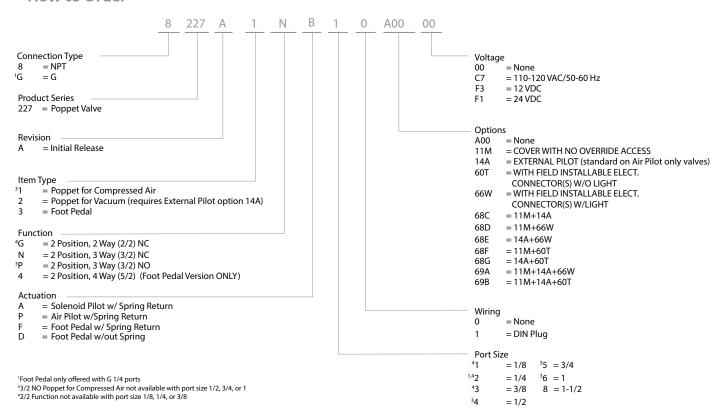
For Compressed Air and Vacuum

The Aventics Poppet Valves are ideal for single acting cylinders, Air Bellows and vacuum material handling.

- CAD Drawings Available
- High Flow
- Rugged Design
- Low Cost
- cURus Approved Coils



How to Order



Solenoid Air Pilot Actuated Vacuum Valves - 1/8" to 3/8"

- Solenoid External Air Pilot Actuated
- 2 Position, 3 Way (3/2)
- Normally Closed (NC) or Normally Open (NO)
- For lubricated or non lubricated service
- Diaphragm actuated
- Polyurethane diaphragm



Technical Data

Ports (NPTF)	1/8"	1/4"	3/8"						
Cv	0.84	1.56	1.8						
Operating Vacuum Range		m of Hg) mm of Hg)							
Pilot Range	43.5-145 PS	43.5-145 PSIG (3-10 Bar)							
Temperature Range	23°F to +113°F	ambient (-5°C to +	45°C ambient)						
Coil Size	22mm								
Coil Class		В							

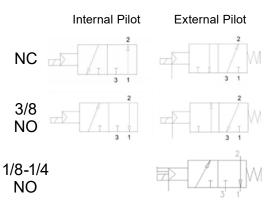
Operating Data

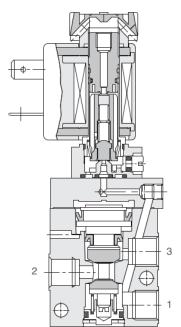
Voltage	12 VDC	24 VDC	110 VAC 50-60 Hz
Power Consumption	5V	V	8VA

Plug Specifications: NEMA 4, IP 65 with plug-in connector Solenoid Rating: Continuous Duty

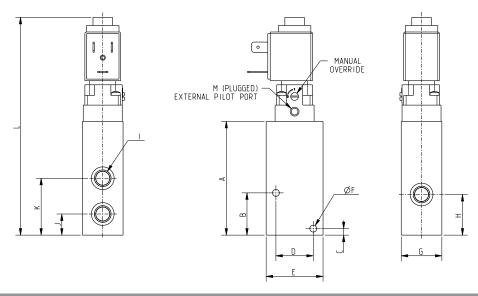
Vacuum Valve Connections

Function	P (1)	A (2)	R (3)
Normally Closed, Internal Pilot	Exhaust	Outlet	Pump
Normally Closed, External Pilot	Pump	Outlet	Exhaust
Normally Open, Internal Pilot	Pump	Outlet	Exhaust
Normally Open, External Pilot	Exhaust	Outlet	Pump



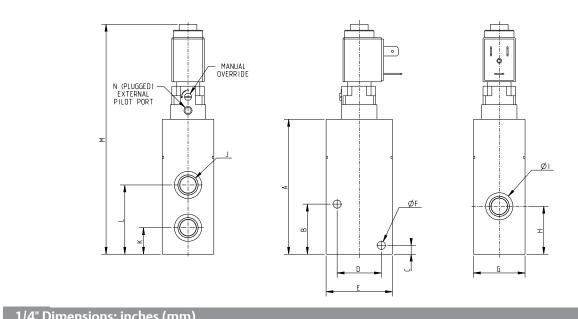


1/8" Dimensions for Solenoid Air Pilot Actuated Vacuum Valves



1/8" Di	1/8" Dimensions: inches (mm)												
Α	В	С	D	E	F	G	Н	I	J	К	L	М	
2.756 (70.0)	1.024 (26.0)	.157 (4.0)	.906 (23.0)	1.378 (35.0)	.167 (4.25)	.984 (25)	.984 (25)	1/8"	.512 (13.0)	1.378 (35.0)	5.276 (134.0)	M5 THREAD	

