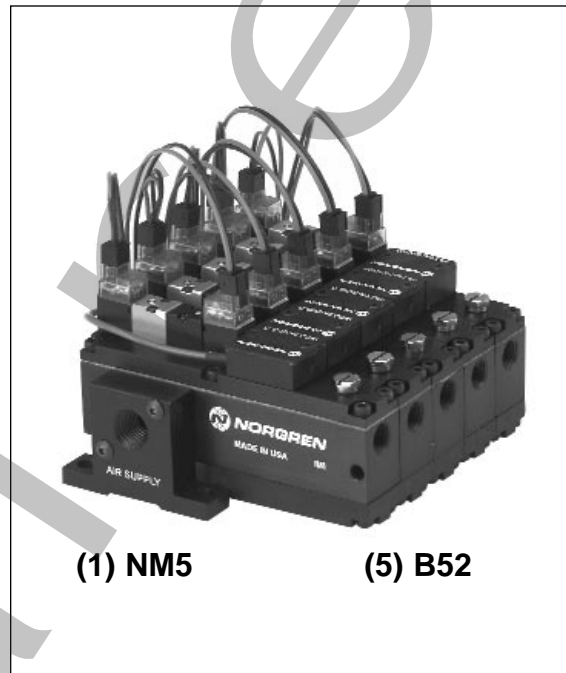


- NM Series segmented manifolds offer maximum application versatility where multiple vacuum stations are required.
- Modular components enable the designer to select from 8 interchangeable cartridges and specify only the features necessary for their specific application.
- Any of the 60M through 150H cartridges can be used in any of the vacuum stations.
- Precision blow-off control and rapid recovery.



**NM#** (Indicates NORVAC Manifold and number of stations)

**Pump Options**



Venturi cartridge  
Sizes and layout  
A=60M E=100M  
B=60H F=100H  
C=90M G=150M  
D=90H H=150H

Valve voltage and layout  
1 = 12VDC 2 = 24VDC

Vacuum switch/sensor  
Configuration and layout  
0= no device  
1=VSXP - sourcing switch  
2=VSXN - sinking switch  
3=VSXL - logic switch  
4=VSSA - 4-20mA sensor  
5=VSSV - 0-5VDC sensor  
(See pp. 33-34)

**Ordering Example**

The following ordering example details the information needed to order a NORVAC manifold consisting of 3 stations.

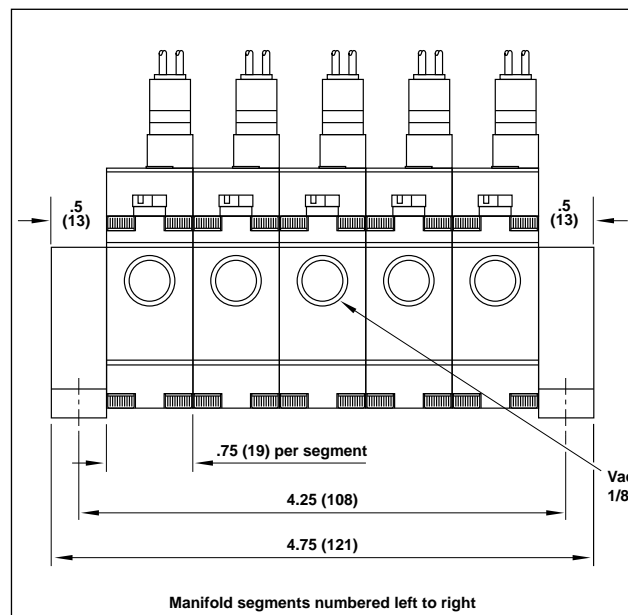
One **NM3** NORVAC manifold consisting of:

Pos.	Qty.	PN.	Desc.
1	1	C32	90M log. sw.24 VDC
2	1	D32	90H, log.sw.,24 VDC
3	1	G22	150M, sink sw., 24 VDC

**Notes:** Each segment must have appropriate size and cartridge designation.  
Up to 20 segments available in an NM.

**Ordering Information**

1. Use specifications chart on following page to select venturi(s) based on vacuum level, vacuum flow, evacuation speed, and air consumption.
2. Select vacuum switch/sensor configuration and layout on the left.
3. Select valve voltage and layout on the left.





