



RUBBER EXPANSION JOINTS



Ayvaz's rubber expansion joints are preferred in large variety of industrial applications with their outstanding features likewise movement absorption in all plates and great vibration damping abilities.

Application Areas and Purposes

Ayvaz's Rubber Expansion joints are used in various areas such as;

- Mechanical installation and machine engineering.
- Domestic water and liquid industry.
- Shipbuilding and marine engineering.
- Power plants and nuclear stations.
- HVAC applications.

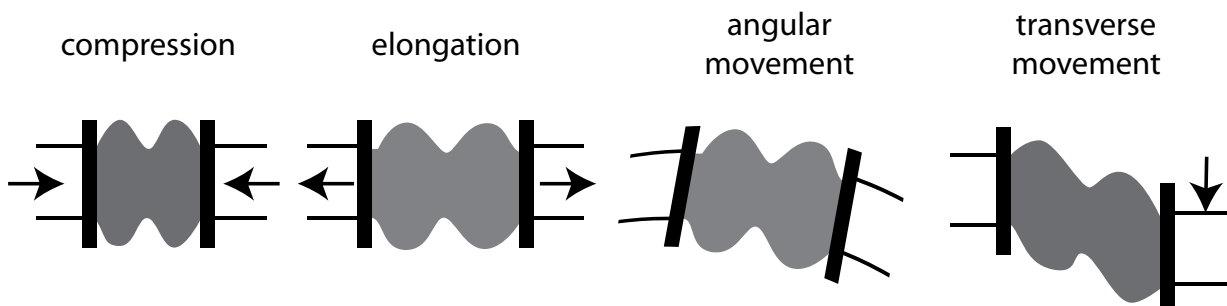
Main purposes of using rubber expansion joints may be considered as follows;

- To compensate thermal expansion and compression.
- To reduce tension in the pipelines.
- To prevent noise and vibration to protect the connected systems.
- To compensate for ground, and settlement of especially the new buildings.
- To provide proper sealing with their elastic structures where the pipelines pass through walls.

Design

- Ayvaz rubber expansion joints provide excellent compensating features by their highly rated rubber bellows which is consisted of special synthetic rubber, steel wire and nylon braid fibre.
- They may be produced with flange and threaded connections.
- They may have two bellowed structure in order to absorb large movements.

Ayvaz's Rubber expansion joints are designed to compensate axial, lateral, angular and transverse movements at the same time.



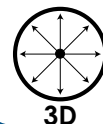
PRODUCT FEATURES

DKK - 10

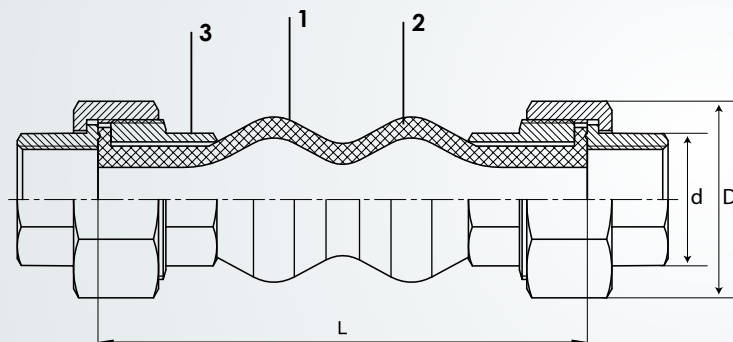
Bellow Material	Special Synthetic Rubber
Nominal Diameter	DN20 (3/4") - DN100 (4")
Operating Pressure	16 bar
Operating Temperature	Max. 90°C
Connection Types	Threaded
Connection Material	Cast Iron

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Bellow Material	Special Synthetic Rubber
Nominal Diameter	DN32 (3/4")-DN400 (16")
Operating Pressure	16 bar
Operating Temperature	Max. 90°C
Connection Types	Floating Flanged
Flange Material	Ductile Iron GGG 40.3 (Optional composite)



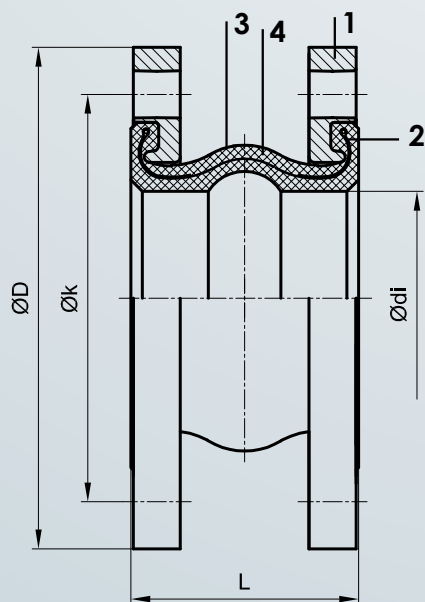
RUBBER EXPANSION JOINT DKK-10



DIMENSIONS				
DN	D	d	Ødi	L
25	50	24,12	3/4"	200
32	62	30,29	1"	200
40	72	38,95	1 1/4"	200
50	81	44,85	1 1/2"	200
65	93	56,66	2"	200
80	111	72,23	2 1/2"	240
100	128	84,93	3"	240

Material List		
Part Number	Part Name	Material
1	Bellow	Special Synthetic Rubber
2	Nylon Braid Fibre	Synthetic Fibre
3	Threaded End	Cast Iron (BSP or NPT)

RUBBER EXPANSION JOINT LKA-10

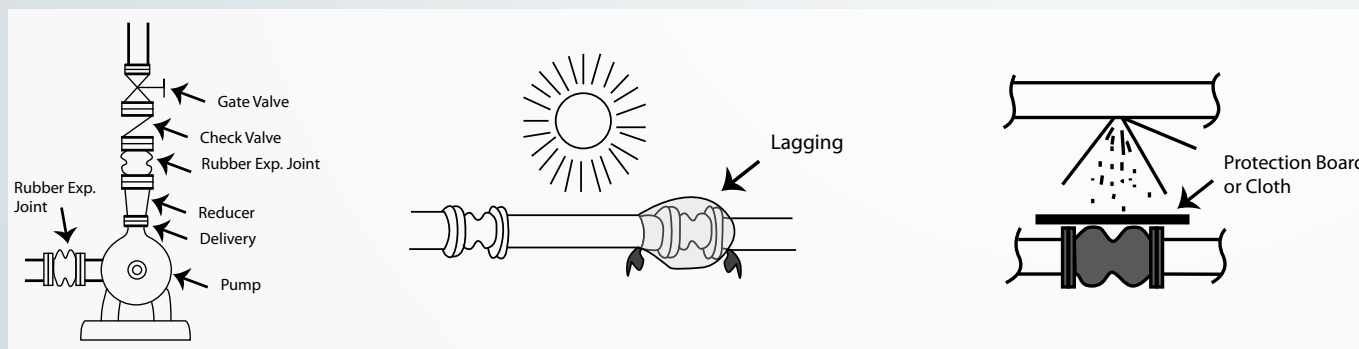


Material List		
Part Number	Part Name	Material
1	Flange	Ductile Iron GGG 40.3
2	Steel Wire	Carbon Steel
3	Bellow	Special Synthetic Rubber
4	Nylon Braid Fibre	Synthetic Fibre

DIMENSIONS				
DN	ØD	Øk	Ødi	L
32	140	100	1 1/4"	100
40	150	110	1 1/2"	100
50	165	125	2"	100
65	185	145	2 1/2"	100
80	200	160	3"	100
100	220	180	4"	100
125	250	210	5"	120
150	285	240	6"	120
200	340	295	8"	120
250	405	355	10"	130
300	460	410	12"	130

Notes of Installation

- 1) For the installation of the joints to the pump, refer to the right illustration and install. When the check valve is installed before the joints from the pump, there is a possibility of some trouble occurrence due to accumulation of fatigue by water head pressure and direct water hammer when the pump starts and stops.
- 2) Install the joints within allowable movements of elongation, compression, eccentricity, angular movement, etc.
- 3) When the joints are in displacement, note for the joints not to touch the structure and equipment (especially sharp edges) near the installation.
- 4) Take measurement and make centering correctly not to add unnecessary outer force (compression, tension, torsion, etc.) when connecting the joints to the pipes.
- 5) When welding or cutting the pipes nearby after installation, protect the joints with a cover (board or cloth) from sparks. In case of the possibility of heat transmission, take some countermeasure like taking the joints off from the pipe, etc.
- 6) When installation to the outdoor pipes, make lagging to the joints to prevent the joints body aging.



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