

Swivel Joint for heavy duty with encapsulated ball track

The **D1133** swivel joint is a variant of the basic D0002. It is the ideal swivel joint for nearly all applications in the chemical industry. It has a minimal structural length, minimal external diameter and minimal weight. The internal flange makes it possible to change the seal without removing the swivel joint from the pipeline.

In the **D1133** swivel joint the ball track is encapsulated by two O-rings. Neither dirt from the outside nor product from within (in case of leakage) can reach the ball track.

Should the main seal fail, leakage is indicated through the leak detection ports.

The **D1133** swivel joint can be relubricated via grease nipples if it is not provided with life time grease. If required, the balls can be removed and replaced by first removing the ball track plug.

The ball track of the **steel version** is hardened and polished. This gives the swivel joint a high degree of running precision and long service life, even under extreme loads. The sealing surfaces are plated with stainless steel and precision-finished to prevent corrosion. This ensures that the seal that slides along these sealing surfaces is not damaged and will seal perfectly.

The **D1133** swivel joint in **stainless steel** is used for applications where aggressive media are encountered internally and externally, and therefore the internal parts as well as the external parts are made of stainless steel. Depending on the expected load the ball track can be hardened or unhardened. In this case a special alloy is welded into the raw material before mechanical processing.



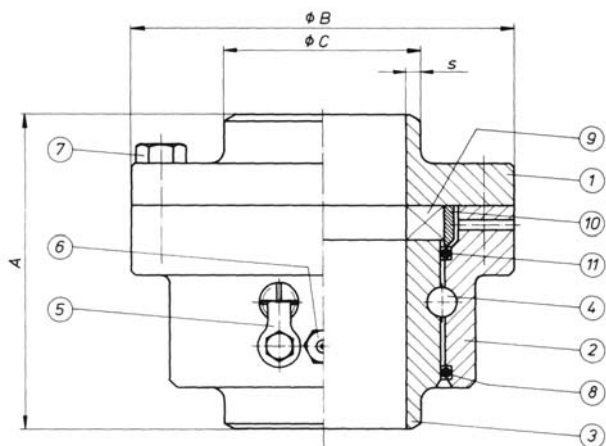
Size * DN	Material	Seal material	Allowable internal pressure (gauge pressure)		Allowable temperature range **
			operational	test	
50, 80, 100	product carrying parts in stainless steel	<ul style="list-style-type: none"> • Buna N • Viton • PTFE 	40 bar	60 bar	-10 °C to +200 °C
50, 80, 100	carbon steel	<ul style="list-style-type: none"> • Buna N • Viton • PTFE 	40 bar	60 bar	-10 °C to +200 °C
150, 200, 250, 300, 400	carbon steel	<ul style="list-style-type: none"> • Buna N • Viton • PTFE 	25 bar	37,5 bar	-10 °C to +200 °C
50, 80, 100	stainless steel / unhardened ball track	<ul style="list-style-type: none"> • Buna N • Viton • PTFE 	10 bar	15 bar	-10 °C to +200 °C
50, 80, 100	stainless steel / hardened ball track	<ul style="list-style-type: none"> • Buna N • Viton • PTFE 	40 bar	60 bar	-10 °C to +200 °C

* larger sizes are available

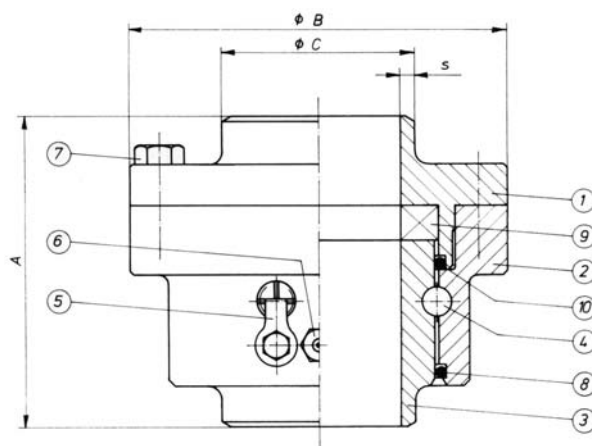
** temperature range might be restricted due to seal material

SWIVEL JOINT D 1133

Normal attitude horizontal or vertical. If O-ring part No. 8 is facing upwards, make certain that water cannot enter into O-ring groove (protective cover)



D 1133 carbon steel



D 1133 stainless steel

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|-----------|-----------------------|--|
| 1. flange | 5. ball track locking | 9. swivel joint seal |
| 2. body | 6. grease nipple | 10. support ring (if carbon steel swivel joint) |
| 3. nipple | 7. flange screws | 10. product-O-Ring (if stainless steel swivel joint) |
| 4. balls | 8. dust O-ring | 11. product-O-Ring (if carbon steel swivel joint) |

DIMENSIONS AND WEIGHTS (metric)

Size	A	B	C	S	Bolts	Weight (kg)
DN 50	98	118,0	60,3	4	4 x M 8	3,8
DN 80	98	143,5	88,9	5,6	8 x M 8	5,1
DN 100	98	175,0	114,3	6,3	8 x M 10	7,0
DN 150	160	247,0	168,3	7,1	8 x M 12	19,0
DN 200	180	323,0	219,1	8,2	8 x M 16	33,0
DN 250	200	380,0	273,0	9,3	12 x M 16	48,0
DN 300	220	457,0	323,9	9,5	12 x M 20	71,0
DN 400	228,7	552,5	406,4	9,5	12 x M 20	110,0

Dimensions and weights for larger swivel joints are available on request.

EMCO WHEATON
A Gardner Denver Company

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Whilst the content of this leaflet has been edited with the greatest care, we are not liable for any errors or omissions

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