

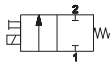
CHARACTERISTICS

Ambient temperature	-5 ÷ +50 °C	
Fluid	10 µm filtered air, with or without lubrication	
Commutation system	poppet	
Max pressure	9 bar	
Fixing	nr. 2 screws M3	
Connections	ISO 15218 interface	
Nominal bore (mm)	1,2	1,5
Nominal flow rate (NI/min)	26	38
Max frequency	2700 cycles/min	
Valve body	technopolymer (aluminium external cover)	
Seals	NBR	
Power consumption	2 W DC / 2 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	

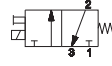


15 mm Microvalves

■ NC

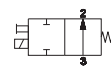


	Ø	Voltage
A-141N	1,2	2 W DC
A-142N	1,5	2,5 W DC
A-151N	1,2	V DC/AC 2W/2 VA

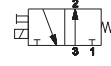


	Ø	Voltage
A-101N	1,2	2 W DC
A-102N	1,5	2,5 W DC
A-111N	1,2	V DC/AC 2W/2 VA
A-112N	1,5	V DC/AC 2,5W/3,5 VA

■ NO



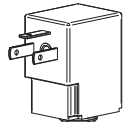
	Ø	Voltage
A-161N	1,2	2 W DC
A-162N	1,5	2,5 W DC
A-171N	1,2	V DC/AC 2W/2 VA



	Ø	Voltage
A-121N	1,2	2 W DC
A-122N	1,5	2,5 W DC
A-131N	1,2	V DC/AC 2W/2 VA

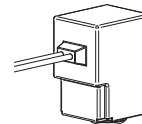
Revolving coil 90°x90°

Coils



DD-013	220 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

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 VA



DD-051L030	24 V DC - 2 W
DD-052L030	24 V DC - 2,5 W

24 V DC Faston connector
12 V DC upon request

24 V DC Coil with loose cables
12 V DC upon request

Sub-base for external electrical connection



- A - 326A - __ G1/8 (standard)
- A - 326B - __ M5 (upon request)
- A - 326D - __ tube 4 (upon request)

__ = Number of positions

Sub-base for integrated electrical connection

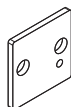


For further information please
contact our Sales Office

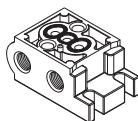
A-299-11 A-301 A-305 A-350 A-345



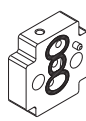
Sealing plate



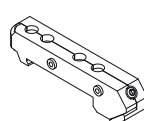
Blank end-plate



Single base



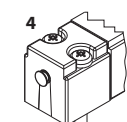
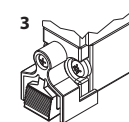
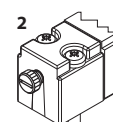
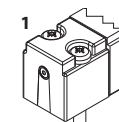
Inverter plate



46277/3
(EN50022) DIN
rail adaptor

Manual override

- 1 = Recessed button - 1 position (standard supplied)
- 2 = Impulse screw - 1-2 positions (upon request)
- 3 = Front button - 1 position (upon request)
- 4 = Key button - 1 position (upon request)



A

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



TECHNICAL CHARACTERISTICS

Ambient temperature	-5 ÷ +50 °C	
Fluid temperature	max +50 °C	
Fluid	10 µm filtered air, lubricated or not	
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	ISO 15218 interface	
Nominal Ø	1,2	1,5
Nominal flow rate	26	38
Max frequency	2700 cycles/min	

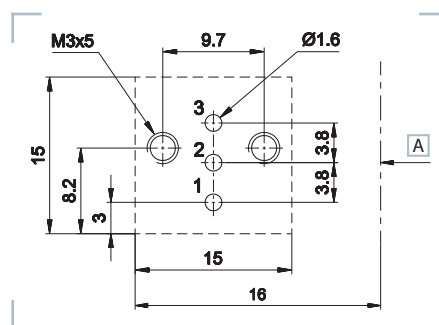
CONSTRUCTIVE CHARACTERISTICS

Valve body	technopolymer (aluminium external cover)
Seals	nitrile rubber
Components	stainless steel, brass

