018.07.17.MH

# 1 3/4" PITOTLESS NOZZLE™

## PN1.75GRV - LPM FLOW CHART

### 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.

**HML | Little Hose Monster™** - Use this column when the Pitotless Nozzle is connected to a Little Hose Monster.

**OA | Open Atmosphere** - Use this column when the Pitotless Nozzle is connected directly to a test header or hydrant flowing openly to atmosphere.

Find this flow chart and other resources at:  
[hosemonster.com/resources](http://hosemonster.com/resources)

### GET THE MOST OUT OF YOUR HOSE MONSTER™ HARDWARE

#### FIRE PUMP TESTING SOFTWARE

Professional-grade software that helps you work better! Keep your reports clean, your results accurate, and your process streamlined with Hose Monster's FPT Software.

Learn more at: [www.hosemonster.com/fpts](http://www.hosemonster.com/fpts)

PSI	HML	OA	PSI	HML	OA	PSI	HML	OA
	LPM	LPM		LPM	LPM		LPM	LPM
5.2*		947	36	2378	2491	64	3170	3322
5.7*	947		37	2411	2526	65	3195	3348
10	1253	1313	38	2443	2560	66	3219	3373
11	1314	1377	39	2475	2593	67	3244	3399
12	1373	1438	40	2506	2626	68	3268	3424
13	1429	1497	41	2537	2659	69	3292	3449
14	1483	1554	42	2568	2691	70	3316	3474
15	1535	1608	43	2599	2723	71	3339	3499
16	1585	1661	44	2629	2754	72	3363	3523
17	1634	1712	45	2658	2785	73	3386	3548
18	1681	1762	46	2688	2816	74	3409	3572
19	1727	1810	47	2717	2847	75	3432	3596
20	1772	1857	48	2746	2877	76	3455	3620
21	1816	1903	49	2774	2907	77	3477	3643
22	1859	1948	50	2802	2936	78	3500	3667
23	1901	1991	51	2830	2965	79	3522	3691
24	1941	2034	52	2858	2994	80	3545	3714
25	1981	2076	53	2885	3023			
26	2021	2117	54	2912	3051			
27	2059	2158	55	2939	3079			
28	2097	2197	56	2966	3107			
29	2134	2236	57	2992	3135			
30	2171	2274	58	3018	3162			
31	2206	2312	59	3044	3189			
32	2242	2349	60	3070	3216			
33	2277	2385	61	3095	3243			
34	2311	2421	62	3120	3269			
35	2344	2456	63	3145	3296			

\* Special flow rate point determined to be within the acceptable limitations of accuracy.



**HOSE MONSTER**  
COMPANY

(888) 202-9987 (847) 434-0073 Service@FlowTest.com www.HoseMonster.com

MANUFACTURED BY THE HOSE MONSTER™ COMPANY

# PITOTLESS NOZZLE™

## GROOVED INSTRUCTIONS

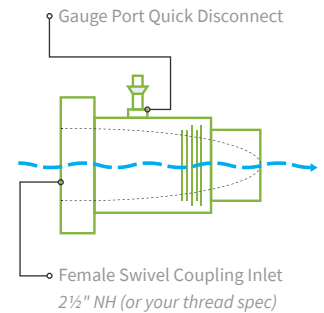
The Pitotless Nozzle™ Grooved (PN#GRV) must be used in conjunction with the Little Hose Monster™ (HML) or attached directly to a hydrant or test header valve, discharging into open atmosphere.

The flow chart has two columns entitled Little Hose Monster™ and Open Atmosphere. Be sure to use the appropriate column to determine flow rates. Contact Hose Monster™ if you are considering a configuration not listed here.

## PITOTLESS NOZZLE™ 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.



## PITOTLESS NOZZLE™ USE

### WITH 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.

### 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.

## WARNING

- Do not attach the Pitotless Nozzle™ to the end of a hose unless the Hose Monster is attached or it is permanently secured.
- Do not attach a hose to the male outlet end of the Pitotless Nozzle™ under any circumstance. The backpressure will distort flow rate reading.
- Do not remove the gauge port quick disconnect fitting. The aluminum threads will be damaged. Contact Hose Monster™ for any repairs.

PSI	LHM		OA	
	GPM	GPM	GPM	GPM
10	533	282	41	1080
11	559	295	42	1093
12	584	308	43	1106
13	608	321	44	1119
14	631	333	45	1131
15	653	345	46	1144
16	675	356	47	1156
17	695	367	48	1169
18	716	378	49	1181
19	735	388	50	1193
20	754	398	51	1205
21	773	408	52	1216
22	791	418	53	1228
23	809	427	54	1239
24	826	436	55	1250

## 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)

