

AVENTICSTM **Series 227 Poppet Valves**Rugged, high flow valves ideal for single-acting cylinders, air bellows, and vacuum material handling



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For Compressed Air and Vacuum

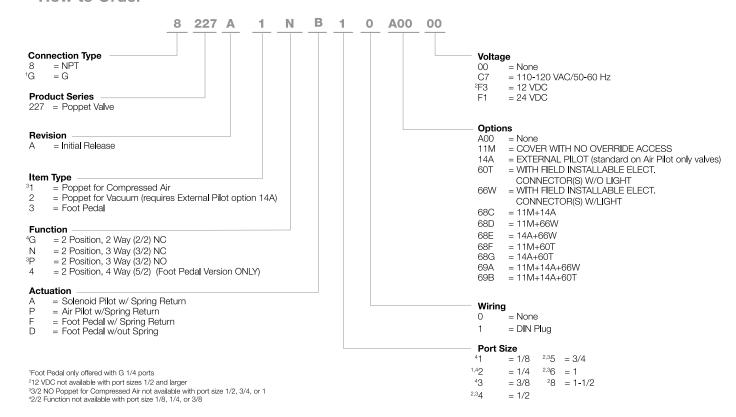
The Aventics Poppet Valves are ideal for single acting cylinders,

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 Compressed Air Valves - 1/8" to 3/8"

- 2 Position, 3 Way (3/2)
- Normally Closed (NC) or Normally Open (NO)
- Internal or External Pilot
- · Solenoid pilot actuated
- Use with air or neutral gas
- AC & DC voltages available

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

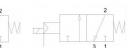
NOTE:

For the Normally Open (NO) version the inlet port must be connect to the exhaust port No "3"

Internal Pilot	E
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External Pilot









Technical Data

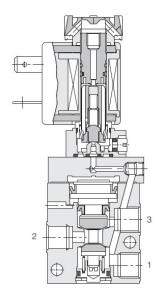
Ports (NPTF)	1/8"	1/4"	3/8"		
Cv	0.84	1.56	1.8		
Operating Pressure Range	43.5-145 PS	36-145 PSIG (2.5-10 Bar)			
Temperature Range (Ambient)	23° to +113°F ambient (-5° to +45°C ambient)				
Coil Size		22mm			

 $^{^{1}}$ If ΔP from P1 to P2 is near 1 bar or less external pilot is required.

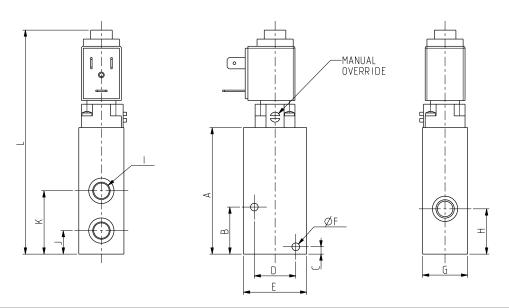
Operating Data

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

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

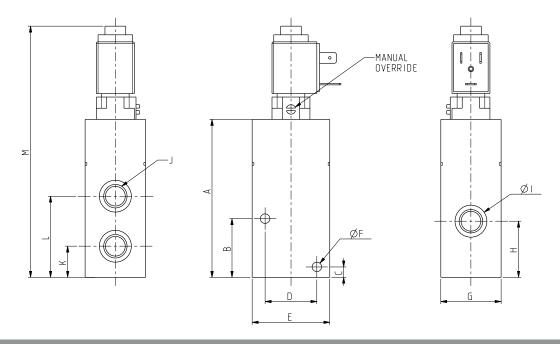


1/8" to 1/4" Dimensions for Solenoid Air Pilot Actuated



1/8" NPT Dimensions: inches (mm)

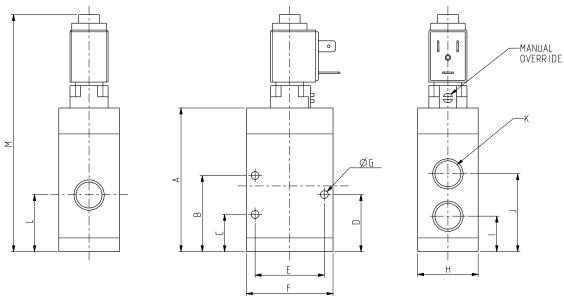
Α	В	C	D	Е	F	G	Н	I	J	K	L
2.756	1.024	.157	.906	1.378	.167	.984	.984	1/8"	.512	1.378	4.882
(70.0)	(26.0)	(4.0)	(23.0)	(35.0)	(4.25)	(25)	(25)	NPT	(13.0)	(35.0)	(124.0)



