



#### 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 are 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.

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	HML	OA		HML	OA		HML	OA
PSI	GPM	GPM	PSI	GPM	GPM	PSI	GPM	GPM
3	47	48	31	151	154	59	209	213
4	54	55	32	154	157	60	211	215
5	61	62	33	156	159	61	212	216
6	67	68	34	159	162	62	214	218
7	72	73	35	161	164	63	216	220
8	77	78	36	163	166	64	218	222
9	82	83	37	165	168	65	219	223
10	86	88	38	168	171	66	221	225
11	90	92	39	170	173	67	223	227
12	94	96	40	172	175	68	224	228
13	98	100	41	174	177	69	226	230
14	102	104	42	176	180	70	228	232
15	105	107	43	178	182	71	229	233
16	109	111	44	180	184	72	231	235
17	112	114	45	182	186	73	232	237
18	115	118	46	184	188	74	234	238
19	119	121	47	186	190	75	236	240
20	122	124	48	188	192	76	237	241
21	125	127	49	190	194	77	239	243
22	128	130	50	192	196	78	240	245
23	130	133	51	194	198	79	242	246
24	133	136	52	196	200	80	243	248
25	136	139	53	198	202			
26	139	141	54	200	204			
27	141	144	55	202	205			
28	144	147	56	204	207			
29	146	149	57	205	209			
30	149	152	58	207	211			

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# PITOTLESS NOZZLE™

## GROOVED INSTRUCTIONS

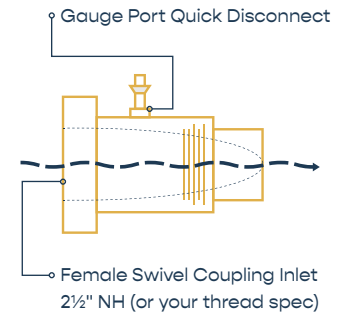
The Pitotless Nozzle™ Grooved (PN#GRV) must be used in conjunction with the Little Hose Monster™ (HML) or attached directly to a hydrant or test header valve, discharging into open atmosphere.

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 0.5% 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 lies 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 one 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 [hosemonster.com](http://hosemonster.com)



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