

### FEATURES

- Solenoid valves with three ports in body enabling convenient installation
- Coils interchangeable without dismantling the valve
- Optional maintained or impulse manual operator
- The solenoid valves satisfy all relevant EU directives

### GENERAL

**Differential pressure** See «SPECIFICATIONS» [1 bar = 100 kPa]  
**Maximum viscosity** 40 cSt (mm²/s)  
**Response time** 5- 20 ms

| fluids (*)                 | temperature range (TS) | seal materials (*)              |
|----------------------------|------------------------|---------------------------------|
| air, inert gas, water, oil | -25°C to +80°C         | NBR (nitrile)<br>VMQ (silicone) |

### MATERIALS IN CONTACT WITH FLUID

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

|                            | Brass body               | Stainless steel body |
|----------------------------|--------------------------|----------------------|
| Body                       | Brass                    | AISI 316L (1.4404)   |
| Internal parts             | Stainless steel, plastic | Stainless steel      |
| Springs                    | Stainless steel          | Stainless steel      |
| Seats                      | Brass                    | Brass                |
| Discs                      | NBR (FPM or EPDM)        | NBR (FPM or EPDM)    |
| O'rings                    | VMQ                      | VMQ                  |
| Disc holder and core guide | POM                      | POM                  |
| Shading coil               | Copper                   | Copper               |

### ELECTRICAL CHARACTERISTICS

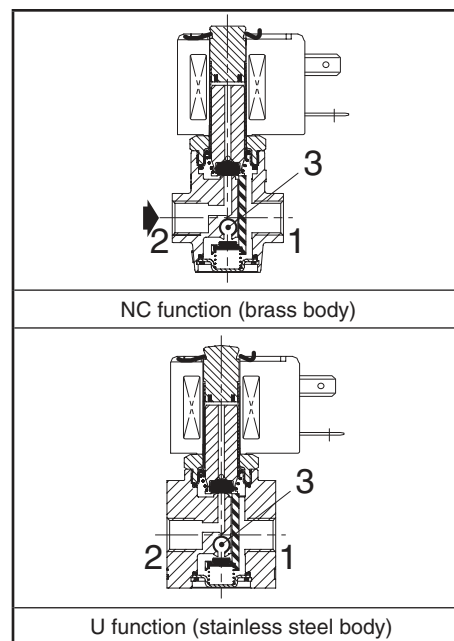
**Coil insulation class** F  
**Connector** Spade plug (cable Ø 6-10 mm)  
**Connector specification** ISO 4400 / EN 175301-803, form A  
**Electrical safety** IEC 335  
**Electrical enclosure protection** Moulded IP65 (EN 60529)  
**Standard voltages** DC (=): 24V - 48V  
 (Other voltages and 60 Hz on request) AC (~): 24V - 48V - 115V - 230V / 50 Hz

| prefix<br>option | power ratings |              |               | operator<br>ambient<br>temperature<br>range (TS)<br>(C°) | replacement coil |                       | type <sup>(1)</sup> |
|------------------|---------------|--------------|---------------|----------------------------------------------------------|------------------|-----------------------|---------------------|
|                  | inrush<br>~   | holding<br>~ | hot/cold<br>= |                                                          | ~                | =                     |                     |
|                  | (VA)          | (VA)         | (W)           |                                                          | 230 V/50 Hz      | 24 V DC               |                     |
| SC               | 55            | 23           | 10,5          | 9 / 11,2                                                 | -25 to +60       | 400425-117 400425-142 | 01                  |

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

### 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                     |     |      |   |
|----------------------|-----------------|---------------------------|---------|------------------------------------------|---------|-----------------|---------------|-------------------|------|---------------------|------------|------------|------------|-----------------------------|-----|------|---|
|                      |                 |                           |         |                                          |         |                 |               |                   |      |                     |            |            |            | maintained<br>man. operator | FPM | EPDM |   |
|                      | min.            | max. (PS)                 |         | brass                                    |         | stainless steel |               |                   |      |                     |            |            |            |                             |     |      |   |
|                      | 2 → 1           | 2 → 1 / 1 → 3             |         |                                          | air (*) |                 | water/oil (*) |                   |      |                     |            |            |            |                             |     |      |   |
| (G*)                 | (mm)            | (m³/h)                    | (l/min) |                                          | ~       | =               | ~             | =                 | ~    | =                   | ~          | =          | ~          | =                           |     |      |   |
| NC - Normally closed |                 |                           |         |                                          |         |                 |               |                   |      |                     |            |            |            |                             |     |      |   |
| 1/4                  | 2               | 0,11                      | 1,8     | 0                                        | 16      | 16              | 16            | 16                | 10,5 | 11,2                | SCE370A016 | SCE370A016 | SCE370A046 | SCE370A046                  | MS  | V    | E |
|                      | 2,7             | 0,2                       | 3,3     | 0                                        | 10      | 10              | 10            | 10                | 10,5 | 11,2                | SCE370A017 | SCE370A017 | SCE370A047 | SCE370A047                  | MS  | V    | E |
|                      | 3,8             | 0,3                       | 5       | 0                                        | 5       | 5               | 5             | 5                 | 10,5 | 11,2                | SCE370A018 | SCE370A018 | SCE370A048 | SCE370A048                  | MS  | V    | E |
| U - Universal        |                 |                           |         |                                          |         |                 |               |                   |      |                     |            |            |            |                             |     |      |   |
| 1/4                  | 2               | 0,11                      | 1,8     | 0                                        | 8       | 8               | 8             | 8                 | 10,5 | 11,2                | SCE370A026 | SCE370A026 | SCE370A056 | SCE370A056                  | MS  | V    | E |
|                      | 2,7             | 0,2                       | 3,3     | 0                                        | 5       | 5               | 5             | 5                 | 10,5 | 11,2                | SCE370A027 | SCE370A027 | SCE370A057 | SCE370A057                  | MS  | V    | E |
|                      | 3,8             | 0,3                       | 5       | 0                                        | 2       | 2               | 2             | 2                 | 10,5 | 11,2                | SCE370A028 | SCE370A028 | SCE370A058 | SCE370A058                  | MS  | V    | E |
| NO - Normally open   |                 |                           |         |                                          |         |                 |               |                   |      |                     |            |            |            |                             |     |      |   |
| 1/4                  | 2               | 0,11                      | 1,8     | 0                                        | 10      | 10              | 10            | 10                | 10,5 | 11,2                | SCE370A021 | SCE370A021 | SCE370A051 | SCE370A051                  | MS  | V    | E |
|                      | 2,7             | 0,2                       | 3,3     | 0                                        | 7       | 7               | 7             | 7                 | 10,5 | 11,2                | SCE370A022 | SCE370A022 | SCE370A052 | SCE370A052                  | MS  | V    | E |
|                      | 3,8             | 0,3                       | 5       | 0                                        | 3       | 3               | 3             | 3                 | 10,5 | 11,2                | SCE370A023 | SCE370A023 | SCE370A053 | SCE370A053                  | MS  | V    | E |



## OPTIONS

- Valves can also be supplied with FPM (fluoroelastomer) and EPDM (ethylene-propylene) 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 (prefix WP or WS)
- Explosionproof enclosures for use in zones 1/21-2/22, categories 2-3 to ATEX Directive 2014/34/EU (see "Explosionproof solenoids" section)
- Class H coil (10,5 W/11,2 W), prefix HT, example: SCHTE370A016
- Impulse or maintained manual operator, suffix MO (brass body valves)
- Oxygen service with seals and disc in FPM, suffix N, example: SCE370A016NV
- Mounting holes on stainless steel version: 2 ØM4, 7 mm depth, available on request, please contact us
- 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
- Brass body solenoid valves have 2 mounting holes in body
- Pipe connections (G\*) have standard combination thread according to ISO 228/1 and ISO 7/1
- Installation/maintenance instructions are included with each valve

## SPARE PARTS KIT

| catalogue number   | spare parts kit no. |         |                          |
|--------------------|---------------------|---------|--------------------------|
|                    | ~                   | =       | maintained man. operator |
| SCE370A016/017/018 | C140044             | C140044 | C140048                  |
| SCE370A046/047/048 | C140044             | C140044 | C140072                  |
| SCE370A061/062/063 | -                   | C140043 | C140048                  |
| SCE370A026/027/028 | C140047             | C140047 | C140048                  |
| SCE370A056/057/058 | C140047             | C140047 | C140072                  |
| SCE370A064/065/066 | -                   | C140046 | C140048                  |
| SCE370A021/022/023 | C140045             | C140045 | C140048                  |
| SCE370A051/052/053 | C140045             | C140045 | C140072                  |

(1) Standard suffixes E and V are also applicable to kits.  
- Not available

## ORDERING EXAMPLES:

|    |   |     |   |     |    |              |
|----|---|-----|---|-----|----|--------------|
| SC | E | 370 | A | 016 | MS | 230V / 50 Hz |
| SC | E | 370 | A | 046 | V  | 115V / 50 Hz |
| SC | E | 370 | A | 061 |    | 24V / DC     |

prefix      pipe thread      basic number      voltage      suffix

## ORDERING EXAMPLES KITS:

|                        |   |
|------------------------|---|
| C140044 <sup>(1)</sup> |   |
| C140043                | V |
| C140045                | E |

basic number      suffix

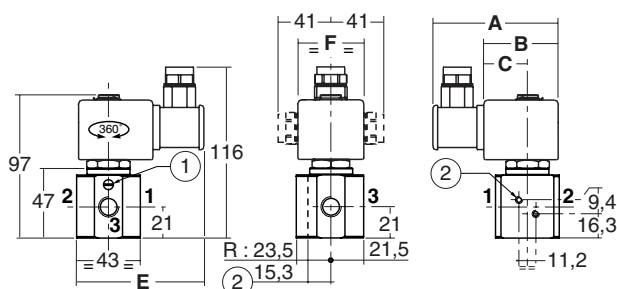
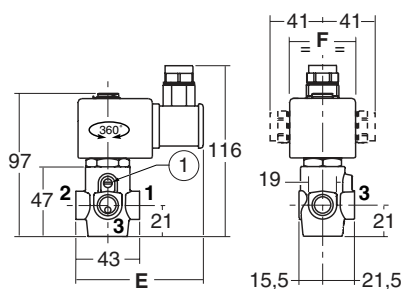
## DIMENSIONS (mm), WEIGHT (kg)



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

Type 01: SCE370A016/017/018/026/027/028/021/022/023

Type 01: SCE370A046/047/048/056/057/058/051/052/053



| type | prefix option | catalogue number                           | A  | B  | C  | E  | F  | weight <sup>(2)</sup> |
|------|---------------|--------------------------------------------|----|----|----|----|----|-----------------------|
| 01   | SC            | SCE370A016/017/018/026/027/028/021/022/023 | 85 | 50 | 30 | 86 | 45 | 0,600 <sup>(3)</sup>  |
|      |               | SCE370A046/047/048/056/057/058/051/052/053 | 85 | 50 | 30 | 86 | 45 | 0,820                 |

<sup>(2)</sup> including coil and connector. <sup>(3)</sup> +0,030 kg with push-turn manual operator.

- Manual operator location.
- Mounting 2 Ø M4, 7 mm depth (Option with stainless steel body valves).
- Impulse or maintained manual operator (suffix MO).



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