FEATURES

- Reliable control in low pressure, high flow systems
- Valves do not require a minimum operating pressure
- The solenoid valves are constructed packless with a one-piece deepdrawn stainless steel core tube, ensuring safe operation of electrical and wetted moving parts
- The valves have forged brass bodies, compact design, to minimize heat radiation loss
- Hung diaphragm construction
- The solenoid valves satisfy all relevant EU Directives

GENERAL

Differential pressure

Response time: 15 - 60 ms

<table>
<thead>
<tr>
<th>Fluids (+)</th>
<th>Temperature range (TS)</th>
<th>Seal materials (+)</th>
</tr>
</thead>
<tbody>
<tr>
<td>hot water, steam</td>
<td>-20°C to +130/150°C</td>
<td>EPDM (ethylene-propylene)</td>
</tr>
</tbody>
</table>

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

prefix option | power ratings | operator ambient temperature range (TS) | replacement coil | type (1)
-------------|---------------|----------------------------------------|------------------|-----
SC           | (VA) (VA) (W) (W) | (°C) | 230 V/50 Hz | 24 V DC |
55           | 23            | 10.5 | -20 to + 40 | 400425-117 | 01 |
110          | 33.6          | 15.4 | 12/16.8     | 400525-117 | 02 |

(1): Refer to the dimensional drawings on the following page.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Pipe size</th>
<th>Orifice size</th>
<th>Flow coefficient Kv</th>
<th>Operating pressure differential (bar)</th>
<th>Max. Fluid temp. (°C)</th>
<th>Power Coil (W)</th>
<th>Catalogue number</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8</td>
<td>16</td>
<td>2.6</td>
<td>3.5</td>
<td>150</td>
<td>150</td>
<td>10,5</td>
</tr>
<tr>
<td>1/2</td>
<td>16</td>
<td>3.5</td>
<td>58,3</td>
<td>150</td>
<td>150</td>
<td>10,5</td>
</tr>
<tr>
<td>3/4</td>
<td>19</td>
<td>4.3</td>
<td>71,1</td>
<td>150</td>
<td>150</td>
<td>10,5</td>
</tr>
<tr>
<td>1 1/4</td>
<td>28</td>
<td>12.8</td>
<td>213,3</td>
<td>130</td>
<td>130</td>
<td>15,4</td>
</tr>
<tr>
<td>1 1/2</td>
<td>32</td>
<td>19.3</td>
<td>321,6</td>
<td>130</td>
<td>130</td>
<td>15,4</td>
</tr>
</tbody>
</table>

(1): Water temperature should not exceed 100°C.
OPTIONS

- Waterproof enclosure with embedded screw terminal coil according to protection class IP67, CEE-10
- Electrical enclosures according to “NEMA” standards are available
- Compliance with “UL”, “CSA” and other local approvals available on request
- Mounting brackets (3/8, 1/2 and 3/4 only), suffix MB
- Other pipe connections are available on request
- Connector with visual indication and peak voltage suppression or with cable length of 2 m (www.asco.com)

INSTALLATION

- The solenoid valves can be mounted in any position without affecting operation
- 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 no.
--- | --- | ---
SCE222B093/094 | C304031 | 038713-000
SCE222B095 | C132654 | 038713-000
SCE222B154/155 | C133839 | -
SCE222B156 | C133840 | -

- Not available.

ORDERING EXAMPLES:

<table>
<thead>
<tr>
<th>type</th>
<th>prefix</th>
<th>pipe thread</th>
<th>voltage</th>
<th>basic number</th>
<th>suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC</td>
<td>E</td>
<td>222 093</td>
<td>230V / 50 Hz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SC</td>
<td>E</td>
<td>222 093</td>
<td>115V / 50 Hz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SC</td>
<td>E</td>
<td>222 094</td>
<td>24V / DC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SC</td>
<td>E</td>
<td>222 155</td>
<td>230V / 50 Hz</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ORDERING EXAMPLES KITS:

| basic number | | | |
|---|---|---|
| C304031 | | |
| C132654 | | |

DIMENSIONS (mm), WEIGHT (kg)

- Prefix “SC” Solenoid
- Epoxy moulded
- IEC 335 / ISO 4400
- IP65

TYPE 01-02

Type 01 (AC): SCE222B093/094/095
Type 02 (DC): SCE222B093/094/095
(AC): SCE222B154/155/156

<table>
<thead>
<tr>
<th>type prefix option</th>
<th>catalogue number</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>E</th>
<th>F</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>weight (1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>SC</td>
<td>SCE222B093/094</td>
<td>80</td>
<td>50</td>
<td>30</td>
<td>70</td>
<td>45</td>
<td>58</td>
<td>84</td>
<td>96</td>
<td>113</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SCE222B095</td>
<td>80</td>
<td>50</td>
<td>30</td>
<td>71</td>
<td>45</td>
<td>58</td>
<td>87</td>
<td>104</td>
<td>121</td>
</tr>
<tr>
<td>02</td>
<td>SC</td>
<td>SCE222B093/094</td>
<td>86</td>
<td>56</td>
<td>33</td>
<td>70</td>
<td>50</td>
<td>58</td>
<td>91</td>
<td>103</td>
<td>105</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SCE222B095</td>
<td>86</td>
<td>56</td>
<td>33</td>
<td>71</td>
<td>50</td>
<td>58</td>
<td>94</td>
<td>111</td>
<td>113</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SCE222B154</td>
<td>86</td>
<td>56</td>
<td>33</td>
<td>95</td>
<td>50</td>
<td>83</td>
<td>110,5</td>
<td>131</td>
<td>132</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SCE222B155</td>
<td>86</td>
<td>56</td>
<td>33</td>
<td>95</td>
<td>50</td>
<td>83</td>
<td>117</td>
<td>141,5</td>
<td>142,5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SCE222B156</td>
<td>86</td>
<td>56</td>
<td>33</td>
<td>111</td>
<td>50</td>
<td>99</td>
<td>122,5</td>
<td>151</td>
<td>152</td>
</tr>
</tbody>
</table>

(1) including coil and connector.

All leaflets are available on: www.asco.com