



## Fabric Expansion Joints

# TYPE **BELMAN-VA**

### FEATURES & APPLICATION

The Fabric Expansion Joints within the Belman-VA series are designed especially for use in various auxiliary systems (**VA**).

The Belman-VA Fabric Expansion Joint Type is a single- or multilayer design that safely absorbs movements caused by thermal expansions in pipelines and duct systems and with the possibility to be designed to accommodate misalignments on request.

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#### DESIGN FEATURES

- Single- or multilayer Fabric Expansion Joint
- For dry and wet operation (non-aggressive media)
- Customized to application and project
- Absorbing multiplane movements simultaneously

#### APPLICATIONS

- All industries

### ADVANTAGES

- Minimum reaction forces
- Excellent movement absorption and high flexibility
- Can accommodate misalignments and a large amount of lateral offset (special design and needs to be specified at the inquiry stage)
- Extensive application range
- Good vibration resistance depending on design and materials

## TYPES & SPECIFICATIONS

### OPERATING FEATURES

#### Temperature range:

Up to +200°C,  
minimum temperature -50°C

#### Pressure range:

Up to 25.000 Pa (+/- 2500 mmWg)

#### Medium

Non-aggressive (Dry and wet)

### MOVEMENTS

Absorbs movements in multiple directions (several planes) simultaneously. Depending on the chosen type these constructions are able to absorb large movements within short built-in lengths.

### CONNECTION ENDS & HARDWARE

The Belman-VA Fabric Expansion Joint type is delivered as a customized design (either closed or special requirements as open belt for joining on-site) with bellows designed to solve the movement absorption in the application as well as

meet requirements made by the gap in the pipeline. The Belman-VA is supplied as standard as a stand-alone Fabric Expansion Joint (with parallel or vertical fixing flange arrangement) that may be supplied with customized connection ends and including hardware, but not limited to:

- Complete units (flanged or with welding ends)
- With loose flanges
- With clamping bands
- Special transport fixtures
- Flowliners / inner sleeves
- Pre-setting construction

PRODUCT RANGE				
Expansion Joint	Temperature limit	Pressure limit	Media	Comments
VA-RR-EP18-N	120°C	+/-20000 Pa	Various (Dry)	Only supplied as closed
VA-GR-EPGL-S	120°C	+/-20000 Pa	Various (Dry)	Only supplied as closed
VA-RR-EPKE-N	120°C	+/-60000 Pa (surge pressure)	Various (Dry and wet)	Only supplied as closed
VA-RR-EP60-N	120°C	+/-25000 Pa	Various (Dry and wet)	Only supplied as closed
VA-GS-ALUS-S	200°C	+/-20000 Pa	Various (Dry and wet)	-
VA-AA-PA06-S	70°C	+/-15000 Pa	Various (Dry and wet)	Only supplied as closed
VA-AA-PA15-S	70°C	+/-25000 Pa	Various (Dry and wet)	Only supplied as closed

## CUSTOMIZED SOLUTION

All Belman Fabric Expansion Joints are customized to the application and operating data of the plant. From a large selection of material types and combinations Belman is able to tailor the type of Belman-VA that meets client specifications. Here are some examples:

**SPECIALIZED IN  
CUSTOMIZED  
Fabric Expansion Joint solutions**

**Circular  
Expansion Joint**

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**Belman Flexibles India Pvt. Ltd, Raipur, India**