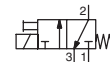




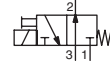
# SOLENOID VALVES

ISO 15218 (CNOMO, size 30) interface  
direct operated, pad mounting body  
instant fittings or G1/8 - G1/4 subbases

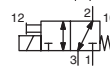
NC



NO



U



**3/2**  
Series  
**192**

## 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 EU directives

## GENERAL

**Differential pressure** See "SPECIFICATIONS" [1 bar = 100 kPa]  
**Maximum allowable pressure** 16 bar  
**Response time** 7 ms

| fluids (*)     | temperature range (TS) | seal materials (*)                  |
|----------------|------------------------|-------------------------------------|
| air, inert gas | - 10°C à + 60°C        | NBR (nitrile)<br>PUR (polyurethane) |

## MATERIALS IN CONTACT WITH FLUID

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

**Body** PAM, glass-filled  
**Core tube** Stainless steel  
**Core and plugnut** Stainless steel  
**Internal parts, springs** Stainless steel  
**Seals** NBR, PUR  
**Shading coil** Copper

## CONSTRUCTION

**Mounting pad** NC ISO 15218 (CNOMO 06-05-80 / NF E49-066, size 30)  
 NO - U NF E 49-066

## ELECTRICAL CHARACTERISTICS

**Coil insulation class** F  
**Connector** Spade plug (cable Ø 6-10 mm) or M12  
**Connector specification** ISO 4400 / EN 175301-803, form A  
 or CNOMO E03.62.520.N (M12)

**Electrical safety** IEC 335  
**Electrical enclosure protection** Moulded IP67 (EN 60529)  
 Moulded IP65, M12 version  
**Standard voltages** DC (=): 24V - 48V (M12: 24 V + LED and protection)  
 AC (~): 24V - 48V - 115V - 230V / 50 Hz  
 (Other voltages and 60 Hz on request)

| - | power ratings |              |     |               | operator<br>ambient<br>temperature<br>range (TS) | replacement coil |             | type <sup>(1)</sup> |
|---|---------------|--------------|-----|---------------|--------------------------------------------------|------------------|-------------|---------------------|
|   | inrush<br>~   | holding<br>~ |     | hot/cold<br>= |                                                  | ~                | =           |                     |
|   | (VA)          | (VA)         | (W) | (W)           |                                                  | (C°)             | 230 V/50 Hz |                     |
| - | 9             | 4            | 3   | 3 / 3         | -10 to + 60                                      | 43005627         | 43005642    | 01                  |
|   |               |              |     |               |                                                  | -                | 43005664    | 06                  |

<sup>(1)</sup> Refer to the dimensional drawings on the following page.

