Type HCR

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
  VdS
  ISO 9001:2008

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Swivel Joint Type HCR
for Corrosive Chemicals

Dimensions:

- **Nominal diameter**: DN25 / 1" up to DN250 / 10"
  [larger on request]
- **Working pressure $P_{\text{max}}$**: 10 bar / 145 psi *
- **Working temp. $T_{\text{max}}$**: -55°C up to 250°C / -67°F up to 482°F *
- **Material**: 26CrMo4, 1.4571, Stainless steel, C-steel, Low temp. steel, Hastelloy
- **Gasket material**: PTFE
- **Ball material**: Stainless steel
- **Connection**: Flange (special)
- **Style**: 10, 11, 12, 20, 21, 22, 30, 31
- **Application**: Corrosive chemicals

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

Technical Features:

- **Design**: Standard
- **No. of ball races**: 2
- **Fluid**: Sulfuric acid, Chlorine (Liquified gas)
- **Type of sealing**: Radial
- **External dust seal**: Yes
- **Secondary seal**: Yes
- **Body**: Two-parts (+ 3 PTFE Bushings)
- **Connection for leakage control**: Plug
- **Without grease nipple**: On request
- **Maximum speed**: Depends on nominal diameter

IGATEC Swivel Joints Type HCR are designed specifically for the use with highly corrosive fluids. Safety and easy handling is guaranteed by:

- System of 3 PTFE bushes, which avoids fluid contacting the steel
- Doubled radial gaskets, which ensure additional safety
- Secondary seal, which protects the ball race
- Draining of leakages by a special design
- Easy Maintenance by changing the gaskets (executed by company internal employees*)

Therefore HCR-Swivel Joints represent the optimal solution for the use with highly corrosive chemicals

* under consideration of the operation procedures for and the risks of working with hazardous chemicals
### 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>F = Flange</td>
<td>10</td>
<td>1” up to 10”</td>
<td>26CrMo4</td>
<td>up to 145 psi</td>
<td>DIN</td>
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<tr>
<td>LW</td>
<td></td>
<td>11</td>
<td></td>
<td>1.4571</td>
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<td>ANSI</td>
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<td>T</td>
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<td>12</td>
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<td>Hastelloy</td>
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<td>SAE</td>
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<td>LT</td>
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<td>low temp. steel</td>
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<td>F</td>
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<td>30</td>
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<td>(other materials)</td>
<td>(for applications with higher pressure we offer special swivel joints)</td>
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</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: