

FEATURES

- CNOMO pad-mount version for valve piloting applications
- Compact size and low weight for easy installation on single or joinable subbases
- AC/DC interchangeability of the solenoid operator without any need for disassembly of the valve
- Version with M12 connection with visual indication and peak voltage suppression conforming to "UL" standards
- Flexible installation on joinable subbases
- Manual operator as standard
- The solenoid valves satisfy all relevant EC directives

GENERAL

Differential pressure See "SPECIFICATIONS" [1 bar = 100 kPa]
Maximum allowable pressure 16 bar
Response time 5 - 10 ms

| fluids (*) | temperature range (TS) | seal materials (*) |
|----------------|------------------------|--------------------|
| air, inert gas | - 10°C to + 60°C | NBR (nitrile) |

MATERIALS IN CONTACT WITH FLUID

(*) Ensure that the compatibility of the fluids in contact with the materials is verified

| | |
|--------------------------------|------------------|
| Body | PA, glass-filled |
| Core tube | Stainless steel |
| Core and plugnut | Stainless steel |
| Internal parts, springs | Stainless steel |
| Seals | NBR |
| Shading coil | Copper |

CONSTRUCTION

Mounting pad ISO 15218 (CNOMO 06-05-80 / NF E 49066, size 30)

ELECTRICAL CHARACTERISTICS

Coil insulation class F
Connector Spade plug (cable Ø 6-8 mm) or M12
Connector specification EN 175301-803, industry standard form B (11 mm) or CNOMO E03.62.520.N (M12)
Electrical safety IEC 335
Electrical enclosure protection Moulded IP65 (EN 60529)
Standard voltages DC (=): 24V - 48V (M12: 24V + LED and protection)
AC (~): 24V - 48V - 115V - 230V / 50 Hz

| - | power ratings | | | | operator ambient temperature range (TS) (C°) | replacement coil | | type ⁽¹⁾ |
|---|---------------|---------|----------|---------|----------------------------------------------|------------------|----------|---------------------|
| | inrush | holding | hot/cold | ~ | | = | | |
| | (VA) | (VA) | (W) | | | | (W) | |
| - | 6 | 3,5 | 2,5 | 2,5 / 3 | -10 to + 60 | 230 V/50 Hz | 24 V DC | 01 |
| - | - | - | - | - | - | 43004422 | 43004166 | 06 |
| - | - | - | - | - | - | - | 43005523 | 06 |

⁽¹⁾ Refer to the dimensional drawings on the following page.

SPECIFICATIONS

| pipe size | orifice size | | flow at 6 bar l/min (ANR) | | flow coefficient Kv | | operating pressure differential (bar) | | | power coil (W) | | catalogue number | | |
|-----------------------------|--------------|-------|---------------------------|---------|---------------------|---------|---------------------------------------|------------------|------------------|----------------|---|---------------------------------|----------------|-------------------|
| | 1 → 2 | 2 → 3 | 1 → 2 | 2 → 3 | 1 → 2 | 2 → 3 | min. | max. (PS) | | ~ | = | with maintained manual operator | | |
| | (mm) | (mm) | (l/min) | (l/min) | (l/min) | (l/min) | | air (*) | ~ | | | = | with connector | without connector |
| NC - Normally closed | | | | | | | | | | | | | | |
| pad mounting ⁽²⁾ | 1,2 | 1,5 | 50 | 56 | 0,07 | 0,8 | 0 | 10 | 10 | 2,5 | 3 | 18900001 | 18900002 | - |
| | | | | | | | | | | - | 3 | - | - | 18900073 |
| NO - Normally open | | | | | | | | | | | | | | |
| pad mounting ⁽²⁾ | 1,2 | 1,5 | 40 | 50 | 0,07 | 0,6 | 0 | 6 ⁽⁵⁾ | 6 ⁽⁵⁾ | 2,5 | 3 | 18900010 | 18900011 | - |
| | | | | | | | | | | - | 3 | - | - | 18900075 |

