



# Type V<sub>(-SR)</sub>



## 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. It features the word 'IGA' in a large, bold, grey font on the left, and 'TEC' in a similar font on the right. Above 'IGA' is the word 'International' in a smaller, blue font. A horizontal blue line runs across the top of the 'IGA' and 'TEC' letters.

- **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 V

### Dimensions:

Nominal diameter	DN8 / 1/4" up to DN40 / 1 1/2"
Working pressure P <sub>max</sub>	420 bar / <b>6.000 psi</b> (42CrMo4) 160bar / <b>2.300 psi</b> (1.4571) *
Working temp. T <sub>min/max</sub>	-55°C up to 250°C / <b>-67°F up to 482°F</b> *
Material	42CrMo4, 1.4571
Gasket material	NBR, Viton, PTFE, HPU
Ball material	Stainless steel
Connection	Threaded (female/male, BSP, etc.), compression fitting
Style	10, 11
Application	Universal

\* P<sub>max</sub> and T<sub>max</sub> may not occur at the same time

### Technical Features:

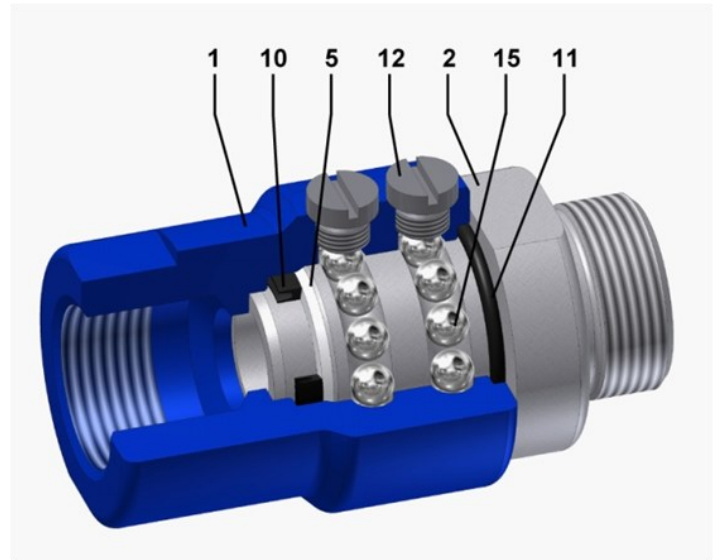
Design	Standard
No. of ball races	2
Fluid	Diesel, Ethanol, LPG...
Type of sealing	Radial
External dust seal	Yes
Secondary seal	No
Body	Two-parts
Connection for leakage control	On request
Without grease nipple	Yes
Maximum speed	Depends on gasket material

### Further Advantages:

	Perfect concentric run-out, easy handling
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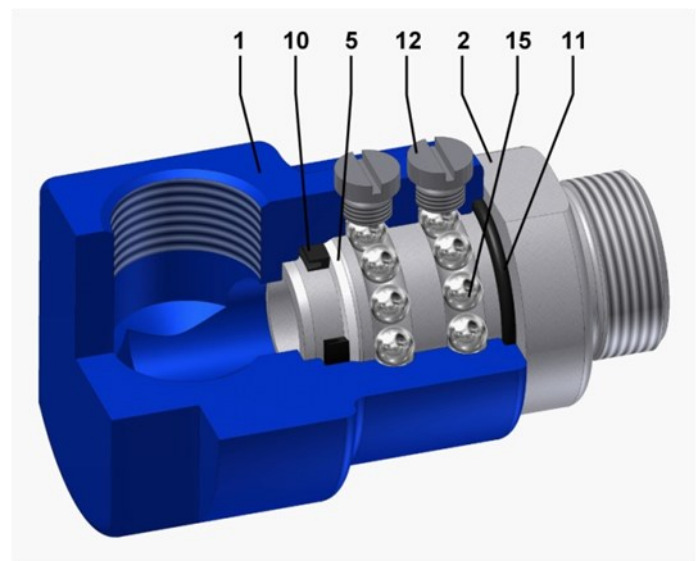
### Additional Function [on request]:

