2-Way Flow Regulator, Pressure Compensated, Modular
VSS3-062/M
Size 06 (D03) • Q\textsubscript{max} 40 l/min (11 GPM) • p\textsubscript{max} 320 bar (4600 PSI)

Technical Features

› 2-Way flow regulator, pressure compensated, with mounting interface acc. to ISO 4401, DIN 24340 (CETOP 03)
› Set flow rate independent of load pressure and temperature changes
› Adjusted flow rate depends on the orifice area and set differential pressure
› Hardened precision parts
› High flow capacity
› Quiet and modulated response to load changes
› Used in meter-in, meter-out, or bleed-off applications
› Wide range of flow rate options
› Adjustable by Allen key or hand screw
› In the standard version, the valve is zinc coated for 240 h protection acc. to ISO 9227 and the valve body is phosphated

Functional Description

This pressure compensated, hydraulic flow regulator in the form of a sandwich plate with fixed orifice and variable spring setting is designed to control flow rates independently of pressure and temperature, especially in systems where only small movements due to load changes are required. The flow rate stabilization is provided by a pressure compensator in the direction from P2 to P1. The valve will maintain the set flow regardless of pressure variations on the regulated or inlet port.
The regulated flow increases with clockwise rotation of the adjustment screw, the counter-clockwise rotation decreases the flow rate. Desired settings can be locked down.

ISO 4401-03-02-0-05

Port P, A, B, T max ∅ 7.5 mm (0.29 in)

Symbol

4xM5-6Hx13
31,75 (1.25)
30,2 (1.18)
5,1 (0.20)
15,5 (0.61)
25,9 (1.06)
21,5 (0.85)
G
P
A
B
12,7 (0.50)
5,1 (0.20)
31,75 (1.25)

Technical Data

<table>
<thead>
<tr>
<th>Valve size</th>
<th>Q\textsubscript{max} l/min (GPM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>06 (D03)</td>
<td>40 (11)</td>
</tr>
</tbody>
</table>

Max. operating pressure bar (PSI)

<table>
<thead>
<tr>
<th>Pressure p [bar (PSI)]</th>
</tr>
</thead>
<tbody>
<tr>
<td>06 (D03)</td>
</tr>
</tbody>
</table>

Nominal flow rates l/min (GPM)

<table>
<thead>
<tr>
<th>Flow rate</th>
<th>(GPM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.6</td>
<td>(0.4)</td>
</tr>
<tr>
<td>2.5</td>
<td>(1.1)</td>
</tr>
<tr>
<td>4</td>
<td>(2.6)</td>
</tr>
<tr>
<td>10</td>
<td>(4.2)</td>
</tr>
<tr>
<td>16</td>
<td>(5.3)</td>
</tr>
<tr>
<td>20</td>
<td>(6.3)</td>
</tr>
</tbody>
</table>

Fluid temperature range (NBR) °C (°F)

<table>
<thead>
<tr>
<th>Fluid temperature range (NBR) °C (°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>-30 ... +100 (-22 ... +212)</td>
</tr>
</tbody>
</table>

Fluid temperature range (FPM) °C (°F)

<table>
<thead>
<tr>
<th>Fluid temperature range (FPM) °C (°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>-20 ... +120 (-4 ... +248)</td>
</tr>
</tbody>
</table>

Mass - model MP06 kg (lbs)

<table>
<thead>
<tr>
<th>Mass - model MP06 kg (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.12 (2.46)</td>
</tr>
</tbody>
</table>

Datasheet

<table>
<thead>
<tr>
<th>Type</th>
<th>General information</th>
<th>Mounting interface</th>
<th>Spare parts</th>
</tr>
</thead>
<tbody>
<tr>
<td>GI_0060</td>
<td>Products and operating conditions</td>
<td>SMT_0019</td>
<td>SP_8010</td>
</tr>
</tbody>
</table>

Characteristics measured at v = 32 mm³/s (156 SUS)

Regulated flow related to input pressure

Flow direction P2 - P1 (regulated flow)

Flow rate 1.6

<table>
<thead>
<tr>
<th>Pressure p [bar (PSI)]</th>
</tr>
</thead>
<tbody>
<tr>
<td>06 (D03)</td>
</tr>
</tbody>
</table>

Flow rate 2.5

<table>
<thead>
<tr>
<th>Pressure p [bar (PSI)]</th>
</tr>
</thead>
<tbody>
<tr>
<td>06 (D03)</td>
</tr>
</tbody>
</table>

Flow rate 4
Characteristics measured at \( v = 32 \text{ mm/s} \) (156 SUS)

Regulated flow related to input pressure

Flow direction \( P2 - P1 \) (regulated flow)

Flow rate 6.3

Flow rate 10

Flow rate 16

Pressure drop related to flow rate

Flow direction \( P1 - P2 \) (throttling without compensation)

Dimensions in millimeters (inches)

Model S

Model RS

Ordering Code

VSS3-062 / MP06 -

2-Way flow regulator, pressure compensated M22x1.5

Model modular, valve function from \( P2 \) to \( P1 \)

Flow rate

- 1.4 - 2.7 l/min (0.4 - 0.7 GPM)
- 3 - 6 l/min (0.8 - 1.6 GPM)
- 4 - 10 l/min (1.1 - 2.6 GPM)
- 5 - 16 l/min (1.3 - 4.2 GPM)
- 8 - 25 l/min (2.1 - 6.6 GPM)
- 9 - 28 l/min (2.4 - 7.4 GPM)
- 12 - 40 l/min (3.2 - 10.6 GPM)

Surface treatment

- No des.
  - body phosphated, steel parts
  - zinc-coated (ZnCr-3), ISO 9227 (240 h)
  - zinc-coated (ZnCr-3), ISO 9227 (240 h)
  - zinc-coated (ZnNi), ISO 9227 (520 h)

Seals

- NBR
- FPM (Viton)

Adjustment option

- S
- RS

No designation

- V

www.argo-hytos.com

Subject to change · VSS3-062/M_5050_1en_02/2016