



FC-PN175THD.2018.09.21.MA

1 3/4" PITOTLESS NOZZLE™

PN1.75THD - GPM FLOW CHART

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.

HM2H | 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.

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

Find this flow chart and other resources at:
hosemonster.com/resources

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| PSI | HM2H | | HM2H | | HM2H | | | |
|------|------|-----|------|-----|------|----|-----|-----|
| | GPM | OA | GPM | OA | GPM | OA | | |
| 5.2* | | 250 | 36 | 640 | 658 | 64 | 853 | 878 |
| 5.7* | 250 | | 37 | 648 | 667 | 65 | 859 | 884 |
| 10 | 337 | 347 | 38 | 657 | 676 | 66 | 866 | 891 |
| 11 | 354 | 364 | 39 | 666 | 685 | 67 | 873 | 898 |
| 12 | 369 | 380 | 40 | 674 | 694 | 68 | 879 | 905 |
| 13 | 384 | 396 | 41 | 683 | 702 | 69 | 885 | 911 |
| 14 | 399 | 410 | 42 | 691 | 711 | 70 | 892 | 918 |
| 15 | 413 | 425 | 43 | 699 | 719 | 71 | 898 | 924 |
| 16 | 426 | 439 | 44 | 707 | 728 | 72 | 905 | 931 |
| 17 | 440 | 452 | 45 | 715 | 736 | 73 | 911 | 937 |
| 18 | 452 | 465 | 46 | 723 | 744 | 74 | 917 | 944 |
| 19 | 465 | 478 | 47 | 731 | 752 | 75 | 923 | 950 |
| 20 | 477 | 491 | 48 | 739 | 760 | 76 | 929 | 956 |
| 21 | 489 | 503 | 49 | 746 | 768 | 77 | 935 | 963 |
| 22 | 500 | 515 | 50 | 754 | 776 | 78 | 941 | 969 |
| 23 | 511 | 526 | 51 | 761 | 783 | 79 | 947 | 975 |
| 24 | 522 | 537 | 52 | 769 | 791 | 80 | 953 | 981 |
| 25 | 533 | 549 | 53 | 776 | 799 | | | |
| 26 | 544 | 559 | 54 | 783 | 806 | | | |
| 27 | 554 | 570 | 55 | 791 | 814 | | | |
| 28 | 564 | 580 | 56 | 798 | 821 | | | |
| 29 | 574 | 591 | 57 | 805 | 828 | | | |
| 30 | 584 | 601 | 58 | 812 | 835 | | | |
| 31 | 594 | 611 | 59 | 819 | 843 | | | |
| 32 | 603 | 621 | 60 | 826 | 850 | | | |
| 33 | 612 | 630 | 61 | 833 | 857 | | | |
| 34 | 622 | 640 | 62 | 839 | 864 | | | |
| 35 | 631 | 649 | 63 | 846 | 871 | | | |

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



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PITOTLESS NOZZLE™

THREADED INSTRUCTIONS

The Pitotless Nozzle™ Threaded (PN#THD) must be used in conjunction 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.

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.

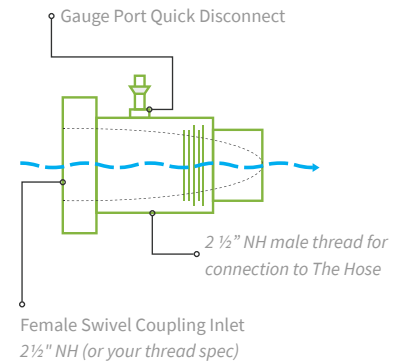
PITOTLESS NOZZLE™ USE

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.

| PSI | LHM | | OA | PSI | LHM | | OA |
|-----|-----|-----|-----|-----|------|-----|-----|
| | GPM | GPM | GPM | | GPM | 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 | 827 | 437 | | 55 | 1250 | 660 | |

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

