



### 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.

### 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 [HOSEMONSTER.COM/RESOURCES](https://www.hosemonster.com/resources)

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

# PITOTLESS NOZZLE®

## GROOVED INSTRUCTIONS

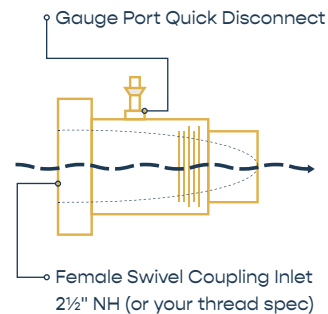
The Pitotless Nozzle® Grooved (PN#GRV) must be used in conjunction with the Little Hose Monster™ (HML) or attached directly to a hydrant or test header valve, discharging into open atmosphere.

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.

LHM			OA		
PSI	GPM	GPM	PSI	GPM	GPM
10	533	282	41	1080	570
11	559	295	42	1093	577
12	584	308	43	1106	584
13	608	321	44	1119	591
14	631	333	45	1131	597
15	653	345	46	1144	604
16	675	356	47	1156	610
17	695	367	48	1169	617
18	716	378	49	1181	623
19	735	388	50	1193	630
20	754	398	51	1205	636
21	773	408	52	1216	642
22	791	418	53	1228	648
23	809	427	54	1239	654
24	826	436	55	1251	660
25	843	445	56	1262	666

## 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)



Find this as well as other product guides at: [www.hosemonster.com/resources](http://www.hosemonster.com/resources)