1/4" NPT Dimensions: inches (mm)

Α	В	C	D	E	F	G	Н	ı	J	K	L	М
3.602	1.339	.236	1.181	1.772	.217	1.378	1.280	.728	1/4"	.709	1.850	5.728
(91.5)	(34.0)	(6.0)	(30.0)	(45.0)	(5.5)	(35)	(32.5)	(18.5)	NPT	(18.0)	(47.0)	(145.5)

3/8" Dimensions for Solenoid Air Pilot Actuated



3/8" N	PT Dime	nsions:	inches (r	nm)								
Α	В	С	D	E	F	G	Н	ı	J	K	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" NPT	1.299 (33.0)	5.394 (137.0)

AVENTICSTM

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

- 2 Position, 2 Way (2/2) and 3 Way (3/2)
- Normally Closed (NC) or Normally Open (NO)
- Internal or External Pilot
- Solenoid pilot actuated
- Use with air or neutral gas
- AC & DC voltages available



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.

NOTE:

Normally Open (NO) version not available in sizes 1/2, 3/4 and 1

NOTE:

1-1/2" valve, for the Normally Open (NO) version the inlet port must be connect to the exhaust port No "3"



Technical Data

Ports (NPTF)	1/2"	3/4"	1"	1-1/2"						
Cv	4.8	6.1	12.0	33.5						
Operating Pressure Range		36-145 PSIG (2.5-10 Bar)								
Temperature Range (Ambient)	23°F	23°F to +113°F ambient (-5°C to +45°C ambient)								
Coil Size	30mm									

¹ If ΔP from P1 to P2 is near 1 bar or less external pilot is required.

Internal Pilot External Pilot



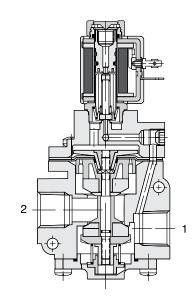




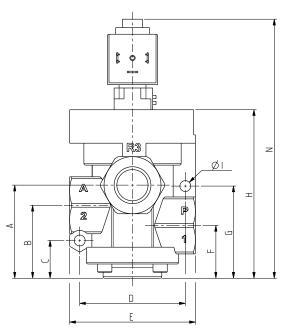
Operating Data

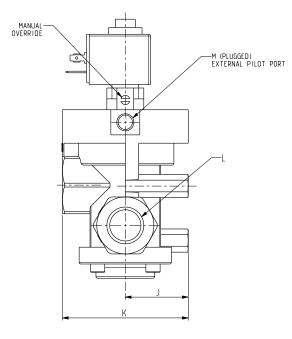
Ports (NPTF)	1/2" 8	<u>k</u> 3/4"	1" & 1-1/2"			
Voltage	24VDC	110VAC	24VDC	115VAC 50Hz 120VAC 60Hz		
Power Consumption	4W	9VA	3W	4VA		

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



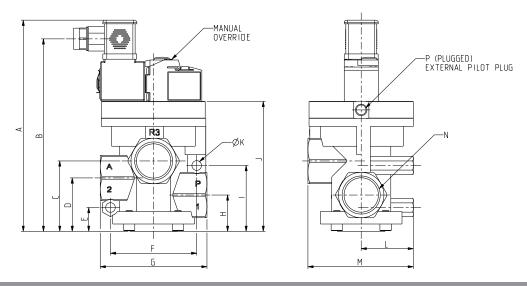
1/2" to 1" Dimensions for Solenoid Air Pilot Actuated





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

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

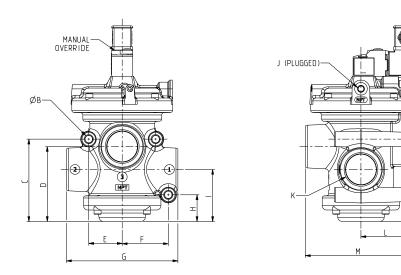


1" NPT Dimensions: inches (mm)

Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	P
7.323	6.677	2.441	1.850	.827	2.992	3.701	1.260	2.283	4.508	.335	1.811	3.661	1"	1/8"
(186.0)	(169.6)	(62.0)	(47.0)	(21.0)	(76.0)	(94.0)	(32.0)	(58.0)	(114.5)	(8.5)	(46.0)	(93.0)	NPT	GTAP



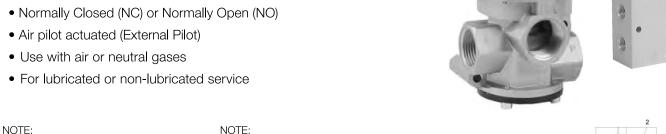
1-1/2" Dimensions for Solenoid Air Pilot Actuated



1-1/2"	NPT Dir	nensions	s: inches	(mm)								
Α	В	C	D	E	F	G	Н	I	J	K	L	М
10.299	.394	4.606	4.193	1.870	2.579	6.220	1.496	2.913	1/8"	1-1/2"	2.854	5.965

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

- 2 Position, 2 Way (2/2) and 3 Way (3/2)



NOTE: NOTE:

1/8", 1/4", 3/8" and 1-1/2" valves, for the Normally Open (NO) version the inlet port must be connect to the exhaust port No "3"

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.

