Compact Clamp
KGSP100-40
Compact Clamp

Series KGSP100

Configuration

- **Modular clamping system**
- **Compact clamp, series KGSP100**
- **Piston diameter**
  - 40 mm
- **Body version**
  - 1 one side connection
  - 2 two side connection
- **Counter bearing**
  - 1 short
  - 2 long
- **Clamping lever arm**
  - 0 without clamping lever arm
  - 1 short clamping lever arm
  - 2 long clamping lever arm
- **Clamping lever arm jumper**
  - 0 without
  - 1 with
- **Sensor detection**
  - 0 without sensor
  - 1 with twin sensor type IDS28

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Compact Clamp

Series KGSP100

Configuration Overview

Indicated accessories are not configurable and has to be ordered separately.

Shim for clamping lever arm long
Contour block for clamping lever arm long
Clamping lever arm long
Clamping lever arm short
Jumper for clamping lever arm short
Clamping screw SPS01
Clamping screw SPS15

Ball mounting GB 127
Clamp Mounting SH48
Clamp mounting SH20
Clamp mounting SH20-V1
Twin sensor IDS28

One side connection, for clamping lever arm long
Two side connection, for clamping lever arm long
One side connection, for clamping lever arm short
Two side connection, for clamping lever arm short
Compact Clamp

Series KGSP100

Version: — Basic version short
— One side connection

Technical Data

Version: One side connection, encapsulated, with self-adjusting and self locking function

Material

Body: Aluminum / anodized
Counter bearing: Steel / tenifer treated
Sealings: NBR
Medium: Compressed air
Operating temperature: -20...+70°C
Operating pressure: 3-8 bar
Holding force: 2800 N (at 5 bar)
Holding moment: 150 Nm (at 5 bar)
Air consumption, each double stroke: 0,12 l (at 5 bar)
Opening- / closing time: 0,1 s
Ports (P): G 1/8

<table>
<thead>
<tr>
<th>Article-No.</th>
<th>Description</th>
<th>Piston Ø [mm]</th>
<th>Clamping force [N]</th>
<th>Mₜ [Nm]</th>
<th>Weight [kg]</th>
<th>α [°]</th>
</tr>
</thead>
<tbody>
<tr>
<td>107477</td>
<td>MKS-KGSP100-40-1-1-0-0-0</td>
<td>40</td>
<td>1400</td>
<td>75</td>
<td>1,03</td>
<td>60°</td>
</tr>
</tbody>
</table>

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Technical Data

Version: Two side connection, encapsulated, with self-adjusting and self locking function

Material

Body: Aluminum / anodized
Counter bearing: Steel / tenifer treated
Sealings: NBR
Medium: Compressed air
Operating temperature: -20...+70°C
Operating pressure: 3-8 bar
Holding force: 2800 N (at 5 bar)
Holding moment: 150 Nm (at 5 bar)
Air consumption, each double stroke: 0,12 l (at 5 bar)
Opening- / closing time: 0,1 s

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<tbody>
<tr>
<td>107478</td>
<td>MKS-KGSP100-40-2-1-0-0-0</td>
<td>40</td>
<td>1400</td>
<td>75</td>
<td>1,03</td>
<td>60°</td>
</tr>
</tbody>
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Compact Clamp

Series KGSP100

Version: — Basic version long
         — One side connection

Technical Data

Version: One side connection, encapsulated, with self-adjusting and self locking function

Material

Body: Aluminum / anodized
Counter bearing: Steel / tenifer treated
Sealings: NBR
Medium: Compressed air
Operating temperature: -20...+70°C
Operating pressure: 3-8 bar
Holding force: Depending on contour block size
Holding moment: 150 Nm (at 5 bar)
Air consumption, each double stroke: 0,12 l (at 5 bar)
Opening-/ closing time: 0,1 s
Ports (P): G 1/8

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<th>Weight [kg]</th>
<th>α [°]</th>
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<td>60°</td>
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</table>

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Series KGSP100

Version: — Basic version long  
— Two side connection

Technical Data

Version: Two side connection, encapsulated, with self-adjusting and self locking function

Material

Body: Aluminum / anodized
Counter bearing: Steel / tenifer treated
Sealings: NBR
Medium: Compressed air
Operating temperature: -20...+70°C
Operating pressure: 3-8 bar
Holding force: Depending on contour block size
Holding moment: 150 Nm (at 5 bar)
Air consumption, each double stroke: 0,12 l (at 5 bar)
Opening- / closing time: 0,1 s
Ports (P): G 1/8

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<td>60°</td>
</tr>
</tbody>
</table>

Compact Clamp
Series ZKGSP100
Clamping lever arm

Technical Data

Version: Short, for clamping screws

Material

Body: Steel / tenifer treated
Serrated washer VS5: Steel / zinc plated
Screw: DIN912 / ISO4762 - 12.9
Torque: 6 Nm

<table>
<thead>
<tr>
<th>Article-No.</th>
<th>Description</th>
<th>Weight (kg)</th>
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<tbody>
<tr>
<td>107449</td>
<td>MKS-ZKGSP100-01</td>
<td>0.38</td>
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Technical changes and errors are subject to change without notice!
Series ZKGSP100
Clamping lever arm

Technical Data

Version: Long, for contour blocks

Material

Body: Steel / tenifer treated
Serrated washer VS5: Steel / zinc plated
Screw: DIN912 / ISO4762 - 12.9
Torque: 6 Nm

<table>
<thead>
<tr>
<th>Article-No.</th>
<th>Description</th>
<th>Weight [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>107450</td>
<td>MKS-ZKGSP100-03</td>
<td>0.23</td>
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</tbody>
</table>

Technical changes and errors are subject to change without notice!
Mountings

Series SH
Clamp mounting

Technical Data

Version: For rod clamping

Material
Body: Aluminum
Self locking washers S8: DIN25201 Steel / zinc plated
Screw: DIN912 / ISO4762 - 12.9
Dowel pin: DIN7979 / ISO8735
Torque: 40 Nm

<table>
<thead>
<tr>
<th>Article-No.</th>
<th>Description</th>
<th>Version</th>
<th>Weight (kg)</th>
</tr>
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<tbody>
<tr>
<td>104835</td>
<td>MKS25-SH20-32x30</td>
<td>Standard</td>
<td>0.28</td>
</tr>
<tr>
<td>105226</td>
<td>MKS25-SH20-32x30-V1</td>
<td>Mirrored</td>
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</table>
**Technical Data**

**Version:** For tube clamping (x/y)

**Material**
- Body: Steel / gunmetal finish
- Self locking washers S8: DIN 25201 Steel / zink plated
- Screw: DIN912 / ISO4762 - 12.9
- Dowel pin: DIN7979 / ISO8735
- Torque: 40 Nm

<table>
<thead>
<tr>
<th>Article-No.</th>
<th>Description</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>107476</td>
<td>MKS30-SH48-32x30</td>
<td>0.77</td>
</tr>
</tbody>
</table>

Technical changes and errors are subject to change without notice!
Technical Data

Version: Square tapered

Material

Body: Steel

Lock washer VS8: Steel / zinc plated

Screw: DIN912 / ISO4762 - 8.8

Torque: 23 Nm

<table>
<thead>
<tr>
<th>Article-No.</th>
<th>Description</th>
<th>L1 [mm]</th>
<th>L2 [mm]</th>
<th>D1 [mm]</th>
<th>D2 [mm]</th>
<th>Material</th>
<th>Surface treatment</th>
<th>Weight [kg]</th>
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</thead>
<tbody>
<tr>
<td>107634</td>
<td>MKS-GB127-2-G</td>
<td>45.9</td>
<td>33.5</td>
<td>28.5</td>
<td>15</td>
<td>Steel</td>
<td>Nitrided / knurled</td>
<td>0.11</td>
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<tr>
<td>102718</td>
<td>MKS-GB127-1</td>
<td>51</td>
<td>37.5</td>
<td>32</td>
<td>18</td>
<td>Steel</td>
<td>Gun metal finish</td>
<td>0.16</td>
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<td>102474</td>
<td>MKS-GB127</td>
<td>58.5</td>
<td>43.5</td>
<td>36</td>
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<td>Steel</td>
<td>Gun metal finish</td>
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<tr>
<td>102999</td>
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<td>102998</td>
<td>MKS-GB127-AL</td>
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<td>43.5</td>
<td>36</td>
<td>18</td>
<td>Aluminum</td>
<td>-</td>
<td>0.08</td>
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</table>
Series ZKGSP100
Clamping lever arm jumper

Technical Data

Version: To be combined with 2 clamping screws

Material

Body: Steel / tenifer treated
Lock washer VS6: Steel / zinc plated
Screw: DIN912 / ISO4762 - 12.9
Torque: 16 Nm

<table>
<thead>
<tr>
<th>Article-No.</th>
<th>Description</th>
<th>Weight (kg)</th>
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</thead>
<tbody>
<tr>
<td>107451</td>
<td>MKS-ZKGSP100-02</td>
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</table>
Series APSP
Shim (Distance plate)

Technical Data
Material: Steel / gunmetal finish

<table>
<thead>
<tr>
<th>Article-No.</th>
<th>Description</th>
<th>Weight [kg]</th>
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<tbody>
<tr>
<td>107453</td>
<td>MKS-APSP14-50</td>
<td>0.02</td>
</tr>
</tbody>
</table>

Technical changes and errors are subject to change without notice!
**Series AWSP**

**Contour block blank**

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**Technical Data**

**Material**
- **Body:** Steel / gunmetal finish
- **Self locking washers S8:** DIN25201 Steel / zinc plated
- **Screw:** DIN912 / ISO 4762 - 12.9
- **Pin:** DIN7979 / ISO8735
- **Torque:** 16 Nm

<table>
<thead>
<tr>
<th>Article-No.</th>
<th>Description</th>
<th>Weight [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>107454</td>
<td>MKS-AWSP13-30</td>
<td>0.09</td>
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</table>

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**Contour block blank**

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**Technical changes and errors are subject to change without notice!**
Series SPS
Clamping screw with cross surface

Technical Data

Material
Body: Steel / gunmetal finish
Hexagon nut: DIN982 / ISO7040 - M8 - 8
Torque: 23 Nm

<table>
<thead>
<tr>
<th>Article-No.</th>
<th>Description</th>
<th>L_1 [mm]</th>
<th>Weight [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>13129</td>
<td>MKS-SPS01-35</td>
<td>35</td>
<td>0.03</td>
</tr>
<tr>
<td>102749</td>
<td>MKS-SPS01-40</td>
<td>40</td>
<td>0.03</td>
</tr>
<tr>
<td>16467</td>
<td>MKS-SPS01-45</td>
<td>45</td>
<td>0.03</td>
</tr>
<tr>
<td>100870</td>
<td>MKS-SPS01-55</td>
<td>55</td>
<td>0.03</td>
</tr>
</tbody>
</table>

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Series SPS
Clamping screw with Toggle locator

Technical Data

Material
Body: Steel / tenifer treated
Toggle locator: Steel / hardened
Hexagon nut: DIN985 / ISO10511 - M8 - 8
Torque: 23 Nm

<table>
<thead>
<tr>
<th>Article-No.</th>
<th>Description</th>
<th>Weight [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>107452</td>
<td>MKS-SPS15-40</td>
<td>0.02</td>
</tr>
</tbody>
</table>

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**Technical Data**

**Version:** Magnetic field resistant for DC- and AC-fields

**Material**

- **Body:** PBT-GF20-V0
- **Operating voltage signal:** Green
- **Switching status signal:**
  - Yellow - clamping lever arm open
  - Red - clamping lever arm closed
- **Rated switching distance:** 2 mm
- **Installation condition:** Non flush mounted
- **Ambient temperature:** -25 ... +70 °C
- **Operating voltage UB:** 10-30 VDC
- **Output function:** 4 wire, PNP/NO
- **IP protection:** IP67
- **Weight:** 0.018 kg
- **Protection class:** II

<table>
<thead>
<tr>
<th>Article-No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>107399</td>
<td>MKS-IDS28-M12-S1</td>
</tr>
</tbody>
</table>

**Diagram:**

- Twin Sensor Series IDS
- Encoding - A

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