EMBASES

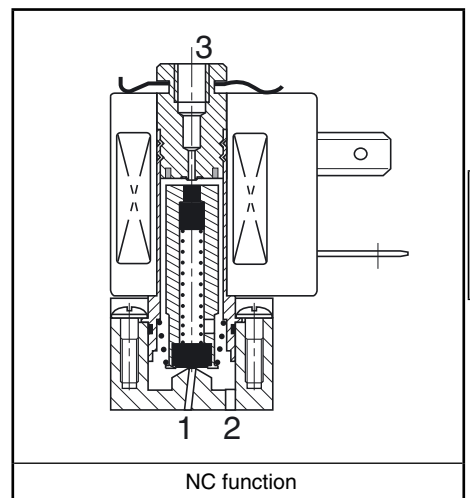
| pipe size | designation | composition | catalogue number |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------|-------------|-------------------------|
| 6/6 polyamide subbases | | | |
| instant fittings ⁽³⁾ | single subbase (instant fittings OD 4 mm) | | 35300069 |
| | joinable subbase (instant fittings OD 4 mm) | | 35300070 |
| | set of 2 joinable end subbases, right-hand pressure intake, endpieces with instant fittings OD 6 mm | | 35300071 |
| | set of 2 joinable end subbases, right-hand and/or left-hand pressure intake, endpieces with instant fittings OD 6 mm | | 35300072 ⁽⁴⁾ |
| Zamak subbases | | | |
| G 1/8 ⁽³⁾ tapped | laterally-connected single subbase | | 35300047 |
| | laterally-connected joinable subbase | | 35300048 |

⁽²⁾ Port 3: M5.

⁽³⁾ These subbases can be mounted on omega rail to EN 50022 using 2 clips (clips sold in packs of 10, catalogue number: 33400036).

⁽⁴⁾ The equipment can be used for two different pressure intakes, supplied with one blanking plug to cover unused port.

⁽⁵⁾ 10 bar on request (with 5W/6,9W coil)



E

OPTIONS

- Explosionproof enclosures for use in zones 1/21-2/22, categories 2-3 to ATEX Directive 94/9/EC (see "Explosionproof solenoids" section): Ex mb (PV), **PV18901001** or **PV18901010** / Potentially explosive atmospheres (DU), zone 22
- Straight M12 connector (IP67 protection with connector correctly installed): with 5 m cable: catalogue number **88130212**
- Catalogue number (without connector) + connector catalogue number (with integrated LED indicator and electrical protection): 24 V (~/=), **88122405** - 48 V (~/=), **88122406** - 115 V (~), **88122407** - 230 V (~), **88122408**
- Compliance with "UL", "CSA" standards are available (UL: catalogue number **612100**)
- Right-angle M12 connector (IP67 protection with connector correctly installed), with 5 m cable: catalogue number **88130213**
- M5 flow control regulator to fit port 3, catalogue number: **34600380**
- Plug with visual indication and peak voltage suppression or with cable length of 2 m (see Solenoids, Coils & Accessories section)

INSTALLATION

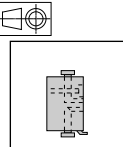
- The solenoid valves can be mounted in any position without affecting operation
- Mounting on single or joinable subbases
- ATEX 94/9/EC versions (options "SCDU" and "PV") can be installed on single (all versions) or joinable zinc diecast subbases
- Pipe connections 1/8 have standard thread according to ISO 228/1
- Installation/maintenance instructions are included with each valve

DIMENSIONS (mm), WEIGHT (kg)

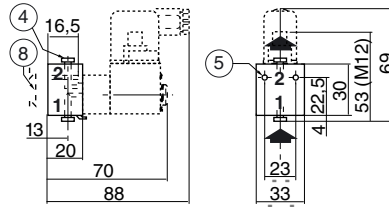
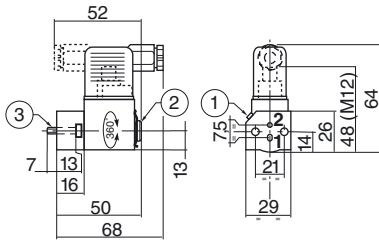
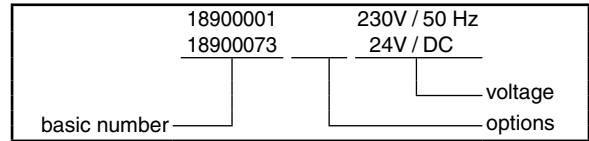
TYPE 01-06
 Spade plug /M12
 IEC 335 /
 EN 175301-803 (11 mm)
 E03.62.520.N, IP65
18900001/18900010/18900073/18900075



TYPE 02
 Single instant fitting
 subbase
 Polyamide
35300069

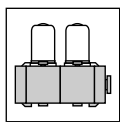


ORDERING EXAMPLES:

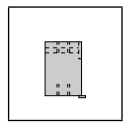


- 1 Manual operator location
- 2 Port 3: M5, depth 5,5 mm
- 3 Mounting: two CM4x20 screws
- 4 Instant-fitting connection for OD 4 mm tube
- 5 Mounting: two dia. 3,5 mm securing holes, dia. 6,5 mm counter-bores, depth 3,5 mm
- 6 Instant-fitting connection for OD 6 mm tube
- 7 Mounting: two dia. 4,5 mm securing holes
- 8 Adaptable clips
- 9 Subbase mounting hole

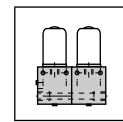
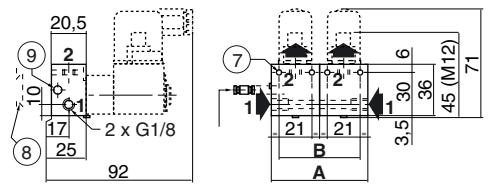
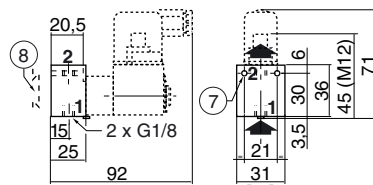
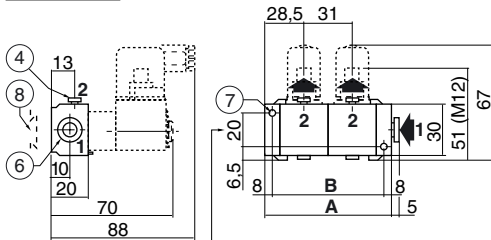
TYPE 03
 Joinable instant fitting subbase
 Polyamide
35300070
35300071 (set of 2)



TYPE 04
 Single subbase
 Zamak
35300047

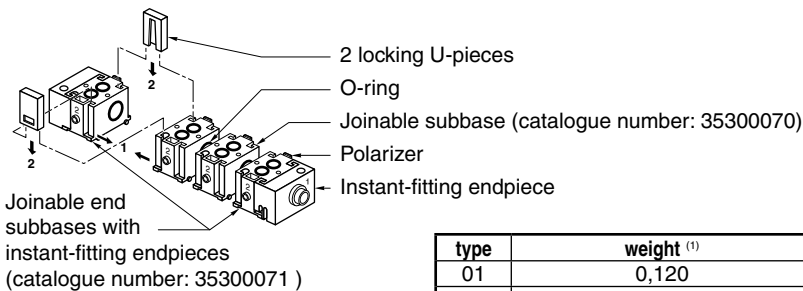


TYPE 05
 Joinable subbase
 Zamak
35300048

Right-hand pressure intake option or 2 different pressure intakes by procuring the set of two end subbases with endpieces (catalogue number: 35300072).

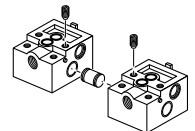
When mounted on DIN rail, it is recommended to use a securing clip on the end subbases as well as on the central subbase.



| type | weight ⁽¹⁾ |
|------|-----------------------|
| 01 | 0,120 |
| 02 | 0,135 |
| 04 | 0,185 |
| 06 | 0,105 |

⁽¹⁾ including coil and connector.
 (except M12 connection type 06)

Joinable subbases assembled with adapter locked by sunk set screws.
 For DIN rail mounting: see type 03.



| number of subbases | type 03 | | type 05 | |
|--------------------|---------|-----|---------|-----|
| | A | B | A | B |
| 2 | 88 | 72 | 62 | 52 |
| 3 | 119 | 103 | 93 | 83 |
| 4 | 150 | 134 | 124 | 114 |
| 5 | 181 | 165 | 155 | 145 |
| 6 | 212 | 196 | 186 | 176 |
| 7 | 243 | 227 | 217 | 207 |
| 8 | 274 | 258 | 248 | 238 |

| type | weight ⁽²⁾ | | | | | | |
|-------|-----------------------|-------|-------|-------|-------|-------|-------|
| | number of subbases | | | | | | |
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 03+01 | 0,295 | 0,430 | 0,565 | 0,700 | 0,835 | 0,970 | 1,105 |
| 03+06 | 0,265 | 0,385 | 0,505 | 0,625 | 0,745 | 0,865 | 0,985 |
| 05+01 | 0,400 | 0,600 | 0,800 | 1,000 | 1,200 | 1,400 | 1,600 |
| 05+06 | 0,370 | 0,555 | 0,740 | 0,925 | 1,110 | 1,295 | 1,480 |

⁽²⁾ Including seals, set screws and joining unit.