



1 3/4"

PITOTLESS NOZZLE™

PN1.75GRV

FLOW CHART

| 10 - 50 PSI | | | 51 - 91 PSI | | | Key Flow Test Points | | |
|-------------|-----------------------------|------------------------|-------------|-----------------------------|------------------------|----------------------|-----------------------------|------------------------|
| PSI | Little Hose Monster™ GPM | Open Atmosphere GPM | PSI | Little Hose Monster™ GPM | Open Atmosphere GPM | GPM | Little Hose Monster™ PSI | Open Atmosphere PSI |
| 10 | 331 | 347 | 51 | 748 | 783 | 250 | 6.1 | 5.4 |
| 11 | 347 | 364 | 52 | 755 | 791 | 375 | 12.8 | 11.7 |
| 12 | 363 | 380 | 53 | 762 | 799 | 500 | 22.8 | 20.8 |
| 13 | 378 | 396 | 54 | 769 | 806 | 562.5 | 28.9 | 26.3 |
| 14 | 392 | 410 | 55 | 776 | 814 | 750 | 51.3 | 46.7 |
| 15 | 406 | 425 | 56 | 784 | 821 | 1000 | 91.2 | 83.1 |
| 16 | 419 | 439 | 57 | 790 | 828 | | | |
| 17 | 432 | 452 | 58 | 797 | 835 | | | |
| 18 | 444 | 465 | 59 | 804 | 843 | | | |
| 19 | 456 | 478 | 60 | 811 | 850 | | | |
| 20 | 468 | 491 | 61 | 818 | 857 | | | |
| 21 | 480 | 503 | 62 | 824 | 864 | | | |
| 22 | 491 | 515 | 63 | 831 | 871 | | | |
| 23 | 502 | 526 | 64 | 838 | 878 | | | |
| 24 | 513 | 537 | 65 | 844 | 884 | | | |
| 25 | 524 | 549 | 66 | 851 | 891 | | | |
| 26 | 534 | 559 | 67 | 857 | 898 | | | |
| 27 | 544 | 570 | 68 | 863 | 905 | | | |
| 28 | 554 | 580 | 69 | 870 | 911 | | | |
| 29 | 564 | 591 | 70 | 876 | 918 | | | |
| 30 | 573 | 601 | 71 | 882 | 924 | | | |
| 31 | 583 | 611 | 72 | 888 | 931 | | | |
| 32 | 592 | 621 | 73 | 895 | 937 | | | |
| 33 | 601 | 630 | 74 | 901 | 944 | | | |
| 34 | 611 | 640 | 75 | 907 | 950 | | | |
| 35 | 619 | 649 | 76 | 913 | 956 | | | |
| 36 | 628 | 658 | 77 | 919 | 963 | | | |
| 37 | 637 | 667 | 78 | 925 | 969 | | | |
| 38 | 645 | 676 | 79 | 931 | 975 | | | |
| 39 | 654 | 685 | 80 | 936 | 981 | | | |
| 40 | 662 | 694 | 81 | 942 | 987 | | | |
| 41 | 670 | 702 | 82 | 948 | 993 | | | |
| 42 | 679 | 711 | 83 | 954 | 999 | | | |
| 43 | 687 | 719 | 84 | 960 | 1005 | | | |
| 44 | 695 | 728 | 85 | 965 | 1011 | | | |
| 45 | 702 | 736 | 86 | 971 | 1017 | | | |
| 46 | 710 | 744 | 87 | 977 | 1023 | | | |
| 47 | 718 | 752 | 88 | 982 | 1029 | | | |
| 48 | 725 | 760 | 89 | 988 | 1035 | | | |
| 49 | 733 | 768 | 90 | 993 | 1041 | | | |
| 50 | 740 | 776 | | | | | | |

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.

- **Little Hose Monster™ (HML).** Use this column when the Pitotless Nozzle is connected to a Little Hose Monster.

- **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™ Grooved

INSTRUCTIONS

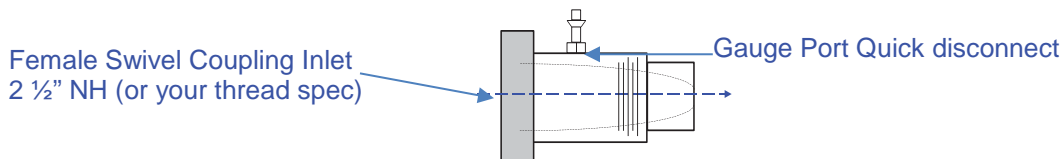
US Patent 6,874,375

The Pitotless Nozzle Grooved (PN#GRV) must be used with the Little Hose Monster (HML) **or** attached directly to a hydrant or test header valve discharging into open atmosphere. The flow chart has columns entitled Little Hose Monster™ and Open Atmosphere. Be sure to use the appropriate column to determine flow rates. *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 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.

If using the Pitotless Nozzle 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.

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/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 The Hose Monster Company directly for any repairs.



HOSE MONSTER
COMPANY™

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