Solenoid Pump CSM Series  Model: CSM-01048

PRODUCT INFORMATION

Pump Design ..................... Solenoid (Platonic) Pump
Insulation ....................... Class “F” for TUV, Class “H” for UL
Net Weight ....................... 0.13 Kg
Outlet Connector ............... Barb port / Thread
Recognition ..................... TUV, UL

PERFORMANCE SPECIFICATIONS

COIL MOTOR
- CSM-E01048 ............... 220~240 VAC, 50Hz, 20W
- CSM-U01048 ............... 120 VAC, 60Hz, 20W
- CSM-J01048 ............... 100 VAC, 50/60Hz, 20W
Ideal fluid ...................... Water at 25°C
Ambient temperature ........ 60 °C
Flow rate at 0 bar .......... 50 cc/min
Obstructed pressure ........ 4.8 BAR (69.6 PSI)
Suitable to dry-use only during priming
Laboratory test condition..... ED:100%, Ta:60°C, Tf:35°C
ED100%: work continuously
Ta: Ambient temperature
Tf: Temperature of fluid water

* Table 1
XX – The Code of Flow Rate (FR) Table

<table>
<thead>
<tr>
<th>XX</th>
<th>FR (cc/min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>60</td>
</tr>
<tr>
<td>02</td>
<td>80</td>
</tr>
<tr>
<td>03</td>
<td>100</td>
</tr>
<tr>
<td>04</td>
<td>200</td>
</tr>
</tbody>
</table>

* Table 2
YYY – The Code of Pressure(bar) table

<table>
<thead>
<tr>
<th>YYY</th>
<th>Pressure (BAR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>0.5</td>
</tr>
<tr>
<td>30</td>
<td>1.0</td>
</tr>
<tr>
<td>35</td>
<td>1.5</td>
</tr>
<tr>
<td>40</td>
<td>2.0</td>
</tr>
<tr>
<td>45</td>
<td>2.5</td>
</tr>
<tr>
<td>50</td>
<td>3.0</td>
</tr>
<tr>
<td>55</td>
<td>3.5</td>
</tr>
<tr>
<td>60</td>
<td>4.0</td>
</tr>
</tbody>
</table>

Note: - All the performance are intended with a tolerance ±15%
- Water 20°C, Ambient 25°C

PRESSURE – FLOW RATE CURVE

Model: CSM-01048

<table>
<thead>
<tr>
<th>Pressure in Bar / PSI</th>
<th>Flowrate (cc/min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5</td>
<td>50</td>
</tr>
<tr>
<td>1.0</td>
<td>45</td>
</tr>
<tr>
<td>1.5</td>
<td>40</td>
</tr>
<tr>
<td>2.0</td>
<td>35</td>
</tr>
<tr>
<td>2.5</td>
<td>30</td>
</tr>
<tr>
<td>3.0</td>
<td>25</td>
</tr>
<tr>
<td>3.5</td>
<td>20</td>
</tr>
<tr>
<td>4.0</td>
<td>15</td>
</tr>
<tr>
<td>4.5</td>
<td>10</td>
</tr>
<tr>
<td>5.0</td>
<td>7</td>
</tr>
</tbody>
</table>

STANDARD MODEL NUMBERING SYSTEM

CS M – E XX YYY

Company Name
Pressure (table2)
Flow Rate (table1)
Standard

E – European Standard
U – US Standard
J – Japanese Standard

APPLICATIONS

- Espresso coffee machine
- Steam generator
- Steam iron
- Steam vacuum cleaner
- Disco smoke generator

Mechanical Drawing & Dimension

Model: CSM-01048

Dimensions: millimeters
Solenoid Pump CSM Series  Model: CSM-02048

PRODUCT INFORMATION
Pump Design ……………… Solenoid (Piston) Pump
Insulation ………………… Class “F” for TUV, Class “H” for UL
Net Weight ……………….. 0.13 Kg
Outlet Connector ………… Barb port / Thread
Recognition ………………. TUV , UL

PERFORMANCE SPECIFICATIONS

COIL MOTOR
- CSM-E02048 …………….. 220~240 VAC, 50Hz , 20W
- CSM-U02048 …………….. 120 VAC, 60Hz , 20W
- CSM-J02048…………….. 100 VAC, 50/60Hz , 20W

Ideal fluid ………………… Water at 25°C
Ambient temperature ……… 60 °C
Flow rate at 0 bar………… 80 cc/min
Obstructed pressure ……… 4.8 BAR (69.6 PSI)
Suitable to dry-use only during priming

Laboratory test condition….. ED100%, Ta:60°C,Tf:35°C
ED100%: work continuously
Ta: Ambient temperature
Tf: Temperature of fluid water

<table>
<thead>
<tr>
<th>XX</th>
<th>FR (cc/min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>60</td>
</tr>
<tr>
<td>02</td>
<td>80</td>
</tr>
<tr>
<td>03</td>
<td>150</td>
</tr>
<tr>
<td>04</td>
<td>200</td>
</tr>
</tbody>
</table>

* Table 1

XX – The Code of Flow Rate (FR) Table

<table>
<thead>
<tr>
<th>YYY</th>
<th>Pressure (BAR)</th>
<th>YYY</th>
<th>Pressure (BAR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>025</td>
<td>2.5</td>
<td>045</td>
<td>4.5</td>
</tr>
<tr>
<td>030</td>
<td>3.0</td>
<td>048</td>
<td>5.0</td>
</tr>
<tr>
<td>035</td>
<td>3.5</td>
<td>060</td>
<td>6.0</td>
</tr>
</tbody>
</table>

* Table 2

YYY – The Code of Pressure(bar) table

APPLICATIONS
- Espresso coffee machine
- Steam generator
- Steam Iron
- Steam vacuum cleaner
- Disco smoke generator

Mechanical Drawing & Dimension

Dimensions: millimeters

http://www.labpumptech.co.kr
T.02-457-6292  F.457-6293
**Solenoid Pump CSM Series**  Model: CSM-03040

### PRODUCT INFORMATION
- **Pump Design**: Solenoid (Piston) Pump
- **Insulation**: Class "F" for TUV, Class "H" for UL
- **Net Weight**: 0.13 Kg
- **Outlet Connector**: Barb port / Thread
- **Recognition**: TUV, UL

### PERFORMANCE SPECIFICATIONS
- **COIL MOTOR**
  - CSM-E03040: 220~240 VAC, 50Hz, 20W
  - CSM-U03040: 120 VAC, 60Hz, 20W
  - CSM-J03040: 100 VAC, 50/60Hz, 20W
- **Ideal fluid**: Water at 25°C
- **Ambient temperature**: 60°C
- **Flow rate at 0 bar**: 150 cc/min
- **Obstructed pressure**: 4.0 BAR (58 PSI)
- **Laboratory test condition**: ED:100%, Ta:60°C, Tf:35°C
  - ED: 100% work continuously
  - Ta: Ambient temperature
  - Tf: Temperature of fluid water

<table>
<thead>
<tr>
<th>XX</th>
<th>FR (cc/min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>60</td>
</tr>
<tr>
<td>02</td>
<td>80</td>
</tr>
<tr>
<td>03</td>
<td>150</td>
</tr>
<tr>
<td>04</td>
<td>200</td>
</tr>
</tbody>
</table>

### PRESSURE – FLOW RATE CURVE
- **Model**: CSM-03040
- **Flowrate (cc/min)**
- **Pressure in Bar / PSI**

<table>
<thead>
<tr>
<th>Pressure (BAR)</th>
<th>Flowrate (cc/min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>025</td>
<td>2.5</td>
</tr>
<tr>
<td>030</td>
<td>3.0</td>
</tr>
<tr>
<td>035</td>
<td>3.5</td>
</tr>
<tr>
<td>040</td>
<td>4.0</td>
</tr>
</tbody>
</table>

### STANDARD MODEL NUMBERING SYSTEM
- **Company Name**
- **Pressure** (*table2*)
- **Flow Rate** (*table1*)
- **Pump Size**
  - B – Big size pump
  - M – Median size pump
  - S – Small size pump
- **Standard**
  - E – European Standard
  - U – US Standard
  - J – Japanese Standard

### APPLICATIONS
- Espresso coffee machine
- Steam generator
- Steam Iron
- Steam vacuum cleaner
- Disco smoke generator

### Mechanical Drawing & Dimension
- **Model**: CSM-03040
- **Dimensions**: millimeters

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**中国星集团香港有限公司**
China Star Enterprise Hong Kong Ltd.
中山星达五金塑料制品有限公司

**동방하이테크상사**
http://www.labpumptech.co.kr
T.02-457-6292 F.457-6293
Solenoid Pump CSM Series  Model: CSM-04035

**PRODUCT INFORMATION**

- **Pump Design** ……………… Solenoid (Piston) Pump
- **Insulation** ………………… Class “F” for TUV, Class “H” for UL
- **Net Weight** ………………. 0.13 Kg
- **Outlet Connector** …………. Barb port / Thread
- **Recognition** ………………. TUV, UL

**PERFORMANCE SPECIFICATIONS**

**COIL MOTOR**
- CSM-E04035 ……………. 220~240 VAC, 50Hz, 20W
- CSM-U04035 ……………. 120 VAC, 60Hz, 20W
- CSM-J04035 ……………. 100 VAC, 50/60Hz, 20W

- **Ideal fluid** ………………. Water at 25°C
- **Ambient temperature** ……… 60 °C
- **Flow rate at 0 bar** …………. 200 cc/min
- **Obstructed pressure** …….. 3.5 BAR (50.75 PSI)
- **Laboratory test condition**… ED:100%, Ta:60°C, Tf:35°C

**Ideal fluid** ………………. Water at 25°C

**APPLICATIONS**
- Espresso coffee machine
- Steam generator
- Steam Iron
- Steam vacuum cleaner
- Disco smoke generator

**PRESSURE – FLOW RATE CURVE**

Model: CSM-04035

<table>
<thead>
<tr>
<th>Pressure (BAR)</th>
<th>Flowrate (cc/min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>51</td>
<td>0</td>
</tr>
<tr>
<td>44</td>
<td>51</td>
</tr>
<tr>
<td>36</td>
<td>100</td>
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<td>29</td>
<td>150</td>
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<td>22</td>
<td>200</td>
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<tr>
<td>15</td>
<td>250</td>
</tr>
<tr>
<td>7</td>
<td>300</td>
</tr>
<tr>
<td>0</td>
<td>350</td>
</tr>
</tbody>
</table>

Note: All the performance are intended with a tolerance ±15%
- Water 20°C, Ambient 25°C

**STANDARD MODEL NUMBERING SYSTEM**

- **Company Name**

- **Pressure** (* table2 )

- **Flow Rate** (* table1 )

- **Standard**
  - E – European Standard
  - U – US Standard
  - J – Japanese Standard

**APPLICATIONS**

- Espresso coffee machine
- Steam generator
- Steam Iron
- Steam vacuum cleaner
- Disco smoke generator

**Mechanical Drawing & Dimension**

Model: CSM-04035

Dimensions: millimeters
Solenoid Pump CSM Series  Model: CSM-04060

PRODUCT INFORMATION
Pump Design .................... Solenoid (Piston) Pump
Insulation ...................... Class “F” for TUV, Class “H” for UL
Net Weight ..................... 0.13 Kg
Outlet Connector .............. Barb port / Thread
Recognition .................... TUV , UL

PERFORMANCE SPECIFICATIONS

COIL MOTOR
- CSM-E04060 ............. 220~240 VAC, 50Hz , 20W
- CSM-U04060 ............. 120 VAC, 60Hz , 20W
- CSM-J04060 ............. 100 VAC, 50/60Hz , 20W
- CSM-K04060 ............. 220 VAC, 60Hz , 20W

Ideal fluid .................. Water at 25°C
Ambient temperature ......... 60 °C
Obstructed pressure .......... 6 BAR (87 PSI)

Suitable to dry-use only during priming.

Working Condition & Cycle...Ta within 60°C, Tf within 35°C ,
At this condition can work continuously.
Ta: Ambient temperature
Tf: Temperature of fluid water

* Table 1

<table>
<thead>
<tr>
<th>XX</th>
<th>FR (cc/min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>60</td>
</tr>
<tr>
<td>02</td>
<td>80</td>
</tr>
<tr>
<td>03</td>
<td>150</td>
</tr>
<tr>
<td>04</td>
<td>200</td>
</tr>
</tbody>
</table>

* Table 2

<table>
<thead>
<tr>
<th>YYY</th>
<th>Pressure (BAR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>025</td>
<td>2.5</td>
</tr>
<tr>
<td>030</td>
<td>3.0</td>
</tr>
<tr>
<td>035</td>
<td>3.5</td>
</tr>
<tr>
<td>040</td>
<td>4.0</td>
</tr>
</tbody>
</table>

* Table 2

<table>
<thead>
<tr>
<th>YYY</th>
<th>Pressure (BAR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>045</td>
<td>4.5</td>
</tr>
<tr>
<td>048</td>
<td>4.8</td>
</tr>
<tr>
<td>060</td>
<td>6.0</td>
</tr>
</tbody>
</table>

Pressure – Flow Rate Curve

Flowrate (cc/min)

Note:
- All the performances are intended with a tolerance ±15%
- Water 20°C, Ambient 25°C

STANDARD MODEL NUMBERING SYSTEM

Company Name

- CS - European Standard
- M - US Standard
- E - Japanese Standard

Pump Size

- B - Big size pump
- M - Median size pump
- S - Small size pump

Pressure (YY)

Flow Rate (XX)

APPLICATIONS

- Espresso coffee machine
- Steam generator
- Steam Iron
- Steam vacuum cleaner
- Disco smoke generator

Mechanical Drawing & Dimension

Model: CSM-04060

Dimensions:

http://www.labpumptech.co.kr
T.02-457-6292  F.457-6293