Normally Open (NO) version not available in sizes 1/2, 3/4 and 1

Technical Data

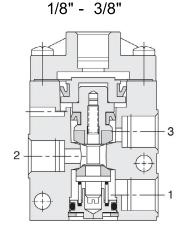
Ports (NPTF)	1/8"	1/4"	3/8"			
Cv	0.84	1.56	1.8			
Operating Pressure Range	36	8-145 PSIG (2.5-10	Bar)			
Pilot Pressure	Minimum 36 PSIG (2.5)					
Temperature Range	23° to +158°	°F ambient (-5° to +	-70°C ambient)			

¹ If ΔP from P1 to P2 is near 1 bar or less external pilot is required.

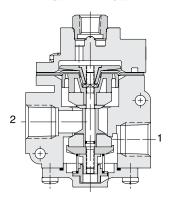
Ports (NPTF)	1/2"	3/4"	1"	1-1/2"					
Cv	4.8	6.1	12.0	33.5					
Operating Pressure Range		36-145 PSI	G (2.5-10 Bar)						
Pilot Pressure		Minimum 36 PSIG (2.5)							
Temperature Range	23° to +158°F ambient (-5° to +70°C ambient)								

Response Time (Seconds)	Energize	De-Energize
1/8" (NC, NO)	0.005	0.008
1/4" & 3/8" (NC, NO)	0.005	0.007
1/2" & 3/4" (NC)	0.007	0.010
1" (NC)	0.010	0.012
1-1/2" (NC)	0.036	0.015

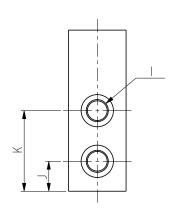
NC: normally closed NO: normally open

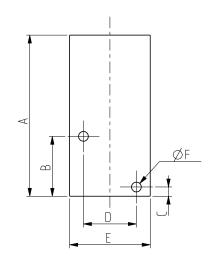


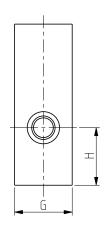
1/2" - 1-1/2"



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

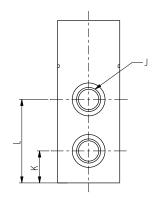


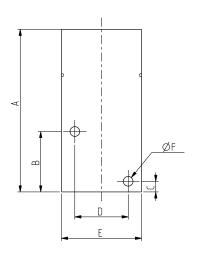


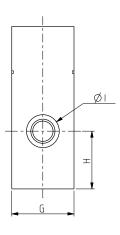


1/8" NPT Dimensions: inches (mm)

A	В	C	D	E	F	G	Н	I	J	K
2.756	1.024	.157	.906	1.378	.167	.984	.984	1/8"	.512	1.378
(70.0)	(26.0)	(4.0)	(23.0)	(35.0)	(4.25)	(25)	(25)	NPT	(13.0)	(35.0)



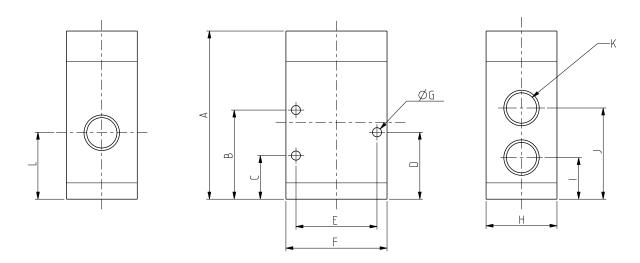




1/4" NPT Dimensions: inches (mm)

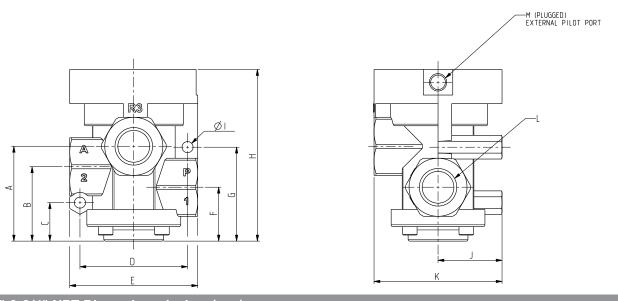
Α	В	C	D	E	F	G	Н	I	J	K	L
3.602	1.339	.236	1.181	1.772	.217	1.378	1.280	.728	1/4"	.709	1.850
(91.5)	(34.0)	(6.0)	(30.0)	(45.0)	(5.5)	(35)	(32.5)	(18.5)	NPT	(18.0)	(47.0)