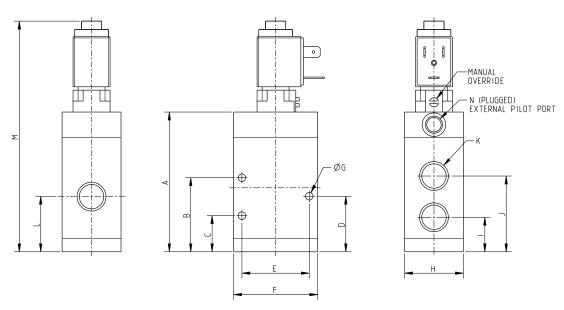
1/4" Dimensions for Solenoid Air Pilot Actuated Vacuum Valves



ם דוו	1/4 Difficisions, fiches (fillif)													
Α	В	С	D	E	F	G	Н	ı	J	К	L	М	N	
3.602 (91.5)	1.339 (34.0)	.236 (6.0)	1.181 (30.0)	1.772 (45.0)	.217 (5.5)	1.378 (35)	1.280 (32.5)	.728 (18.5)	1/4"	.709 (18.0)	1.850 (47.0)	6.142 (156)	M5 THREAD	

AVENTICS⁻ 3

3/8" Dimensions for Solenoid Air Pilot Actuated Vacuum Valves



3/8" Dimensions: inches (mm)													
Α	В	С	D	E	F	G	Н	I	J	K	L	М	N
3.268 (83.0)	1.732 (44.0)	.846 (21.5)	1.299 (33.0)	1.575 (40.0)	1.968 (50.0)	.177 (4.5)	1.377 (35.0)	.807 (20.5)	1.772 (45.0)	3/8"	1.299 (33.0)	5.394 (137.0)	1/8"

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Solenoid Air Pilot Actuated Vacuum Valves - 1/2" to 1-1/2"

- Solenoid External Air Pilot Actuated
- 2 Position, 2 Way (2/2) and 3 Way (3/2)
- Normally Closed (NC) or Normally Open (NO)
- For lubricated or non lubricated service
- Diaphragm actuated
- Polyurethane diaphragm



Internal Pilot	External Pilot
NC 2 3 1	2 7 3 1



Technical Data

Ports (NPTF)	1/2"	1"	1-1/2"								
Cv	4.8	12.0	33.5								
Operating Vacuum Range	ı	Minimum 9.8" of Hg (250 mm of Hg) Maximum 29.9" of Hg (759.5 mm of Hg)									
Pilot Pressure	3	30-145 PSIG (2-10 Bar)									
Temperature Range	23°F	to +113°F ambient	: (-5°C to +45°C ambi	ient)							
Coil Size		30mm									
Coil Class		Н									

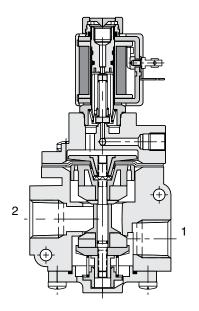
Operating Data

Voltage	12VDC	24VDC	110VAC 50-60Hz
Power Consumption	81	W	11W

Plug Specifications: NEMA 4, IP 65 with plug-in connector Solenoid Rating: Continuous Duty

