

numatics



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For Compressed Air and Vacuum

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

CAD Drawings Available

High Flow

Rugged Design

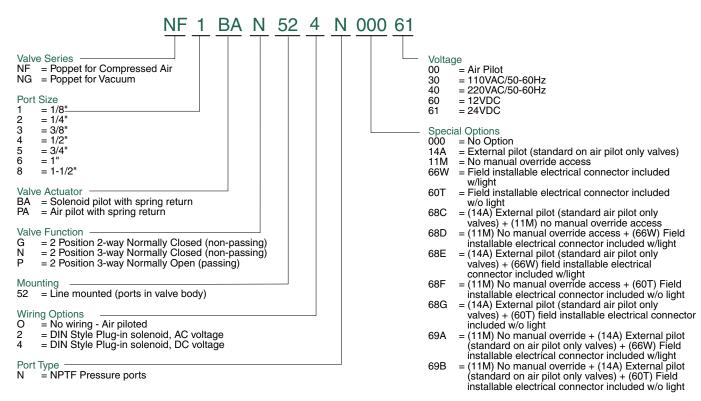
Bubble Tight

Low Cost

CSA and CE Approved



How to Order



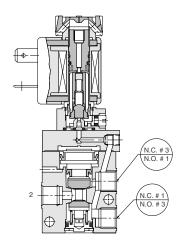




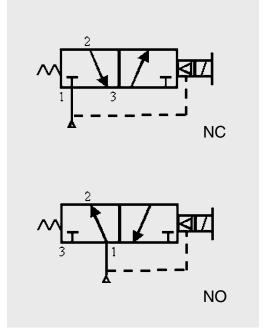
Poppet Valves NF Series

Solenoid Pilot Actuated - 1/8" to 3/8"

- 3-way design
- Use with air or neutral gas
- AC & DC voltages available







NOTE: 3-ported, 2 position valve (1/8" to 3/8") can be converted to a 2 way valve by inserting a pipe plug into the exhaust port.

Technical Data

PORTS (NPTF)	1/8"	1/4"	3/8"
Cv	0.5	1.8	2
Flow Capacity	23 SCFM* (492 NI/min)**	83 SCFM* (1773 NI/min)**	93 SCFM* (1970 NI/min)**
	*80 PSIG upstream press	sure to atmosphere downstream **6 Bar upstream to 5	Bar downstream
Operating Pressure Range		24-145 PSIG (1.7 - 10 Bar)	
Temperature Range	23	o to +122°F ambient (-5° to +50°C ambie	ent)
Coil Type		U1 Series Coil	

Operating Data

VOLTAGE	12VDC	24VDC	110 VAC 50-60Hz	220 VAC 50-60Hz
Power Consumption	3.5W	3.5W	max 5VA	max 5VA
In-rush Current	3.5W	3.5W	max 7.8VA	max 7.8VA

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



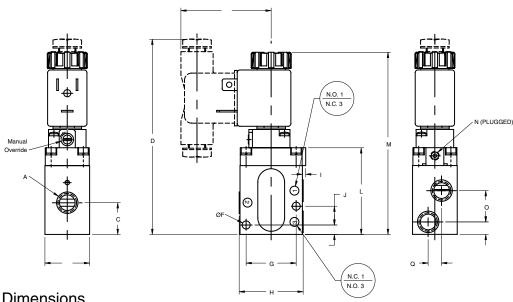
RESPONSE TIME (SECONDS)	ENERGIZE	DE-ENERGIZE
1/8" (NC)	0.015	0.020
1/2" & 3/4" (NO)	0.030	0.023
1" (NC) NC: normally closed NO: normally open	0.015	0.030







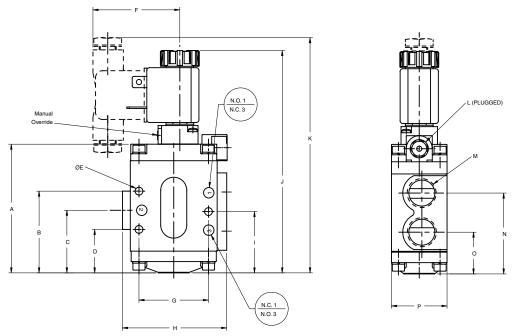
1/8" to 3/8" Dimensions for Solenoid Pilot Actuated