Execution: smooth-running(-SR)	<ul style="list-style-type: none"> <li>• Special gasket</li> <li>• Refined surfaces</li> <li>• Fluid dynamical pressure release</li> </ul>
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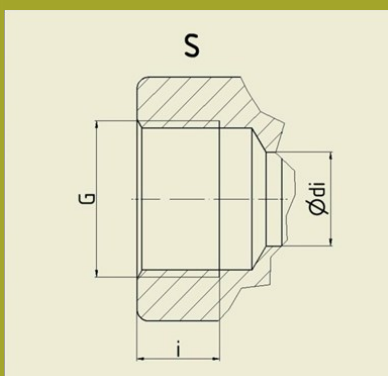
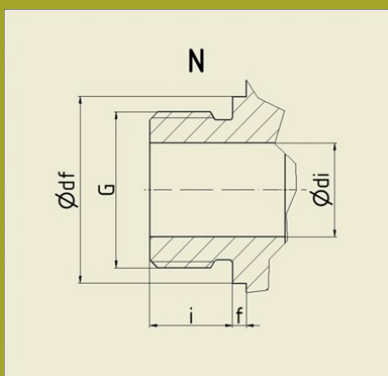
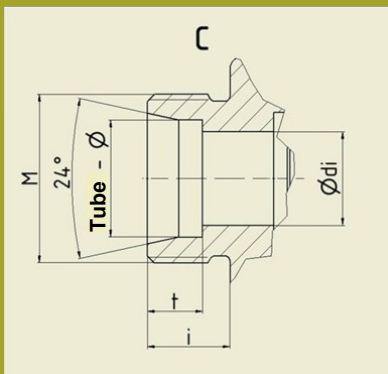
### Pos. Benennung

1	Outer part
2	Inner part
5	Back up ring
10	Gasket
11	Dust seal
12	Plug
15	Ball



# Type V

## Description of Type:



DN	8			12			15	
Type	C1	C2	N1/S1	C1	C2	N1/S1	C1	N1/S1
Thread	M16x1.5	M18x1.5	G1/4"	M20x1.5	M22x1.5	G3/8"	M24x1.5	G1/2"
Tube-Ø [mm]	8	10		12	14		16	
T [mm]	7.5	7.5		7.5	8		8.5	
Ødf [mm]			18.8			21.8		26.8
f [mm]			2			2.5		3
i [mm]	12	12	12	12	14	12	14	14
Ødi [mm]	7	7	7	9	9	9	12	12

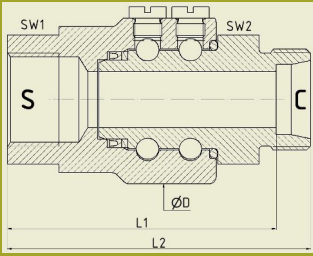
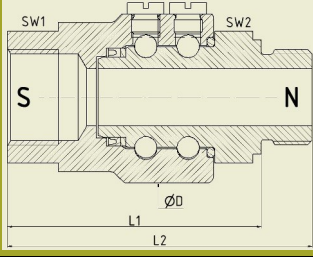
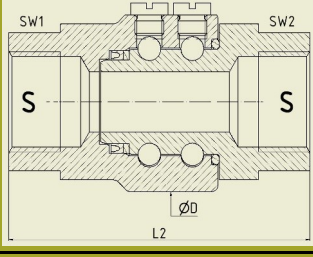
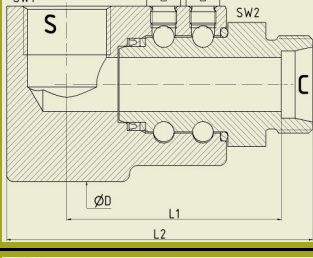
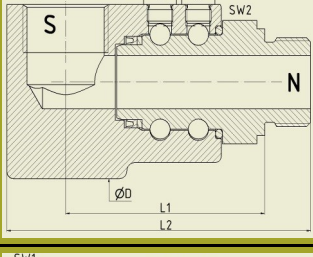
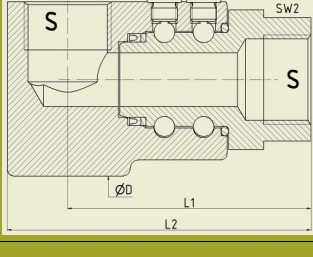
DN	20		25		32		40	
Type	C1	N1/S1	C1	N1/S1	C1	N1/S1	C1	N1/S1
Thread	M30x2	G3/4"	M36x2	G1"	M42x2	G1 1/4"	M52x2	G1 1/2"
Tube-Ø [mm]	20		25		30		38	
T [mm]	10.5		12		13.5		16	
Ødf [mm]		31.8		39.8		49.8		54.8
f [mm]		3		3		3		3
i [mm]	16	16	18	18	20	20	22	22
Ødi [mm]	16	16	20	20	25	25	32	32