## SPECIFICATIONS

| pipe<br>size                                              | orifice<br>size |               | flow<br>at 6 bar<br>l/min (ANR) |       | flow<br>coefficient<br>Kv |                  | operating pressure<br>differential (bar) |           |    | power coil<br>(W) |   | without<br>man. operator | maintained<br>man. operator | impulse<br>man. operator | button<br>man. operator | catalogue number  |                      |                   |
|-----------------------------------------------------------|-----------------|---------------|---------------------------------|-------|---------------------------|------------------|------------------------------------------|-----------|----|-------------------|---|--------------------------|-----------------------------|--------------------------|-------------------------|-------------------|----------------------|-------------------|
|                                                           |                 |               |                                 |       |                           |                  |                                          |           |    |                   |   |                          |                             |                          |                         | with<br>connector | without<br>connector | M12<br>connection |
|                                                           | 1 → 2<br>(mm)   | 2 → 3<br>(mm) | 1 → 2                           | 2 → 3 | 1 → 2<br>(l/min)          | 2 → 3<br>(l/min) | min.                                     | max. (PS) |    | ~                 | = |                          |                             |                          |                         | ~/=               | ~/=                  | =                 |
|                                                           |                 |               |                                 |       |                           |                  |                                          | air (*)   |    |                   |   |                          |                             |                          |                         |                   |                      |                   |
| NC - Normally closed (with exhaust to the subbase)        |                 |               |                                 |       |                           |                  |                                          |           |    |                   |   |                          |                             |                          |                         |                   |                      |                   |
| pad<br>mounting <sup>(2)</sup>                            | 1,9             | 2,1           | 105                             | 105   | 1,5                       | 1,5              | 0                                        | 16        | 16 | 3                 | 3 | ×                        | ●                           | ▼                        | ■                       | 19201004          | 19201025             | 19201139          |
|                                                           |                 |               |                                 |       |                           |                  |                                          |           |    |                   |   |                          |                             |                          |                         | 19201005          | 19201026             | 19201140          |
|                                                           |                 |               |                                 |       |                           |                  |                                          |           |    |                   |   |                          |                             |                          |                         | 19201006          | 19201027             | 19201141          |
|                                                           |                 |               |                                 |       |                           |                  |                                          |           |    |                   |   |                          |                             |                          |                         | 19201068          | 19201074             | 19201155          |
|                                                           | 2,1             | 2,3           | 112                             | 154   | 1,6                       | 2,2              | 0                                        | 12        | 12 | 3                 | 3 | ×                        | ●                           | ▼                        | ■                       | 19201001          | 19201022             | 19201136          |
|                                                           |                 |               |                                 |       |                           |                  |                                          |           |    |                   |   |                          |                             |                          |                         | 19201002          | 19201023             | 19201137          |
|                                                           |                 |               |                                 |       |                           |                  |                                          |           |    |                   |   |                          |                             |                          |                         | 19201003          | 19201024             | 19201138          |
|                                                           |                 |               |                                 |       |                           |                  |                                          |           |    |                   |   |                          |                             |                          |                         | 19201067          | 19201073             | 19201154          |
| NC - Normally closed (with exhaust 1/8 to the front side) |                 |               |                                 |       |                           |                  |                                          |           |    |                   |   |                          |                             |                          |                         |                   |                      |                   |
| pad<br>mounting <sup>(2)</sup>                            | 1,9             | 2,1           | 105                             | 105   | 1,5                       | 1,5              | 0                                        | 16        | 16 | 3                 | 3 | ×                        | ●                           | ▼                        | ■                       | 19201010          | 19201031             | 19201145          |
|                                                           |                 |               |                                 |       |                           |                  |                                          |           |    |                   |   |                          |                             |                          |                         | 19201011          | 19201032             | 19201146          |
|                                                           |                 |               |                                 |       |                           |                  |                                          |           |    |                   |   |                          |                             |                          |                         | 19201012          | 19201033             | 19201147          |
|                                                           |                 |               |                                 |       |                           |                  |                                          |           |    |                   |   |                          |                             |                          |                         | 19201070          | 19201076             | 19201157          |
|                                                           | 2,1             | 2,3           | 112                             | 154   | 1,6                       | 2,2              | 0                                        | 12        | 12 | 3                 | 3 | ×                        | ●                           | ▼                        | ■                       | 19201007          | 19201028             | 19201142          |
|                                                           |                 |               |                                 |       |                           |                  |                                          |           |    |                   |   |                          |                             |                          |                         | 19201008          | 19201029             | 19201143          |
|                                                           |                 |               |                                 |       |                           |                  |                                          |           |    |                   |   |                          |                             |                          |                         | 19201009          | 19201030             | 19201144          |
|                                                           |                 |               |                                 |       |                           |                  |                                          |           |    |                   |   |                          |                             |                          |                         | 19201069          | 19201075             | 19201156          |

All leaflets are available on: [www.asco.com](http://www.asco.com)

## SPECIFICATIONS

| pipe size                                        | orifice size  |               | flow at 6 bar |       | flow coefficient |                  | operating pressure differential (bar) |           |    |   | power coil (W) |                | without man. operator | maintained man. operator | impulse man. operator | button man. operator | catalogue number  |                |  |
|--------------------------------------------------|---------------|---------------|---------------|-------|------------------|------------------|---------------------------------------|-----------|----|---|----------------|----------------|-----------------------|--------------------------|-----------------------|----------------------|-------------------|----------------|--|
|                                                  | 1 → 2<br>(mm) | 2 → 3<br>(mm) | 1 → 2         | 2 → 3 | 1 → 2<br>(l/min) | 2 → 3<br>(l/min) | min.                                  | max. (PS) |    | ~ | =              | with connector |                       |                          |                       |                      | without connector | M12 connection |  |
|                                                  |               |               |               |       |                  |                  |                                       | air (*)   |    |   |                |                |                       |                          |                       |                      |                   |                |  |
|                                                  |               |               |               |       |                  |                  |                                       | ~         | =  |   |                |                |                       |                          |                       |                      |                   |                |  |
| NO - Normally open (with exhaust to the subbase) |               |               |               |       |                  |                  |                                       |           |    |   |                |                |                       |                          |                       |                      |                   |                |  |
| pad mounting <sup>(2)</sup>                      | 2,1           | 1,9           | 112           | 105   | 1,6              | 1,5              | 0                                     | 10        | 10 | 3 | 3              | ×              |                       |                          |                       | 19201013             | 19201034          | 19201148       |  |
|                                                  |               |               |               |       |                  |                  |                                       |           |    |   |                |                | ●                     |                          |                       | 19201014             | 19201035          | 19201148       |  |
|                                                  |               |               |               |       |                  |                  |                                       |           |    |   |                |                |                       | ▼                        |                       | 19201015             | 19201036          | 19201150       |  |
|                                                  |               |               |               |       |                  |                  |                                       |           |    |   |                |                |                       |                          | ■                     | 19201071             | 19201077          | 19201158       |  |
| U - Universal (with exhaust to the subbase)      |               |               |               |       |                  |                  |                                       |           |    |   |                |                |                       |                          |                       |                      |                   |                |  |
| pad mounting <sup>(2)</sup>                      | 1,5           | 1,5           | 56            | 63    | 0,8              | 0,9              | 0                                     | 10        | 10 | 3 | 3              | ×              |                       |                          |                       | 19201019             | 19201037          | 19201151       |  |
|                                                  |               |               |               |       |                  |                  |                                       |           |    |   |                |                | ●                     |                          |                       | 19201020             | 19201038          | 19201152       |  |
|                                                  |               |               |               |       |                  |                  |                                       |           |    |   |                |                |                       | ▼                        |                       | 19201021             | 19201039          | 19201153       |  |
|                                                  |               |               |               |       |                  |                  |                                       |           |    |   |                |                |                       |                          | ■                     | 19201072             | 19201078          | 19201159       |  |

## EMBASSES

| pipe size                       | designation                                                                                                          | composition | catalogue number        |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------|-------------|-------------------------|
| <b>6/6 polyamide subbases</b>   |                                                                                                                      |             |                         |
| instant fittings <sup>(3)</sup> | 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 <sup>(4)</sup> |
| <b>Zamak subbases</b>           |                                                                                                                      |             |                         |
| tapped <sup>(3)</sup>           | laterally-connected single subbase                                                                                   |             | 35300047                |
|                                 | laterally-connected joinable subbase                                                                                 |             | 35300048                |
|                                 | laterally-connected single subbase (3 connectable ports lateral bore)                                                |             | 35300049                |
|                                 | laterally-connected joinable subbase (3 connectable ports lateral bore)                                              |             | 35300057                |

<sup>(2)</sup> Port 3: M5.

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

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

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

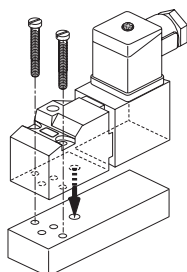
## OPTIONS

- Explosionproof enclosures for use in zones 1/21-2/22, categories 2-3 to ATEX Directive 2014/34/EU (see "Explosionproof solenoids" section): Ex mb (PV), catalogue numbers: **PV19201001...1072**
- Straight M12 connector (IP67 protection with connector correctly installed): with 5 m cable: catalogue number **88130212**
- Right-angle M12 connector (IP67 protection with connector correctly installed), with 5 m cable: catalogue number **88130213**
- Catalogue number (without connector) + connector catalogue number (with integrated LED indicator and electrical protection): 24 V (~/-), **88122603** - 48 V (~/-), **88122604** - 115 V (~/-), **88122605** - 230 V (~/-), **88122608**
- 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)