ELECTRIC CHARACTERISTICS

Coil	U05 DD series	
Power consumption	24 V AC - 48 V AC - 110 V AC - 230 V AC	
Electrical connection	15 mm connector - Molex-type bipolar connector or loose wires	
Voltage	12 V DC - 24 V DC	
Manual override	with button with tool	
	(upon request other manual overrides, see page 1_5)	
Protection degree with connector	IP65	

ISO 15218 Substructure



A Pitch

3/2 NC

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

3/2 NO

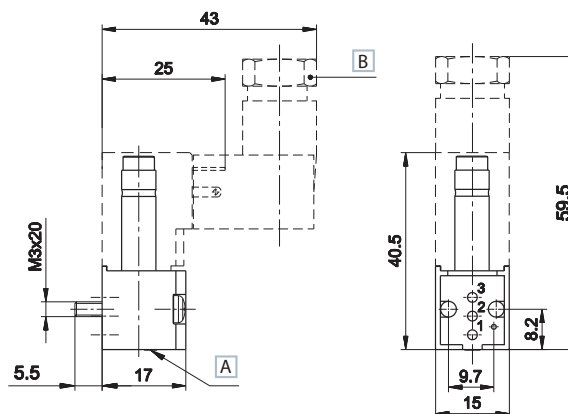
- 1 = Exhaust
- 2 = Use
- 3 = Supply port

2/2 NO

- 1 = Exhaust
- 3 = Supply port

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

15 mm Microvalves



A Manual override

B Possible rotation by 180°

3/2 NC

1 = Supply port

2 = Use

3 = Exhaust

3/2 NO

1 = Exhaust

2 = Use

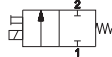
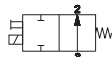
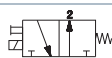
3 = Supply port

2/2 NO

1 = Exhaust

3 = Supply port

Microvalves Ø 1,2 for direct current coils 2 W

	Symbol	Pressure bar	Ø mm	Flow rate NI/min.	Current	Times (ms)		Weight (b) Kg	Part no.
						En.	De-en.		
2/2 NC		0÷9	1,2	26	DC	11	11	0,018 (0,037)	A-141N
2/2 NO		0÷9	1,2	26	DC	11	11	0,018 (0,037)	A-161N
3/2 NC		0÷9	1,2	26	DC	11	11	0,018 (0,037)	A-101N
3/2 NO		0÷9	1,2	26	DC	11	11	0,018 (0,037)	A-121N

Suggested coils

DD-051
24 V DC - 2 W

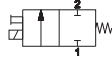
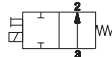
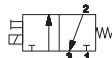
Coil with Faston

DD-051L030
24 V DC - 2 W

Coil with flying cables

Upon request 12 V DC

Microvalves Ø 1,5 for direct current coils 2,5 W

	Symbol	Pressure bar	Ø mm	Flow rate NI/min.	Current	Times (ms)		Weight (b) Kg	Part no.
						En.	De-en.		
2/2 NC		0÷8	1,5	38	DC	11	11	0,018 (0,037)	A-142N
2/2 NO		0÷8	1,5	38	DC	11	11	0,018 (0,037)	A-162N
3/2 NC		0÷8	1,5	38	DC	11	11	0,018 (0,037)	A-102N
3/2 NO		0÷8	1,5	38	DC	11	11	0,018 (0,037)	A-122N

Suggested coils

DD-052
24 V DC - 2,5 W

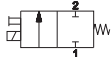
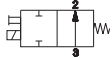
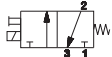
Coil with Faston

DD-052L030
24 V DC - 2,5 W

Coil with flying cables

Upon request 12 V DC

Microvalves Ø 1,2 for direct or alternate current

	Symbol	Pressure bar	Ø mm	Flow rate NI/min.	Current	Times (ms)		Weight (b) Kg	Part no.
						En.	De-en.		
2/2 NC		0÷9	1,2	26	DC/AC	11	11	0,018 (0,037)	A-151N
2/2 NO		0÷9	1,2	26	DC/AC	11	11	0,018 (0,037)	A-171N
3/2 NC		0÷9	1,2	26	DC/AC	11	11	0,018 (0,037)	A-111N
3/2 NO		0÷9	1,2	26	DC/AC	11	11	0,018 (0,037)	A-131N

Suggested coils

DD-040
24 V AC - 50/60 Hz - 2 VA
DD-050
48 V AC - 50/60 Hz - 2 VA
DD-051
24 V DC - 2 W
DD-070
230 V AC - 50/60 Hz - 2 VA

Coil with Faston

DD-051L030
24 V DC - 2 W

Coil with flying cables

Upon request 12 V DC

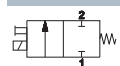
(b) = the weight in brackets refers to coil with faston

For technical data of coils see "Accessories>Coils"

Pilots are supplied without coil, connector and sealing plate

Microvalves Ø 1,5 for direct or alternate current

2/2 NC



Pressure

bar

Ø

mm

Flow rate

Nl/min.

Current

Times (ms)

En.

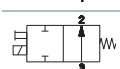
De-en.

Weight (b)

Kg

Part no.

3/2 NC



0÷9

1,5

38

DC/AC

11

11

0,018

(0,037)

A-152N

0÷9

1,5

38

DC/AC

11

11

0,018

(0,037)

A-112N

Suggested coils

DD-011

24 V AC - 50/60 Hz

DD-013

220 V AC - 50/60 Hz - 3,5 VA

DD-040

24 V AC - 50/60 Hz - 3,5 VA

DD-052

24 V DC - 2,5 W

DD-060

48 VAC - 50/60 Hz - 3,5 VA

DD-052L030

24 V DC - 2,5 W

Coil with Faston

Coil with flying cables

Upon request 12 V DC

>> Coils

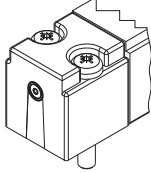
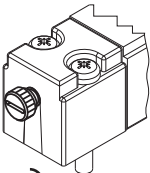
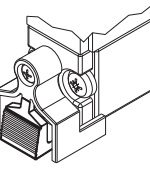
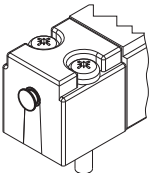


U5 flying cables
weight: 0,019 Kg
DD-051L030
DD-052L030

U05 15 mm
weight: 0,019 Kg
DD-011 **DD-051**
DD-013 **DD-052**
DD-040 **DD-060**
DD-041 **DD-070**
DD-050

Standard manual override

Operation	Notes	Symbol
1 = with button with tool, 1 position (standard)	metallic	→
2 = with button, 1-2 positions (upon request)	technopolymer red colour	⊖
3 = with front button, 1 position (upon request)	technopolymer red colour	→
4 = with button, 1 position (upon request)	metallic	→

1
2
3
4

(b) = the weight in brackets refers to coil with faston

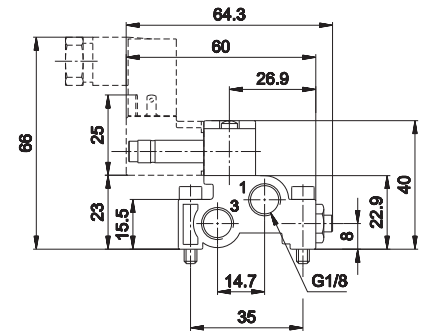
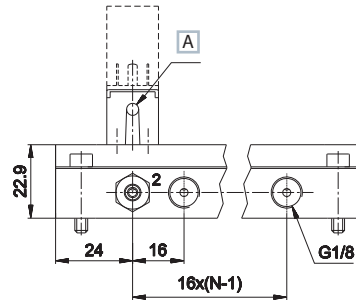
For technical data of coils see "Accessories>Coils"

Pilots are supplied without coil, connector and sealing plate

Sub-base for external electric connection

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 - 326A - __^(b) G1/8 threaded connections (standard)
 A - 326B - __^(b) M5 threaded connections (upon request)
 A - 326C - __^(b) push-in connections tube 3 (upon request)
 A - 326D - __^(b) push-in connections tube 4 (upon request)



