

Rectangular compensators

by Belman Production A/S



Belman design and manufacture rectangular compensators.

Construction

- Made from Carbon steel and corrosion-resistant steel alloys (Other steel types on request).
- With flanges or welding ends.

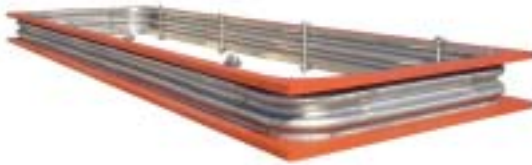
Properties

Rectangular compensators are chosen when the connection or the pipeline is rectangular and where a round compensator is not use able.

Advantages

- Resist temperatures and pressure.
- Impenetrable to gas.
- Assembly is possible on-site.
- Absorbs axial, lateral and/or angular movements.

Rectangular compensators delivered by Belman Production A/S



Installed between boiler and condenser in Denmark.

The Demand; absolutely impenetrable to gas and high pressure. A demand, that a fabric compensator could not meet. The solution therefore was this unique steel compensator with round corners. The bellow is constructed in stainless steel with a ply thickness of only 0,5 mm. In this way the same spring rate and flexibility as a fabric compensator is achieved. But under conditions, that only steel expansion joints can resist.

The compensator can also be designed and manufactured with an inliner in a higher alloyed material, which result resistance towards aggressive medias and corrosion.



Exhaust application

With round corners to minimize stress.
3 pcs. 320 x 800 mm and 3 pcs. 320 x 495 mm.

Operating temp.: 200 °C
Operating pressure: 3 bar
Axial movement: +/- 5 mm.



WSA plant (Wet Gas Sulphuric Acid).

Universal compensator 2412 mm x 2412 mm with pantograph. This special construction has the purpose of sharing the work load and movements are equally between both bellows.

Built-in length: 2000 mm
Medium: Gas
Operating temp.: 450°C
Operating pressure: 0,15 bar
Weight: 1200 kg.



Exhaust compensator

Exhaust compensator 1100 mm x 2200 mm with internal stiffeners. In this way the compensator is resistant towards the vacuum, it is exposed to. Is installed on the steam turbine exhaust duct on a ship.

Axial movement: +/- 16 mm
Lateral movement: +/- 5 mm
Operating temp.: 200°C
Operating pressure: Full vacuum to 1,4 bar



For ventilation in Sweden

This rectangular compensator 640 mm x 1000 mm is placed at the ventilator. This compensator has replaced fabric bellows.

Built-in length: 120 mm
Medium: Air
Operating temp.: max. 120°C
Operating pressure: 0,1 bar

