

Swivel Joints for heavy duty special applications

The **D1131** and **D1135** swivel joints for special application with one or two ball tracks are variations of the basic D0002 and D1010. These swivel joints are internally lined with PTFE and are equipped with a special PTFE seal. Therefore they are suitable for extremely aggressive products.

The ball tracks are 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 port. This port is PTFE sleeved. Thus contact of product with carbon steel components is prevented.

The ball tracks are hardened and polished. This gives the swivel joint a high degree of running precision and long service life, even under extreme operating conditions.

The encapsulated ball tracks are provided with a long-term lubricant, relubrication is therefore not required for many years.

Replacement of the special PTFE seals necessitates a high degree of accuracy and experience. Only careful insertion of the special PTFE seal guarantees a long service life.

The **D1131** swivel joint is equipped with special flanges. The connection flanges for the pipes are included in the swivel joint order. These flanges are welded to the pipes and then PTFE lined as an assembly.



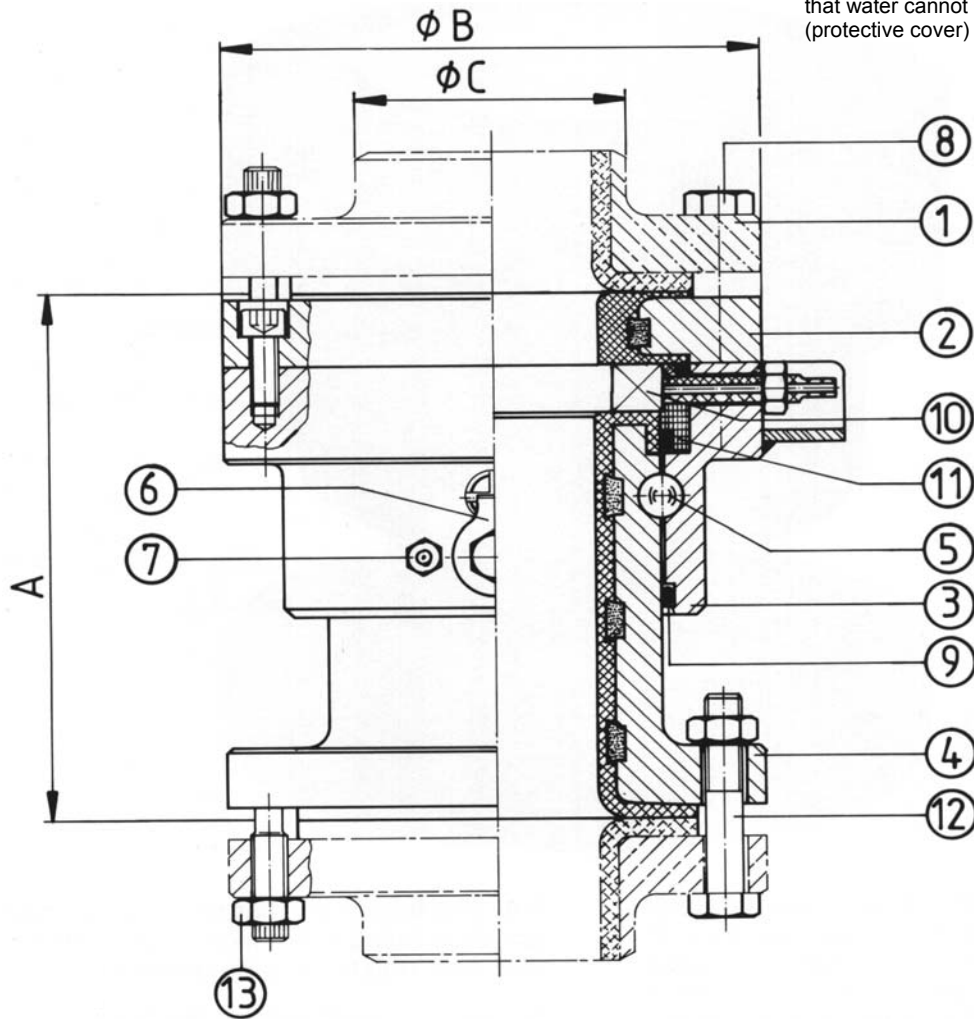
Type	Size * DN	Material	Seal material	Allowable internal pressure (gauge pressure)		Allowable temperature range **
				operational	test	
D1131	50, 80, 100, 150	carbon steel PTFE lined	• PTFE	10 bar	15 bar	-10 °C to +150 °C
D1135	150, 200		• PTFE	10 bar	15 bar	-10 °C to +150 °C

* larger sizes are available

** temperature range might be restricted due to seal material

SWIVEL JOINTS D1131, D1135

Normal attitude horizontal or vertical. If O-ring part No. 9 is facing upwards, make certain that water cannot enter into O-ring groove (protective cover)



D 1131

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|----------------|-----------------------|----------------------------------|
| 1. flange | 6. ball track locking | 11. seal ring |
| 2. spacer ring | 7. grease nipple | 12. screws for connecting flange |
| 3. body | 8. flange screws | 13. socket set screw |
| 4. sleeve | 9. dust O-ring | |
| 5. balls | 10. swivel joint seal | |

DIMENSIONS AND WEIGHTS (metric)

Type	Size	A	B	Bolts	Weight (kg)
D1131	DN 50	119	118	8 x M 8	5
	DN 80	119	143,5	8 x M 8	7
	DN 100	119	175	8 x M 10	10
	DN 150	164	247	8 x M 12	23
D1135	DN 150	available on request			
	DN 200	available on request			

Dimensions and weights for larger swivel joints are available on request

EMCO WHEATON
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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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