



1 3/4"

Pitotless Nozzle™ GRV

FLOW CHART

5 - 47 PSI Little Hose Monster Open Atmosphere			48 - 90 PSI Little Hose Monster Open Atmosphere			Key Flow Test Points Little Hose Monster Open Atmosphere		
PSI	GPM	GPM	PSI	GPM	GPM	GPM	PSI	PSI
5	225	240	48	720	758	250	6.2	5.4
6	247	263	49	727	766	375	13.0	11.7
7	266	284	50	735	774	500	23.2	20.9
8	285	303	51	742	781	563	29.3	26.4
9	302	322	52	749	789	750	52.1	47.0
10	329	346	53	756	796	1000	92.6	83.6
11	345	363	54	764	804			
12	360	379	55	771	811			
13	375	394	56	778	819			
14	389	409	57	784	826			
15	402	424	58	791	833			
16	416	438	59	798	840			
17	428	451	60	805	847			
18	441	464	61	811	854			
19	453	477	62	818	861			
20	465	489	63	825	868			
21	476	501	64	831	875			
22	487	513	65	838	882			
23	498	525	66	844	889			
24	509	536	67	850	895			
25	520	547	68	857	902			
26	530	558	69	863	909			
27	540	568	70	869	915			
28	550	579	71	875	922			
29	560	589	72	882	928			
30	569	599	73	888	935			
31	578	609	74	894	941			
32	588	619	75	900	947			
33	597	628	76	906	954			
34	606	638	77	912	960			
35	615	647	78	918	966			
36	623	656	79	923	972			
37	632	665	80	929	979			
38	640	674	81	935	985			
39	649	683	82	941	991			
40	657	692	83	947	997			
41	665	701	84	952	1003			
42	673	709	85	958	1009			
43	681	717	86	964	1015			
44	689	726	87	969	1020			
45	697	734	88	975	1026			
46	705	742	89	980	1032			
47	712	750	90	986	1038			

Updated Oct. 2010

Important Notice: This flow chart is based on testing results performed at FM Approvals Hydraulics Laboratory on September 28th and 29th, 2010. After the final approval process an official flow chart will be released. It might have some minor differences.

Take the readings of your Pitotless Nozzle based on how you are flowing the water:

-Little Hose Monster, HML. The outlet end of the Pitotless Nozzle is attached to a Little Hose Monster. This is the most popular application of the Pitotless Nozzle.

-Open Atmosphere. Water is discharged out in open. Use this if you are attaching the Pitotless Nozzle directly to a hydrant or test header.

Additional copies of flow charts are available at: www.hosemonster.com/literature.html

U. S. Patent # 6,874,375



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Pitotless NozzleTM Grooved

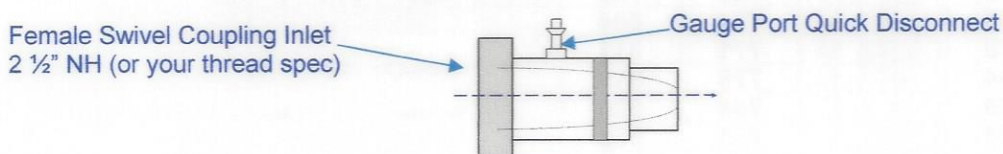
INSTRUCTIONS

US Patent 6,874,375

The Pitotless Nozzle Grooved (PNGRV) must only 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 MonsterTM* and *Open Atmosphere*. Be sure to use appropriate column to determine flow rate. Call us if you are considering a configuration not listed here or have any other questions.

Setup

The gauge connection on the Pitotless Nozzle is a factory-installed male end of a quick disconnect coupling. Do not remove this fitting from the Pitotless Nozzle body. 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. 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 MonsterTM

IMPORTANT SAFETY INSTRUCTIONS: THE LOCKING PINS MUST BE FULLY INSTALLED OR THE NOZZLE WILL SEPARATE FROM THE LITTLE HOSE MONSTER WHEN WATER IS FLOWING. 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 until the latch levers snap parallel to the body and the gauge port is in the desired position. The gauge port can be rotated 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. See video and more info at www.HoseMonster.com.



CAUTION: DO NOT FLOW WATER UNLESS THE LATCH-LEVERS ARE PARALLEL TO THE LITTLE HOSE MONSTER BODY AND BOTH LOCKING PINS ARE FULLY INSERTED. FAILURE TO INSTALL THE NOZZLE CORRECTLY CAN RESULT IN THE LITTLE HOSE MONSTER SEPARATING FROM THE NOZZLE UNDER FLOW CONDITIONS.

Using the Pitotless Nozzle on a Hydrant Nozzle or Test Header Valve

Secure the female swivel coupling of the Pitotless Nozzle directly to a hydrant nozzle or test header valve. The Pitotless Nozzle outlet points in the direction the water will flow. Clear water discharge path for safety of people and property. 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.



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