1/8" NPT Dimensions

Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	Q
1/8" NPT	0.984 (25.0)	0.699 (17.8)			0.177 (4.5)	1.102 (28.0)	1.417 (36.0)	0.073 (1.9)	0.413 (10.5)	0.209 (5.3)	1.909 (48.5)	4.016 (102.0)	(M5)	0.689 (17.5)	0.276 (7.0)	0.295 (7.5)

1/4" to 3/8" Dimensions for Solenoid Pilot Actuated



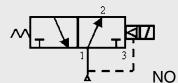
1/4" to 3/8" NPT Dimensions

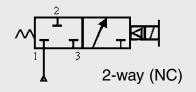
Α	В	С	D	E	F	G	Н	1	J	K	L	М	N	0	Р
2.913 (74.0)	1.850 (47.0)	1.417 (36.0)	0.984 (25.0)	0.177 (4.5)	2.028 (51.5)	1.575 (40.0)	2.362 (60.0)	1.398 (35.5)	5.079 (129.0)	5.354 (136.0)	1/8" NPT	1/4" or 3/8" NPT	1.850 (47.0)	0.945 (24.0)	0.945 (24.0)





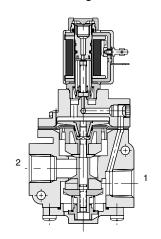
Poppet Valves NF Series





Solenoid Pilot Actuated - 1/2" to 1-1/2"

- 3-way design & 2-way design
- Use with air or neutral gas
- Solenoid pilot actuated
- AC & DC voltages available





NOTE:

- Always Supply Port #1
- Manual override (11M) is not available on N/O (normally open) valves

NC

- Port 3 Cv must not be restricted.

- Normally open valve is a normally closed function using a normally open pilot operator

NOTE: 1/2" to 1-1/2" valves cannot be converted to a 2 ported (2-way), 2 position valve. If a 2-way valve is required, it must be ordered as a 2-way.

Technical Data

PORTS (NPTF)	1/2"	3/4"	1"	1-1/2"					
Cv	5	5.6	8.8	24					
Flow Capacity	232 SCFM* (4924 NI/min)**	260 SCFM* (5515 NI/min)**	407 SCFM*** (8667 NI/min)**	1111 SCFM**** (23637 NI/min)**					
	*80 PSIG upstream pressure t **6 Bar upstream to		***70 PSIG upstream pressure to atmosphere downstream ****60 PSIG upstream pressure to atmosphere downstream						
Operating Pressure Range	30-145 PSIG	(2 - 10 Bar)	32-145 PSIG (2.2 - 10 Bar)	36-145 PSIG (2.5 - 10 Bar)					
Temperature Range	23°F to +122°F ambient (-5°C to +50°C ambient)								
Coil Type	U2 Series Coil								

Operating Data

VOLTAGE	12VDC	24VDC	110 VAC 50-60Hz	220 VAC 50-60Hz
Power Consumption	11W	11W	max 10VA	max 10VA
In-rush Current	11W	11W	max 16VA	max 16VA

Plug Specifications: NEMA 4, IP 65 with plug-in connector

Solenoid Rating: Continuous Duty



RESPONSE TIME (SECONDS)	ENERGIZE	DE-ENERGIZE
1/2" & 3/4" (NC)	0.017	0.027
1/2" & 3/4" (NO)	0.030	0.022
1" (NC)	0.020	0.032
1" (NO)	0.028	0.023
1-1/2" (NC)	0.047	0.022
1-1/2" (NO)	0.055	0.020

