



# 2" PITOTLESS NOZZLE™

## PN2GRV

### FLOW CHART

PSI	Little Hose Monster™		PSI	Little Hose Monster™	
	GPM	Open Atmosphere		GPM	Open Atmosphere
10	493	529	41	999	1071
11	517	555	42	1011	1084
12	540	579	43	1023	1096
13	562	603	44	1035	1109
14	584	626	45	1046	1122
15	604	648	46	1058	1134
16	624	669	47	1069	1146
17	643	689	48	1081	1158
18	662	709	49	1092	1170
19	680	729	50	1103	1182
20	698	748	51	1114	1194
21	715	766	52	1125	1206
22	732	784	53	1136	1217
23	748	802	54	1146	1229
24	764	819	55	1157	1240
25	780	836	56	1167	1251
26	795	853	57	1178	1262
27	811	869	58	1188	1273
28	825	885	59	1198	1284
29	840	900	60	1208	1295
30	854	916	61	1218	1306
31	869	931	62	1228	1317
32	882	946	63	1238	1327
33	896	960	64	1248	1338
34	910	975	65	1258	1348
35	923	989	66	1267	1358
36	936	1003	67	1277	1369
37	949	1017	68	1286	1379
38	962	1031	69	1296	1389
39	974	1044	70	1305	1399
40	987	1057			

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

FC-PN2GRV.2018.09.21.MA



# Pitotless Nozzle™ Grooved

## INSTRUCTIONS

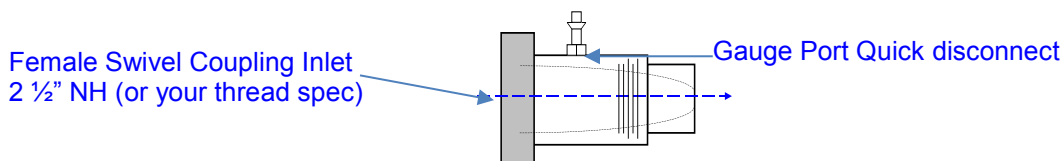
US Patent 6,874,375

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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