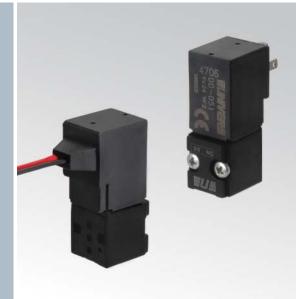


Δ

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 °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 | | | | | |

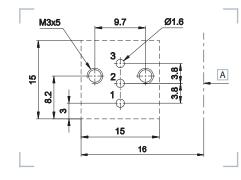
CONSTRUCTIVE CHARACTERISTICS

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

ELECTRIC FEATURES

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

. 2 = Use 3 = Supply port

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

A



15 mm Microvalves





A Manual override B Possible rotation by 180°

| 1 = Supply port 1 = Exhaust 1 = Exh | haust |
|-------------------------------------|-----------|
| 2 = Use 2 = Use 3 = Su | pply port |
| 3 = Exhaust 3 = Supply port | |

Microvalves Ø 1,2 for direct current coils 2 W

| | Symbol | Pressure | Ø | Flow rate | Current | Current 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 | 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 | 5 |
|--------|--------|----------|-----|-----------|---------|------|---------|------------------|----------|--------------------------------------|----------------------------|
| | | 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 | Time | s (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 |

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

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 position (| standard) | metallic | \rightarrow |
| 2 = with button, 1-2 positions (upon a | equest) | technopolymer red colou | ır \ominus |
| 3 = with front button, 1 position (upo | n request) | technopolymer red colou | ir 🔶 |
| 4 = with button, 1 position (upon req | uest) | metallic | \rightarrow |
| | | 3 | |

(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

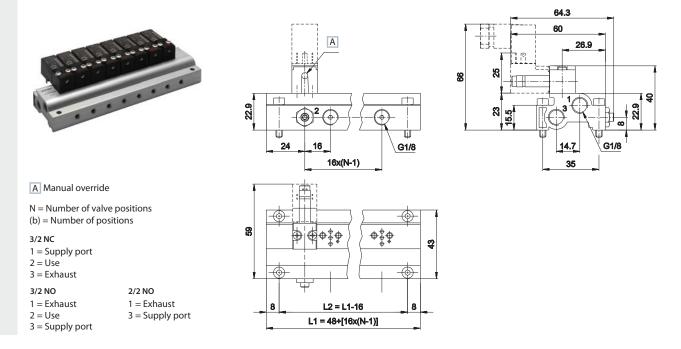
Α



Sub-base for external electric connection

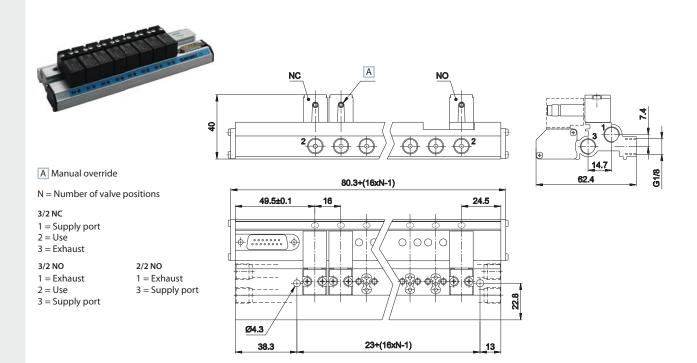
Sub-base in extruded anodized aluminium with conveyed supplies and exhausts for assembling NC or NO valves. If NC and NO valves are assembled on just one base, it is necessary to insert the inverter part A-350 for NO valves.

- 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.

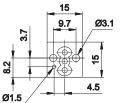


1.2



A





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

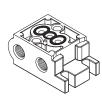
26.5

M5

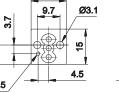
material: aluminium

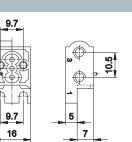
weight: 0,003 Kg

A-305



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

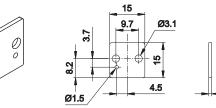




1.2

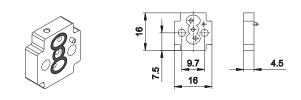
A-301

0



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

Electropilots