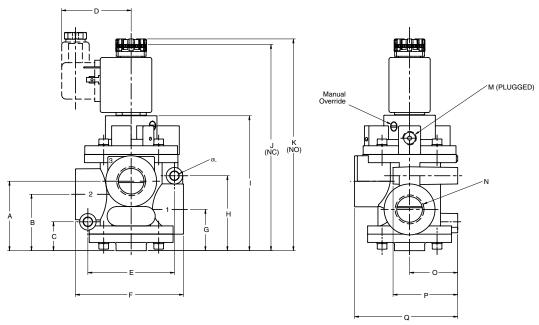
NC: normally closed NO: normally open





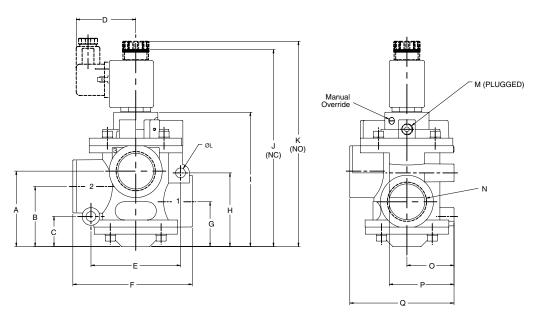


1/2" TO 1" Dimensions for Solenoid Pilot Actuated



1/2" & 3/4" NPT Dimensions

Α	В	С	D	Ε	F	G	Н	- 1	J	K	L	М	N	0	Р	Q
1.988	1.614	0.827	1.988	2.480	3.091	1.181	2.146	3.996	5.906	6.063	0.252 (6.4)	1/8"	1/2" to	1.378	1.850	2.953
(50.0)	(41.0)	(21.0)	(50.5)	(63.0)	(78.5)	(30.0)	(54.5)	(101.5)	(150.0)	(154.0)		NPT	3/4"	(35.0)	(47.0)	(75.0)



1" NPT Dimensions

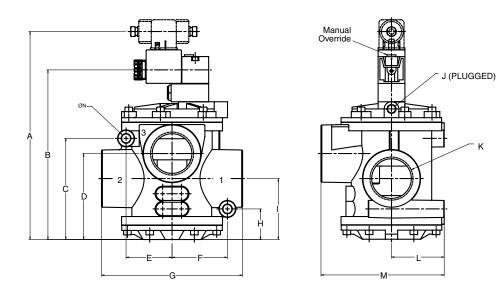
Α	В	С	D	E	F	G	Н	ı	J	K	L	М	N	0	Р	Q
2.520	2.008	1.004	1.969	2.992	3.976	1.496	2.461	4.528	6.575	6.850	0.331	1/8"	1"	1.575	2.165	3.504
(64.0)	(51.0)	(25.5)	(50.0)	(76.0)	(101.0)	(38.0)	(62.5)	(115.0)	(167.0)	(174.0)	(8.4)	NPT	NPT	(40.0)	(55.0)	(89.0)





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1-1/2" Dimensions for Solenoid Pilot Actuated



Dimensions = inches (in parentheses) = mm

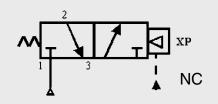
1-1/2" NPT Dimensions

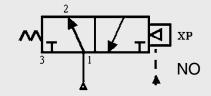
Α	В	С	D	Е	F	G	Н	- 1	J	K	L	M	N
9.173	7.480	4.449	3.780	2.028	2.441	6.220	1.339	2.677	1/8"	1-1/2"	2.323	5.433	0.394
(233.0)	(190.0)	(113.0)	(96.0)	(51.5)	(62.0)	(158.0)	(34.0)	(68.0)	NPT	NPT	(59.0)	(138.0)	(10.0)

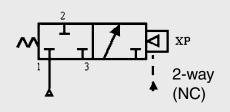




Poppet Valves NF Series



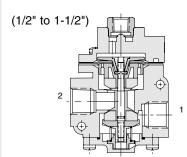




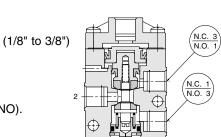
Air Pilot Actuated Valves - 1/8" to 1-1/2"

- 3-way & 2-way design
- Air pilot actuated
- Use with air or neutral gases

• For lubricated or non-lubricated service







NOTE: 1/2" to 1-1/2" not available in (NO).

NOTE: Always supply Port 1.

NOTE: 3-ported, 2 position valve (1/8" to 3/8") can be converted to a 2 way valve by inserting a pipe plug into the exhaust port.

NOTE: 1/2" to 1-1/2" valves cannot be converted to a 2 ported (2-way), 2 position valve. If a 2-way valve is required, it must be ordered as a 2-way.

Technical Data

PORTS (NPTF)	1/8"	1/4"	3/8"
Cv	0.5	1.8	2
Flow Capacity	23 SCFM* (492 NI/min)**	83 SCFM* (1773 NI/min)**	93 SCFM* (1970 NI/min)**
	*80 PSIG upstream press	sure to atmosphere downstream **6 Bar upstream	to 5 Bar downstream
Operating Pressure Range		24-145 PSIG (1.7 - 10 Bar)	
Pilot Pressure	Minimum 58% of Operating Pressure	Minimum 67% of o	operating pressure
Temperature Range	23° to	+122°F ambient (-5° to +50°C ambie	ent)

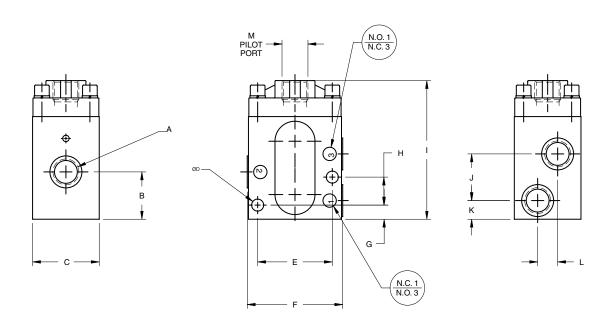
PORTS (NPTF)	1/2"	3/4"	1"	1-1/2"							
Cv	5	5.6	8.8	24							
Flow Capacity	232 SCFM* (4924 NI/min)**	260 SCFM* (5155 NI/min)**	407 SCFM*** (8667 NI/min)**	407 SCFM**** (8667 NI/min)**							
	*80 PSIG upstream pressure **6 Bar upstream to		***70 PSIG upstream pressure to atmosphere downstream ****60 PSIG upstream pressure to atmosphere downstream								
Operating Pressure Range		32-145 PSIG (2.2 - 10 Bar)		36-145 PSIG (2.5 - 10 Bar)							
Pilot Pressure		Minimum 67% of	operating pressure								
Temperature Range		23° to +122°F ambient (-5° to +50°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		



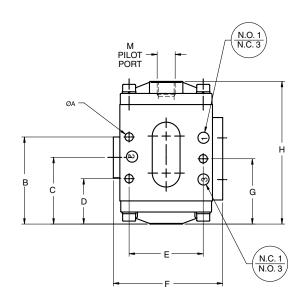


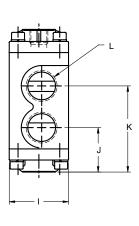
1/8" to 3/8" Dimensions for Air Pilot Actuated



1/8" NPT Dimensions

А	В	С	D	Е	F	G	н	1	J	K	L	М
1/8"	0.699	0.984	0.177	1.102	1.417	0.209	0.413	1.988	0.689	0.276	0.295	1/8"
NPT	(17.8)	(25.0)	(4.5)	(28.0)	(36.0)	(5.3)	(10.5)	(50.5)	(17.5)	(7.0)	(7.5)	NPT





1/4" & 3/8" NPT Dimensions

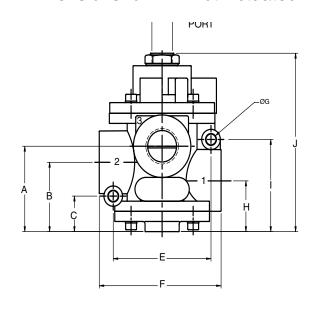
Α	В	С	D	Е	F	G	Н	1	J	К	L	М
0.177	1.850	1.417	0.945	1.575	2.362	1.398	3.031	1.260	0.945	1.850	1/4" or 3/8"	1/8"
(4.5)	(47.0)	(36.0)	(24.0)	(40.0)	(60.0)	(35.5)	(77.0)	(32.0)	(24.0)	(47.0)	NPT	NPT

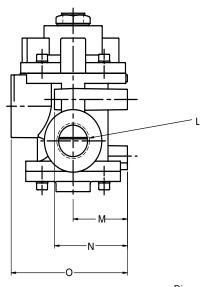






1/2" to 1" Dimensions for Air Pilot Actuated



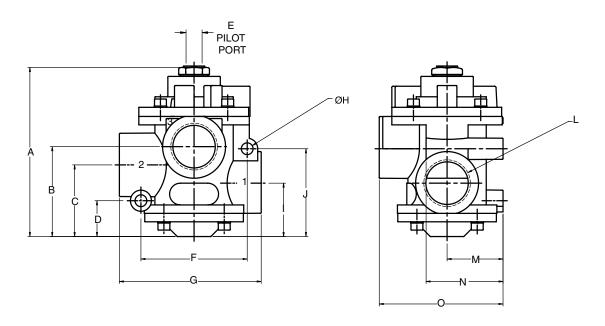


Dimensions = inches (in parentheses) = mm

1/2" & 3/4" NPT Dimensions

Α	В	С	D	Е	F	G	Н	1	J	L	M	N	0
1.988 (50.5)	1.614 (41.0)	0.827 (21.0)	1/4" NPT	2.480 (63.0)	3.091 (78.5)	0.252 (6.4)	1.181 (30.0)	2.146 (54.5)	4.134 (105.0)	1/2" TO 3/4" NPT	1.378 (35.0)	1.850 (47.0)	2.953 (75.0)

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



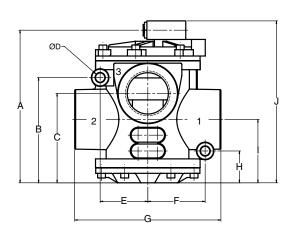
1" NPT Dimensions

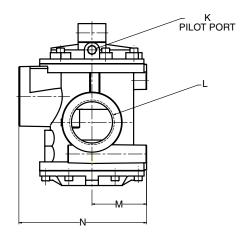
Α	В	С	D	E	F	G	Н	- 1	J	L	М	N	0
4.744	2.520	2.008	1.004	1/4"	2.992	3.976	0.331	1.496	2.461	1"	1.575	2.165	3.484
(120.5	(64.0)	(51.0)	(25.5)	NPT	(76.0)	(101.0)	(8.4)	(38.0)	(62.5)	NPT	(40.0)	(55.0)	(88.5)



Poppet Valves NF Series

1-1/2" Dimensions for Air Pilot Actuated





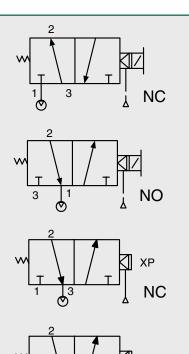
1-1/2" NPT Dimensions

Α	В	С	D	Е	F	G	Н	- 1	J	K	L	М	N
6.467	4.449	3.780	0.433	2.028	2.441	6.220	1.339	2.677	6.860	1/8"	1-1/2"	2.323	5.433
(164.3)	(113.0)	(96.0)	(11.0)	(51.5)	(62.0)	(158.0)	(34.0)	(68.0)	(174.3)	NPT	NPT	(59.0)	(138.0)



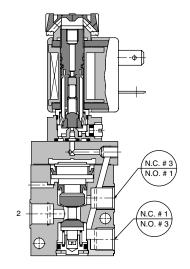


Poppet Valves NG Series



Solenoid Air Pilot and Air Pilot Actuated Vacuum Valves - 1/4" to 3/8"

- Solenoid External Air Pilot Actuated
- 3 ported, 2 position
- For lubricated or non lubricated service
- Diaphram actuated
- Polyurethane diaphram





Note: For Air Pilot information and dimensions refer to pages 8, 9 & 10

Technical Data

PORTS (NPTF)	1/4"	3/8"
Cv	1.8	2
Operating Vacuum Range	Maximum 29.9" of Hg (759.5 mm of Hg)
Pilot Range	36 - 145 PSIG (2.	5 - 10 Bar)
Temperature Range	23°F to +122°F ambient (-5°	°C to +50°C ambient)
Coil Type	U2 Series	Coil

Operating Data

VOLTAGE	12VDC	24VDC	110 VAC 50-60Hz	220 VAC 50-60Hz
Power Consumption	11W	11W	max 10VA	max 10VA
In-rush Current	11W	11W	max 16VA	max 16VA

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



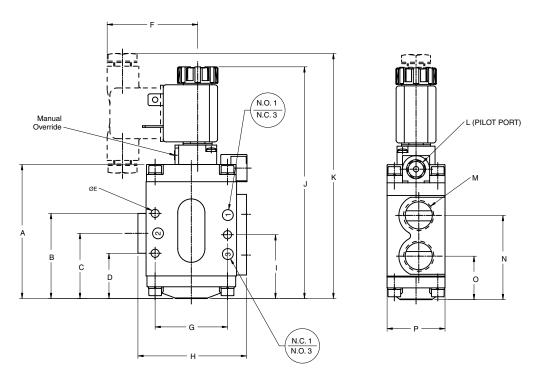
RESPONSE TIME (SECONDS)	ENERGIZE	DE-ENERGIZE
1/4" & 3/8" (NC)	0.016	0.027
1/4" & 3/8" (NO)	0.016	0.027

NC: normally closed NO: normally open



Poppet Valves NAG Series

1/4" to 3/8" Dimensions for Solenoid Air Pilot and Air Pilot Actuated Vacuum Valves



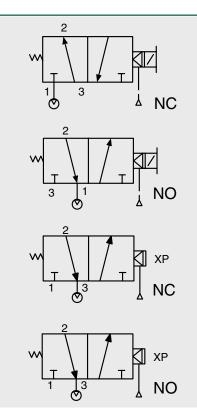
1/4" & 3/8" NPT Dimensions

Α	В	С	D	Е	F	G	Н	1	J	K	L	М	N	0	Р
2.913 (74.0)	1.850 (47.0)	1.417 (36.0)	0.984	0.177	1.969	1.575 (40.0)	2.362	1.398	5.079 (129.0)	5.354 (136.0)	1/8" NPT	1/4" or 3/8" NPT	1.850	0.945	1.260



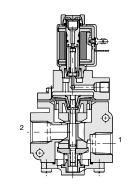


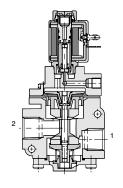
Poppet Valves NG Series



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

- Solenoid External Air Pilot Actuated
- 3 ported, 2 position
- For lubricated or non lubricated service
- Diaphram actuated
- Polyurethane diaphram









NOTE: Port 3 Cv must not be restricted

Technical Data

PORTS (NPTF)	1/2"	3/4"	1"	1-1/2"			
Cv	5	5.6	8.8	24			
Operating Vacuum Range	10" - 29.9" of Hg (759.5 mm of Hg)						
Pilot Pressure	43 - 145 PSI	G (3 - 10 Bar)	58 - 145 PS	IG (4 - 10 Bar)			
Temperature Range	23°F to +122°F ambient (-5°C to +50°C ambient)						
Coil Type	U2 Series Coil						

Operating Data

VOLTAGE	12VDC	24VDC	110 VAC 50-60Hz	220 VAC 50-60Hz
Power Consumption	11W	11W	max 10VA	max 10VA
In-rush Current	11W	11W	max 16VA	max 16VA

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



RESPONSE TIME (SECONDS)	ENERGIZE	DE-ENERGIZE
1/2" & 3/4" (NC)	0.016	0.040
1/2" & 3/4" (NO)	0.016	0.040
1" (NC)	0.018	0.042
1" (NO)	0.018	0.042
1-1/2" (NC)	0.060	0.038
1-1/2" (NO)	0.060	0.038

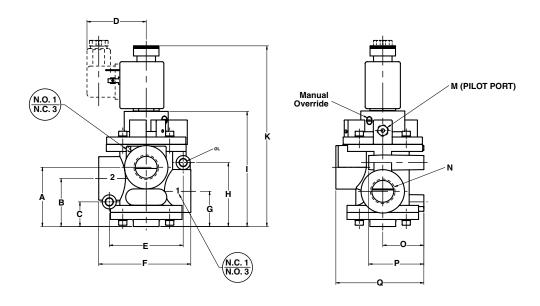
NC: normally closed NO: normally open





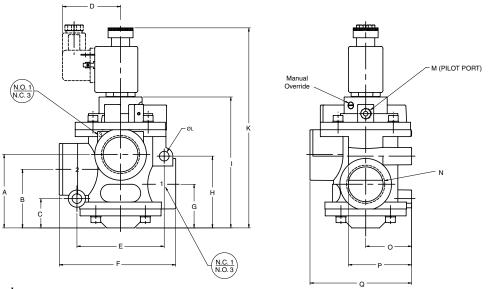


1/2" to 1" Dimensions for Solenoid Air Pilot and Air Pilot Actuated Vacuum Valves



1/2" & 3/4" NPT Dimensions

Α	В	С	D	Е	F	G	Н	1	K	L	М	N	0	Р	Q
1.988	1.614	0.827	1.988	2.480	3.091	1.181	2.146	3.996	6.063	0.252	1/8" NPT	1/2" or	1.378	1.850	2.953



1" NPT Dimensions

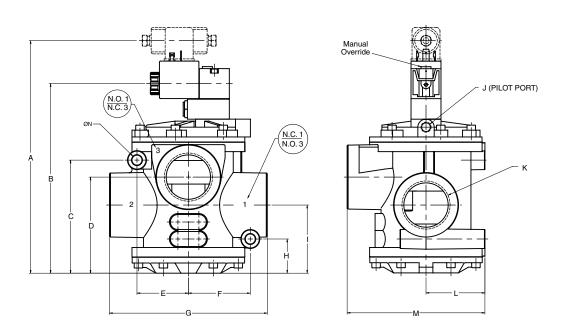
Α	В	С	D	E	F	G	Н	1	К	L	М	N	0	Р	Q
2.520	2.008	1.004	1.969	2.992	3.976	1.496	2.461	4.528	6.850	.331	1/8"	1"	1.575	2.165	3.504
(64.0)	(51.0)	(25.5)	(50.0)	(76.0)	(101.0)	(38.0)	(62.5)	(115.0)	(174.0)	(8.4)	NPT	NPT	(40.0)	(55.0)	(89.0)



Poppet Valves NG Series



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



1-1/2" NPT Dimensions

Α	В	С	D	Е	F	G	н	1	J	K	L	М	N
9.173	7.480	4.449	3.780	2.028	2.441	6.220	1.339	2.677	1/8"	1-1/2"	2.323	5.433	0.394
233.0)	(190.0)	(113.0)	(96.0)	(51.5)	(62.0)	(158.0)	(34.0)	(68.0)	NPT	NPT	(59.0)	(138.0)	(10.0)



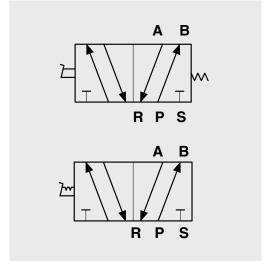


Foot Pedal Valves NM Series

NM Series Pedal Valve

- 5 port 4-way valve
- Nylon shell & steel reinforced base plate
- Die cast zinc alloy valve body
- Spring return & detented models
- Large opening for foot operation





Technical Data

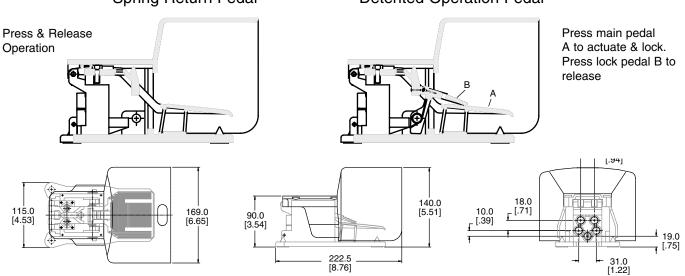
PORTS (NPTF)	1/4" SPRING	1/4" PEDAL
Cv	0.8	
Flow Capacity	22.74 SCFM (8	300 NI/min)
Maximum Operating Pressure	145 PSIG (10 Bar)
Temperature Range	14°F to +155°F ambient (-1	0°C to +70°C ambient)
Fluid Temperature Range	14°F to +155°F ambient (-1	0°C to +70°C ambient)

Ordering Information

FOOT PEDAL DESCRIPTION	PART NO.
1/4" Spring Return	NM2FA4520G00000
1/4" Detented	NM2FD4520G00000

Spring Return Pedal

Detented Operation Pedal







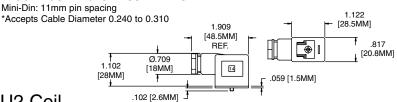
Accessories - Coils, Repair Kits, Pipe Plugs

U1 Coil (for 1/8", 1/4" & 3/8" sizes)

TYPE	OVERALL DIMENSIONS	*DUTY CYCLE	CONSUN	MPTION IN-RUSH	TOLEF	RANCE VOLTAGE	MASS KG	RATED VOLTAGE	PART NUMBER
.846	.433 [11 MM] [21.5 MM] .423 [10.8 MM]	100%	3.5W	3.5W	_	±10	0.10	12VDC	DA-0050-U
Sp.	C'BORE Ø.65 X .06 DEEP							24VDC	DA-0051-U
0	.591 [15 MM] 1.181 [30 MM]		5VA	7.8VA				110V/50- 60HZ	DA-0108-U
	1.240 [31.5 MM]	100%	(max)	(max)	±5%	±10	0.10	220V/50- 60HZ	DA-0124-U

^{*}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



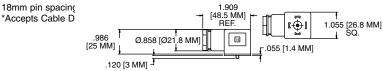
PLUG CONNECTOR DESCRIPTION	PART NO.
Black Plug Assembly	230-364
Plug assembly with 24V Light	230-365
Plug assembly with 110V Light	230-366
Plug assembly with 220V Light	230-367

U2 Coil

TYPE	OVERALL DIMENSIONS	*DUTY CYCLE	CONSUM		TOLER		MASS KG	RATED VOLTAGE	PART NUMBER
	.591 [15 MM]	100%	CONTINUOUS 11W	IN-RUSH	FREQUENCY	voltage ±10	0.10	12VDC	DB-0501-U
1945 17	1.181 [30 MM] CBORE Ø1.02 X .06 DEEP	10070						24VDC	DB-0502-U
[i	1.476 [37.5 MM]	100%	10VA (max)	16VA	±5%	±10	0.10	110V/50- 60HZ	DB-0509-U
L	1.575 1 1 3 4 4 4 4 4 4 4 4 4			(max)	±0%	±10	50	220V/50- 60HZ	DB-0510-U

