



FC-PN175GRV.2018.09.21.MA

1 3/4" PITOTLESS NOZZLE™

PN1.75GRV - GPM 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

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PSI	HML		OA		PSI	HML		OA		PSI	HML		OA	
	GPM	GPM	GPM	GPM		GPM	GPM	GPM	GPM		GPM	GPM	GPM	
5.2*				250	36	628			658	64	838			878
5.7*	250				37	637			667	65	844			884
10	331			347	38	645			676	66	851			891
11	347			364	39	654			685	67	857			898
12	363			380	40	662			694	68	863			905
13	378			396	41	670			702	69	870			911
14	392			410	42	679			711	70	876			918
15	406			425	43	687			719	71	882			924
16	419			439	44	695			728	72	888			931
17	432			452	45	702			736	73	895			937
18	444			465	46	710			744	74	901			944
19	456			478	47	718			752	75	907			950
20	468			491	48	725			760	76	913			956
21	480			503	49	733			768	77	919			963
22	491			515	50	740			776	78	925			969
23	502			526	51	748			783	79	931			975
24	513			537	52	755			791	80	936			981
25	524			549	53	762			799					
26	534			559	54	769			806					
27	544			570	55	776			814					
28	554			580	56	784			821					
29	564			591	57	790			828					
30	573			601	58	797			835					
31	583			611	59	804			843					
32	592			621	60	811			850					
33	601			630	61	818			857					
34	611			640	62	824			864					
35	619			649	63	831			871					

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



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

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PITOTLESS NOZZLE™

GROOVED INSTRUCTIONS

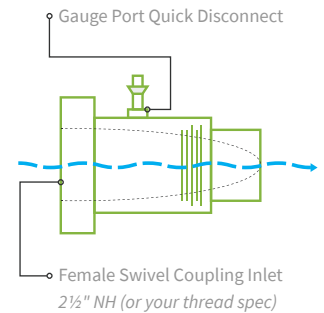
The Pitotless Nozzle™ Grooved (PN#GRV) must be used in conjunction with the Little Hose Monster™ (HML) or attached directly to a hydrant or test header valve, discharging into open atmosphere.

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	827	437	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

