

WIDE RANGE

G1/8 ÷ G1 1/2 2/2 - 3/2 NC-NO

COMPRESSED AIR VERSION

VACUUM VERSION

Available also with external pilot vacuum supply

HIGH FLOW RATE

Up to 35000 NI/min (G1 1/2)



		AF NI/min Compressed air	AG m³/h Vacuum
	G1/8 (Ø 5,5)	580	1,5
	G1/4 (Ø 8) G3/8 (Ø 10)	1100 1500	4 10
	G1/2 (Ø 15) G3/4 (Ø 19)	5400 6500	20 35
	G1 (Ø 25)	13500	90
	G1 1/2 (Ø 39)	35000	180

Poppet system
UNIVER Original since 1973



SERIES AF - POPPET VALVES FOR COMPRESSED AIR G1/8 ÷ G1 1/2



Reference standard

ATEX
2014/34/UE



Pressure

MAX 10 bar (1 MPa)



Temperature

MAX + 50 °C

CHARACTERISTICS

Fluid	filtered air 50 µm, with or without lubrication
Commutation system	poppet
Voltage	12 V DC - 24 V DC - 24 V AC - 110 V AC - 230 V AC
Manual override	impulse screw 2 positions
Valve body	zamak (G1/8 ÷ G1), aluminium (G1 1/2)
Seals	polyurethane conical poppets and Vulkollan diaphragm
Spool	aluminium (G1/8 ÷ G3/8), steel + plastic (G1/2 ÷ G1 1/2)



Connections	G1/8	G1/4	G3/8	G1/2	G3/4	G1	G1 1/2
Nominal bore (mm)	5,5	8	10	15	19	25	39
Nominal flow rate (l/min)	580	1100	1500	5400	6500	13500	35000
G1/8				G1/4 ÷ G1 1/2			
Electropilot	U1				U2		
Coil	DA				DB		
Power consumption	3,5 W (DC) - 5 VA (AC)				11 W (DC) - 10 VA (AC)		
Connector	AM-5110				AM-5111		

Solenoid valves G1/8 ÷ G3/8



	3/2 NC	
	AF-2500	G1/8 U1
	3/2 NO	
	AF-2501	G1/8 U1



	3/2 NC	
	AF-2510	G1/4 U1
	AF-2517	G1/4 U2
	AF-2520	G3/8 U1
	3/2 NO	
	AF-2511	G1/4 U1
	AF-2518	G1/4 U2
	AF-2521	G3/8 U1
	3/2 NO	
	AF-2525	G3/8 U2

Solenoid valves G1/2 ÷ G1 1/2



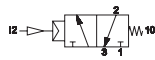
	3/2 NC	
	AF-2530	G1/2 U2
	AF-2540	G3/4 U2
	3/2 NO	
	AF-2531	G1/2 U2
	AF-2541	G3/4 U2
	3/2 NO	
	AF-2546	G1 U2



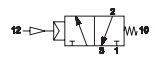
	3/2 NC	
	AF-2565	G1 1/2 U2
	3/2 NO	
	AF-2561	G1 1/2 U2

Solenoid valves are supplied without coil, connector and locking nut

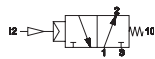
Pneumatic valves with external oforation G1/8 ÷ G3/8



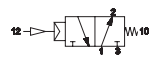
3/2 NC
AF-2600 G1/8



3/2 NC
AF-2601 G1/4
AF-2606 G3/8



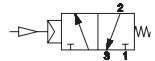
3/2 NO
AF-2700 G1/8



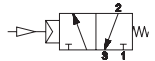
3/2 NO
AF-2701 G1/4
AF-2706 G3/8

Solenoid valves are supplied without coil, connector and locking nut

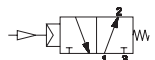
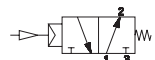
Pneumatic valves with external oforation G1/2 ÷ G1 1/2



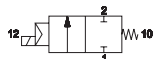
3/2 NC- NO
AF-2603 G1/2
AF-2610 G3/4
AF-2615 G1



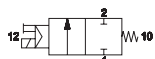
3/2 NC - NO
AF-2620 G1 1/2



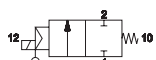
2/2 Solenoid valve for blowing G1



2/2 NC
AF-2550 G1

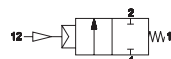


2/2 NC
AF-2551 G1



2/2 NC
AF-2552 G1

2/2 Pneumatic valve for blowing with ext. oforation G1



2/2 NC
AF-2617 G1

Solenoid valves are supplied without coil, connector and locking nut

SERIES AG - POPPET VALVES FOR VACUUM G1/8 ÷ G1 1/2



Reference standard

ATEX
2014/34/UE



Temperature

MAX + 50 °C

CHARACTERISTICS

Fluid	filtered air 50 µm, with or without lubrication - vacuum
Commutation system	poppet
Vacuum Max	759,5 mm Hg
Valve body	zamak (G1/8 ÷ G1), aluminium (G1 1/2)
Seals	polyurethane conical poppets and Vulkollan diaphragm(a) ; silicon poppets(b)
Spool	aluminium (G1/8 ÷ G3/8), steel + plastic (G1/2 ÷ G1 1/2)
Voltage	12 V DC - 24 V DC - 24 V AC - 110 V AC - 230 V AC
Manual override	impulse screw 2 positions

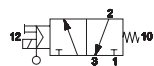
(a) = valve for vacuum with external air oforation

(b) = valve for direct vacuum with external vacuum oforation



Connections	G1/8	G1/4	G3/8	G1/2	G3/4	G1	G1 1/2
Nominal bore (mm)	5,5	8	10	15	19	25	39
	G1/8			G1/4 ÷ G1 1/2			
Electropilot	U1			U2			
Coil	DA			DB			
Power consumption	3,5 W (DC) - 5 VA (AC)			11 W (DC) - 10 VA (AC)			
Connector	AM-5110			AM-5111			

3/3 Solenoid valve for vacuum with external pilot air supply G1/8 ÷ G3/8

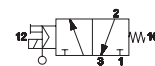


3/2 NC

AG-3001 G1/8

3/2 NO

AG-3002 G1/8



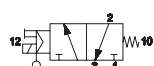
3/2 NC

AG-3009 G1/4
AG-3011 G3/8

3/2 NO

AG-3010 G1/4
AG-3012 G3/8

3/2 Solenoid valve for vacuum with external pilot air supply G1/2 ÷ G1 1/2



3/2 NC

AG-3020 G1/2
AG-3040 G3/4
AG-3050 G1

3/2 NO

AG-3021 G1/2
AG-3041 G3/4
AG-3051 G1



3/2 NC

AG-3062 G1 1/2

3/2 NO

AG-3063 G1 1/2

2/2 NC-NO versions available on request

Solenoid valves are supplied without coil/connector/locking nut

3/2 Pneumatic valve for vacuum with external air oration G1/8 ÷ G3/8



	3/2 NC	
	AG-3071 G1/8	
	3/2 NO	
	AG-3072 G1/8	



	3/2 NC	
	AG-3073 G1/4 AG-3075 G3/8	
	3/2 NO	
	AG-3074 G1/4 AG-3076 G3/8	

3/2 Pneumatic valve for vacuum with external air oration G1/2 ÷ G1 1/2



	3/2 NC	
	AG-3081 G1/2 AG-3091 G3/4 AG-3100 G1	
	3/2 NO	
	3/2 NO	
	AG-3082 G1/2 AG-3092 G3/4 AG-3101 G1	



	3/2 NC	
	AG-3110 G1 1/2	
	3/2 NO	
	AG-3111 G1 1/2	

3/2 Solenoid valve for direct vacuum with pilot vacuum supply G1/4 ÷ G1 1/2



	3/2 NC	
	AG-3210 G1/4 AG-3214 G3/8	
	3/2 NO	
	AG-3211 G1/4 AG-3215 G3/8	



	3/2 NC	
	AG-3222 G1/2 AG-3232 G3/4 AG-3242 G1	
	3/2 NO	
	AG-3223 G1/2 AG-3233 G3/4 AG-3243 G1	



	3/2 NC	
	AG-3256 G1 1/2	
	3/2 NO	
	AG-3257 G1 1/2	

2/2 - 3/2 Solenoid valve for vacuum with direct oration G1/4 - G1/2



	3/2 NC(a)	
	AG-3310 G1/4 Ø 3 mm AG-3311 G1/4 Ø 4 mm AG-3312 G1/4 Ø 5 mm AG-3313 G1/4 Ø 6 mm	
	2/2 NC	
	AG-3300 G1/4 Ø 3 mm AG-3301 G1/4 Ø 4 mm AG-3302 G1/4 Ø 5 mm AG-3303 G1/4 Ø 6 mm	
	(a) = Fixed exhaust Ø 3 mm	