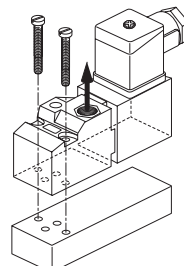
## INSTALLATION

- The solenoid valves can be mounted in any position without affecting operation
- Selection of the exhaust port:

to the subbase.  
(Collected in subbase)



to front side (G 1/8) equipped with an exhaust plug.  
(Exhaust to atmosphere)



- Mounting on single or joinable subbases
- ATEX 2014/34/EU versions (option "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
- M12 electrical connection:



|   |       |
|---|-------|
| 3 | -     |
| 4 | +     |
| 5 | earth |

- Installation/maintenance instructions are included with each valve

## ORDERING EXAMPLES:

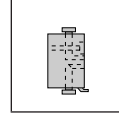
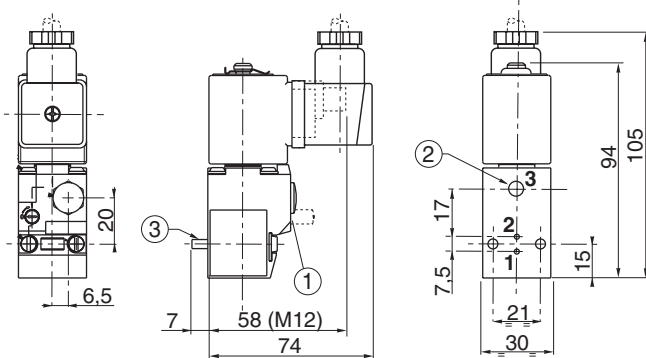
|              |                 |
|--------------|-----------------|
| 19201001     | 230V / 50 Hz    |
| 19201136     | 24V / DC        |
| basic number | voltage options |

## DIMENSIONS (mm), WEIGHT (kg)



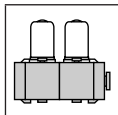
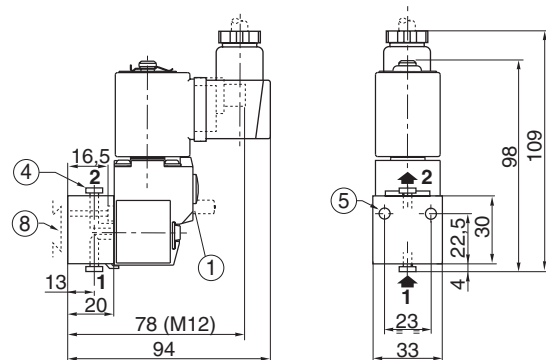
**TYPE 01-06**  
Spade plug / M12  
IEC 335 / IP67 / IP65 (M12)  
EN 175301-803 (11 mm)  
E03.62.520.N, IP65

19000005 to 19000045



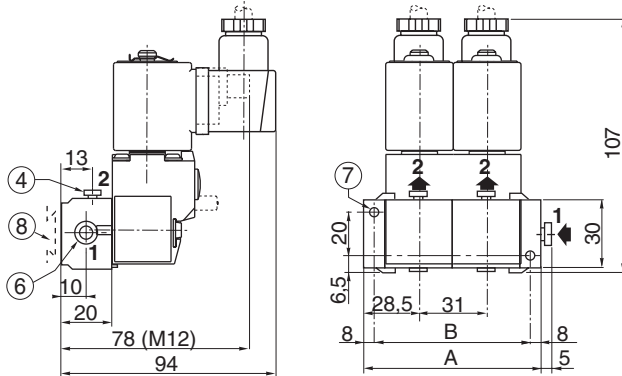
**TYPE 02**  
Single instant fitting subbase  
Polyamide

35300069



**TYPE 03**  
Joinable instant fitting subbase  
Polyamide

35300070 / 35300071 (set of 2)



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 <sup>(1)</sup> |
|------|-----------------------|
| 01   | 0,270                 |
| 02   | 0,135                 |
| 06   | 0,260                 |

