HOSE NSTER COMPANY

1 ³/4" PITOTLESS NOZZLE®

PN1.75GRV - LPM FLOW CHART LPMFC-PN175GRV.2023.04.30.MA

	e Pitotless	Nozzle®	
and a second	 PN1.75 US Patent 6.87 Hydro Flow Produ 88-202-9987, www.Hos Operating Range 1 SN: 17-10 	4,375 lots, Inc. seMonster.com 0-80 PSI 439	
Ĩ	or. 17910		Ď

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.

GET THE MOST OUT OF YOUR HOSE MONSTER[®] HARDWARE

FIRE PUMP TESTING SOFTWARE

Professional-grade software that helps you work better! Keep your reports clean, your results accurate, and your process streamlined with Hose Monster's FPT Software.

	HML	OA		HML	OA		HML	OA		
PSI	LPM	LPM	PSI	LPM	LPM	PSI	LPM	LPM		
5.2*		947	36	2378	2491	64	3170	3322		
5.7*	947		37	2411	2526	65	3195	3348		
10	1253	1313	38	2443	2560	66	3219	3373		
11	1314	1377	39	2475	2593	67	3244	3399		
12	1373	1438	40	2506	2626	68	3268	3424		
13	1429	1497	41	2537	2659	69	3292	3449		
14	1483	1554	42	2568	2691	70	3316	3474		
15	1535	1608	43	2599	2723	71	3339	3499		
16	1585	1661	44	2629	2754	72	3363	3523		
17	1634	1712	45	2658	2785	73	3386	3548		
18	1681	1762	46	2688	2816	74	3409	3572		
19	1727	1810	47	2717	2847	75	3432	3596		
20	1772	1857	48	2746	2877	76	3455	3620		
21	1816	1903	49	2774	2907	77	3477	3643		
22	1859	1948	50	2802	2936	78	3500	3667		
23	1901	1991	51	2830	2965	79	3522	3691		
24	1941	2034	52	2858	2994	80	3545	3714		
25	1981	2076	53	2885	3023	* Spec	ial flow ra	te point		
26	2021	2117	54	2912	3051	determined to be within the acceptable limitation of accuracy.				
27	2059	2158	55	2939	3079					
28	2097	2197	56	2966	3107					
29	2134	2236	57	2992	3135					
30	2171	2274	58	3018	3162					
31	2206	2312	59	3044	3189					
32	2242	2349	60	3070	3216					
33	2277	2385	61	3095	3243					
34	2311	2421	62	3120	3269					
35	2344	2456	63	3145	3296					
	PSI 5.2* 5.7* 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	HMLPSILPM5.2*947101253111314121373121373131429141483151535161585171634181681191727201772211816221859231901241941251981262021272059282097292134302171312206322242332277342311	HMLOAPSILPMLPM5.2**9479475.7**9471313101253131311131413771213731438131429149714148315541515351608161585166117163417121816811762191727181020177218572118161903221859194823190119912419412034251981207626202121172720592158282097219730217122743122062312322242234933227723853423142421	HMLOAPSILPMLPM5.2**947365.7**94737101253131338111314137739121373143840131429149741141483155442151535160844161585166144171634171246181681176246191727181047201772185748211816190349221859194850231901199151241941203453251981207653262021211755282097219755302171223459312206234960332277234961342311242162352344245663	HMLOAHMLPSILPMPSILPM5.2*9473623785.7*9473724111012531313382443111314137739247512137314384025061314291497412537141483155442256815153516084325991615851661442629171634172452658181681176246268819172718104727172017721857482746211859194850280223190119915128302419412034522858251981207653284326202121175429122720592158552939282077215855293928207721585529363021712274583018312206231259304433227723856130953423112445633145	HMLOAHMLCAPSILPMLPMPSILPMLPM5.2**94736237824915.7**94737241125261012531313382443250011131413773924752593121373143840250626261314291497412537265914148315544225682691151535160843259927231615851661442629275417163417124552658278518168117624626882816191727181044274028472017721857482744290721185919034927742907221859190450288530232419412034512830295425198120765529393079262021217755293930792820972174227455304430217122745530443189312206234223495630443322772385613045324334234424465331453244 <td>HMLOAHMLOAPSILPMLPMPSIFS1LPMLPMPSILPMLPM645.2*94736237824916510125313133824432560661113141377392475259367121373143840250626266813142914974125372659691414831554422568269170151535160843259927237116158516614426292754731716341712452658281674191727181047271728477520177218574827462877762118161903492774290777221859194850280229367924194120345228583023792519812076532885302379262021211754291230512720592158552939307928209721975629663107292134223455293930792121342246533043189251981<td< td=""><td>HMLOAHMLOAHMLOAPSILPMPMLPMLPMPSILPMPSIEPM5.2*94736237824916431705.7*947T372411252666319510125313133824432560663219111314137739247525936732441213731438402506262668329214148315544225682691703316151505160843259927237133391615851661442629275472363617163417124526582876733386181681176246268828167434091917271810472717284775343220177218574827642877763455211816190349277429077734772218591948502885302330023194120765328853023\$eeuureeeteeteeteeteeteeteeteeteetee241941203455293930793525198120765529393079\$eeuureeeteeteeteeteeteeteeteeteeteeteeteetee</td></td<></td>	HMLOAHMLOAPSILPMLPMPSIFS1LPMLPMPSILPMLPM645.2*94736237824916510125313133824432560661113141377392475259367121373143840250626266813142914974125372659691414831554422568269170151535160843259927237116158516614426292754731716341712452658281674191727181047271728477520177218574827462877762118161903492774290777221859194850280229367924194120345228583023792519812076532885302379262021211754291230512720592158552939307928209721975629663107292134223455293930792121342246533043189251981 <td< td=""><td>HMLOAHMLOAHMLOAPSILPMPMLPMLPMPSILPMPSIEPM5.2*94736237824916431705.7*947T372411252666319510125313133824432560663219111314137739247525936732441213731438402506262668329214148315544225682691703316151505160843259927237133391615851661442629275472363617163417124526582876733386181681176246268828167434091917271810472717284775343220177218574827642877763455211816190349277429077734772218591948502885302330023194120765328853023\$eeuureeeteeteeteeteeteeteeteeteetee241941203455293930793525198120765529393079\$eeuureeeteeteeteeteeteeteeteeteeteeteeteetee</td></td<>	HMLOAHMLOAHMLOAPSILPMPMLPMLPMPSILPMPSIEPM5.2*94736237824916431705.7*947T372411252666319510125313133824432560663219111314137739247525936732441213731438402506262668329214148315544225682691703316151505160843259927237133391615851661442629275472363617163417124526582876733386181681176246268828167434091917271810472717284775343220177218574827642877763455211816190349277429077734772218591948502885302330023194120765328853023\$eeuureeeteeteeteeteeteeteeteeteetee241941203455293930793525198120765529393079\$eeuureeeteeteeteeteeteeteeteeteeteeteeteetee		

LEARN MORE AT HOSEMONSTER.COM/RESOURCES

PITOTLESS NOZZLE[®]

GROOVED INSTRUCTIONS

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.

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.



 Female Swivel Coupling Inlet 2½" NH (or your thread spec)

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		LHM	OA
	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

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**



Find this as well as other product guides at: www.hosemonster.com/resources