Flow control valve

Type MSA30

Size 30
Up to 210 bar
Up to 300 L/min

Contents

Function and configuration 02
Ordering code 02
Technical data 02
Unit dimensions 03

Symbol of flow control valve, type MSA
Function and configuration

Flow control valve type MSA is two-way flow control valve, consist of pressure compensator and throttle valve in series. When fluid flows into the valve, it is reduced of pressure first and then throttled. The flow in the flow control valve is able to maintains reliable working rate independent of any impact from the changing load because of pressure compensation function provided from pressure compensator. Flow-rate is adjusted by the handle regulator within a range of 120°. When appropriate flow is adjusted, the handle regulator can be locked via pinch knob while the value is shown on the scale. The pressure relief valve can be with or without stroke regulator.

Ordering code

| Flow control valve | MSA | 30 | E | P | * |
---|---|---|---|---|---|
Nominal size | = 30 |
160 L/min | =160 |
250 L/min | =250 |
300 L/min | =300 |

Flow (A → B)

Further details in clear text

No code = NBR seals
V = FKM seals

No code = Pressure compensator, without stroke regulator
B = Pressure compensator, with stroke regulator

Technical data

| Fluid | Mineral oil, Phosphate ester |
| Fluid temperature range °C | -20~+80 |
| Viscosity range mm²/s | 10~800 |
| Viscosity range mm²/s | Maximum permissible degree of fluid contamination: Class 9. NAS 1638 or 20/18/15, ISO4406 |
| Operating pressure bar | 210 |
| Max. Pressure differential (concerned with Q max) bar | 5~10 |
| Flow adjustment | Unconcerned with pressure |
| Weight kg | Approx.33 |
Unit dimensions:

- Outline dimension of flow control valve type MSA

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<th>Size</th>
<th>type</th>
<th>D1</th>
<th>D2</th>
<th>T1</th>
<th>Valve fixing screws</th>
<th>Torque (Nm)</th>
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<tr>
<td>30</td>
<td>G138/1</td>
<td>56</td>
<td>G1 1/4</td>
<td>21</td>
<td>4pcs M12×110</td>
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<td>61</td>
<td>G1 1/2</td>
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<td>GB/T70.1-10.9</td>
<td>75</td>
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Note: No any holes within the area of Ø190
Flow control valve | Type MSA30

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