

Δ

15 mm Microvalves

- Flow rate max 38 Nl/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 ℃					
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 conr	nector IP65

ISO 15218 Substructure



A Pitch

3/2 NC	
1 = Supply port 2 = Use 3 = Exhaust	
3/2 NO	2/2 NO

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

2 = Use3 = Supply port

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

U

15 mm Microvalves





A Manual override B Possible rotation by 180°

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

Microvalves Ø 1,2 for direct current coils 2 W

	Symbol	Pressure	Ø	Flow rate	Current	Time	es (ms)	Weight (b)	Part no.	Suggested coil	S
		bar	mm	NI/min.		En.	De-en.	Kg			
2/2 NC		0÷9	1,2	26	DC	11	11	0,018 (0,037)	A-141N	DD-051 24 V DC - 2 W	Coil with Faston
2/2 NO		0÷9	1,2	26	DC	11	11	0,018 (0,037)	A-161N	DD-051L030 24 V DC - 2 W	Coil with flying cables
3/2 NC		0÷9	1,2	26	DC	11	11	0,018 (0,037)	A-101N		Upon request 12 V DC
3/2 NO		0÷9	1,2	26	DC	11	11	0,018 (0,037)	A-121N		

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

	Symbol	Pressure	Ø	Flow rate	Current	Time	es (ms)	Weight (b)	Part no.	Suggested coils	S
		bar	mm	NI/min.		En.	De-en.	Kg			
2/2 NC		0÷8	1,5	38	DC	11	11	0,018 (0,037)	A-142N	DD-052 24 V DC - 2,5 W	Coil with Faston
2/2 NO		0÷8	1,5	38	DC	11	11	0,018 (0,037)	A-162N	DD-052L030 24 V DC - 2,5 W	Coil with flying cables
3/2 NC		0÷8	1,5	38	DC	11	11	0,018 (0,037)	A-102N		Upon request 12 V DC
3/2 NO		0÷8	1,5	38	DC	11	11	0,018 (0,037)	A-122N		

Microvalves Ø 1,2 for direct or alternate current

	Symbol	Pressure	Ø	Flow rate	Current	Times (ms)		Times (ms)		Times (ms)		Weight (b)	Part no.	Suggested coils	
		bar	mm	NI/min.		En.	De-en.	Kg							
2/2 NC		0÷9	1,2	26	DC/AC	11	11	0,018 (0,037)	A-151N	DD-040 24 V AC - 50/60 Hz -2 VA DD-050	Coil with Faston				
2/2 NO		0÷9	1,2	26	DC/AC	11	11	0,018 (0,037)	A-171N	48 V AC - 50/60 Hz - 2 VA DD-051 24 V DC - 2 W					
3/2 NC		0÷9	1,2	26	DC/AC	11	11	0,018 (0,037)	A-111N	DD-070 230 V AC - 50/60 Hz - 2 VA					
3/2 NO		0÷9	1,2	26	DC/AC	11	11	0,018 (0,037)	A-131N	DD-051L030 24 V DC - 2 W	Coil with flying cables				

(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

15 mm Microvalves

A

Microvalves Ø 1,5 for direct or alternate current

	Symbol	Pressure	Ø	Flow rate	Current	Time	es (ms)	Weight (b)	Part no.	Suggested coils	
		bar	mm	NI/min.		En.	De-en.	Kg			
2/2 NC		0÷9	1,5	38	DC/AC	11	11	0,018 (0,037)	A-152N	DD-011 24 V AC - 50/60 Hz DD-013	Coil with Faston
3/2 NC		0÷9	1,5	38	DC/AC	11	11	0,018 (0,037)	A-112N	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 flying cables

Upon request 12 V DC

>> Coils



Standard manual override

Operation		Notes	Symbol
1 = with button with tool, 1 pos	tion (standard)	metallic	\rightarrow
2 = with button, 1-2 positions (u	ipon request)	technopolymer red colour	Θ
3 = with front button, 1 position	(upon request)	technopolymer red colour	\rightarrow
4 = with button, 1 position (upo	n request)	metallic	\rightarrow
		3	4

Electropilots

For technical data of coils see "Accessories>Coils"

Pilots are supplied without coil, connector and sealing plate

15 mm Microvalves



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)



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.



1.2

A





M5

Sealing plate It blocks the seal in place when the valve is mounted on a smooth surface without a seal housing

26.5

material: aluminium

weight: 0,003 Kg

A-305



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





1.2

Ø1.5 Blank plate

l 0 0

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

3.7

8.2

15

9.7

Ø3.1

15

4.5

A-350

A-301



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

Electropilots

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