EMVU3-U2

These direct-drive valves have been specially designed for vacuum and are normally closed.

They are composed of an anodised aluminium body, where the connections and the passage mouths are located, and of an actuator which is activated by an electric coil. The solenoid pilot valve shutter in NBR nitrile rubber or Vulkollan® is an integral part of the actuator mobile core

Both the mouths of the two-way solenoid pilot valves have the same size, while those of the three-way ones have a

3mm outlet diameter, obtained through the tube.

The very low reaction time allows carrying out a very high number of cycles per minute.

The standard electric coil is fully plasticised with synthetic resin, tight execution, insulation class F (up to 155°C) compliant with VDE standards, with 6.3 mm three-terminal electrical connections in compliance with EN 175301-803 (ex DIN 43650). Protection degree IP 54; IP 65 with connector inserted.

Tolerance permitted on the nominal voltage value: ±10%.

Maximum absorption: 20 V.A. with AC and 18 W with DC.

The electric coil can be rotated 360°.

The connector can be rotated 180° on the coil and can be supplied, upon request, with LED lights, anti-interference circuit and/or with protection devices against overvoltage and polarity reversal.
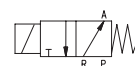
Technical features

Operating pressure: from 1 to 1500 absolute mbar

Temperature of suctioned fluid: from -5 to +60°C
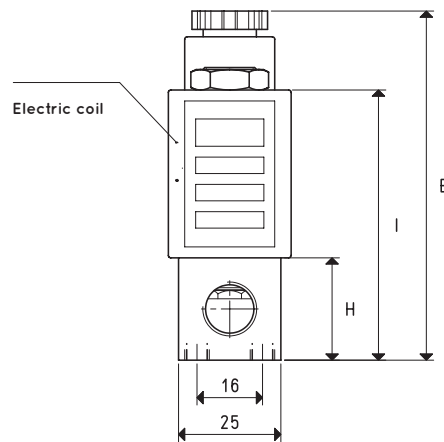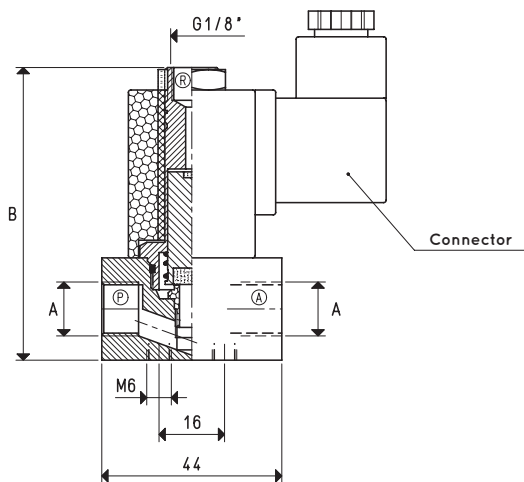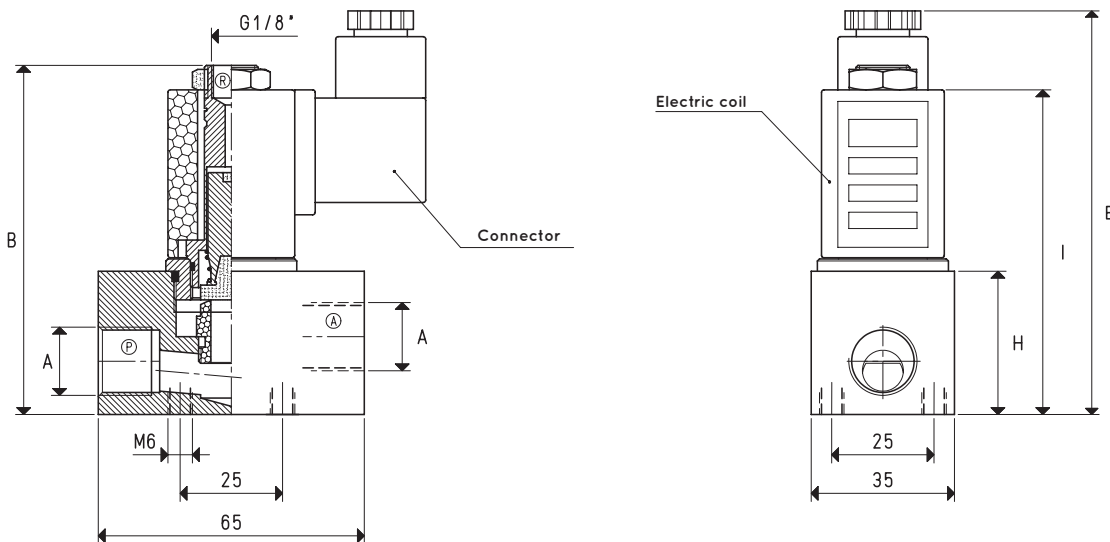

3 / 2 NC

P = Pump
A = Use
R = Discharge

3-WAY SOLENOID PILOT VALVES

Item	A	Max flow rate	Level of vacuum abs. mbar		Reaction time msec		Mouth	Cross-section of passage	B	E	H	I	Weight
	Ø	m³/h	min	max	energ.	de-energ.	Ø	mm²					g
EMVU3 6	G1/4"	4	1000	0.5	15	8	6	28.3	73	86	25	67	248

Note: The coil and the connector are not integral parts of the solenoid pilot valve and, therefore, must be ordered separately (See accessories for solenoid valves).

