



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... The logo for IGATEC International features the word 'IGATEC' in a large, bold, grey sans-serif font. Above the 'TEC' part, the word 'International' is written in a smaller, blue sans-serif font. A horizontal blue line runs through the middle of the 'IGATEC' text.

- **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 _{max}	10 bar / 145 psi *
Working temp. T _{min/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_{max} and T_{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

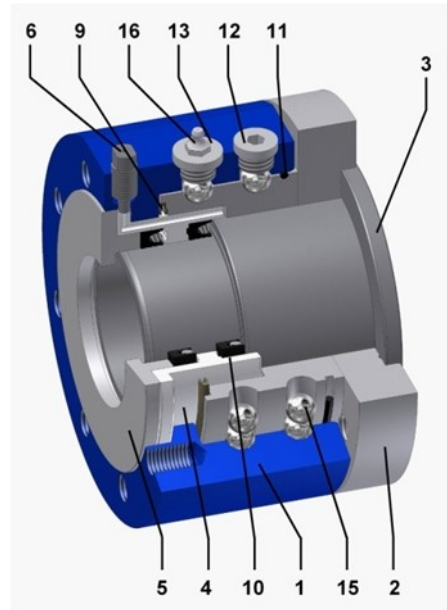
IGATEC Swivel Joints Type HCR are designed specifically for the use with highly corrosive fluids. Safety and easy handling is guaranteed by:

- 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

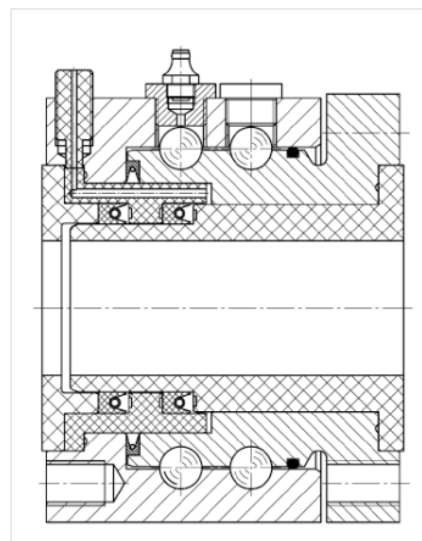


* under consideration of the operation procedures for and the risks of working with hazardous chemicals



Pos. Description

Pos.	Description
1	Outer part
2	Inner part
3	Bushing I
4	Bushing II
5	Bushing III
6	Leakage plug
9	Secondary seal
10	Gasket
11	Dust seal
12	Plug
13	Plug
15	Ball
16	Grease nipple



Ordering System:

Type	Connections right / left	Style	Nominal diameter	Material	Working pressure	Miscellaneous	
W	F = Flange	10	1" up to 10"	26CrMo4	up to 145 psi (for applications with higher pressure we offer special swivel joints)	DIN	
LW		11		1.4571		ANSI	
T		12		Hastelloy		SAE	
LT				low temp. steel		...	
V		20					
LA		21					
LCF		22					
HCR						(other materials on request)	
F		30					
LF		31					
FP							
LFP							
HCR							

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: