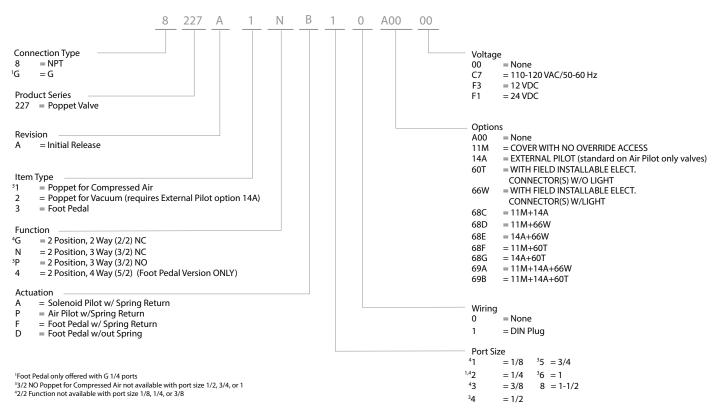
For Compressed Air and Vacuum

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	Minimum 9.8" of Hg (250 mm of Hg) Maximum 29.9" of Hg (759.5 mm of Hg)						
Pilot Range	43.5-145 PS	43.5-145 PSIG (3-10 Bar) (2-10 Bar)					
Temperature Range	23°F to +113°F	ambient (-5°C to +	45°C ambient)				
Coil Size		22mm					
Coil Class		В					

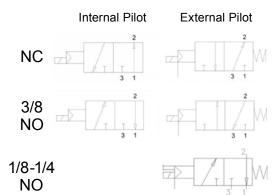
Operating Data

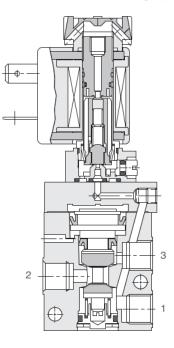
Voltage	12 VDC	24 VDC	110 VAC 50-60 Hz
Power Consumption	5V	V	8VA

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

Vacuum Valve Connections

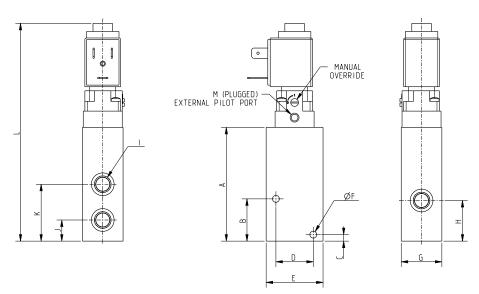
Function	P (1)	A (2)	R (3)
Normally Closed, Internal Pilot	Exhaust	Outlet	Pump
Normally Closed, External Pilot	Pump	Outlet	Exhaust
Normally Open, Internal Pilot	Pump	Outlet	Exhaust
Normally Open, External Pilot	Exhaust	Outlet	Pump





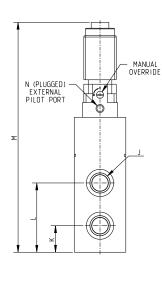


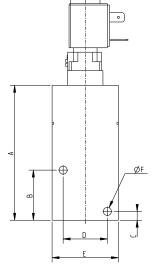
1/8" Dimensions for Solenoid Air Pilot Actuated Vacuum Valves

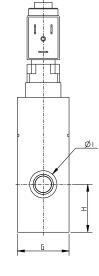


1/8" Di	mension	s: inches	(mm)									
Α	В	с	D	E	F	G	Н	I	J	к	L	м
2.756 (70.0)	1.024 (26.0)	.157 (4.0)	.906 (23.0)	1.378 (35.0)	.167 (4.25)	.984 (25)	.984 (25)	1/8"	.512 (13.0)	1.378 (35.0)	5.276 (134.0)	M5 THREAD

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



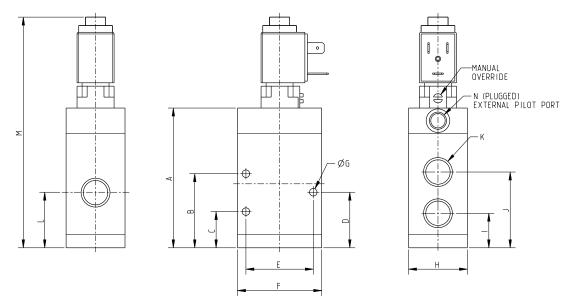




1/4" D	imensio	ns: inche	es (mm)										
А	В	с	D	E	F	G	н	I	J	к	L	м	N
3.602 (91.5)	1.339 (34.0)	.236 (6.0)	1.181 (30.0)	1.772 (45.0)	.217 (5.5)	1.378 (35)	1.280 (32.5)	.728 (18.5)	1/4"	.709 (18.0)	1.850 (47.0)	6.142 (156)	M5 THREAD



