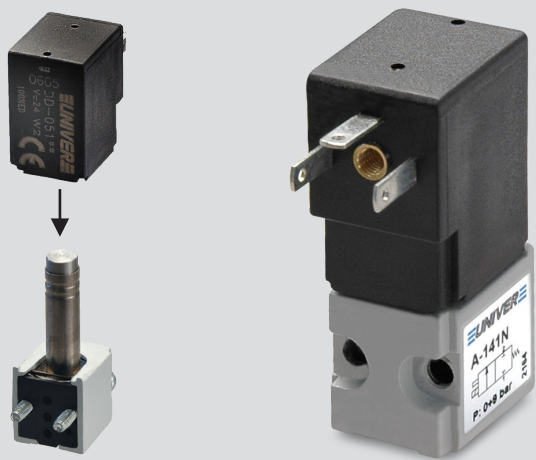


A 15 mm
2 W
38 Nl/min



A 15 mm 2/2 NC - NO, 3/2 NC - NO



Revolving coil
90° x 90°



Manual
override



ISO 15218
interface



Faston

Connector 90°

Connector In-line

Loose cables



ISO 15218 - 15 mm Microvalves

- Flow rate max 38 NI/min
- ISO 15218 interface
- 2/2-3/2 versions - normally open (NO) and normally closed (NC)
- Interchangeable coil - 90° orientation
- Single and multiple sub-bases - single and multipolar electric connection



Fluid	10 µm filtered air, with or without lubrication	
Ambient temperature	-5 ÷ +50 °C	
Fluid temperature	Max +50 °C	
Commutation system	poppet	
Ways/Positions	2/2 NC, 3/2 NC, 2/2 NO, 3/2 NO	
Pressure	Max 9 bar	
Control	electric	
Return	mechanical spring	
Connections	interface ISO 15218	
Nominal Ø	1,2	1,5
Nominal flow rate	26	38
Max frequency	2700 cycles/min	
Valve body	technopolymer (aluminium external cover)	
Seals	NBR	
Components	stainless steel, brass	
Coil	U5	
Power consumption	2 W DC/2,3 VA AC (Ø 1,2) 2,5 W DC/3,5 VA AC (Ø 1,5)	
Electrical connection	15 mm connector Molex bipolar connector or loose cables	
Voltage	24 V DC -12 V DC - 24 V AC - 110 V AC - 230 V AC	
Manual override	recessed button - 1 position (other manual overrides upon request)	
Protection degree with connector	IP65	

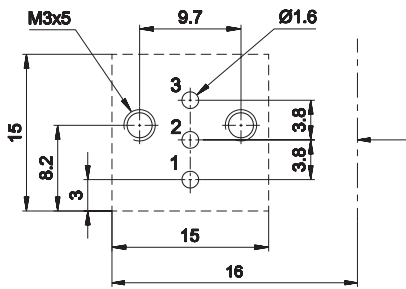


Reference standard

II 3 GD c nA II T5 -10 °C ≤ Ta ≤ 45°C IP65



ISO 15218 Substructure



A Pitch

3/2 NC

- 1 = Supply port
- 2 = Use
- 3 = Exhaust

3/2 NO

- 1 = Exhaust
- 2 = Use
- 3 = Supply port

2/2 NO

- 1 = Exhaust
- 2 = Supply port

Drilling jig to assemble the valve on a smooth surface with a sealing plate in between. Part no. [A-299-11](#).

ISO 15218 MICROVALVES

	Code	Function	Pressure bar	Ø mm	Flow rate NI/min.	Current	Response Time (ms)		Weight kg	
	MICROVALVES Ø 1,2 FOR DIRECT CURRENT COILS 2 W									
	A-141N	2/2 NC	0÷9	1,2	26	DC	11	11	0,018	
	A-161N	2/2 NO	0÷9	1,2	26	DC	11	11	0,018	
	A-101N	3/2 NC	0÷9	1,2	26	DC	11	11	0,018	
	A-121N	3/2 NO	0÷9	1,2	26	DC	11	11	0,018	
	MICROVALVES Ø 1.5 FOR DIRECT CURRENT COILS 2,5 W									
	A-142N	2/2 NC	0÷8	1,5	38	DC	11	11	0,018	
	A-102N	3/2 NC	0÷8	1,5	38	DC	11	11	0,018	
	MICROVALVES Ø 1,2 FOR DIRECT OR ALTERNATED CURRENT									
	A-151N	2/2 NC	0÷9	1,2	26	DC/AC	11	11	0,018	
	A-171N	2/2 NO	0÷9	1,2	26	DC/AC	11	11	0,018	
	A-111N	3/2 NC	0÷9	1,2	26	DC/AC	11	11	0,018	
	A-131N	3/2 NO	0÷9	1,2	26	DC/AC	11	11	0,018	
	MICROVALVES Ø 1,5 FOR DIRECT OR ALTERNATE CURRENT									
	A-152N	2/2 NC	0÷8	1,5	38	DC/AC	11	11	0,018	
	A-112N	3/2 NC	0÷8	1,5	38	DC/AC	11	11	0,018	

A Manual override

B 180° rotation capabilit

3/2 NC

1 = Supply port

2 = Use

3 = Exhaust

3/2 NO

1 = Exhaust

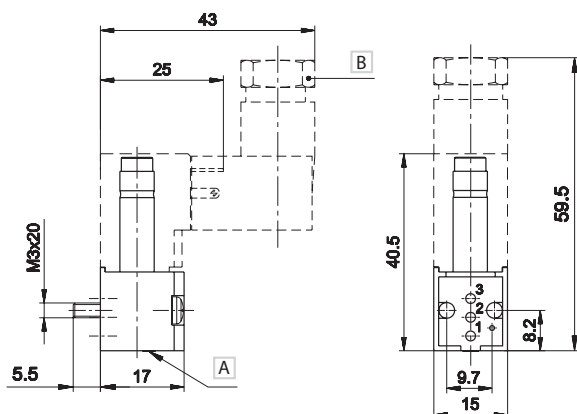
2 = Use

3 = Supply port

2/2 NO

1 = Exhaust

2 = Supply port



The microvalves are supplied without coil and connector.

2 W DC COILS FOR Ø 1.2 MM MICROVALVES

DD-051 24 V DC - 2 W	Coil with Faston terminals
DD-041 12 V DC - 2 W	
DD-051L030 24 V DC - 2 W	Coil with flying leads

2.5 W DC COILS FOR Ø 1.5 MM MICROVALVES

DD-052 24 V DC - 2.5 W	Coil with Faston terminals
DD-042 12 V DC - 2.5 W	
DD-052L030 24 V DC - 2.5 W	Coil with flying leads

DC AND AC COILS FOR Ø 1.2 MM MICROVALVES

DD-040 24 V AC - 50/60 Hz - 2,3 VA	Coil with Faston terminals
DD-041 12 V DC - 2 W	
DD-050 48 V AC - 50/60 Hz - 2,3 VA	
DD-051 24 V DC - 2 W	
DD-070 230 V AC - 50/60 Hz - 2,3 VA	
DD-051L030 24 V DC - 2 W	
	Coil with flying leads

DC AND AC COILS FOR Ø 1.5 MICROVALVES

DD-013 230 V AC - 50/60 Hz	Coil with Faston terminals
DD-040 24 V AC - 50/60 Hz - 2,3 VA	
DD-042 12 V DC - 2,5 W	
DD-042 12 V DC - 2,5 W	
DD-060 110 VAC - 50/60 Hz - 2,3 VA	
DD-052L030 24 V DC - 2.5 W	
	Coil with flying leads

The microvalves are supplied without coil and connector.



key



Button



Pressure applied with a tool

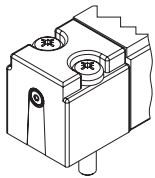


Manual adjustment

MANUAL CONTROL STANDARD



RECESSED PUSH-BUTTON, 1 POSITION

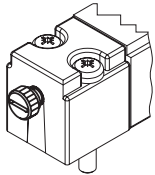


Metal

MANUAL CONTROLS ON REQUEST



PUSH-BUTTON, 1-2 POSITION

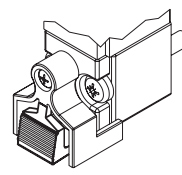


03
EXAMPLE:
A-141N03

Red technopolymer



PUSH-BUTTON, 1 POSITION

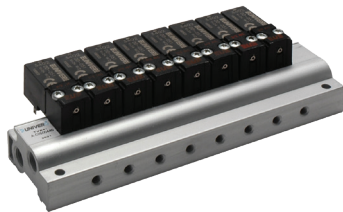


LETTER TO BE ADDED AT THE END
OF THE ELECTROPILOT CODE

02
EXAMPLE:
A-141N02

Red technopolymer

SUB-BASE FOR EXTERNAL ELECTRIC CONNECTION



STANDARD

A - 326A-__

G1/8
threaded connec-
tions

UPON REQUEST

A - 326B-__

M5
threaded connec-
tions

A - 326D-__

push-in connections
tube 4

__ Specify the number of positions on the base. Example: 5 positions: **A - 326A - 05**

Sub-base in extruded anodized aluminium with conveyed supplies and exhausts for assembling NC or NO valves.
If NC and NO valves are assembled on just one base, it is necessary to insert the inverter part **A-350** for NO valves.

A Manual override

N = Number of valve positions

3/2 NC

1 = Supply port

2 = Use

3 = Exhaust

3/2 NO

1 = Exhaust

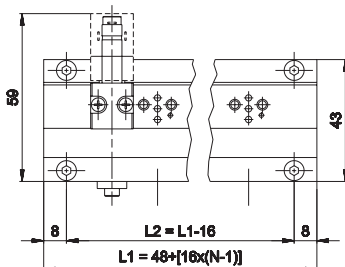
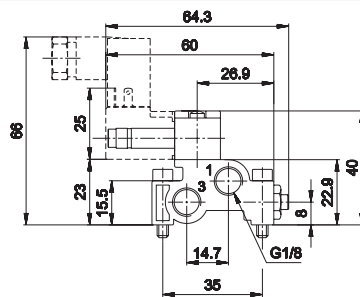
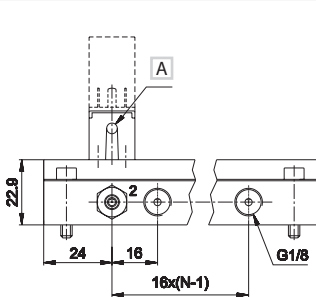
2 = Use

3 = Supply port

2/2 NO

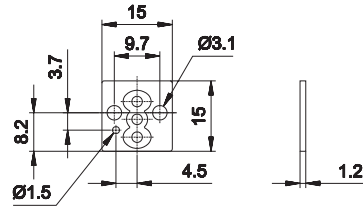
1 = Exhaust

2 = Supply port



The microvalves are supplied without coil and connector.

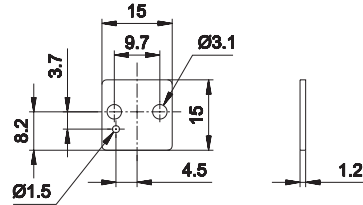
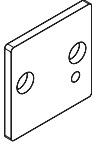
SEALING PLATE



A-299-11

It blocks the seal in place when the valve is mounted on a smooth surface without a seal housing
material: aluminium
weight: 0,003 Kg

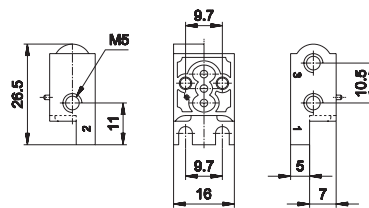
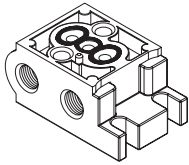
BLANK PLATE



A-301

Unused valve stations must be closed with the blank plate
material: aluminium
weight: 0,002 Kg

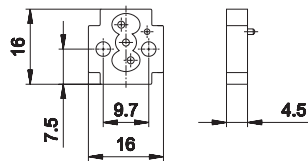
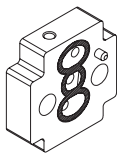
SINGLE BASE



A-305

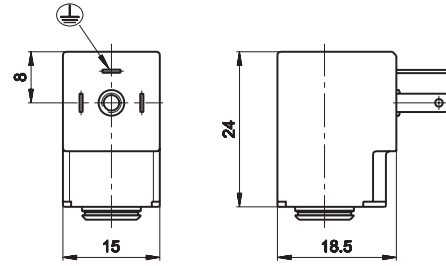
material: zamak
connection: M5
weight: 0,012 Kg

INVERTER PLATE

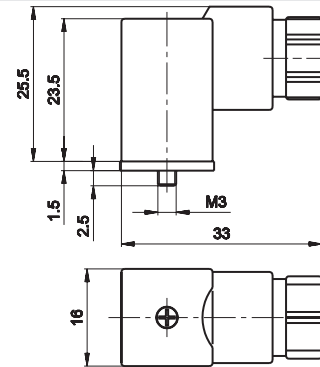


A-350

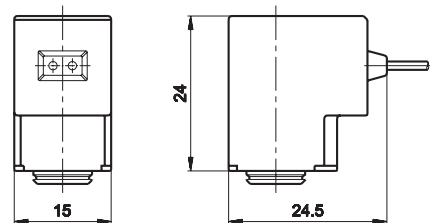
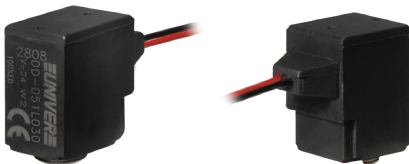
NO and NC valves can be mounted on a single block inserting this device between the NO valve and the sub-base.
If all installed valves are NO versions, just invert air supply without using the inverter plate.
material: plastic
weight: 0,002 Kg

COIL U05 15 MM FASTON


Code	Duty cycle ED %	Power consumption W				Tolerance tension %		Rated voltage		Frequency HZ	Weight Kg
		DC W		AC VA							
		Hold	Inrush	Hold	Inrush	DC	AC	DC	AC		
DD-013	100	-	-	3,5	-	-	±10	-	230	50/60	0,019
DD-040	100	-	-	2,3	3,2	-	±10	-	24	50/60	0,019
DD-041	100	2	2	-	-	±10	-	12	-	-	0,019
DD-042	100	2,5	2,5	-	-	±10	-	12	-	-	0,019
DD-050	100	-	-	2,3	3,2	±10	-	-	48	50/60	0,019
DD-051	100	2	2	-	-	±10	-	24	-	-	0,019
DD-052	100	2,5	2,5	-	-	±10	-	24	-	-	0,019
DD-060	100	-	-	-	-	-	±10	-	110	50/60	0,019
DD-070	100	-	-	2,3	3,2	-	-	-	230	50/60	0,019

CONNECTOR 15 MM


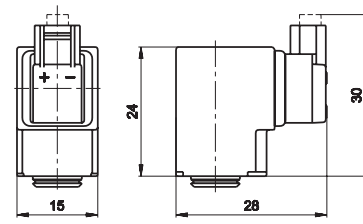
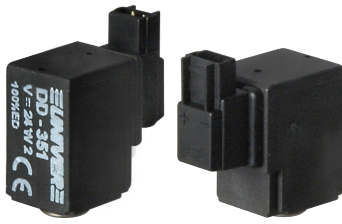
Code	Coils series	Protection according	Cable connection	Rotation
AM-5109	U5	IP65	PG9	180°

U05 COIL WITH FLYING LEADS (300 MM LENGTH)


Code	Duty cycle ED %	Power consumption W		Tension tolerance %	Rated voltage	Weight Kg
		Hold	Inrush			
DD-051L030	100	2	2	±10	24V DC	0,019
DD-052L030	100	2,5	2,5	±10	24V DC	0,019

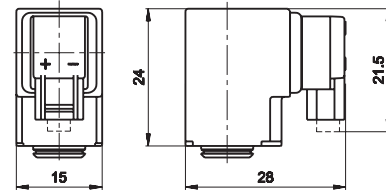
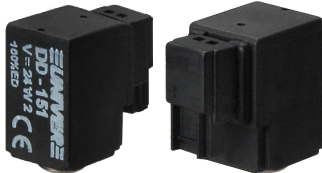
The microvalves are supplied without coil and connector.

U05 COIL WITH INTEGRATED 90° UPWARD CONNECTOR



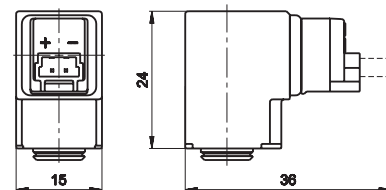
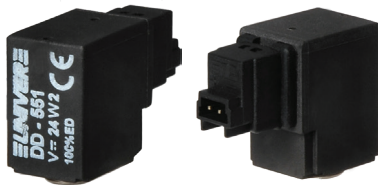
Code	Duty cycle ED %	Power consumption W		Tension tolerance %	Rated voltage	Weight Kg
Hold	Inrush					
DD-351	100	2	2	±10	24 V DC	0,019

U05 COIL WITH INTEGRATED 90° DOWNWARD CONNECTOR



Code	Duty cycle ED %	Power consumption W		Tension tolerance %	Rated voltage	Weight Kg
Hold	Inrush					
DD-151	100	2	2	±10	24 V DC	0,019

U05 COIL WITH IN-LINE CONNECTOR



Code	Duty cycle ED %	Power consumption W		Tension tolerance %	Rated voltage	Weight Kg
Hold	Inrush					
DD-551	100	2	2	±10	24 V DC	0,019

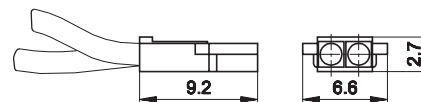
Upon request: version with LED and V DC version

MINIATURE CONNECTOR WITHOUT WIRES



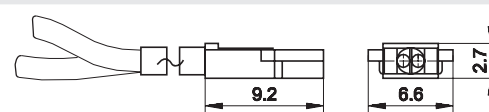
Code	Length (mm)	Coil
D-500	-	Series U05

MINIATURE CONNECTOR WITH LOOSE CABLES



Code	Length (mm)	Coil
D-530-30	300	Series U05
D-530-50	500	SeriesU05
D-530-200	2000	Serie sU05

MINIATURE CONNECTOR WITH CABLE



Code	Length (mm)	Coil
D-535-30	300	Series U05
D-535-50	500	SeriesU05
D-535-200	2000	Series U05

The microvalves are supplied without coil and connector.