

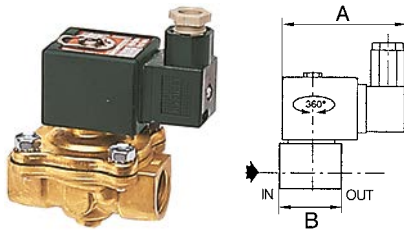
## 2/2-way solenoid valve

2/2-way type

**MAX** |||

Art. No. 102867

Type No. MV 1216 G



Exemplary illustration

Standard series, proven over many years, available in three different versions

- Directly operated
- Combined operation
- Pilot-operated

For all applications with compressed air, neutral gases or low-viscosity, neutral media.

Discontinued product. No longer available. New product (NONE)

### Technical data

|                       |                                      |
|-----------------------|--------------------------------------|
| Housing               | brass                                |
| Valve seat            | brass                                |
| Internal parts        | stainless steel                      |
| Protection IP         | IP 65 (with connector socket fitted) |
| Type                  | 3                                    |
| Function              | normally closed (NC)                 |
| Thread                | Rp 3/8                               |
| DN                    | 16 mm                                |
| Voltage               | 24 V DC                              |
| Operating pressure    | 0.35 - 9 bar                         |
| Sealant               | NBR                                  |
| Electrical connection | ISO 4400, cable socket (PG 11 P)     |
| Medium temperature    | -20 to 85 °C                         |
| Ambient temperature   | -20 to 50 °C                         |
| Standard thread       | ISO 7-1                              |
| A                     | 80.0 mm                              |
| B                     | 70.0 mm                              |

## Commercial data

|                         |                 |
|-------------------------|-----------------|
| Customs tariff number   | 84812090        |
| Country of origin       | DE              |
| eCl@ss 5.1.4            | 27220601        |
| eCl@ss 9.0              | 27220601        |
| UNSPSC_Code_v190501     | 40141605        |
| UNSPSC_CodeDesc_v190501 | Solenoid valves |

## Material informations

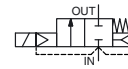
|                            |                         |
|----------------------------|-------------------------|
| REACH SVHC1 substance name | lead                    |
| CAS no. SVHC 1             | 7439-92-1               |
| RoHS materials notice      | RoHS compliant          |
| REACH Info                 | contains SVHC substance |

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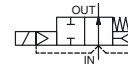
## SOLENOID VALVES

pilot operated  
floating diaphragm  
3/8 to 2

NC



NO


**2/2**  
Series  
**210**

### FEATURES

- Two way shut-off valves for automatic control of air, inert gas, water, oil and other gases/liquids compatible with the seal materials used
- Valves require a minimum  $\Delta P$  of 0,35 bar
- All NO products are covered by Pressure Equipment Directive 97/23/EC and are suitable for group 1 and 2 fluids
- The solenoid valves satisfy all relevant EC Directives

### GENERAL

**Differential pressure**

See «SPECIFICATIONS» [1 bar = 100 kPa]

**Maximum viscosity**

65 cSt (mm<sup>2</sup>/s)

**Response time**

15 - 60 ms (3/8 to 3/4); 40 - 120 ms (1 to 1 1/2)

| fluids (*)                 | temperature range (TS) | seal materials (*) |
|----------------------------|------------------------|--------------------|
| air, inert gas, water, oil | - 20°C to + 85°C       | NBR (nitrile)      |

### MATERIALS IN CONTACT WITH FLUID

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

**Body**

Brass

**Core tube**

Stainless steel

**Core and plugnut**

Stainless steel

**Springs**

Stainless steel

**Seat**

Brass

**Seal, diaphragm & disc**

NBR

**Disc holder (NO function)**

PA

**Shading coil**

Copper

### ELECTRICAL CHARACTERISTICS

**Coil insulation class**

F

**Connector**

Spade plug (cable Ø 6-10 mm)

**Connector specification**

ISO 4400 / EN 175301-803, form A

**Electrical safety**

IEC 335

**Electrical enclosure protection**

Moulded IP65 (EN 60529)

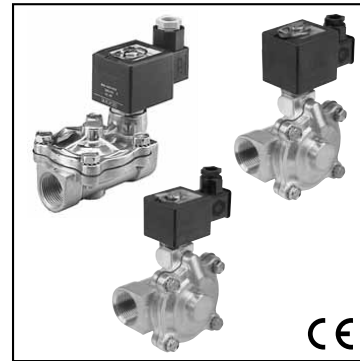
**Standard voltages**

DC (=) : 24V - 48V

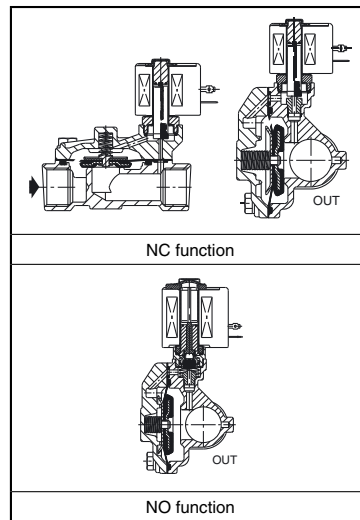
(Other voltages and 60 Hz on request)