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

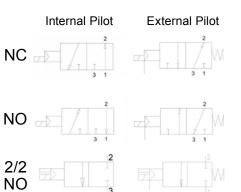


3/8" D	imensio	ns: inche	es (mm)										
Α	В	С	D	E	F	G	Н	I	J	к	L	М	Ν
3.268 (83.0)	1.732 (44.0)	.846 (21.5)	1.299 (33.0)	1.575 (40.0)	1.968 (50.0)	.177 (4.5)	1.377 (35.0)	.807 (20.5)	1.772 (45.0)	3/8"	1.299 (33.0)	5.394 (137.0)	1/8"

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





Technical Data

Ports (NPTF)	1/2"	3/4"	1"	1-1/2"
Cv	4.8	6.1	12.0	33.5
Operating Vacuum Range	T		Hg (250 mm of Hg) Hg (759.5 mm of Hg)
Pilot Pressure	3	30-145 PSIG (2-10 E	3ar)	50-145 PSIG (3.5-10 Bar)
Temperature Range	23°F	to +113°F ambient	t (-5°C to +45°C ambi	ient)
Coil Size		30	mm	
Coil Class			Н	

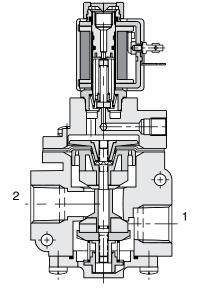
Operating Data

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

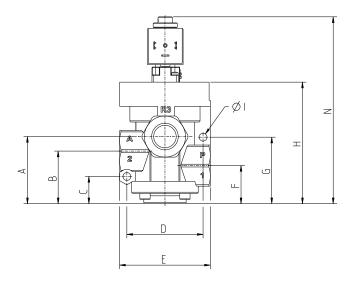
Function	P (1)	A (2)	R (3)
Normally Closed, Internal Pilot	Exhaust	Outlet	Pump
Normally Closed, External Pilot	Pump	Outlet	Exhaust
Normally Open, Internal Pilot	Pump	Outlet	Exhaust
Normally Open, External Pilot	Exhaust	Outlet	Pump

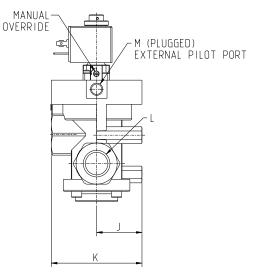


NOTE: Port 3 Cv must not be restricted

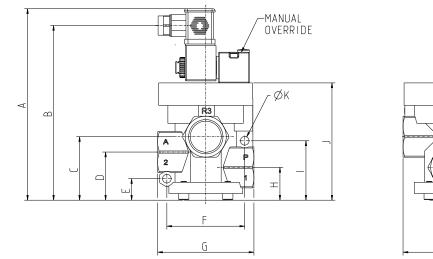


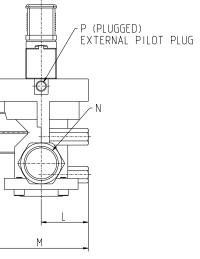
1/2" to 1" Dimensions for Solenoid Air Pilot Actuated





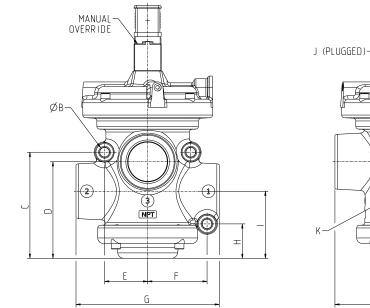
1/2" &	3/4" Dir	nension	s: inche	s (mm)									
Α	В	С	D	E	F	G	Н	I	J	К	L	М	Ν
2.185 (55.5)	1.713 (43.5)	.886 (22.5)	2.480 (63.0)	2.953 (75.0)	1.240 (31.5)	2.165 (55.0)	3.957 (100.5)	.256 (6.5)	1.476 (37.5)	2.953 (75.0)	1/2" TO 3/4"	1/8"	6.083 (154.5)





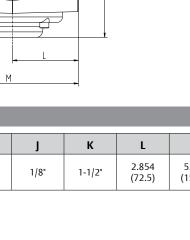
1" Dir	nension	s: inche	es (mm)											
Α	В	С	D	E	F	G	Н	I	J	к	L	м	N	Р
7.358 (186.9)	6.713 (170.5)	2.441 (62.0)	1.850 (47.0)	.827 (21.0)	2.992 (76.0)	3.701 (94.0)	1.260 (32.0)	2.283 (58.0)	4.508 (114.5)	.335 (8.5)	1.811 (46.0)	3.661 (93.0)	1"	1/8"





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

		-		G			-	M				
1-1/2"	Dimensio	ons: inch	es (mm)									
Α	В	С	D	E	F	G	Н	I	J	К	L	М



E 3



AVENTICS™

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

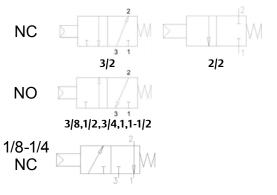
NOTE:

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

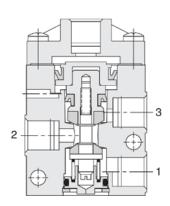
NOTE:

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.

