

D1010 | SWIVEL JOINT



SWIVEL JOINT FOR HEAVY DUTY

The D1010 is the standard swivel joint with two ball tracks. It is especially used where large size swivel joints have to take heavy loads (typical example: EMCO Marine Loading Arms). Both ball tracks of the carbon steel version are hardened and polished. This gives the swivel joint a high degree of load capacity and long service life, even under extreme loads.

The internal flange makes it possible to change the seal without removing the swivel joint from the pipeline.

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 D1010 swivel joint, made of a special aluminium alloy, is not supplied with hardened ball tracks due to material characteristics, therefore it is only suitable for normal loads. Aluminium swivel joints have no specially plate seal faces due to the chosen alloy.

The D1010 swivel joint can be relubricated via grease nipples. If required, the balls can be removed and replaced by first removing the ball track plugs.

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DIMENSIONS AND WEIGHTS (METRIC) D1010

Size	Material	A	B	C	S	Bolts	Weight
DN 150	carbon steel and low temperature steel	245	279.4	168.3	11.0	8 × M 20	34 kg
DN 200		275	342.9	219.1	12.7	8 × M 20	55 kg
DN 250		265	406.5	273.0	12.7	12 × M 24	75 kg
DN 300		296	482.6	323.8	12.7	12 × M 24	127 kg
DN 400		305	596.9	406.4	12.7	16 × M 27	175 kg
DN 500		326	698.5	508.0	12.7	20 × M 30	238 kg
DN 150	aluminium	245	279.4	159.0	8.7	8 × M 20	14 kg
DN 200		275	342.9	210.0	10.0	8 × M 20	20 kg
DN 250		240	406.4	273.0	9.3	12 × M 24	29 kg
DN 300		255	482.6	324.0	9.3	12 × M 24	38 kg

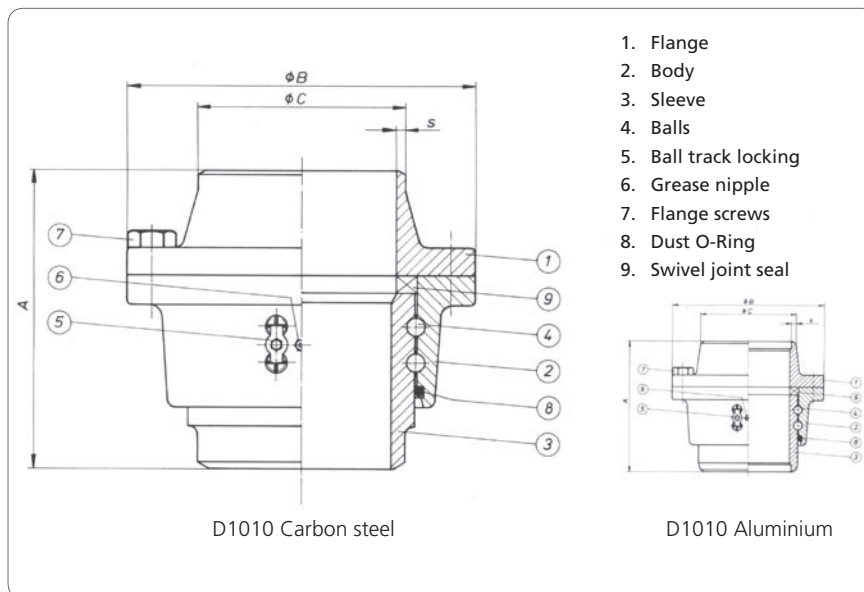
Dimensions and weights for larger swivel joints are available on request

TECHNICAL DATA D1010

Size * DN	Material	Seal material	Allowable internal pressure (gauge pressure)		Allowable temperature range **
			operational	test pressure	
150, 200, 250, 300, 400, 500, 600	carbon steel	Buna N, Viton, PTFE	25 bar	37.5 bar	-10 °C to +200 °C
150, 200, 250, 300, 400, 500, 600	low temp. steel	PTFE	25 bar	37.5 bar	-50 °C to +200 °C
150, 200, 250, 300	aluminium alloy	Perbunan, Viton, PTFE	10 bar	15 bar	-10 °C to +120 °C

* Larger sizes are available

** Temperature range might be restricted due to seal material



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).