AC (-) : 24V - 48V - 115V - 230V / 50 Hz

| prefix<br>option | 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 |                     |
| SC               | 34            | 15,6         | 6    | -             | -20 to + 75                                      | 400325-117       | -           | 01                  |
|                  | -             | -            | -    | 9/ 11,2       | -20 to + 75                                      | -                | 400425-142  | 02                  |
|                  | 78            | 35           | 16,7 | -             | -20 to + 50                                      | 400425-217       | -           | 02                  |
|                  | 110           | 33,6         | 15,4 | 12/16,8       | -20 to + 75                                      | 400525-117       | 400625-142  | 03                  |

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


CE

**C**


NC function

NO function

### SPECIFICATIONS

| pipe<br>size         | orifice<br>size | flow<br>coefficient<br>Kv |         | operating pressure<br>differential (bar) |           |    |           |    |         |    |                             | power coil<br>(W) |                           | catalogue<br>number | options |      |    |  |
|----------------------|-----------------|---------------------------|---------|------------------------------------------|-----------|----|-----------|----|---------|----|-----------------------------|-------------------|---------------------------|---------------------|---------|------|----|--|
|                      |                 |                           |         | min.                                     | max. (PS) |    |           |    |         |    | maintained<br>man. operator |                   |                           |                     | FPM     | EPDM | CR |  |
|                      |                 |                           |         |                                          | air (*)   |    | water (*) |    | oil (*) |    |                             |                   |                           |                     |         |      |    |  |
| Rp                   | (mm)            | (m³/h)                    | (l/min) |                                          | ~         | =  | ~         | =  | ~       | =  | ~                           | =                 |                           |                     |         |      |    |  |
| NC - Normally closed |                 |                           |         |                                          |           |    |           |    |         |    |                             |                   |                           |                     |         |      |    |  |
| 3/8                  | 16              | 2,6                       | 43      | 0,35                                     | 14        | 9  | 10        | 7  | 10      | 7  | 6                           | 11,2              | SCE210D001                | MO                  | V       | E    | J  |  |
|                      |                 |                           |         |                                          | 20        | -  | 20        | -  | 20      | -  | 16,7                        | -                 | SCE210C006                | MO                  | V       | E    | J  |  |
| 1/2                  | 16              | 3,4                       | 57      | 0,35                                     | 14        | 9  | 10        | 7  | 10      | 7  | 6                           | 11,2              | SCE210D002                | MO                  | V       | E    | J  |  |
|                      |                 |                           |         |                                          | 20        | -  | 20        | -  | 20      | -  | 16,7                        | -                 | SCE210C007                | MO                  | V       | E    | J  |  |
| 3/4                  | 19              | 4,3                       | 72      | 0,35                                     | 9         | 7  | 9         | 6  | 9       | 5  | 6                           | 11,2              | SCE210D009                | MO                  | V       | E    | J  |  |
|                      |                 | 5,6                       | 93      | 0,35                                     | 17        | 9  | 10        | 9  | 10      | 9  | 6                           | 11,2              | SCE210D003                | MO                  | V       | E    | J  |  |
| 1                    | 25              | 11,1                      | 185     | 0,35                                     | 9         | 9  | 9         | 9  | 9       | 9  | 6                           | 11,2              | SCE210D004                | MO                  | V       | E    | J  |  |
| 1 1/4                | 28              | 12,8                      | 213     | 0,35                                     | 9         | 9  | 9         | 9  | 9       | 9  | 6                           | 11,2              | SCE210D008                | MO                  | V       | E    | J  |  |
| 1 1/2                | 32              | 19,3                      | 322     | 0,35                                     | 9         | 9  | 9         | 9  | 9       | 9  | 6                           | 11,2              | SCE210D022                | MO                  | V       | E    | J  |  |
| NO - Normally open   |                 |                           |         |                                          |           |    |           |    |         |    |                             |                   |                           |                     |         |      |    |  |
| 3/4                  | 19              | 5,7                       | 95      | 0,35                                     | 17        | 17 | 14        | 14 | 14      | 14 | 15,4                        | 16,8              | SCE210C013                | MO                  | V       | E    | J  |  |
| 1                    | 25              | 11,1                      | 185     | 0,35                                     | 9         | 9  | 9         | 9  | 9       | 9  | 15,4                        | 16,8              | SCE210D014                | MO                  | V       | E    | J  |  |
| 1 1/4                | 28              | 12,8                      | 213     | 0,35                                     | 9         | 9  | 9         | 9  | 9       | 9  | 15,4                        | 16,8              | SCE210D018                | MO                  | V       | E    | J  |  |
| 1 1/2                | 32              | 19,3                      | 322     | 0,35                                     | 9         | 9  | 9         | 9  | 9       | 9  | 15,4                        | 16,8              | SCE210D032                | -                   | V       | E    | J  |  |
| 2                    | 44              | 37                        | 617     | 0,35                                     | 9         | 9  | 9         | 9  | 9       | 9  | 15,4                        | 16,8              | SCE210-103 <sup>(2)</sup> | -                   | V       | E    | J  |  |

<sup>(2)</sup> Floating piston construction.

All leaflets are available on: [www.asconumatics.eu](http://www.asconumatics.eu)

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## OPTIONS

- Valves can also be supplied with FPM (fluoroelastomer), EPDM (ethylene-propylene), CR (chloroprene) and PTFE seals and discs. Use the appropriate optional suffix letter for identification.
- Waterproof enclosure with embedded screw terminal coil according to protection class IP67, CEE-10
- Explosionproof enclosures for use in zones 1/21-2/22, categories 2-3 to ATEX Directive 94/9/EC (see "Explosionproof solenoids" section)
- Electrical enclosures according to "NEMA" standards are available
- Compliance with "UL", "CSA" and other local approvals available on request
- For protection against corrosion caused by the environment or the fluid, contact us
- Mounting brackets (3/8 to 3/4 solenoid valves)
- Other pipe connections are available on request
- 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
- Stainless steel valves are standard supplied with mounting brackets
- Pipe connection identifier is E = Rp (ISO 7/1)
- Installation/maintenance instructions are included with each valve

## SPARE PARTS KIT & ACCESSORIES

| catalogue number | spare parts kit no. |         | mounting bracket |
|------------------|---------------------|---------|------------------|
|                  | ~                   | =       |                  |
| SCE210D001/D002  | C302273             | C302373 | 038713-000       |
| SCE210D009       | C302277             | C302376 | 038713-000       |
| SCE210C006/C007  | C302274             | -       | 038713-000       |
| SCE210D003       | C302279             | C302378 | 038914           |
| SCE210D004/D008  | C302280             | C302379 | -                |
| SCE210D022       | C302284             | C302383 | -                |
| SCE210C013       | C302336             | C302451 | 038914           |
| SCE210D014/D018  | C302338             | C302452 | -                |
| SCE210D032       | C302341             | C302453 | -                |
| SCE210-103       | C304361             | C304361 | -                |

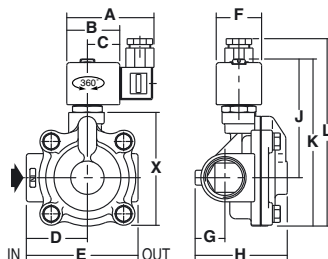
(1) Standard prefixes/suffixes are also applicable to kits.  
- Not available

## DIMENSIONS (mm), WEIGHT (kg)

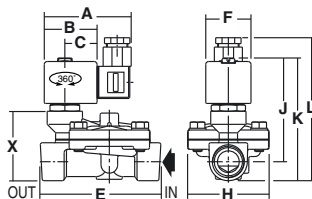


**TYPE 01-02**  
Prefix "SC" Solenoid  
Epoxy moulded  
IEC 335 / ISO 4400  
IP65

Type 01 (AC): SCE210D004/D008/D022  
Type 02 (DC): SCE210D004/D008/D022



Type 01 (AC): SCE210D003  
Type 02 (DC): SCE210D003



## ORDERING EXAMPLES:

|    |   |     |   |     |                 |
|----|---|-----|---|-----|-----------------|
| SC | E | 210 | D | 001 | 230V / 50 Hz    |
| SC | E | 210 | C | 007 | MO 115V / 50 Hz |
| SC | E | 210 | D | 022 | V 24V / DC      |
| SC | E | 210 | - | 103 | 230V / 50 Hz    |

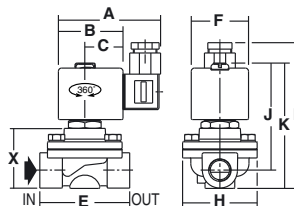
prefix  
pipe thread  
basic number  
voltage  
suffix

## ORDERING EXAMPLES KITS:

|                        |   |
|------------------------|---|
| C302277 <sup>(1)</sup> |   |
| C302373                | V |
| C302451                | E |

basic number  
suffix

Type 01 (AC): SCE210D001/D002/D009  
Type 02 (DC): SCE210D001/D002/D009  
(AC): SCE210C006/C007



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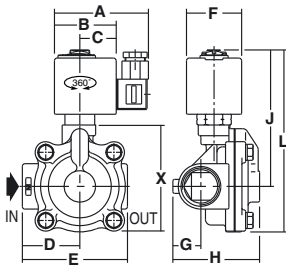
**ASCO®**