A Manual override

N = Number of valve positions
 (b) = Number of positions

3/2 NC

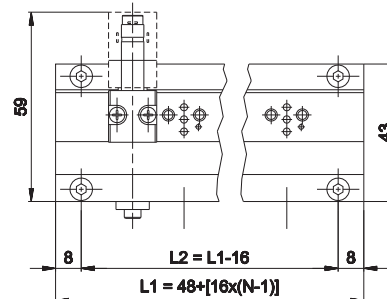
1 = Supply port
 2 = Use
 3 = Exhaust

3/2 NO

1 = Exhaust
 2 = Use
 3 = Supply port

2/2 NO

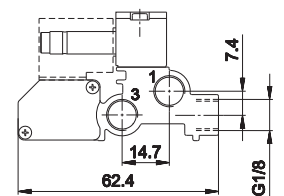
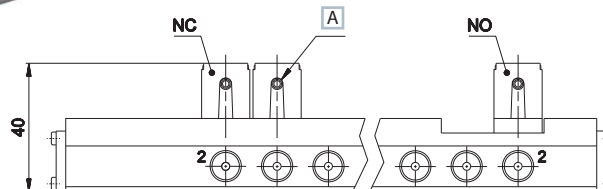
1 = Exhaust
 3 = Supply port



Sub-base for integrated electric connection

Sub-base with sub-D connector in extruded anodized aluminium up to max. 13 stations with connector 15 pin (upon request up to 23 with connector 25 pin) and G1/8 threaded standard connections, with conveyed supplies and exhausts for assembling NC or NO valves with integrated coil connection and optical indication of the valve activation.

If both, NO and NC valves, are assembled on just one sub-base, NC valves are always mounted on the connector side and afterwards the NO valves. The invert (part no. A-350) is inserted for NO valves.



A Manual override

N = Number of valve positions

3/2 NC

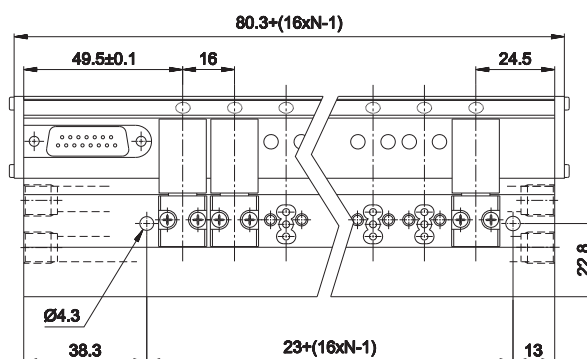
1 = Supply port
 2 = Use
 3 = Exhaust

3/2 NO

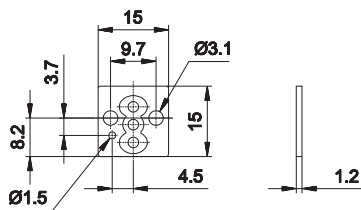
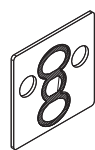
1 = Exhaust
 2 = Use
 3 = Supply port

2/2 NO

1 = Exhaust
 3 = Supply port

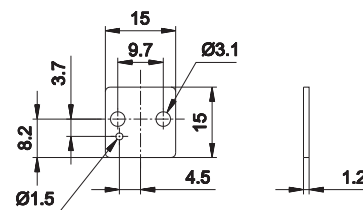
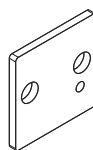


A-299-11

**Sealing plate**

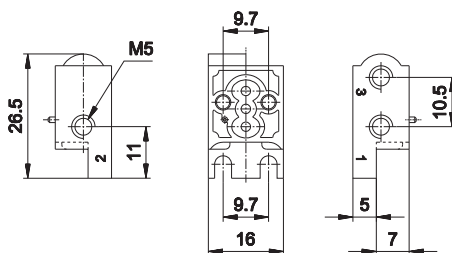
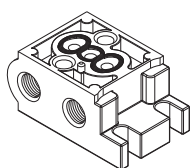
It blocks the seal in place when the valve is mounted on a smooth surface without a seal housing
 material: aluminium
 weight: 0,003 Kg

A-301

**Blank plate**

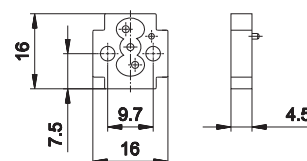
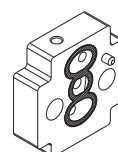
Unused valve stations must be closed with the blanking plate
 material: aluminium
 weight: 0,002 Kg

A-305

**Single base**

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

A-350

**Inverter**

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