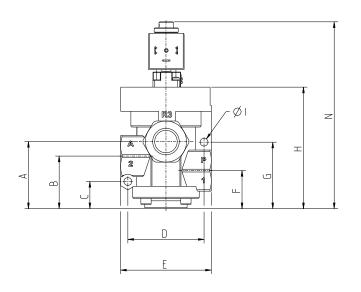
Vacuum Valve Connections

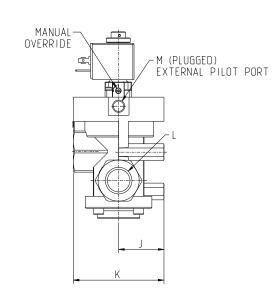
Function	P (1)	A (2)	R (3)
Normally Closed, Internal Pilot	Exhaust	Outlet	Pump
Normally Closed, External Pilot	Pump	Outlet	Exhaust
Normally Open, Internal Pilot	Pump	Outlet	Exhaust
Normally Open, External Pilot	Exhaust	Outlet	Pump



NOTE: Port 3 Cv must not be restricted

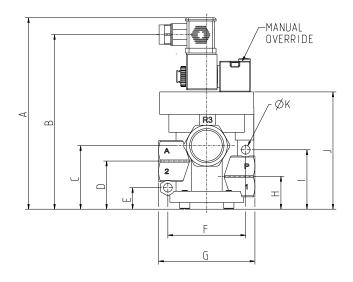
1/2" to 1" Dimensions for Solenoid Air Pilot Actuated

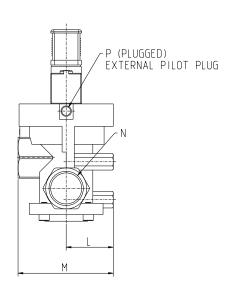




1/2" & 3/4" Dimensions: inches (mm)

Α	В	С	D	E	F	G	Н	ı	J	K	L	M	N
2.185 (55.5)	1.713 (43.5)	.886 (22.5)	2.480 (63.0)	2.953 (75.0)	1.240 (31.5)	2.165 (55.0)	3.957 (100.5)	.256 (6.5)	1.476 (37.5)	2.953 (75.0)	1/2" TO 3/4"	1/8"	6.083 (154.5)

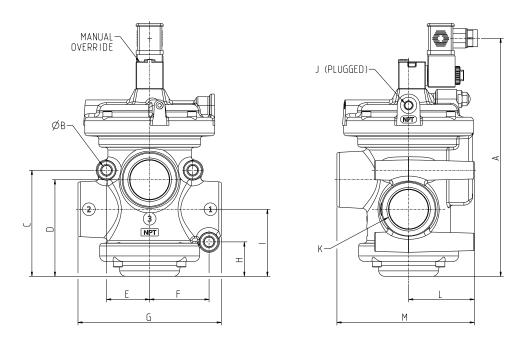




1" Dimensions: inches (mm)

Α	В	С	D	E	F	G	Н	ı	J	K	L	М	N	Р
7.358 (186.9)	6.713 (170.5)	2.441 (62.0)	1.850 (47.0)	.827 (21.0)	2.992 (76.0)	3.701 (94.0)	1.260 (32.0)	2.283 (58.0)	4.508 (114.5)	.335 (8.5)	1.811 (46.0)	3.661 (93.0)	1"	1/8"

1-1/2" Dimensions for Solenoid Air Pilot Actuated Vacuum Valves



1-1/2" Dimensions: inches (mm)

Α	В	С	D	E	F	G	Н	I	J	К	L	М
10.335 (262.5)	.394 (10.0)	4.606 (117.0)	4.193 (106.5)	1.870 (47.5)	2.579 (65.5)	6.220 (158.0)	1.496 (38.0)	2.913 (74.0)	1/8"	1-1/2"	2.854 (72.5)	5.965 (151.5)

Air Pilot Actuated Vacuum Valves - 1/8" to 1-1/2"

- 2 Position, 2 Way (2/2) and 3 Way (3/2)
- Normally Closed (NC) or Normally Open (NO)
- Air pilot actuated (External Pilot)
- Diaphragm actuated
- Polyurethane diaphragm
- For lubricated or non-lubricated service

N	\sim	гс.
- 11		IF.

NOTE:

3/2 valve (1/8" to 3/8") can be converted to a 2/2 valve by inserting a pipe plug into the exhaust port

1/2" to 1-1/2" valves cannot be converted to a 2/2 valve. If a 2/2 valve is required, it must be ordered as such.