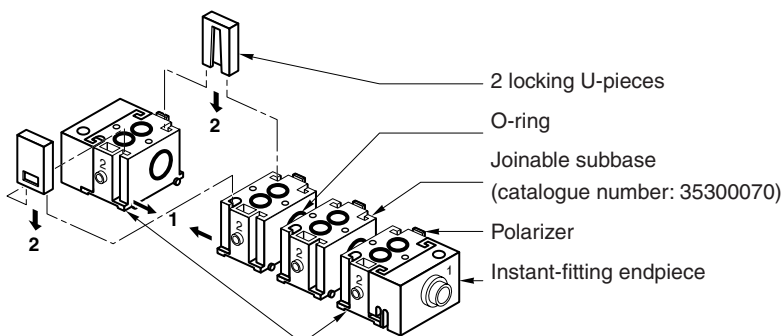
<sup>(1)</sup> including coil and connector. (except M12 connection type 06)

| type  | weight <sup>(2)</sup> |      |       |      |       |      |       |
|-------|-----------------------|------|-------|------|-------|------|-------|
|       | number of subbases    |      |       |      |       |      |       |
|       | 2                     | 3    | 4     | 5    | 6     | 7    | 8     |
| 03+01 | 0,595                 | 0,88 | 1,165 | 1,45 | 1,735 | 2,02 | 2,305 |

<sup>(2)</sup> Including seals, set screws and joining unit.

| number of subbases | type 03 |     |
|--------------------|---------|-----|
|                    | A       | B   |
| 2                  | 88      | 72  |
| 3                  | 119     | 103 |
| 4                  | 150     | 134 |
| 5                  | 181     | 165 |
| 6                  | 212     | 196 |
| 7                  | 243     | 227 |
| 8                  | 274     | 258 |

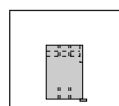
- ① Manual operator location
- ② Port 3: M5, depth 5,5 mm
- ③ Mounting: two CM4x20 screws
- ④ Instant-fitting connection for OD 4 mm tube
- ⑤ Mounting: two dia. 3,5 mm securing holes, dia. 6,5 mm counter-bores, depth 3,5 mm
- ⑥ Instant-fitting connection for OD 6 mm tube
- ⑦ Mounting: two dia. 4,5 mm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



Joinable end subbases with instant-fitting endpieces  
(catalogue number: 35300071 )

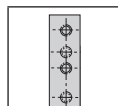
All leaflets are available on: [www.asco.com](http://www.asco.com)

### DIMENSIONS (mm), WEIGHT (kg)



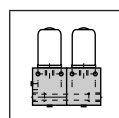
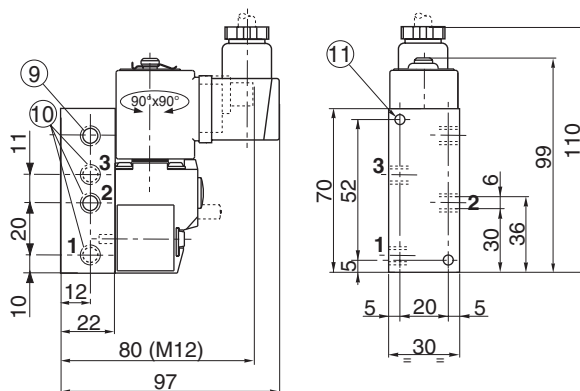
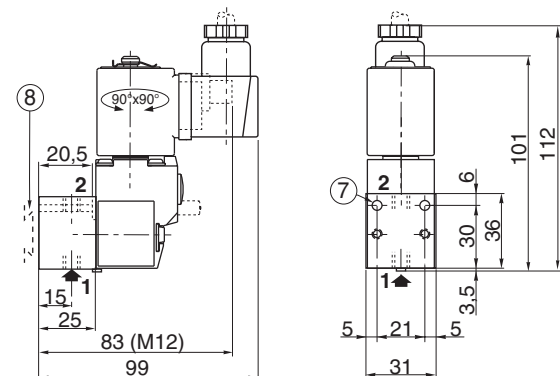
**TYPE 04**  
Single subbase  
1/8 - Zamak  
NC function only  
2 connectable ports

35300047



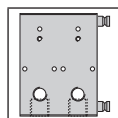
**TYPE 04**  
Single subbase  
1/4 - Zamak  
NC, NO or U function  
3 connectable ports

35300048



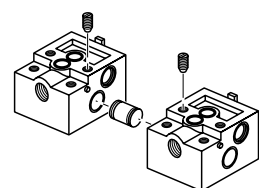
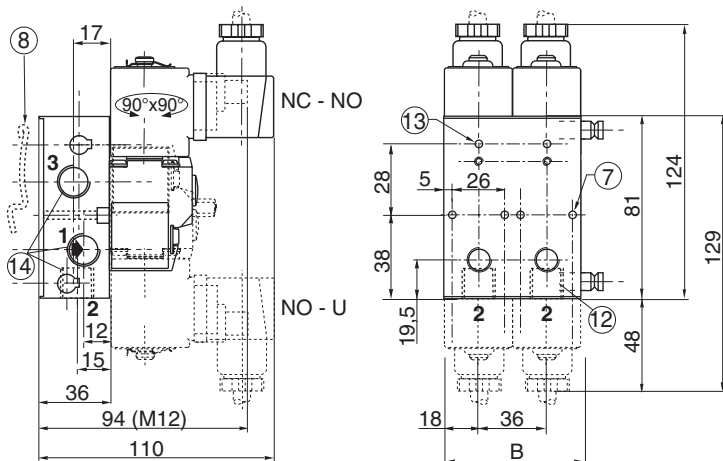
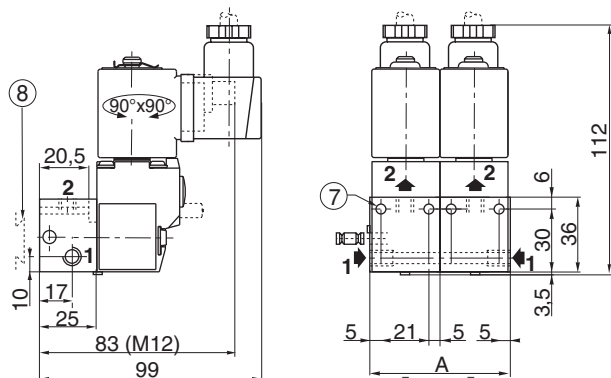
**TYPE 06**  
Joinable subbase  
1/8 - Zamak  
NC function only  
2 connectable ports

35300048



**TYPE 07**  
Joinable subbase  
1/4 - Zamak  
NC, NO or U function  
3 connectable ports

35300057



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

- ⑦ Mounting: two dia. 4,5 mm securing holes
- ⑧ Adaptable clips
- ⑨ Non-used port
- ⑩ Port 3: NC (exhaust) / NO (Inlet pressure)  
Port 2: NC - NO (Outlet pressure)  
Port 1: NC (Inlet pressure) / NO (exhaust)  
U: Pressure entry through any port
- ⑪ Mounting: two dia. 4,5 mm securing holes, dia. 8 mm counter-bores, depth 6 mm
- ⑫ Port 2: Accessible by removing cap
- ⑬ Mounting: two dia. 4,5 mm securing holes, dia. 7,5 mm counter-bores, depth 6 mm
- ⑭ NC-NO-U: Port 3 (exhaust) / Port 2 (Outlet pressure)  
Port 1 (Inlet pressure))

| type  | weight <sup>(2)</sup> |      |      |      |      |      |      |
|-------|-----------------------|------|------|------|------|------|------|
|       | number of subbases    |      |      |      |      |      |      |
|       | 2                     | 3    | 4    | 5    | 6    | 7    | 8    |
| 06+01 | 0,74                  | 1,10 | 1,48 | 1,85 | 2,22 | 2,59 | 2,96 |
| 07+01 | 0,88                  | 1,32 | 1,76 | 2,2  | 2,64 | 3,08 | 3,52 |

<sup>(2)</sup> Including seals, set screws and joining unit.

| number of subbases | type 06 | type 07 |
|--------------------|---------|---------|
|                    | A       | B       |
| 2                  | 62      | 72      |
| 3                  | 93      | 108     |
| 4                  | 124     | 144     |
| 5                  | 155     | 180     |
| 6                  | 186     | 216     |
| 7                  | 217     | 252     |
| 8                  | 248     | 288     |

| type    | weight <sup>(1)</sup> |
|---------|-----------------------|
| 04      | 0,185                 |
| 05      | 0,240                 |
| 04 + 01 | 0,455                 |
| 05 + 01 | 0,510                 |

<sup>(1)</sup> including coil and connector.