3/8" Dimensions for Air Pilot Actuated



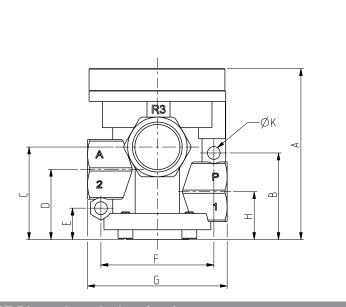
3/8" NF	3/8" NPT Dimensions: inches (mm)											
Α	В	C	D	E	F	G	Н	I	J	K	L	
3.268 (83.0)	1.732 (44.0)	.846 (21.5)	1.299	1.575 (40.0)	1.969	.177	1.378 (35.0)	807 (20.5)	1.772 (45.0)	3/8" NPT	1.299	

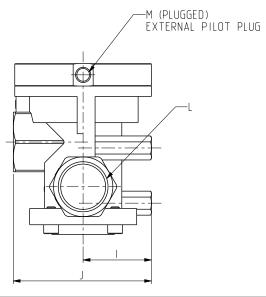
1/2" & 3/4" Dimensions for Air Pilot Actuated



1/2" &	3/4" NF	PT Dimei	nsions: i	nches (n	nm)							
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" NPT	1/8" GTAP

1" Dimensions for Air Pilot Actuated

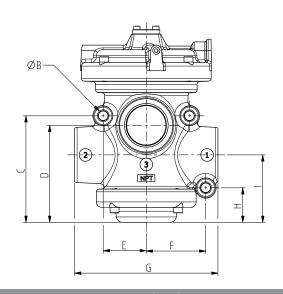


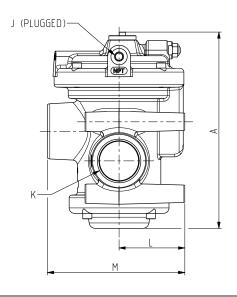


1" NPT Dimensions: inches (mm)

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

1-1/2" Dimensions for Air Pilot Actuated





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

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

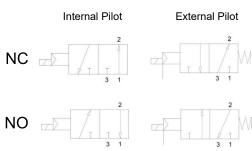
Solenoid Air Pilot Actuated Vacuum Valves - 1/8" to 3/8"

- 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

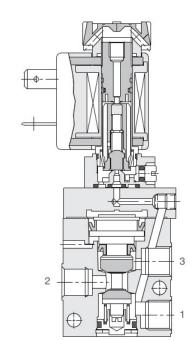
Ports (NPTF)	1/8"	1/4"	3/8"			
Cv	0.84	1.56	1.8			
Operating Vacuum Range		9.8" of Hg (250 m 29.9" of Hg (759.5				
Pilot Range	43.5-145 PS	IG (3-10 Bar)	30-145 PSIG (2-10 Bar)			
Temperature Range	23°F to +113°F ambient (-5°C to +45°C ambient					
Coil Size		22mm				



Operating Data

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

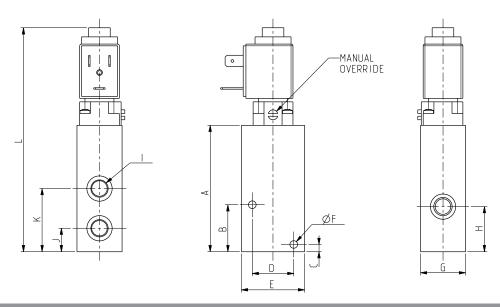
Plug Specifications: NEMA 4, IP 65 with plug-in connector Solenoid Rating: Continuous Duty



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

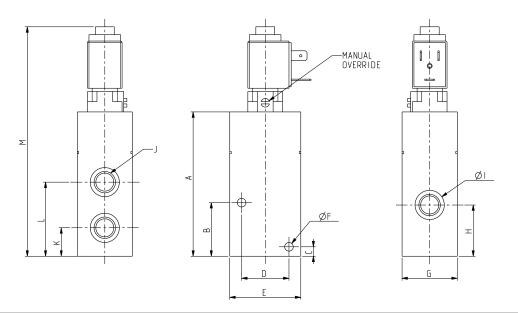
1/8" Dimensions for Solenoid Air Pilot Actuated Vacuum Valves