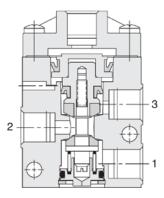
NC 3/3 1 2/2 NO 3/8,1/2,3/4,1,1-1/2 1/8-1/4 NC 3/3 1 1 1/2

Technical Data

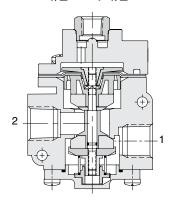
Ports (NPTF)	1/8"	1/4"	3/8"			
Cv	0.84	1.56	1.8			
Operating Vacuum Range	Minimum 9.8" of Hg (250 mm of Hg) Maximum 29.9" of Hg (759.5 mm of Hg)					
Pilot Range	36-145 PSIG	(2.5-10 Bar)	30-145 PSIG (2-10 Bar)			
Temperature Range	23°F to +158°F ambient (-5°C to +70°C ambient)					

Ports (NPTF)	1/2"	1-1/2"					
Cv	4.8	33.5					
Operating Vacuum Range	Minimum 9.8" of Hg (250 mm of Hg) Maximum 29.9" of Hg (759.5 mm of Hg)						
Pilot Pressure	3	30-145 PSIG (2-10 Bar) 50-145 PSIG (3.5-10 Bar)					
Temperature Range	23°F to + 158°F ambient (-5°C to +70°C ambient)						

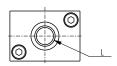


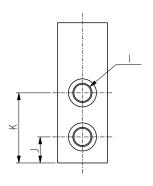


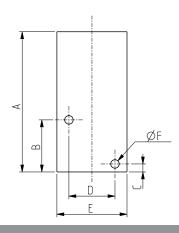
1/2" - 1-1/2"

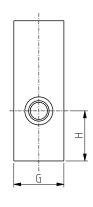


1/8" to 1/4" Dimensions for Air Pilot Actuated Vacuum Valves



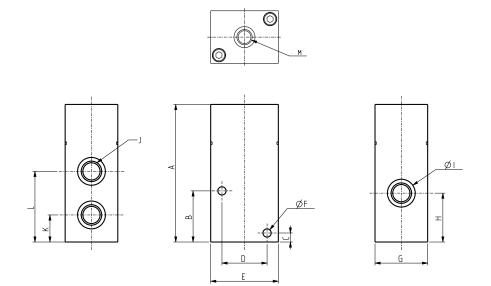






1/8" Dimensions: inches (mm)

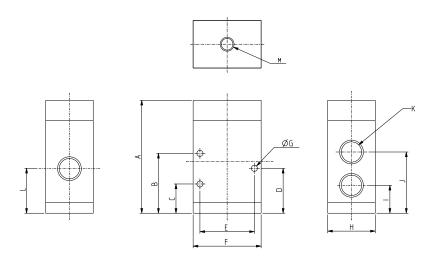
Α	В	С	D	E	F	G	Н	I	J	К	L
2.756 (70.0)	1.024 (26.0)	.157 (4.0)	.906 (23.0)	1.378 (35.0)	.167 (4.25)	.984 (25)	.984 (25)	1/8"	.512 (13.0)	1.378 (35.0)	1/8"



1/4" Dimensions: inches (mm)

Α	В	С	D	E	F	G	Н	ı	J	К	L	М
3.602 (91.5)	1.339 (34.0)	.236 (6.0)	1.181 (30.0)	1.772 (45.0)	.217 (5.5)	1.378 (35)	1.280 (32.5)	.728 (18.5)	1/4"	.709 (18.0)	1.850 (47.0)	1/8"

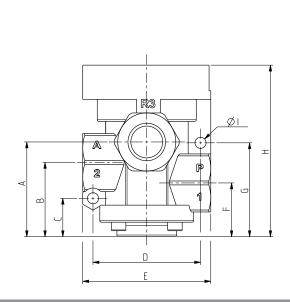
3/8" Dimensions for Air Pilot Actuated Vacuum Valves

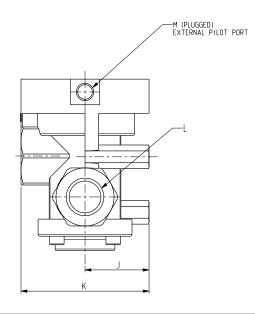


3/8" Dimensions: inches (mm)