	3/2 NC(a)	
	AG-3330 G1/2 Ø 8 mm AG-3331 G1/2 Ø 10 mm AG-3332 G1/2 Ø 11 mm	
	3/2 NO	
	AG-3320 G1/2 Ø 8 mm AG-3321 G1/2 Ø 10 mm AG-3322 G1/2 Ø 11 mm	



Coil U2 - 17 VA	
DB-0607	24V AC - 50/60 Hz
DB-0608	110V AC - 50/60 Hz
DB-0610	220V AC - 50/60 Hz

Solenoid valves are supplied without coil/connector/locking nut

U04 - U05 - U06 - U1 - U2 - U3 Coils and Connectors

MATCHING TABLE
- COILS/ELECTROPILOTS
- ELECTROPILOTS/SOLENOID VALVES

			Electropilots						
			A (U05)	B (U04)	AA (U1)	AA (U3)		AB (U2)	
Coils	U04	10 mm		■					
	U05	15 mm	■						
	U1	22 mm			■				
	U2	30 mm						■	■
	U3	30 mm				■	■		
Solenoid valves	BE	ISO 1 - ISO 2 ISO 3 - ISO 4	■ (a)					■	R
	AE	ISO 1 - ISO 2			■	■			
	BD	ISO 01 26 mm ISO 02 18 mm	■						
	AC-N	Interface NAMUR			■	■			
	CL	G1/8			■	■			
	CM	G1/4							
	COMPA 2/4		■						
	G6	G1/8	■	■					
	GL6	sub-base							
	G7	G1/8	R		■	■			
	AC	G1/8 - G1/4							
		G1/2			■	■			
	AF	G1/8			R	R		■	
		G1/4 - G3/8			■	■			
		G1/2 ÷ G1			■	■		■	
		G1 1/2			R	R		■	■
	AG	G1/8							
		G1/4 ÷ G1			■	■			
		G1 1/2			R	R		■	■

■ = Standard

R = On request

(a) = Connector M12

10 mm U04 Coils for B Series electropilots

With integrated 90° upward connector



DE-352 24 V DC 1,2 W
DE-452 24 V DC 1,35 W (whith led)
DE-355 24 V DC 0,5 W

Connector:
D-500
D-530-...
D-535-...

With in-line connector



DE-552 24 V DC 1,2 W
DE-652 24 V DC 1,35 W (whith led)

Connector:
D-500
D-530-...
D-535-...

With loose cables (length 300 mm)



DE-052L030 24 V DC 1,2 W

With in-line connector with protecting cover for complete tightness



DE-642I 12 V DC 1,35 W
DE-652I 24 V DC 1,35 W (whith led)

Connector:
D-530C-100
D-530C-200

15 mm U05 Coils for A series electropilot

with integrated 90° upward connector	with integrated 90° downward connector	with in-line connector
 DD-351 24 V DC Connector: D-500 D-530-... D-535-...	 DD-151 24 V DC Connector: D-500 D-530-... D-535-...	 DD-551 24 V DC Connector: D-500 D-530-... D-535-...
with loose cables (300 mm)	15 mm - Faston	
 DD-051L030 24 V DC 2 W DD-052L030 24 V DC 2,5 W	 DD-013 230 V AC 50/60 Hz 3,5 VA DD-040 24 V AC 50/60 Hz 2,3 VA DD-041 12 V DC 2 W DD-042 12 V DC 2,5 W DD-050 48 V AC 50/60 Hz 2,3 VA Connector: AM-5109	DD-051 24 V DC 2 W DD-052 24 V DC 2,5 W DD-060 110 V AC 50/60 Hz 2,3 VA DD-070 230 V AC 50/60 Hz 2,3 VA

