Type F

Standard Swivel Joints

with Welding Connection

with Threaded Connection

for Loading Arms

for Food and Pharmaceuticals
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
  VdT
  ISO 9001:2008

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Swivel Joint Type F
for Food and Pharmaceuticals (FDA conform)

**Dimensions:**

<table>
<thead>
<tr>
<th>Nominal diameter</th>
<th>DN25 / 1” up to DN200 / 8”</th>
</tr>
</thead>
<tbody>
<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>-55°C up to 250°C / -67°F up to 482°F *</td>
</tr>
<tr>
<td>Material</td>
<td>1.4571</td>
</tr>
<tr>
<td>Gasket material</td>
<td>FDA conform</td>
</tr>
<tr>
<td>Ball material</td>
<td>Stainless steel</td>
</tr>
<tr>
<td>Connection</td>
<td>Welding (welding flange)</td>
</tr>
<tr>
<td>Style</td>
<td>10, 11, 12, 20, 21, 22, 30, 31</td>
</tr>
<tr>
<td>Application</td>
<td>Loading arms for food and pharmaceuticals</td>
</tr>
</tbody>
</table>

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

**Technical Features:**

- **Design:** Standard
- **No. of ball races:** 2
- **Fluid:** Vegetable oil, Ketchup,…
- **Type of sealing:** Axial to minimize “dead space”
- **External dust seal:** Yes
- **Secondary seal:** Yes
- **Body:** Three-parts
- **Connection for leakage control:** Yes, usable as flushing connection
- **Without grease nipple:** On request (e.g. floating suction systems)
- **Maximum speed:** Depends on gasket material

**Further Advantages:**

- Allows maintenance / changing of gasket without entire dismounting of swivel joint

**Dimensions and Weights:**

<table>
<thead>
<tr>
<th>DN</th>
<th>25</th>
<th>32</th>
<th>40</th>
<th>50</th>
<th>65</th>
<th>80</th>
<th>100</th>
<th>125</th>
<th>150</th>
<th>200</th>
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</thead>
<tbody>
<tr>
<td>L  [mm]</td>
<td>105</td>
<td>105</td>
<td>105</td>
<td>120</td>
<td>120</td>
<td>125</td>
<td>130</td>
<td>140</td>
<td>140</td>
<td>155</td>
</tr>
<tr>
<td>$\varnothing$ / D [mm]</td>
<td>92</td>
<td>102</td>
<td>102</td>
<td>122</td>
<td>136</td>
<td>158</td>
<td>188</td>
<td>218</td>
<td>248</td>
<td>291</td>
</tr>
<tr>
<td>$\varnothing$ / d [mm]</td>
<td>28</td>
<td>35</td>
<td>40</td>
<td>52</td>
<td>70</td>
<td>85</td>
<td>104</td>
<td>129</td>
<td>154</td>
<td>204</td>
</tr>
<tr>
<td>S [mm]</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Weight [kg]</td>
<td>3.6</td>
<td>4.3</td>
<td>4.1</td>
<td>6.8</td>
<td>7.9</td>
<td>11.0</td>
<td>15.5</td>
<td>21.6</td>
<td>26.5</td>
<td>34.9</td>
</tr>
</tbody>
</table>

**Pos. Description**

1. Outer part
2. Inner part
3. Flange
10. Gasket
11. Dust seal
12. Plug
13. Plug
15. Ball
16. Grease nipple
18. Allen bolt
19. Plastic plug
### Ordering System:

<table>
<thead>
<tr>
<th>Type</th>
<th>Connections right / left</th>
<th>Style</th>
<th>Nominal diameter</th>
<th>Material</th>
<th>Working pressure</th>
<th>Miscellaneous</th>
</tr>
</thead>
<tbody>
<tr>
<td>W</td>
<td>__ = Welding</td>
<td>10</td>
<td>1&quot; up to 8&quot;</td>
<td>1.4571</td>
<td>up to 145 psi</td>
<td>DIN</td>
</tr>
<tr>
<td>LW</td>
<td></td>
<td>11</td>
<td></td>
<td></td>
<td></td>
<td>ANSI</td>
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<tr>
<td>T</td>
<td></td>
<td>12</td>
<td></td>
<td></td>
<td></td>
<td>SAE</td>
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<tr>
<td>LT</td>
<td></td>
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<td></td>
<td>...</td>
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<tr>
<td>V</td>
<td></td>
<td>20</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>LA</td>
<td></td>
<td>21</td>
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</tr>
<tr>
<td>LCF</td>
<td></td>
<td>22</td>
<td>(for applications with higher pressure we offer special)</td>
<td></td>
<td></td>
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<tr>
<td>HCR</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>F</td>
<td></td>
<td>30</td>
<td></td>
<td></td>
<td></td>
<td>swivel joints</td>
</tr>
<tr>
<td>LF</td>
<td></td>
<td>31</td>
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<tr>
<td>FP</td>
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<td>LFP</td>
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</tr>
<tr>
<td>F</td>
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</tr>
</tbody>
</table>

### Additional Information:

- Media / fluid (gasoline, sulfuric acid, milk, LPG…):
- Working temperature:
- Working space situation (dimensions, temperature of environment, etc…):
- Type of movement (swiveling / angle?, rotation / rpm?…):
- Side load:
- Miscellaneous requirements: