



### 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.

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	HML	OA
PSI	GPM	GPM
5.2*		250
5.7*	250	
10	331	347
11	347	364
12	363	380
13	378	396
14	392	410
15	406	425
16	419	439
17	432	452
18	444	465
19	456	478
20	468	491
21	480	503
22	491	515
23	502	526
24	513	537
25	524	549
26	534	559
27	544	570
28	554	580
29	564	591
30	573	601
31	583	611
32	592	621
33	601	630
34	611	640
35	619	649

	HML	OA
PSI	GPM	GPM
36	628	658
37	637	667
38	645	676
39	654	685
40	662	694
41	670	702
42	679	711
43	687	719
44	695	728
45	702	736
46	710	744
47	718	752
48	725	760
49	733	768
50	740	776
51	748	783
52	755	791
53	762	799
54	769	806
55	776	814
56	784	821
57	790	828
58	797	835
59	804	843
60	811	850
61	818	857
62	824	864
63	831	871

	HML	OA
PSI	GPM	GPM
64	838	878
65	844	884
66	851	891
67	857	898
68	863	905
69	870	911
70	876	918
71	882	924
72	888	931
73	895	937
74	901	944
75	907	950
76	913	956
77	919	963
78	925	969
79	931	975
80	936	981

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

# PITOTLESS NOZZLE™

## GROOVED INSTRUCTIONS

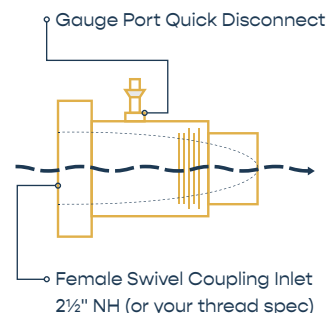
The Pitotless Nozzle™ Grooved (PN#GRV) must be used in conjunction with the Little Hose Monster™ (HML) or attached directly to a hydrant or test header valve, discharging into open atmosphere.

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)