Coils U1 - U2 - U3

22 mm (U1)	30 mm (U2)
 DA-0050 12 V DC 3,5 W DA-0051 24 V DC 3,5 W DA-0106 24 V AC 50/60 Hz 5 VA DA-0108 110 V AC 50/60 Hz 5 VA DA-0124 230 V AC 50/60 Hz 5 VA	 DB-0501 12 V DC 11 W DB-0502 24 V DC 11 W DB-0507 24 V AC 50/60 Hz 10 VA DB-0509 110 V AC 50/60 Hz 10 VA DB-0510 230 V AC 50/60 Hz 10 VA
30 mm (U3)	
 DC-0301 12 V DC 2,5 W DC-0302 24 V DC 2,5 W DC-0307 24 V AC 50/60 Hz 3,3 VA DC-0309 110 V AC 50/60 Hz 3,3 VA DC-0310 230 V AC 50/60 Hz 3,3 VA	For CSA-UL Certified coils see Certified Electropilot section

Connectors

Miniature connector without wires	Miniature connector with loose cables	Miniature connector with cable
 D-500 Coil: U04/U05	 D-530-30 D-530-50 D-530-200 Coil: U04/U05	 D-535-30 D-535-50 D-535-200 Coil: U04/U05
Connector 15 mm	Connector 22 mm	Connector 30 mm
 AM-5109 Coil: U05/U06	 AM-5110 Coil: U1	 AM-5111 Coil: U2/U3

SERIES CSA-UL - ELECTROPILOTS WITH "CSA" - "UL" CERTIFICATION



Reference standard

ATEX
2014/34/UE



Pressure

MAX 10 bar (1 MPa)



Temperature

-10 + 45 °C

CHARACTERISTICS

Duty cycle ED ^(a)

100%

Voltage tolerance

±10%

Products with this mark are certified by the Canadian CSA organization in compliance with the standards required by USA (US on the right of the logo) and Canada market (C on the left of the logo).

Certification N° 244884.

In compliance with:

CSA C22.2 No. 139-13

UL 429; 2013



U1 22 mm coil to be used with U1 electropilot



Code	Power consumption W		Rated voltage	Weight (Kg)
	hold	inrush		
DA-U050	3,5	3,5	12 V DC	0,06
DA-U051	3,5	3,5	24 V DC	0,06
DA-U101	6	6	12 V DC*	0,06
DA-U102	6	6	24 V DC	0,06
DA-U103	6	6	48 V DC*	0,06
DA-U104	6	6	110 V DC*	0,06
DA-U106	5 VA (Max)	7,8 VA (Max)	24 V AC/50-60 HZ	0,06
DA-U108	5 VA (Max)	7,8 VA (Max)	110 V AC/50-60 HZ	0,06
DA-U124	5 VA (Max)	7,8 VA (Max)	230 V AC/50-60 HZ	0,06

(*) = on request

U2 30 mm coil to be used with U2 electropilot



Code	Power consumption W		Rated voltage	Weight (Kg)
	hold	inrush		
DB-U501	11	11	12 V DC	0,10
DB-U502	11	11	24 V DC	0,10
DB-U503	11	11	48 V DC*	0,10
DB-U504	11	11	110 V DC*	0,10
DB-U507	10 VA (Max)	16 VA (Max)	24 V AC/50-60 HZ	0,10
DB-U509	10 VA (Max)	16 VA (Max)	110 V AC/50-60 HZ	0,10
DB-U510	10 VA (Max)	16 VA (Max)	230 V AC/50-60 HZ	0,10

(*) = on request

U3 30 mm coil to be used with U1 electropilot



Code	Power consumption W		Rated voltage	Weight (Kg)
	hold	inrush		
DC-U301	2,5	2,5	12 V DC	0,08
DC-U302	2,5	2,5	24 V DC	0,08
DC-U304	2,5	2,5	110 V DC*	0,08
DC-U307	3,3 VA (Max)	5 VA (Max)	24 V AC/50-60 HZ	0,08
DC-U309	3,3 VA (Max)	5 VA (Max)	110 V AC/50-60 HZ	0,08
DC-U310	3,3 VA (Max)	5 VA (Max)	230 V AC/50-60 HZ	0,08

(*) = on request

(a) = Under continuous service maximum temperature will not compromise the functioning of the coil provided that the working position is ventilated