1/8" NPT Dimensions: inc	ches	(mm)
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A	В	С	D	E	F	G	Н	I	J	K	L
2.756	1.024	.157	.906	1.378	.167	.984	.984	1/8"	.512	1.378	4.882
(70.0)	(26.0)	(4.0)	(23.0)	(35.0)	(4.25)	(25)	(25)	NPT	(13.0)	(35.0)	(124.0)

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

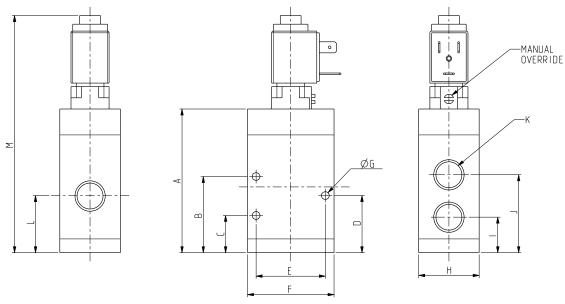


1/4" NPT Dimensions: inches (mm)

A	В	С	D	E	F	G	Н	I	J	K	L	М
.602	1.339	.236	1.181	1.772	.217	1.378	1.280	.728	1/4"	.709	1.850	5.728
91.5)	(34.0)	(6.0)	(30.0)	(45.0)	(5.5)	(35)	(32.5)	(18.5)	NPT	(18.0)	(47.0)	(145.5)



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



3/8" NPT Dimensions: inches (mm)												
Α	В	C	D	E	F	G	Н	ı	J	K	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" NPT	1.299 (33.0)	5.394 (137.0)

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

- 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



Internal Pilot

External Pilot









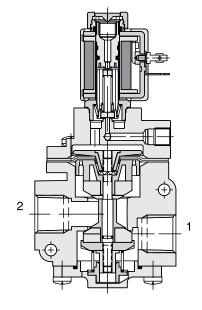
Technical Data

Ports (NPTF)	1/2" 3/4" 1" 1-1/2"							
Cv	4.8 6.1 12.0 33							
Operating Vacuum Range	Minimum 9.8" of Hg (250 mm of Hg) Maximum 29.9" of Hg (759.5 mm of Hg)							
Pilot Pressure		30-145 PSI	IG (2-10 Bar)					
Temperature Range	23°F to +113°F ambient (-5°C to +45°C ambient)							
Coil Size	30mm							

Operating Data

Ports (NPTF)	1/2" 8	§ 3/4"	1" & 1-1/2"			
Voltage	24VDC	110VAC	24VDC	115VAC 50Hz 120VAC 60Hz		
Power Consumption	4W	9VA	3W	4VA		

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

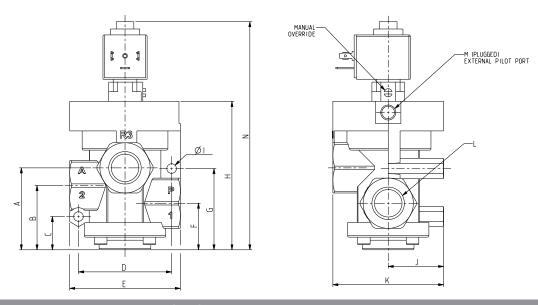


NOTE: Port 3 Cv must not be restricted

Vacuum Valve Connections

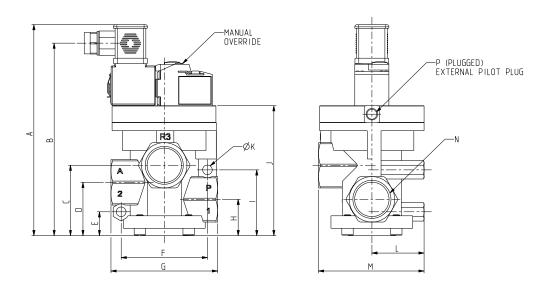
Function	P (1)	A (2)	R (3)
Normally Closed, Internal Pilot	Exhaust	Outlet	Pump
Normally Closed, External Pilot	Pump	Outlet	Exhaust
Normally Open, Internal Pilot	Pump	Outlet	Exhaust
Normally Open, External Pilot	Exhaust	Outlet	Pump

