



1 3/4" PITOTLESS NOZZLE™

PN1.75THD

FLOW CHART

10 - 50 PSI	2 1/2" Hose Monster Model II	Open Atmosphere
PSI	GPM	GPM
10	337	347
11	354	364
12	369	380
13	384	396
14	399	410
15	413	425
16	426	439
17	440	452
18	452	465
19	465	478
20	477	491
21	489	503
22	500	515
23	511	526
24	522	537
25	533	549
26	544	559
27	554	570
28	564	580
29	574	591
30	584	601
31	594	611
32	603	621
33	612	630
34	622	640
35	631	649
36	640	658
37	648	667
38	657	676
39	666	685
40	674	694
41	683	702
42	691	711
43	699	719
44	707	728
45	715	736
46	723	744
47	731	752
48	739	760
49	746	768
50	754	776

51 - 90 PSI	2 1/2" Hose Monster Model II	Open Atmosphere
PSI	GPM	GPM
51	761	783
52	769	791
53	776	799
54	783	806
55	791	814
56	798	821
57	805	828
58	812	835
59	819	843
60	826	850
61	833	857
62	839	864
63	846	871
64	853	878
65	859	884
66	866	891
67	873	898
68	879	905
69	885	911
70	892	918
71	898	924
72	905	931
73	911	937
74	917	944
75	923	950
76	929	956
77	935	963
78	941	969
79	947	975
80	953	981
81	959	987
82	965	993
83	971	999
84	977	1005
85	983	1011
86	989	1017
87	994	1023
88	1000	1029
89	1006	1035
90	1011	1041

Key Flow Test Points	2 1/2" Hose Monster Model II	Open Atmosphere
GPM	PSI	PSI
250	5.9	5.4
375.0	12.4	11.7
500	22.0	20.8
562.5	27.8	26.3
750	49.5	46.7
1000	88.0	83.1

The readings on this chart are based on which device the Pitotless Nozzle is connected to.

It is the user's responsibility to verify that the correct chart and column is being used.

• **2 1/2" Hose Monster Model II or Flusher with flow splitter (HM2H, HM2HF).** Use this column if the Pitotless Nozzle is connected to the 2 1/2" Hose Monster or Flusher. The built-in pitot or flow splitter must be installed for accuracy.

• **Open Atmosphere.** Use this column when the Pitotless Nozzle is connected directly to a test header or hydrant flowing openly to atmosphere.

This chart is FM Approved for flow rate accuracy. Please call us or instruct the Authority Having Jurisdiction to call us if there are any questions. Additional copies of flow charts are available at: www.hosemonster.com





Pitotless Nozzle™ Threaded

INSTRUCTIONS

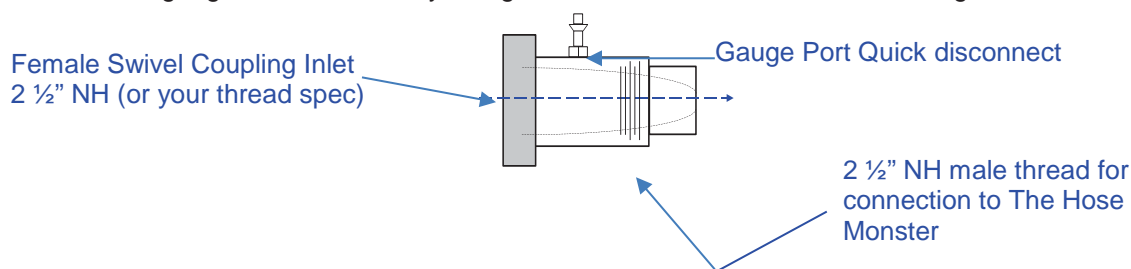
US Patent 6,874,375

The Pitotless Nozzle Threaded (PN#THD) must be used with the 2 ½" Hose Monster Model II (HM2H, HM2HF) **or** attached directly to a hydrant or test header valve discharging into open atmosphere. *Note: If you intend to use the Pitotless Nozzle with the Little Hose Monster (HML), then a Pitotless Nozzle Grooved (PN#GRV) is required. Do not use the Pitotless Nozzle Threaded (PN#THD) with the Little Hose Monster. 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 2 ½" Hose Monster® or Flusher

Insert the male outlet end of the Pitotless Nozzle into the swivel coupling of the Hose Monster. Hand-tighten plus about a quarter turn using a common rocker lug spanner wrench on the swivel coupling and a hole type spanner wrench (WSPA104) for a holdback. Attach the male end of a hose into the swivel coupling on the Pitotless Nozzle, hand-tighten plus about a quarter turn using spanner wrenches. The pitot/flow splitter must be installed on either unit in order to collect accurate flow rates. Make sure the hose lays flat and is not twisted.

If using the Pitotless Nozzle without the Hose Monster

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 "2 ½" Hose Monster Model II" and for "Open Atmosphere". Use the "2 ½" Hose Monster Model II" flows if the Pitotless Nozzle is attached to a 2 ½" Hose Monster Model II. 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/literature.html

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 Hydro Flow Products directly for any repairs.



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COMPANY™

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