SOLENOID VALVES SERIES 210

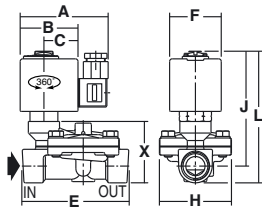


**TYPE 03**  
Prefix "SC" Solenoid  
Epoxy moulded  
IEC 335 / ISO 4400  
IP65

SCE210D014/D018/D032

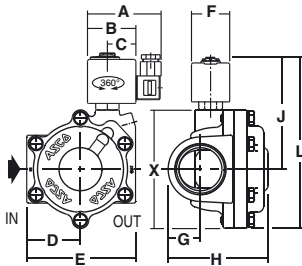


SCE210C013



**C**

SCE210-103



00042GB-2010/R01  
Availability, design and specifications are subject to change without notice. All rights reserved.

| type | prefix option | catalogue number | A  | B  | C  | D  | E   | F  | G  | H   | J   | K   | L   | X   | weight <sup>(2)</sup> |
|------|---------------|------------------|----|----|----|----|-----|----|----|-----|-----|-----|-----|-----|-----------------------|
| 01   | SC            | SC E210D001/D002 | 75 | 45 | 27 | -  | 70  | 39 | -  | 58  | 72  | 86  | 103 | 46  | 0,8                   |
|      |               | SC E210D009      | 75 | 45 | 27 | -  | 71  | 39 | -  | 58  | 76  | 92  | 109 | 47  | 0,8                   |
|      |               | SC E210D003      | 75 | 45 | 27 | -  | 100 | 39 | -  | 70  | 90  | 105 | 122 | 60  | 1,3                   |
|      |               | SC E210D004      | 75 | 45 | 27 | 52 | 95  | 39 | 25 | 75  | 101 | 143 | 160 | 98  | 1,8                   |
|      |               | SC E210D008      | 75 | 45 | 27 | 52 | 95  | 39 | 30 | 85  | 101 | 143 | 160 | 98  | 2,0                   |
|      |               | SC E210D022      | 75 | 45 | 27 | 56 | 111 | 39 | 33 | 100 | 105 | 156 | 173 | 109 | 2,5                   |
| 02   | SC            | SC E210D001/D002 | 80 | 50 | 30 | -  | 70  | 45 | -  | 58  | 85  | 97  | 111 | 46  | 0,9                   |
|      |               | SC E210D009      | 80 | 50 | 30 | -  | 71  | 45 | -  | 58  | 89  | 106 | 123 | 57  | 0,9                   |
|      |               | SC E210D003      | 80 | 50 | 30 | -  | 100 | 45 | -  | 70  | 94  | 109 | 126 | 60  | 1,4                   |
|      |               | SC E210C006/C007 | 80 | 50 | 30 | -  | 70  | 45 | -  | 58  | 85  | 99  | 116 | 50  | 0,9                   |
|      |               | SC E210D004      | 80 | 50 | 30 | 52 | 95  | 45 | 25 | 75  | 105 | 147 | 164 | 98  | 2,0                   |
|      |               | SC E210D008      | 80 | 50 | 30 | 52 | 95  | 45 | 30 | 85  | 105 | 147 | 164 | 98  | 2,0                   |
| 03   | SC            | SC E210D022      | 80 | 50 | 30 | 56 | 111 | 45 | 33 | 100 | 109 | 160 | 174 | 109 | 2,6                   |
|      |               | SC E210C013      | 86 | 56 | 33 | -  | 96  | 50 | -  | 70  | 112 | -   | 120 | 81  | 1,6                   |
|      |               | SC E210D014      | 86 | 56 | 33 | 52 | 95  | 50 | 25 | 75  | 125 | -   | 165 | 97  | 2,1                   |
|      |               | SC E210D018      | 86 | 56 | 33 | 52 | 95  | 50 | 30 | 85  | 125 | -   | 165 | 108 | 2,0                   |
|      |               | SC E210D032      | 86 | 56 | 33 | 56 | 111 | 50 | 33 | 95  | 128 | -   | 178 | 121 | 2,5                   |
|      |               | SC E210-103      | 86 | 56 | 33 | 65 | 129 | 50 | 38 | 119 | 138 | -   | 208 | 151 | 4,6                   |

<sup>(2)</sup> Incl. coil(s) and connector(s).

| mounting brackets                                                                     | for valves |
|---------------------------------------------------------------------------------------|------------|
|  | SCE210D001 |
|                                                                                       | SCE210D002 |
|                                                                                       | SCE210D009 |
|                                                                                       | SCE210C006 |
|                                                                                       | SCE210C007 |
|  | SCE210D003 |
|                                                                                       | SCE210C013 |

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