Transformation ratio: N (newton) = Kg x 9.81 (force of gravity) $inch = \dfrac{mm}{25.4}$; $pounds = \dfrac{g}{453.6} = \dfrac{Kg}{0.4536}$

EMVU3-U2

G1/8"

Connector

Electric coil

B

A

A

M6

25

65

E

I

H

25

35

3/2 NC

P = Pump
A = Use
R = Discharge

Item	A	Max flow rate	Level of vacuum abs. mbar		Reaction time msec		Mouth	Cross-section of passage	B	E	H	I	Weight
	Ø	m³/h	min	max	energ.	de-energ.	Ø	mm²					g
EMVU3 10	G3/8"	8	1000	0.5	22	10	10	78.5	85	98	35	79	392
EMVU3 12	G1/2"	10	1000	0.5	28	10	12	113.0	85	98	35	79	377

Note: The coil and the connector are not integral parts of the solenoid pilot valve and, therefore, must be ordered separately (See accessories for solenoid valves).

Transformation ratio: N (newton) = Kg x 9.81 (force of gravity) $inch = \dfrac{mm}{25.4}$; $pounds = \dfrac{g}{453.6} = \dfrac{Kg}{0.4536}$

EMVU3-U2

Connector

Electric coil
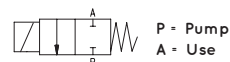
M6

16

44
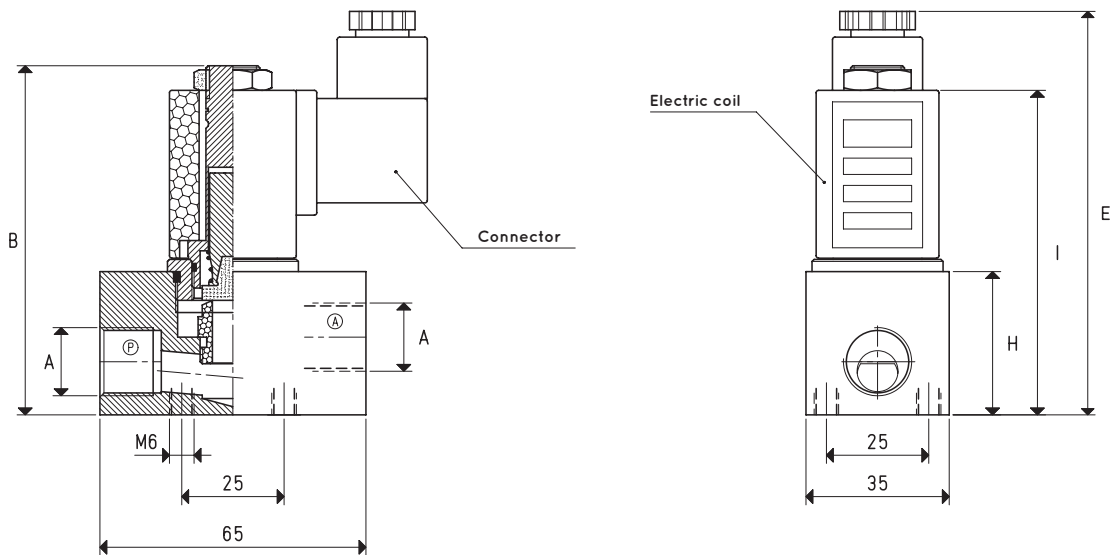
16

25

2 / 2 NC

P = Pump
A = Use

2-WAY SOLENOID PILOT VALVES

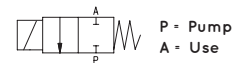| Item	A	Max flow rate	Level of vacuum abs. mbar		Reaction time msec		Mouth	Cross-section of passage	B	E	H	I	Weight
	Ø	m³/h	min	max	energ.	de-energ.	Ø	mm²					g
EMVU2 6	G1/4"	4	1000	0.5	15	8	6	28.3	73	86	25	67	244

Note: The coil and the connector are not integral parts of the solenoid pilot valve and, therefore, must be ordered separately (See accessories for solenoid valves).

Transformation ratio: N (newton) = Kg x 9.81 (force of gravity) $inch = \dfrac{mm}{25.4}$; $pounds = \dfrac{g}{453.6} = \dfrac{Kg}{0.4536}$

ARA®
PNEUMATIK

Wrocław   ul. Wyścigowa 38
Dział Techniki Próżniowej
tel. 71 364 72 88, 601 782 760

EMVU3-U2

Connector

Electric coil

M6

25

65

25

35

2 / 2 NC

P = Pump
A = Use

Item	A	Max flow rate	Level of vacuum		Reaction time		Mouth	Cross-section of passage	B	E	H	I	Weight
			abs. mbar		msec								
	Ø	m³/h	min	max	energ.	de-energ.	Ø	mm²					g
EMVU2 10	G3/8"	8	1000	0.5	22	10	10	78.5	85	98	35	79	384
EMVU2 12	G1/2"	10	1000	0.5	28	10	12	113.0	85	98	35	79	372

Note: The coil and the connector are not integral parts of the solenoid pilot valve and, therefore, must be ordered separately (See accessories for solenoid valves).

Transformation ratio: N (newton) = Kg x 9.81 (force of gravity) $inch = \dfrac{mm}{25.4}$; $pounds = \dfrac{g}{453.6} = \dfrac{Kg}{0.4536}$

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