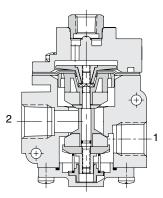




1/8" - 3/8"



1/2" - 1-1/2"

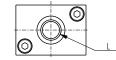


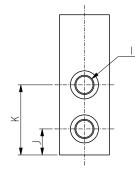
Technical Data

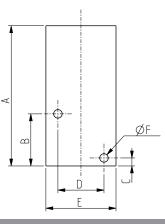
Ports (NPTF)	1/8" 1/4" 3/8"							
Cv	0.84	0.84 1.56 1.8						
Operating Vacuum Range		Minimum 9.8" of Hg (250 mm of Hg) Maximum 29.9" of Hg (759.5 mm of Hg)						
Pilot Range	36-145 PSIG	(2.5-10 Bar)	30-145 PSIG (2-10 Bar)					
Temperature Range	23°F to +158°F ambient (-5°C to +70°C ambient)							

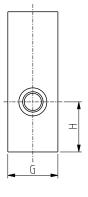
Ports (NPTF)	1/2"	1/2" 3/4" 1"						
Cv	4.8 6.1 12.0 33.5							
Operating Vacuum Range	Minimum 9.8" of Hg (250 mm of Hg) Maximum 29.9" of Hg (759.5 mm of Hg)							
Pilot Pressure	3	30-145 PSIG (2-10 Bar) 50-145 PSIG (3.5-10 Bar)						
Temperature Range	23°F	to + 158°F ambien	t (-5°C to +70°C amb	ient)				

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







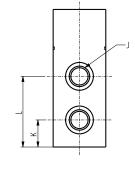


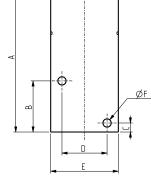
1/8" Dimensions: inches (mm)

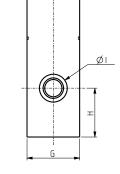
А	В	с	D	E	F	G	Н	I	J	к	L
2.756 (70.0)	1.024 (26.0)	.157 (4.0)	.906 (23.0)	1.378 (35.0)	.167 (4.25)	.984 (25)	.984 (25)	1/8"	.512 (13.0)	1.378 (35.0)	1/8"

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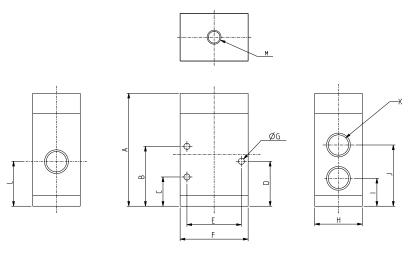


1/4" Dimensions: inches (mm)

Α	В	С	D	E	F	G	Н	I	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"

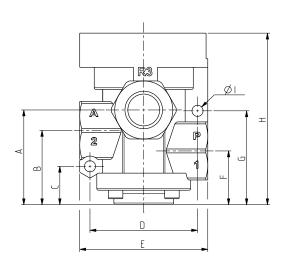


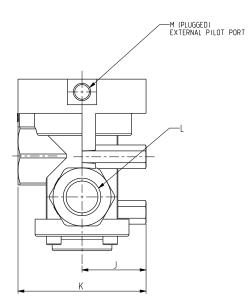
3/8" Dimensions for Air Pilot Actuated Vacuum Valves



3/8" Di	mension	s: inches	(mm)									
Α	В	с	D	E	F	G	н	I	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

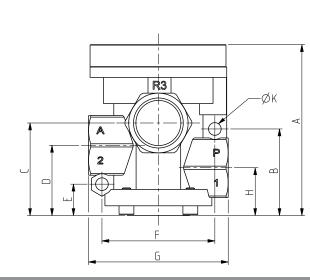




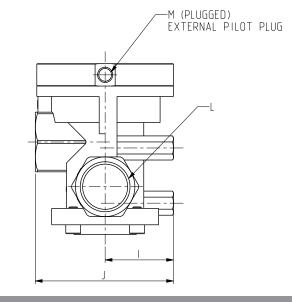
1/2" & 3/4" Dimensions: inches (mm)

Α	В	С	D	E	F	G	Н	I	J	К	L	М
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"



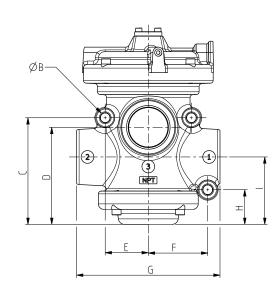


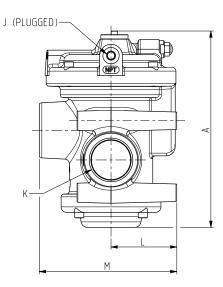




1" Dimensions: inches (mm)

Α	В	с	D	E	F	G	Н	I	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)



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) M200837A00 (External Pilot)
1-1/2"	M200794A00

Standard Poppet Valve Weight Requirements

Solenoid Pilot for Vacuum

Port	Function	Weight				
(NPT)	runction	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	Function	Weight				
(NPT)	runction	Lbs	Kg			
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			