Α	В	С	D	E	F	G	Н	1	J	К	L	М
3.268 (83.0)	1.732 (44.0)	.846 (21.5)	1.299 (33.0)	1.575 (40.0)	1.969 (50.0)	.177 (4.5)	1.378 (35.0)	.807 (20.5)	1.772 (45.0)	3/8"	1.299 (33.0)	1/8"

1/2" & 3/4" Dimensions for Air Pilot Actuated Vacuum Valves

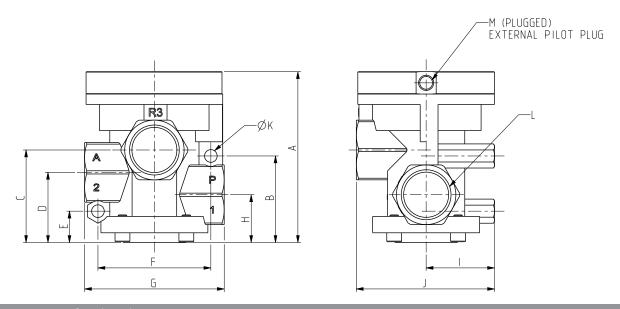




1/2" & 3/4" Dimensions: inches (mm)

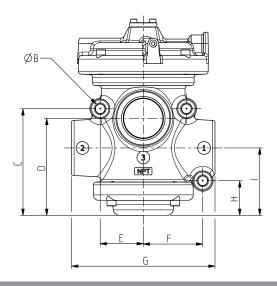
Α	В	С	D	E	F	G	Н	I	J	K	L	M
2.185 (55.5)	1.713 (43.5)	.886 (22.5)	2.480 (63.0)	2.953 (75.0)	1.240 (31.5)	2.165 (55.0)	3.957 (100.5)	.256 (6.5)	1.476 (37.5)	2.953 (75.0)	1/2" TO 3/4"	1/8"

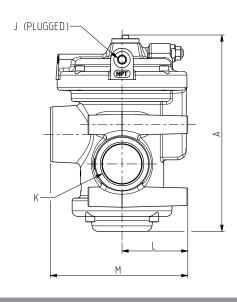
1" to 1-1/2" Dimensions for Air Pilot Actuated Vacuum Valves



1" Dimensions: inches (mm)

Α	В	С	D	E	F	G	Н	ı	J	К	L	М
4.508 (114.5)	2.283 (58.0)	2.441 (62.0)	1.850 (47.0)	.827 (21.0)	2.992 (76.0)	3.701 (94.0)	1.260 (32.0)	1.811 (46.0)	3.661 (93.0)	.335 (8.5)	1"	1/8"





1-1/2" Dimensions: inches (mm)

Α	В	С	D	E	F	G	Н	I	J	К	L	М
8.484 (215.5)	.394 (10.0)	4.606 (117.0)	4.193 (106.5)	1.870 (47.5)	2.579 (65.5)	6.220 (158.0)	1.496 (38.0)	2.913 (74.0)	1/8"	1-1/2"	2.854 (72.5)	5.965 (151.5)

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Repair Kits for Vacuum Valves

Port Size	Vacuum Valves
1/8"	M200795A00
1/4"	M200793A00
3/8"	M200798A00
1/2"	M200789A00 (Internal Pilot)
3/4"	M200788A00 (External Pilot)
1"	M200838A00 (Internal Pilot) M200786A00 (External Pilot)
1-1/2"	M200794A00

Standard Poppet Valve Weight Requirements

Solenoid Pilot for Vacuum

Port	Function	Weight				
(NPT)	FullCuoli	Lbs	Kg			
3/8"	NC/NO	0.93	0.42			
1/2"	NC/NO	2.56	1.16			
3/4"	NC/NO	2.31	1.05			
1"	NC/NO	2.47	1.12			
1-1/2"	NC/NO	7.12	3.228			

Air Pilot for Vacuum

Port (NPT)	Function	Weight	
		Lbs	Кд
3/8"	NC/NO	0.79	0.36
1/2"	NC/NO	2.43	1.1
3/4"	NC/NO	2.18	0.99
1"	NC/NO	2.34	1.06
1-1/2"	NC/NO	6.98	3.168