

FEATURES

- Pad-mount version for valve piloting applications
- Incorporation in borers for machine tool manufacturers
- Suitable for dosing/filling applications and industrial washing machines
- Compact solenoid valve for easy installation
- Epoxy moulded coil for general service applications
- Two maximum pressure ratings depending on coil power
- Three manual operator versions
- Flexible installation on joinable subbases
- The solenoid valves satisfy all relevant EC directives

GENERAL

Differential pressure See «SPECIFICATIONS» [1 bar = 100 kPa]
Maximum viscosity 40 cSt (mm²/s)
Response time 8 - 20 ms

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

MATERIALS IN CONTACT WITH FLUID

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

Body Brass
Internal parts, spring Stainless steel
Seat Brass
Seals NBR
Core guide POM
Shading coil Copper

ELECTRICAL CHARACTERISTICS

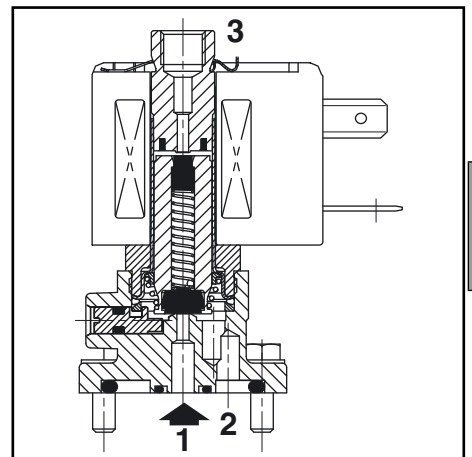
Coil insulation class F
Connector Spade plug (cable Ø 6-10 mm)
Connector specification ISO 4400 / EN 175301-803, form A
Electrical safety IEC 335
Electrical enclosure protection Moulded IP65 (EN 60529)
Standard voltages DC (=) : 24V - 48V
 (Other voltages and 60 Hz on request) AC (~) : 24V - 48V - 115V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

| prefix option | power ratings | | | | operator ambient temperature range (TS) (C°) | replacement coil | | type ⁽¹⁾ |
|---------------|---------------|-----------|------------|----------|--|------------------|------------|---------------------|
| | inrush ~ | holding ~ | hot/cold = | | | ~ | = | |
| | (VA) | (VA) | (W) | (W) | | 230 V/50 Hz | 24 V DC | |
| SC | 23 | 14 | 8 | 8 / 10,8 | -25 to + 60 | 43005096 | 43005099 | 01 |
| | 55 | 23 | 10,5 | 9/11,2 | -40 to + 60 | 400425-117 | 400425-142 | 02 |

⁽¹⁾ 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 | | | | |
|-----------------------------|--------------|---------------------|---------|---------------------|---------|---------------------------------------|---------------------|----|------|----------------|------------|------------------|------------|---------|----|---|--------------------------|-----------------------|
| | | 1 → 2 | | 2 → 3 | | min. | max. (PS) | | ~ | | | | | = | ~ | = | maintained man. operator | impulse man. operator |
| | | (m ³ /h) | (l/min) | (m ³ /h) | (l/min) | | air, water, oil (*) | | | ~ | = | | | | | | | |
| (G*) | (mm) | (m ³ /h) | (l/min) | (m ³ /h) | (l/min) | | | | | | | | | | | | | |
| NC - Normally closed | | | | | | | | | | | | | | | | | | |
| pad mounting | 2 | 0,11 | 1,8 | 0,15 | 2,5 | 0 | 16 | - | 8 | - | SCS374A001 | - | MS | MO | V | E | | |
| | 2 | 0,11 | 1,8 | 0,15 | 2,5 | 0 | - | 8 | - | 10,8 | - | SCS374A061 | SCS374A061 | MS | MO | V | E | |
| | 2 | 0,22 | 1,8 | 0,15 | 2,5 | 0 | 16 | 16 | 10,5 | 11,2 | SCS374A016 | SCS374A016 | MS | MO | V | E | | |
| | 2,7 | 0,22 | 3,6 | 0,15 | 2,5 | 0 | 10 | - | 8 | - | SCS374A002 | - | MS | MO | V | E | | |
| | 2,7 | 0,22 | 3,6 | 0,15 | 2,5 | 0 | - | 5 | - | 10,8 | - | SCS374A062 | SCS374A062 | MS | MO | V | E | |
| | 2,7 | 0,22 | 3,6 | 0,15 | 2,5 | 0 | 10 | 10 | 10,5 | 11,2 | SCS374A017 | SCS374A017 | MS | MO | V | E | | |



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)
- Explosionproof enclosures for use in zones 1/21-2/22, categories 2-3 to ATEX Directive 94/9/EC (see "Explosionproof solenoids" section)
- Class H coil (10,5W/11,2W coils), prefix HT
- Button type manual operator, use TPL 20655, example: SCXS374A017 TPL 20655 (All versions available)
- Oxygen service with seals and disc in FPM, suffix N, example:SCS374A016NV
- Brass subbases: Single (1/4), catalogue number **36101001** / Joinable (1/4), catalogue number **36101027**
- Aluminium subbases: Single (1/2), catalogue number **36101029**
Supply rail (1/2), 2 to 6 (**36101030** to **36101034**), 8 (**36101035**), 10 (**36101036**)
- 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
- Mounting on single or joinable subbase or on supply rail, four mounting holes
- ATEX 94/9/EC versions can be installed on single or joinable brass subbases
- Pipe connection G 1/8 has standard thread according to ISO 228/1
1/4 and 1/2 subbases 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 manual operator |
| SCS374A001 / 002 | C140160 | - | C140048 |
| SCS374A061 / 062 | - | C140161 | C140048 |
| SCS374A016 / 017 | C140160 | C140160 | C140048 |

(1) Standard suffixes E and V are also applicable to kits.

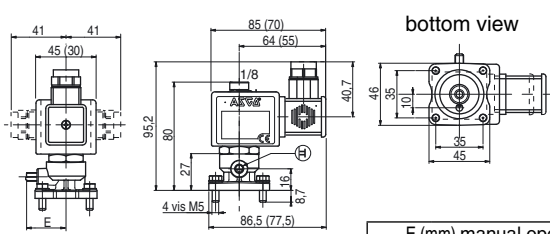
ORDERING EXAMPLES:

| | | | | | |
|----|---|-----|---|-----|-----------------|
| SC | S | 374 | A | 001 | 230V / 50 Hz |
| SC | S | 374 | A | 061 | MS 24V / DC |
| SC | S | 374 | A | 016 | MO 24V / DC |
| SC | S | 374 | A | 016 | MO 230V / 50 Hz |

prefix _____
pipe thread _____
basic number _____
voltage _____
suffix _____

DIMENSIONS (mm), WEIGHT (kg)

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



| E (mm) manual operator | | |
|------------------------|---------|--------|
| screw | impulse | button |
| 21,5 | 34 | 30 |

ORDERING EXAMPLES KITS:

| | |
|---------|----------|
| C140160 | |
| C140160 | V |
| C140160 | E |

basic number _____
suffix _____

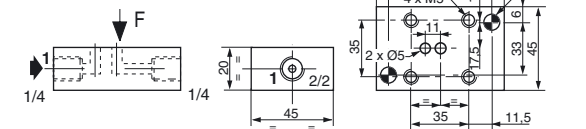
| type | prefix option | weight |
|------|----------------|-----------|
| 01 | SC | 0,335 (2) |
| 02 | SC | 0,527 (2) |
| 03 | single subbase | 0,453 |
| 04 | single subbase | 0,228 |

(2) Incl. coil(s) and connector(s)

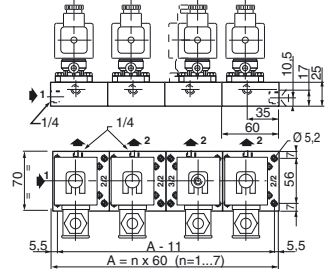
| type | weight number of valves | | | | | | | | |
|------|-------------------------|-------|-------|-------|-------|-------|-------|---|-------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 05 | 1,487 | 2,251 | 3,015 | 3,779 | 4,543 | 5,307 | - | - | - |
| 06 | 0,379 | 0,530 | 0,681 | 0,832 | 0,983 | - | 1,285 | - | 1,587 |

TYPE 03
Single brass subbase

36101001

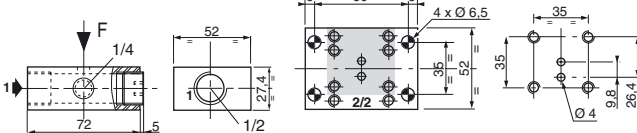


TYPE 05
Joinable brass subbases
36101027 (unit)
2/2 way can be combined with 3/2 way



TYPE 04
Single aluminium subbase

36101029



TYPE 06
Aluminium supply rails
36101030..1036
2/2 way can be combined with 3/2 way

