Type SO-T / -CF

Customized Swivel Joints

Center Flange Swivel Joints
High Temperature Swivel Joints

Design According to Customers Requirements
Know how & consulting directly from manufacturer with decades of experience

That’s why you choose...

- **Radial gaskets**
  Allow a maximum of feasible sealing materials and longer lifetime compared to axial gaskets

- **DUPLEX, SUPERDUPLEX, HASTELLOY, ALUMINIUM...**
  We machine all compatible materials

- **ASME, NACE, NORSOK, DIN...**
  We manufacture according to all required guidelines and directives

- **Customized connections**

- **IGATEC Swivel Joints**
  Made of carbon steel (e.g. St52-3, ...) are nitrided to reach maximized hardness of surface and optimized corrosion protection at the same time

- **Certifications**
  TA-Luft
  VdS
  ISO 9001:2008

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Swivel Joint Type SO-T
Customized Swivel Joint with Leakage Control

Dimensions:
- Nominal diameter: DN15 / 1/2" [larger on request]
- Working pressure $P_{\text{max}}$: 10 bar / 145 psi *
- Working temp. $T_{\text{min/max}}$: Up to 250°C / 482°F *
- Material: 1.4571 [other materials on request. E.g. Aluminium, Hastelloy, etc.]
- Gasket material: According to customers spec.
- Ball material: Depends on ball bearing used
- Connection: Threaded (male/female, NPT, BSP, etc.), olive style, customized
- Style: 11
- Application: Universal

* $P_{\text{max}}$ and $T_{\text{min/max}}$ may not occur at the same time

Technical Features:
- Design: Customized
- No. of ball races: 2 Ball bearings
- Fluid: Compressed air,...
- Type of sealing: Radial
- External dust seal: Yes
- Secondary seal: Yes
- Body: Two-parts
- Connection for leakage control: Yes
- Without grease nipple: Yes
- Maximum speed: High, depending on gasket material

Further Advantages:
- Ball bearings and lip seals for higher speed

Special Design
Completeness to the standard range IGATEC is tailoring Swivel Joints according to customers’ requirements.

Technical solutions are drafted and realized in close cooperation with the customer.

3D-CAD-System Inventor enables IGATEC to design 3D-Prototypes of parts, to simulate movements and avoid collisions in front end of production.
## Swivel Joint Type SO-CF

**Customized Swivel Joint with Ball Bearings for High Speed Applications**

<table>
<thead>
<tr>
<th>Dimensions:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal diameter</td>
<td>DN25 / 1&quot; up to DN150 / 6&quot; [larger on request]</td>
</tr>
<tr>
<td>Working pressure $P_{\text{max}}$</td>
<td>10 bar / 145 psi *</td>
</tr>
<tr>
<td>Working temp. $T_{\text{min/max}}$</td>
<td>Up to 110°C / 230°F *</td>
</tr>
<tr>
<td>Material</td>
<td>1.4571 [other materials on request. E.g. Aluminium, Hastelloy, etc.]</td>
</tr>
<tr>
<td>Gasket material</td>
<td>According to customers spec.</td>
</tr>
<tr>
<td>Ball material</td>
<td>Depends on ball bearing used</td>
</tr>
<tr>
<td>Connection</td>
<td>Flange (ANSI / DIN / special), customized</td>
</tr>
<tr>
<td>Style</td>
<td>10, 11, 12, 20, 21, 22, 30, 31</td>
</tr>
<tr>
<td>Application</td>
<td>Automated food packaging</td>
</tr>
</tbody>
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* $P_{\text{max}}$ and $T_{\text{max}}$ may not occur at the same time

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<tr>
<td>Secondary seal</td>
<td>No</td>
</tr>
<tr>
<td>Body</td>
<td>Three-parts</td>
</tr>
<tr>
<td>Connection for leakage control</td>
<td>Yes</td>
</tr>
<tr>
<td>Without grease nipple</td>
<td>On request (e.g. floating suction system)</td>
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<tr>
<td>Maximum speed</td>
<td>High, depends on gasket material</td>
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<th>Further Advantages:</th>
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<td>Ball bearings for high speed revolution</td>
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