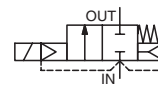




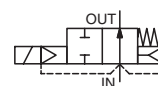
# SOLENOID VALVES

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 2014/68/EU and are suitable for group 1 and 2 fluids
- Electrovanne conforme aux Directives UE applicables

## 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        | holding |      | hot/cold |                                                  | ~                | =          |                     |
|                  | ~             | ~       |      | =        |                                                  |                  |            |                     |
|                  | (VA)          | (VA)    | (W)  | (W)      |                                                  |                  |            |                     |
| 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.

## SPECIFICATIONS

| pipe size            | orifice size | flow coefficient Kv |         | operating pressure differential (bar) |           |    |           |    |         |    |                          | power coil (W) |                           | catalogue number | options |      |    |  |
|----------------------|--------------|---------------------|---------|---------------------------------------|-----------|----|-----------|----|---------|----|--------------------------|----------------|---------------------------|------------------|---------|------|----|--|
|                      |              |                     |         | min.                                  | max. (PS) |    |           |    |         |    | maintained 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.asco.com](http://www.asco.com)

V340-1



### 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 2014/34/EU (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

### 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

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



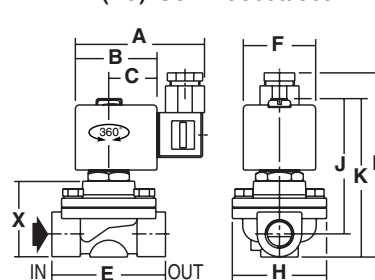
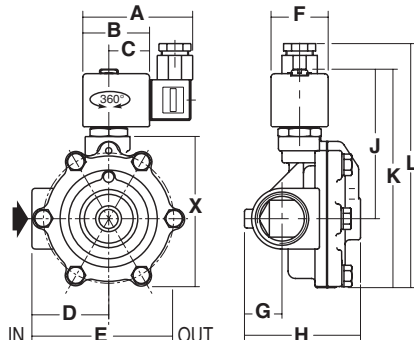
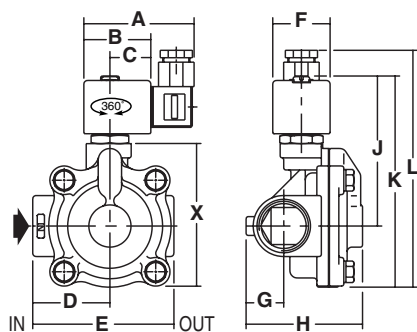
#### TYPE 01-02

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

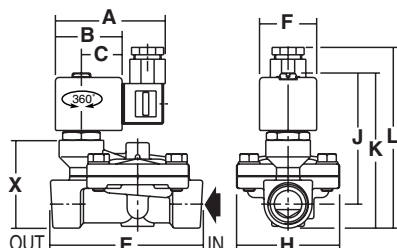
Type 01 (AC): SCE210D004/D008  
Type 02 (DC): SCE210D004/D008

Type 01 (AC): SCE210D022  
Type 02 (DC): SCE210D022

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



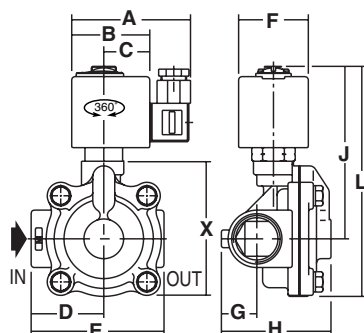
Type 01 (AC): SCE210D003  
Type 02 (DC): SCE210D003



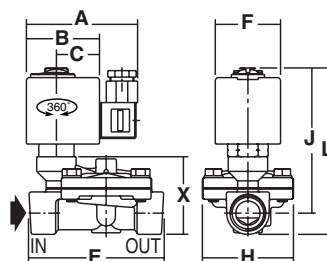


**TYPE 03**  
Prefix "SC" Solenoid  
Epoxy moulded  
IEC 335 / ISO 4400  
IP65

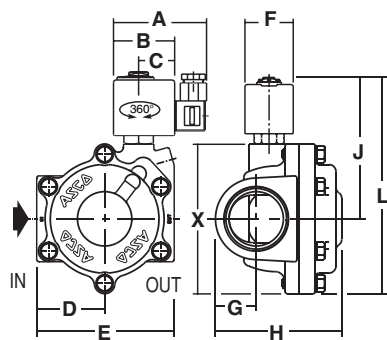
SCE210D014/D018/D032



SCE210C013



SCE210-103



| 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                                                                                            |
|-------------------|-------------------------------------------------------------------------------------------------------|
|                   | <b>SCE210D001</b><br><b>SCE210D002</b><br><b>SCE210D009</b><br><b>SCE210C006</b><br><b>SCE210C007</b> |
|                   | <b>SCE210D003</b><br><b>SCE210C013</b>                                                                |

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

