

# AE

#### Light series valves for ISO 5599/1 sub-base mounting

Light series: technopolymer valve body with metall cover Interchangeability: ISO 5599/1 sub-base mounting (size 1 and 2) Reliability: the mixed internal system (poppet-spool) guarantees long life Performance: high flow rate (size 1 = 1480 NI/min - size 2 = 2300 NI/min), fast commutation, functioning without lubrication Multifunction: possibility to get different functions just changing the position of the selective seal

## Available ATEX version upon request

#### C € € № II 2Gc IIC T5 II 2Dc T100°C

#### **TECHNICAL** CHARACTERISTICS

Ambient temperature	-10 ÷ +50 °C		
Fluid temperature	+50 °C Max		
Fluid	50 $\mu$ m filtered air, with or without lubrication		
Commutation system	mixed system		
Ways/Positions			5/2
Pressure			max 10 bar
Control	indirect electro - pneumatic and pneumatic		
Return	pneumomechanical spring		
Connections	ISO 5599/1 interface (BF series sub-base)		
		size 1	size 2
Nominal Ø (mm)		8	10
Nominal flow rate (NI/min)		1480	2300

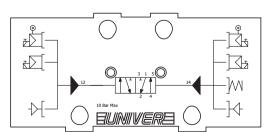
## **CONSTRUCTIVE** CHARACTERISTICS

Valve body	acetalic resin
Seals	nitrile rubber - polyurethane
Spool	Aluminum
Cover	zamak

#### **ELECTRIC** CHARACTERISTICS

Ele strenilet	111
Electropilot	U1 - AA series
Coil	DA series
Power consumption	3,5 W (DC) - 5 VA (AC)
Voltage	12 V DC - 24 V DC - 24 V AC - 110 V AC - 230 V AC
Connector	AM-5110
Manual override	impulse screw - 2 positions

#### **MULTIFUNCTIONAL** SYSTEM

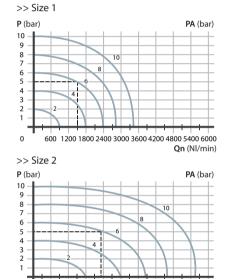


For technical details, see page 3.2-16

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# Flow rate characteristics

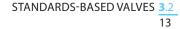


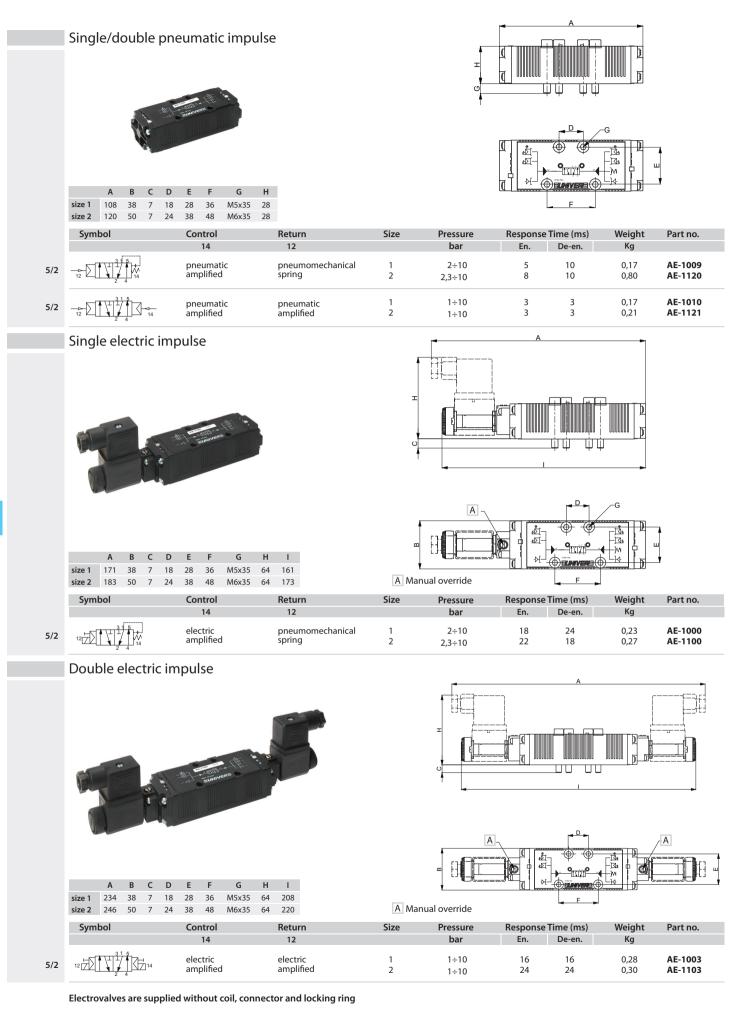
600 1200 1800 2400 3000 3600 4200 4800 5400 6000