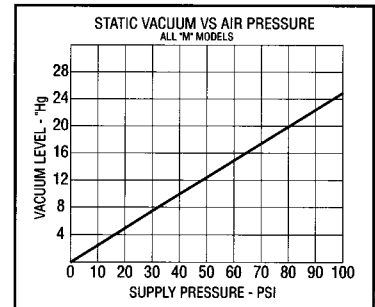
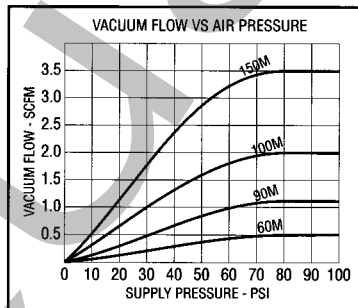
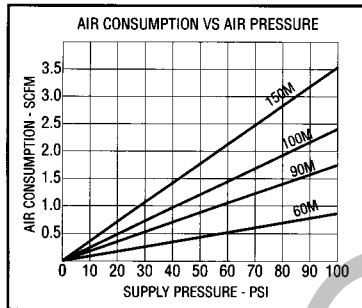
**Performance Data**

**M Series Venturis Medium Vacuum Applications**

The "M" series for "Medium" vacuum levels of up to 20" Hg for applications involving porous materials (cardboard, wood, fabric, etc.)

Model	Air Consumption (SCFM)@ 80 PSI	Vacuum Flow (scfm) vs. Vacuum Level ("Hg) @ 80 PSI							
		0"	3"	6"	9"	12"	15"	18"	20"
60M	0.50	0.50	0.40	0.30	0.22	0.15	0.08	0.03	0.00
90M	1.40	1.40	1.25	1.20	1.05	0.85	0.65	0.25	0.00
100M	1.80	2.10	2.00	1.85	1.75	1.60	1.25	0.80	0.00
150M	2.80	3.50	3.20	2.95	2.75	2.50	1.80	0.95	0.00

Model	0"	Evacuation Time (seconds) based on 1 cu. ft. volume ("Hg)						
		3"	6"	9"	12"	15"	18"	20"
60M	0.00	12.50	25.10	43.90	68.60	99.30	153.70	227.00
90M	0.00	3.75	7.20	12.40	19.10	29.90	52.00	104.00
100M	0.00	2.65	5.80	9.90	16.20	22.90	36.20	56.60
150M	0.00	1.35	3.20	5.20	7.70	11.80	23.40	52.00





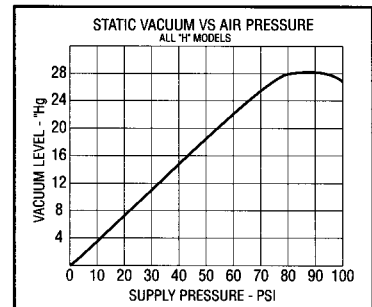
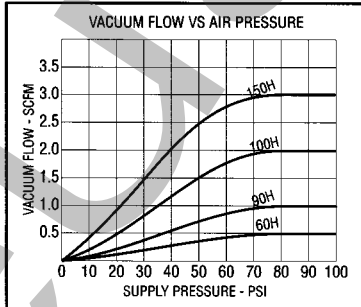
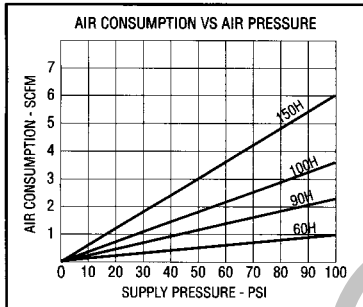
**Performance Data**

**H Series VENTURIS High Vacuum Applications**

The "H" series for "High" vacuum levels of up to 28" Hg for applications involving non-porous materials (steel, plastic, glass, etc.)