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



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

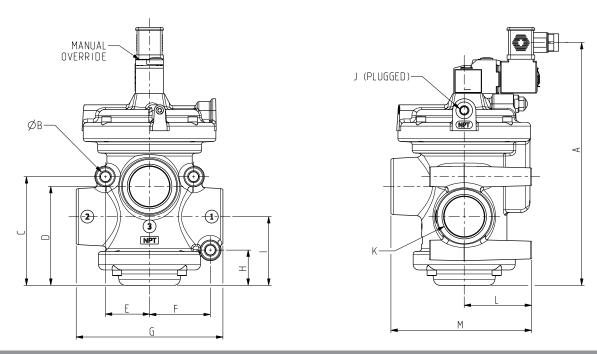
Α	В	С	D	E	F	G	Н	ı	J	K	L	M	N
2.185	1.713	.886	2.480	2.953	1.240	2.165	3.957	.256	1.476	2.953	1/2" TO 3/4"	1/8"	6.083
(55.5)	(43.5)	(22.5)	(63.0)	(75.0)	(31.5)	(55.0)	(100.5)	(6.5)	(37.5)	(75.0)	NPT	GTAP	(154.5)



1" NPT Dimensions: inches (mm)

Α	В	C	D	E	F	G	Н	ı	J	K	L	М	N	P
7.323	6.677	2.441	1.850	.827	2.992	3.701	1.260	2.283	4.508	.335	1.811	3.661	1"	1/8"
(186.0)	(169.6)	(62.0)	(47.0)	(21.0)	(76.0)	(94.0)	(32.0)	(58.0)	(114.5)	(8.5)	(46.0)	(93.0)	NPT	GTAP

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



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

Α	В	C	D	E	F	G	Н	I	J	K	L	M
10.299	.394	4.606	4.193	1.870	2.579	6.220	1.496	2.913	1/8"	1-1/2"	2.854	5.965
(261.6)	(10.0)	(117.0)	(106.5)	(47.5)	(65.5)	(158.0)	(38.0)	(74.0)	GTAP	NPT	(72.5)	(151.5)

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

- 2 Position, 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

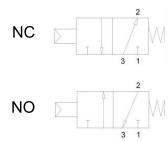
NOTE:

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.



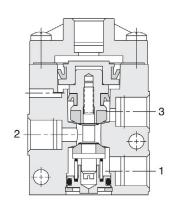


Technical Data

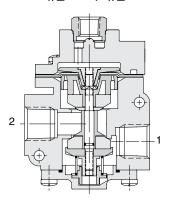
Ports (NPTF)	1/8"	1/4"	3/8"				
Cv	0.84	1.56	1.8				
Operating Vacuum Range	Minimum 9.8" of Hg (250 mm of Hg) Maximum 29.9" of Hg (759.5 mm of Hg)						
Pilot Range	36-145 PSIG	i (2.5-10 Bar)	30-145 PSIG (2-10 Bar)				
Temperature Range	23°F to +158°F ambient (-5°C to +70°C ambient)						

Ports (NPTF)	1/2"	1/2" 3/4" 1" 1-										
Cv	4.8	4.8 6.1 12.0					6.1 12.0					
Operating Vacuum Range	N	Minimum 9.8" of Hg (250 mm of Hg) Maximum 29.9" of Hg (759.5 mm of Hg)										
Pilot Pressure		30-145 PSI	IG (2-10 Bar)									
Temperature Range	23°F to + 158°F ambient (-5°C to +70°C ambient)											

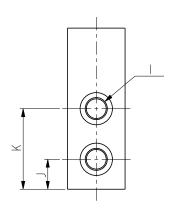


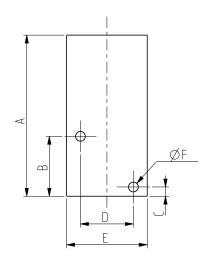


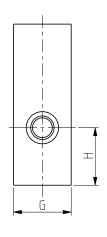
1/2" - 1-1/2"



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

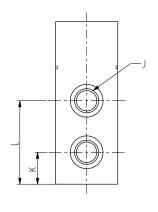


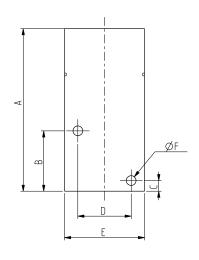


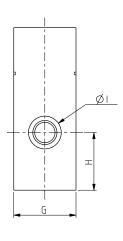


1/8" NPT Dimensions: inches (mm)

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



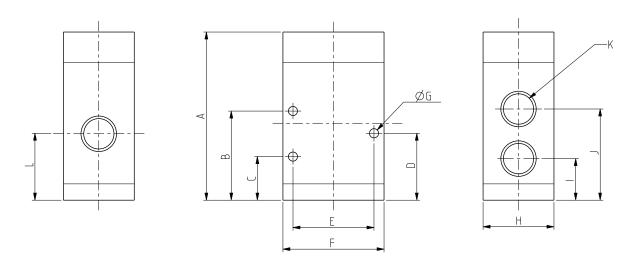




1/4" NPT Dimensions: inches (mm)

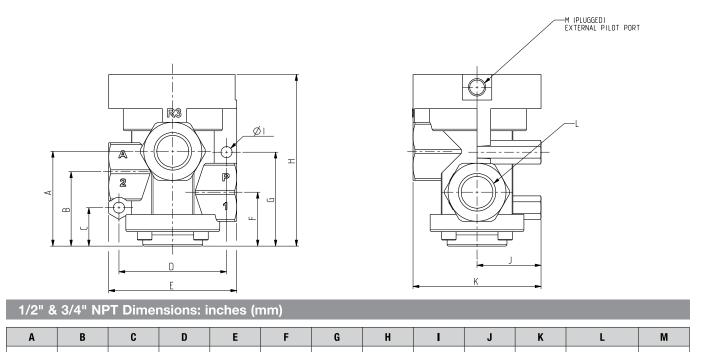
Α	В	С	D	E	F	G	Н	I	J	K	L
3.602	1.339	.236	1.181	1.772	.217	1.378	1.280	.728	1/4"	.709	1.850
(91.5)	(34.0)	(6.0)	(30.0)	(45.0)	(5.5)	(35)	(32.5)	(18.5)	NPT	(18.0)	(47.0)

3/8" Dimensions for Air Pilot Actuated Vacuum Valves



3/8" N	PT Dimen	sions: in	ches (mm	1)							
Α	В	C	D	E	F	G	Н	I	J	К	L
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" NPT	1.299 (33.0)

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



1.713

(43.5)

2.480

(63.0)

.886

(22.5)

2.953

(75.0)

1.240

(31.5)

2.185

(55.5)

1/8"

GTAP

2.165

(55.0)

3.957

(100.5)

1.476

(37.5)

.256

(6.5)

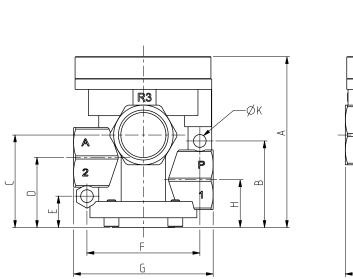
2.953

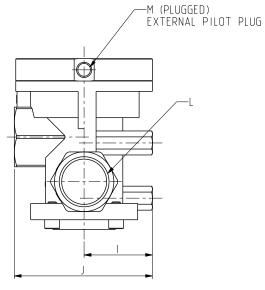
(75.0)

1/2" TO 3/4"

NPT

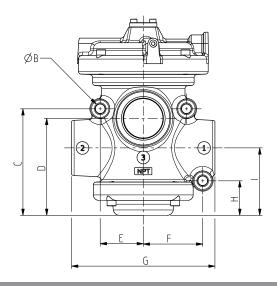
1" to 1-1/2" Dimensions for Air Pilot Actuated Vacuum Valves

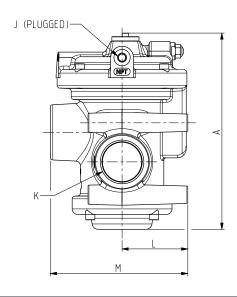




1" NPT Dimensions: inches (mm)

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





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

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

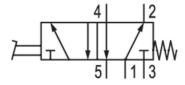
227 Series Pedal Valve

- 2 Position, 5 Way (5/2)
- Nylon shell & steel reinforced base plate
- Die cast zinc alloy valve body
- Spring return & detented models
- Large opening for foot operation



Technical Data

Ports (NPTF)	1/4" Spring	1/4" Pedal					
Cv	136						
Maximum Operating Pressure	145 PSIG (10 Bar)						
Temperature Range	23°F to +122°F ambient (-5°C to +50°C ambient						
Fluid Temperature Range	23°F to +122°F ambient (-5°C to +50°C ambier						



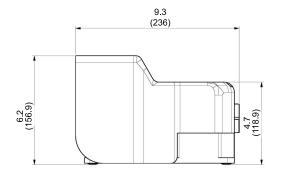
Spring Return Pedal

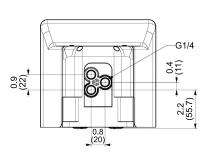
4 2 7

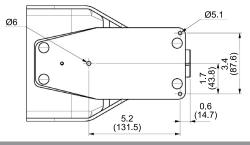
Detented Operation Pedal

Operating Data

Foot Pedal Description	Part No.
1/4" GTAP Spring Return	G227A34F20A0000
1/4" GTAP Without Spring	G227A34D20A0000







Note: Exhaust ports 3 & 5 are located under the cover

Pedal Valve Dimensions: inches (mm)

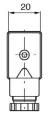
22m Coil (for 1/8", 1/4" & 3/8" sizes)

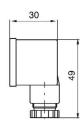
Туре	Overall Dimensions	*Duty	Consun	ption	Tolera	nce	Mass	Rated Voltage	Part Number	
Турс	overall billicusions	Cycle	Continuous	In-Rush	Frequency	Voltage	Kg	nateu voltage		
								12VDC	M200717A00	
		100%	5W	5W	_	±10%	0.54	24VDC	M200718A00	
	9	100%	8VA	14VA	10%	±10%	0.54	110VAC 50-60HZ	M200720A00	

^{*}Under continuous service a maximum temperature will not compromise the functioning of the coil provided that the working position is ventilated.

PLUG-IN CONNECTOR ASSEMBLIES







Plug Connector Description	Part No.
Black Plug Assembly	M200727A00
Plug assembly with 24V Light	M200728A00
Plug assembly with 110V Light	M200729A00

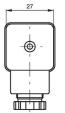
30mm Coil (for 1/2", 3/4", 1" & 1-1/2" sizes)

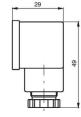
Туре	Overall Dimensions	Ports	*Duty	Consum	ption	Tolera	nce	Mass	Rated	Part Number
туре	Overall Difficultions	(NPTF)	Cycle	Continuous	In-Rush	Frequency	Voltage	Kg	Voltage	r art Number
	30 38 × 20	1/2" & 3/4"	100%	4W	4W	l	±10%	0.11	24VDC	M200723A00
I		3/4		9VA	14VA	50-60HZ	±10%		110VAC	M200725A00
120.2				3W	ЗW	ı	±10%		24VDC	43005642
	1" & 1-1/2"		100%	4VA	9VA	50-60HZ	±10%	0.27	115V/50 120V/60	43005617

^{*}Under continuous service a maximum temperature will not compromise the functioning of the coil provided that the working position is ventilated.

PLUG-IN CONNECTOR ASSEMBLIES







Part No.
M200731A00
M200732A00
M200733A00

Pipe Plug - NAF Series	Part No.
1/8"	129-100
1/4"	129-101
3/8"	129-102



Repair Kits for Compressed Air and Vacuum Valves

Port Size	Compressed Air Valves	Vacuum Valves	
1/8"	M200795A00	M200796A00	
1/4"	M200792A00	M200793A00	
3/8"	M200797A00	M200798A00	
1/2"	M200788A00	M200789A00	
3/4"	M200790A00	M200791A00	
1"	M200786A00	M200787A00	
1-1/2"	M200794A00		

Standard Poppet Valve Weight Requirements

Solenoid Pilot for Air

Port	Port Function	Weight	
(NPT)		Lbs	Kg
1/8"	NC/NO	0.53	0.24
1/4"	NC/NO	1.01	0.45
3/8"	NC / NO	0.93	0.42
1/2"	NC	2.56	1.16
3/4"	NC	2.31	1.05
1"	NC	2.47	1.12
1-1/2"	NC/NO	7.96	3.61

Solenoid Pilot for Vacuum

Port Function	Eunotion	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 Air

Port	Function	Weight	
(NPT)		Lbs	Kg
1/8"	NC / NO	0.37	0.17
1/4"	NC/NO	0.87	0.395
3/8"	NC/NO	0.79	0.36
1/2"	NC	2.43	1.1
3/4"	NC	2.18	0.99
1"	NC	2.34	1.06
1-1/2"	NC/NO	7.83	3.55

Air Pilot for Vacuum

Port	Function	Weight	
(NPT)		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

Poppet Valve FAQs

- 1. Are different coils available on the smaller sized poppet valves? Yes, but a special part number is required.
- 2. Is the manual override held captive in place?

 Yes, the solenoid stem itself locates and holds the manual override in place.
- 3. Is there an option code for external piloting solenoid air valves? *The option code is 14A.*
- 4. What are these valves best suited for?

 These valves are particularly suitable for applications where high flow and cycle rates are required.
- 5. Is a lower watt solenoid operator available? Yes, but a special part number is required.
- 6. Is field conversion from internal to external pilot supply possible? Yes, in certain cases. Please consult factory.
- 8. Is it possible to convert NC to NO? Yes, in certain cases. Please consult factory.
- 9. What is the cycle life of the poppet valves? Recent tests have recorded 9 million cycles.
- 10. Are FKM seals available with the poppet valve? No, they are not available.
- 11. Are poppet valves strictly used for air?

 Inert gases can be used with these valves.
- 12. Can the internally piloted vacuum valve operate in an "open" circuit? No, as stated, 9.8" of Hg is the minimum required.

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