# SCATTERGOOD & JOHNSON LTD

ELECTRICAL ENGINEERING & FLUID CONTROL DISTRIBUTORS

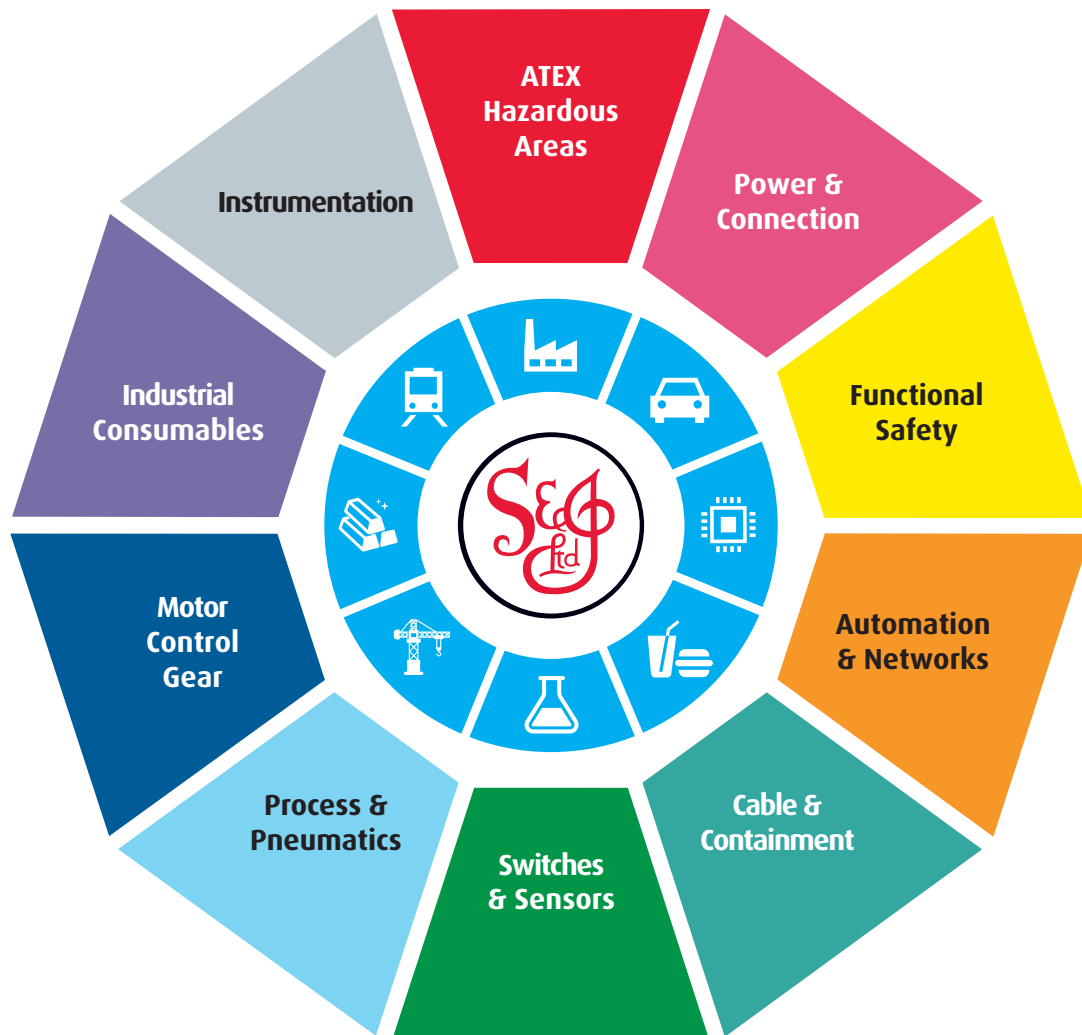
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