^{*}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



Repair Kits - NF & NG Series

PORT SIZE	NF SERIES	NG SERIES				
TOTT SIZE	SOL. & AIR PILOT	EXT. AIR PILOT				
1/8"	AF-9655	N/A				
1/4" - 3/8"	AF-9660	AG-9660				
1/2" - 3/4"	AF-9665	AG-9665				
1"	AF-9670	AG-9670				
1-1/2"	AF-9675	AG-9675				

PLUG CONNECTOR DESCRIPTION	PART NO.
Black Plug Assembly	230-370
Plug assembly with 24V Light	230-371
Plug assembly with 110V Light	230-372
Plug assembly with 220V Light	230-373
Plug with 12 VDC Light	230-385

PIPE PLUG - NAF SERIES	PART NO.
1/8"	129-100
1/4"	129-101
3/8"	129-102







Standard Poppet Valve Weight Requirements

PORT (NPT)	FUNCTION	WEI	WEIGHT		
		lbs	Kg		
Solenoid Pilo	Solenoid Pilot (Internal) for Air				
1/8"	3/2 NC, NO	0.70	0.32		
1/4"	3/2 NC, NO	1.50	0.68		
3/8"	3/2 NC, NO	1.45	0.66		
1/2"	3/2 NC	3.10	1.41		
1/2"	3/2 NO	3.05	1.38		
3/4"	3/2 NC, NO	2.85	1.29		
3/4"	3/2 NC	2.55	1.16		
1"	3/2 NC	4.20	1.91		
1"	3/2 NO	4.25	1.93		
1"	2/2 NC	3.90	1.77		
1-1/2"	3/2 NC	6.25	2.83		
1-1/2"	3/2 NO	6.10	2.77		
1-1/2"	2/2 NC	5.65	2.56		
Air Pilot (Ext	Air Pilot (External) for Air				
1/8"	3/2 NC, NO	0.45	0.20		
1/4"	3/2 NC, NO	1.25	0.57		
3/8"	3/2 NC	1.20	0.54		
1/2"	3/2 NC	2.70	1.22		
1/2"	2/2 NC	3.15	1.43		
3/4"	3/2 NC	2.55	1.16		
3/4"	2/2 NC	2.90	1.32		
1"	3/2 NC	3.90	1.77		
1"	2/2 NC	4.25	1.93		
1-1/2"	3/2 NC	5.45	2.47		
1-1/2"	2/2 NC	6.35	2.63		
Solenoid Pilo	Solenoid Pilot (External) for Vacuum				
1/4"	3/2 NC, NO	1.80	0.82		
3/8"	3/2 NC, NO	1.80	0.82		
1/2"	3/2 NC	3.10	1.41		
1/2"	3/2 NO	3.05	1.38		
3/4"	3/2 NC, NO	2.85	1.29		
1"	3/2 NC	4.20	1.91		
1"	3/2 NO	4.25	1.93		
1-1/2"	3/2 NC	6.25	2.83		
1-1/2"	3/2 NO	6.10	2.77		

Poppet Valve FAQ's

- Are different coils available on the smaller sized poppet valves? (Yes, but a special part number is required.)
- Is the manual override held captive in place? (Yes, the solenoid stem itself locates and holds this brass manual override in place. There is a slot (or groove) on the manual override.)
- Is there an option code for external piloting solenoid air valves? (The option code is 14A)
- What are these valves best suited for? (These valves are particularly suitable for applications where high flow and cycle rates are required.)
- Is a lower watt solenoid operator available? (Yes, for U1 solenoid stems a 2.5 watt is available.)
- Is field conversion from internal to external pilot supply possible? (Yes, in certain cases. Please consult factory.)
- What is considered bubble tight? (Bubble tight for the poppet valve is considered as .24 cc or better per minute.)
- 8. Is it possible to convert N.C. to N.O.? (No, it is not.)
- What is the cycle life of the poppet valves? (Recent tests have recorded 9 million cycles.)
- 10. Are viton seals available with the poppet valve? (No, they are not available.)
- 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, 5.9" of Hg is the minimum required.)

For more information on Poppet Valve products, contact Numatics Ltd. at (519) 452-1777, or visit www.numatics.com

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