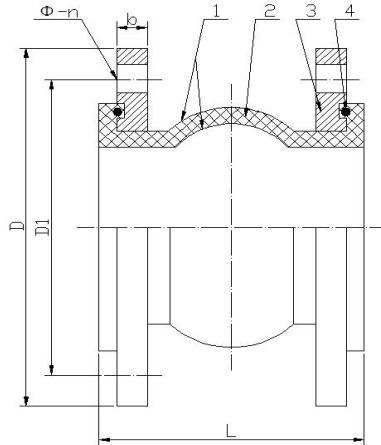


Technical Drawing of a Flange Joint

Technical drawing showing dimensions and components of the flange joint.



Item	Description	Material
1	Out/inner rubber	EPDM
2	Key frame	Cord fabric
3	Flange	Carbon steel
4	Pressurized ring	Steel wire strand

Technical Conditions :

Maximum Working Pressure : 1600Kpa

Explosion Pressure : 4800Kpa

Operating Temperature Range : -15C - 100C

Medium : Cold Water, Hot Water, Sea Water,
Weak Acid, Weak Alkali

SIZE	Axial displacement(mm)		Horizontal displacement(mm)	Deflection angle (°)
	Extension	Compression		
DN50	7	10	10	15°
DN65	7	13	11	15°
DN80	8	15	12	15°
DN100	10	19	13	15°
DN125	12	19	13	15°
DN150	12	20	14	15°
DN200	16	25	22	15°
DN250	16	25	22	15°
DN300	16	25	22	15°

SIZE	L(mm)	DIN PN16				BS10 TABLE E			
		D	D1	b	Φ-n	D	D1	b	Φ-n
DN50	105	165	125	16	18-4	152.4	114.3	9.5	17.5-4
DN65	115	185	145	18	18-4	165.1	127	10.3	17.5-4
DN80	135	200	160	20	18-8	184.2	146.1	11.1	17.5-4
DN100	150	220	180	20	18-8	215.9	177.8	12.7	17.5-4
DN125	165	250	210	22	18-8	254	209.6	14.3	17.5-8
DN150	180	285	240	22	22-8	279.4	235	17.5	17.5-8
DN200	210	340	295	24	22-12	336.6	292.1	19.1	17.5-8
DN250	230	405	355	26	26-12	406.4	355.6	22.2	22.2-8
DN300	245	460	410	28	26-12	457.2	406.4	25.4	22.2-12

Vibration Eliminator Installation

For more information, please contact us on 1300 493 359 or visit our website at www.hydroflow.com.au

Installation Guide

In order to ensure correct operation, Vibration Eliminators must be installed with care -

Vibration Eliminators should be anchored on both sides of the joint to control expansion or contraction

The anchors must be capable of withstanding movements that occur due to pressure and temperature fluctuations

When installing to flat faced flanges, the Vibration Eliminators do not require gaskets, but all sealing surfaces must be clean and smooth to ensure a good seal is achieved.

Spring washers must be used to prevent nuts working loose on the bolts securing the Vibration Eliminator

Vibration Eliminators should be bolted together in a cross pattern sequence to ensure an even seal across the flange

All pipelines need to be properly supported to ensure the Vibration Eliminators do not carry the pipe load

All pipelines need to be aligned correctly before installation of the Vibration Eliminators takes place

Bolts should be checked for tightness one week after installation, and periodically going forward

The expansion joints must not be arranged directly on the pump support (suction/pressure side, as there is a risk of the expansion joints being damaged due to relatively high velocities from swirl and vibration on the pump support.

This applies similarly to elbows and outlets. The fitting distance from the pump support to the expansion joint/elbow must be 1 to 1.5 x DN. Pump operation against a fully or partly closed gate or flap valve must be avoided. Cavitation must also be avoided as this can quickly damage the expansion joint.