# Type V

DN		8		12		15	20	25	32	40	
		C1 C2	M16x1.5	M18x1.5	M20x1.5	M22x1.5	M24x1.5	M30x2	M36x2	M42x2	M52x2
		N1/S1	G1/4"	G1/4"	G3/8"	G3/8"	G1/2"	G3/4"	G1"	G1 1/4"	G1 1/2"
Style 10	Type VCC		ØD [mm]	44	44	50	56	60	65	77	
			L1 [mm]	65	65   68	71	76	78	79	88	
			L2 [mm]	80	80   84	88	97	102	106	120	
			SW 1 / 2 [mm]	32	32	36	46	46	50	60	
	Type VCN		ØD [mm]	44	44	50	56	60	65	77	
			L1 [mm]	62.5	62.5   64	67.5	72.5	74	74.5	85	
			L2 [mm]	82	82   84	90	99	104	108	123	
		SW 1 / 2 [mm]	32	32	36	46	46	50	60		
Type VCS		ØD [mm]	44	44	50	56	60	65	77		
		L1 [mm]	69.5	69.5   71	77.5	84.5	89	92.5	104		
		L2 [mm]	77	77   79	86	95	101	106	120		
		SW 1 / 2 [mm]	32	32	36	46	46	50	60		
Type VNC		ØD [mm]	44	44	50	56	60	65	77		
		L1 [mm]	62.5	62.5   64	66.5	71.5	74	74.5	83		
		L2 [mm]	82	82   84	89	98	104	108	121		
		SW 1 / 2 [mm]	32	32	36	46	46	50	60		
Type VNN		ØD [mm]	44	44	50	56	60	65	77		
		L1 [mm]	60	60   -	63	68	70	70	80		
		L2 [mm]	84	84   -	91	100	110	110	124		
		SW 1 / 2 [mm]	32	32	36	46	50	50	60		
Type VNS		ØD [mm]	44	44	50	56	60	65	77		
		L1 [mm]	67	67   -	73	80	85	88	99		
		L2 [mm]	79	79   -	87	96	103	108	121		
		SW 1 / 2 [mm]	32	32	36	46	46	50	60		

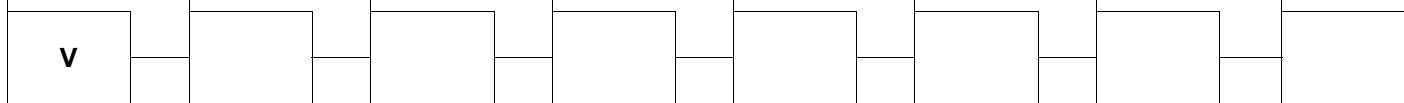


# Type V

DN		8		12		15	20	25	32	40	
		C1 C2	M16x1.5	M18x1.5	M20x1.5	M22x1.5	M24x1.5	M30x2	M36x2	M42x2	M52x2
		N1/S1	G1/4"	G1/4"	G3/8"	G3/8"	G1/2"	G3/4"	G1"	G1 1/4"	G1 1/2"
Style 10	Type VSC		ØD [mm]	44	44	50	56	60	65	77	
		L1 [mm]	75.5	75.5	77	81.5	89.5	94	97.5	107	
		L2 [mm]	83	83	85	90	100	106	111	123	
		SW 1 / 2 [mm]	32	32	36	46	46	50	60		
	Type VSN		ØD [mm]	44	44	50	56	60	65	77	
		L1 [mm]	73	73	-	78	86	90	93	104	
		L2 [mm]	85	85	-	92	102	108	113	126	
		SW 1 / 2 [mm]	32	32	36	46	46	50	60		
	Type VSS		ØD [mm]	44	44	50	56	60	65	77	
		L1 [mm]	-	-	-	-	-	-	-	-	
		L2 [mm]	80	80	-	88	98	105	111	123	
		SW 1 / 2 [mm]	32	32	36	46	46	50	60		
Style 11	Type VSC		ØD [mm]	44	44	50	60	72	82	94	
		L1 [mm]	64.5	64.5	66	73.5	79.5	82	87.5	98	
		L2 [mm]	86	86	88	98	109	117	129	145	
		SW 1 / 2 [mm]	32	32	36	46	46	55/50	60		
	Type VSN		ØD [mm]	44	44	50	60	72	82	94	
		L1 [mm]	62	62	-	70	76	78	83	95	
		L2 [mm]	88	88	-	100	111	119	131	148	
		SW 1 / 2 [mm]	32	32	36	46	46	55/50	60		
	Type VSS		ØD [mm]	44	44	50	60	72	82	94	
		L1 [mm]	69	69	-	80	88	93	101	114	
		L2 [mm]	83	83	-	96	107	116	129	145	
		SW 1 / 2 [mm]	32	32	36	46	46	55/50	60		

**Ordering System:**

Type	Connections right / left	Style	Nominal diameter	Material	Working pressure	Miscellaneous	Smooth Running Design
W	C = 24° olive	10	1/4" up to 1 1/2"	42CrMo4	up to 6.000 psi	DIN	SR1*
LW	type fitting	11		(6.000 psi)		ANSI	SR2**
T	S = Female			1.4571		SAE	
LT	thread (Bush)			(3.200 psi)		...	
<b>V</b>	N = Male thread				(for applications with higher pressure we offer special swivel joints)		
LA	(Nipple)						
LCF							
HCR							
F							
LF							
FP							
LFP							

\*SR1 = Special gasket with surface finishing  
 \*\*SR2 = Standard gasket with surface finishing

**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: