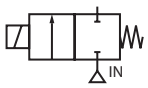
# SOLENOID VALVES

direct operated
for liquid $CO_2$ applications
1/8

NC 


**2/2**
Series
**264**



## FEATURES

- *The valves are designed for the control of liquid $CO_2$ in applications such as low temperature tumbling barrels, environmental test chambers and other cooling applications where constant low temperature control is essential*
- *Valves do not require a minimum operating pressure and have a high operating pressure as indicated*
- *Valve operation is not affected by mounting position*
- *The solenoid valves satisfy all relevant EC Directives*

## GENERAL

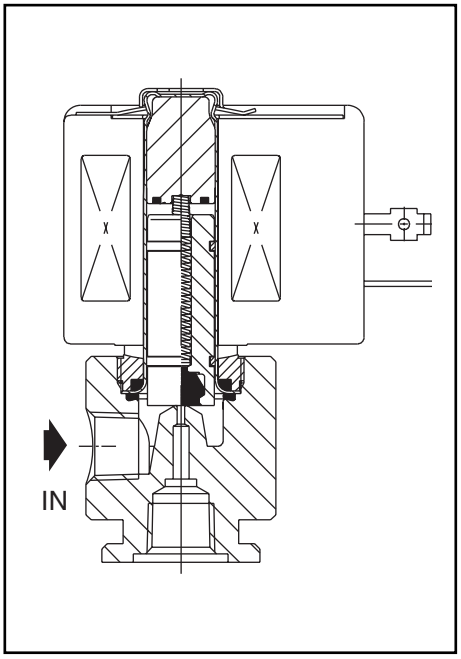
| | |
|---|---|
| **Differential pressure** | 0 - 70 bar [1 bar =100 kPa] |
| **Maximum viscosity** | 65 cSt ($mm^2/s$) |
| **Response times** | 5 - 25 ms |

| fluids (✳) | temperature range (TS) | seal materials (✳) |
|---|---|---|
| $CO_2$, liquid / gas | - 60°C to + 60°C | UR (cast urethane) |

## MATERIALS IN CONTACT WITH FLUID

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

| | |
|---|---|
| **Body** | Brass (nickel plated) |
| **Core tube** | Stainless steel |
| **Core and plugnut** | Stainless steel |
| **Spring** | Stainless steel |
| **Seat** | Brass |
| **Seals** | UR |
| **Disc** | UR |
| **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) | replacement coil | | type (1) |
|---|---|---|---|---|---|---|---|---|
| | inrush ~ | holding ~ | | hot/cold = | | ~ | = | |
| | (VA) | (VA) | (W) | (W) | (C°) | 230 V/50 Hz | 24 V DC | |
| SC | 37,6 | 28 | 13,8 | 9,5/15,3 | -20 to + 50 | 400325-217 | 400325-242 | 01 |

(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 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | min. | max. (PS) | | | | |
| | | | | | liquid/gas $CO_2$ (✳) | | | | |
| NPT | (mm) | ($m^3/h$) | (l/min) | | ~ | = | ~ | = | ~/= |
| **NC - Normally closed** | | | | | | | | | |
| 1/8 | 1,2 | 0,05 | 0,83 | 0 | 70 | 70 | 13,8 | 15,3 | **SCB264D009** |
| | 2,4 | 0,17 | 2,83 | 0 | 20 | 20 | 13,8 | 15,3 | **SCB264D010** |

H

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## OPTIONS

- Waterproof enclosure with embedded screw terminal coil according to protection class IP67, CEE-10
- Compliance with "UL", "CSA" and other local approvals available on request
- Other pipe connections are available on request
- Plug with visual indication and peak voltage suppression or with cable length of 2m (see Solenoids, Coils & Accessories section)

## INSTALLATION

- Install tubing with an inside diameter not larger than the valve orifice in the outlet port to locate the refrigeration point down stream of the valve and to prevent freezing of the expanding $CO_2$ inside the valve body
- The solenoid valves can be mounted in any position without affecting operation
- Valves are provided with a mounting flange and threaded connection in the outlet of the body
- Pipe connection identifier is B = NPT (ANSI 1.20.3)
- Installation/maintenance instructions are included with each valve

## SPARE PARTS KIT

| catalogue number | spare parts kit no. | |
|---|---|---|
| | ~ | = |
| SCB264D009/D010 | **C302850** | **C302854** |

## ORDERING EXAMPLES:

**SC** B 264 **D** 009 230V / 50 Hz
**SC** B 264 **D** 010 24V / DC

prefix
pipe thread
basic number
voltage
suffix

## ORDERING EXAMPLES KITS:

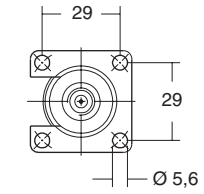
C302850

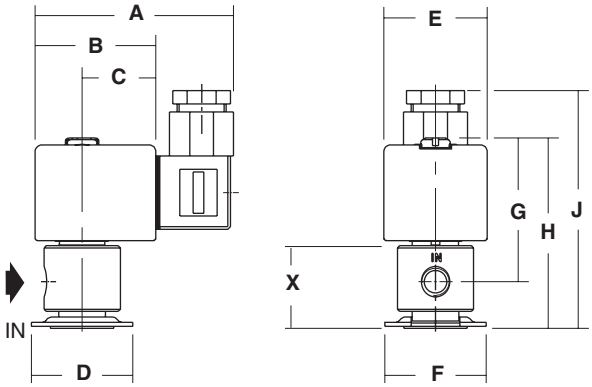
basic number

## DIMENSIONS (mm), WEIGHT (kg)



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




| type | prefix option | A | B | C | D | E | F | G | H | J | X | weight (1) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | SC | 75 | 45 | 27 | 38 | 39 | 38 | 55 | 71 | 88 | 31 | 0,4 |

(1) including coil and connector.



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