On (NI/min)

P = Working pressure PA = Supply pressure Qn = Nominal flow rate

0



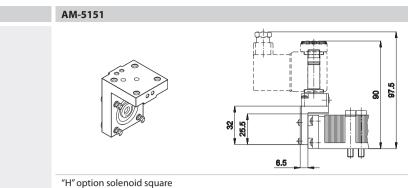


3.2 STANDARDS-BASED VALVES

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weight: 0,035 Kg

# >> ISO 1 - ISO 2 sub-base



ISO 1 - single sub-base, side connections BF-1060 G1/8 in-line connections BF-1061 G1/4 in-line connections



ISO 1 - single modular or Manifold subbase, dorsal connections with separate exhausts BF-1062 G1/8 dorsal connections BF-1063 G1/4 dorsal connections



ISO 1 - Manifold universal system sub-base, dorsal and side connections conveyed exhausts BF-1071 G1/8 dorsal and side connections BF-1071S G1/8 side pneumatic impulse BF-1072 G1/4 dorsal and side connections BF-1072S G1/4 side pneumatic impulse



ISO 1 - Manifold universal system inlet plate BF-1064 G3/8 in-line connections BF-1065 G3/8 on top connections BF-1066 G3/8 dorsal connections BF-1068 G3/8 only in-line connections



ISO 1 - Manifold universal system diaphragm BF-1070



ISO 2 - single sub-base, side connections BF-1150 G1/4 in-line connections BF-1151 G3/8 in-line connections



ISO 2 - single sub-base, dorsal connections BF-1152 G1/4 dorsal connections BF-1153 G3/8 dorsal connections



ISO 2 - Manifold universal system sub-base, dorsal and side connections conveyed exhausts BF-1160 G1/4 dorsal and side connections BF-1161 G3/8 dorsal and side connections



ISO 2 - Manifold universal system inlet plate BF-1154 G1/2 in-line connections BF-1155 G1/2 dorsal connections



VALVES 0

ISO 2 - Manifold universal system diaphragm BF-1162

For sub-base dimensions refer to section "Standardized valves>BE/BE12"

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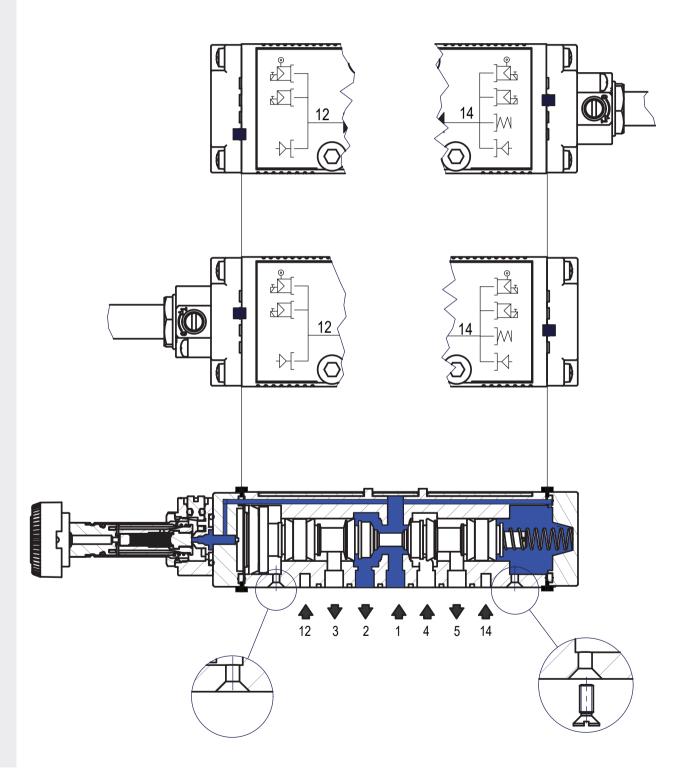


### **MULTIFUNCTIONAL SYSTEM**

This is a well-known series which has been produced for quite long time now, and which has been well received by customers. The well-proved internal spool-poppet system, the use of special compound for the seals, the advanced technology which permits the production of the valve body in light material (plastics) allow long life, quick commutation, high flow rates without lubrification at reasonable costs.

In cases where the specifications are not binding, it might be convenient to choose this series of valve for sub-base mounting. The drawing below shows the characteristics of the valve: multifunction system obtained by positioning selective seals and the possibility to replace the electric cover by the pneumatic one, if passing from electropneumatic to pneumatic functions.

It is also shown the inversion of the positions of the control (which is in 12) and return (which is in 14) and the necessity to use the screw for closing the exhaust port where the piston of the amplified control is not used.



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3.2 STANDARDS-BASED VALVES

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