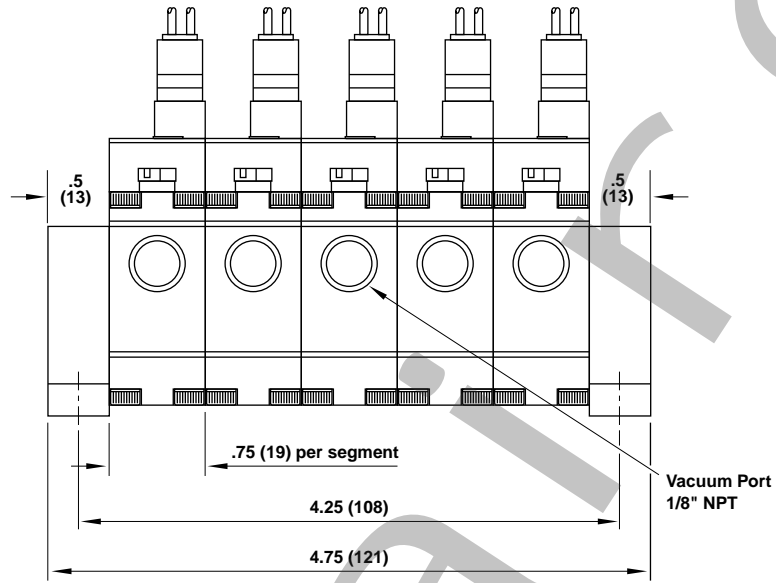
Model	Air Consumption (SCFM)@ 80 PSI	Vacuum Flow (scfm) vs. Vacuum level ("Hg) @ 80 psi										
		0"	3"	6"	9"	12"	15"	18"	21"	24"	27"	28"
60H	0.80	0.50	0.38	0.32	0.30	0.27	0.23	0.20	0.13	0.05	0.02	0.00
90H	1.80	1.20	1.00	0.95	0.90	0.85	0.75	0.70	0.52	0.47	0.20	0.00
100H	2.80	2.00	1.85	1.75	1.57	1.40	1.25	1.05	0.84	0.70	0.35	0.00
150H	4.80	3.20	2.80	2.50	2.30	2.00	1.60	1.40	1.20	0.80	0.50	0.00

Model	Evacuation Time (seconds) based on 1 cu. ft. volume ("Hg)										
	0"	3"	6"	9"	12"	15"	18"	21"	24"	27"	28"
60H	0.00	15.00	29.80	50.60	74.50	102.80	135.90	183.20	245.90	410.20	790.80
90H	0.00	6.50	12.30	18.90	32.50	47.00	65.40	92.20	130.00	222.20	281.30
100H	0.00	2.70	6.50	11.20	17.50	25.80	38.40	55.20	79.20	166.70	251.80
150H	0.00	2.30	3.80	6.50	10.20	14.10	21.30	44.90	55.00	81.00	125.00

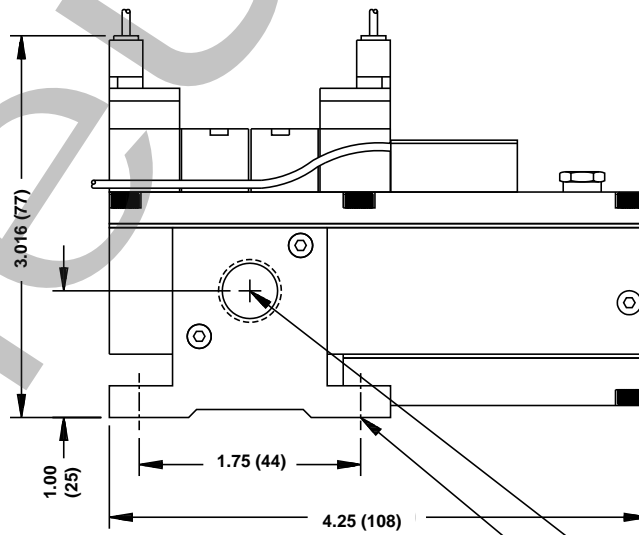




Manifold



Manifold segments numbered left to right



1/4" NPT air inlet - both ends

0.26 (7)ø Mounting holes (typ 4)