



Steel expansion joint - Type SF-33

Angular expansion joint, cardanic movable



Applications

- for compensating angular movement in angular and deflecting pipe routings
- as double or triple joint compensation system for large movements
- for reducing tension
- for installation in
 - industrial applications
 - pipe line and plant construction

Structure type SF-33

- Vacuum-proof angular expansion joint consisting of a stainless steel bellows with pipe ends and welded flanges
- Welded cardan hinge restraints to absorb reaction force

Steel bellows PN 6 / PN 16

- Multiple convolution bellows in various stainless steel grades
- One ply or multi-ply structure

Material grade *	Material No. as per DIN EN	Temperature**	Possible uses
Stainless steel	1.4541	-196 °C	Low temperature, acids, lyes, gases, fertilizers
	1.4404, 1.4571	up to +550 °C +550 °C	Media containing chloride, oil, soap, drinking water, food stuff, petrol

* Check or inquire about the resistance of material grades to temperature and medium.
 ** Check or inquire about reduction in pressure by temperature.

Cardan hinge restraints

- Pivot of joint bars at center of bellows
- Hinge restraints control bellows movement

Materials

Standard: 1.0038 (S235JR)
 Others: stainless steel, etc.

Corrosion protection

Standard: anti-corrosion primed
 Others: special varnish, etc.

Special designs

Other sizes (DN), lengths or pressure ratings on request.

Flanges

Version

- Welded flanges
- Flange drilling for through bolts

Dimensions

Standard: DN 50 - DN 500 (PN 6)
 DN 50 - DN 250 (PN 16)
 according to EN 1092

Others: DIN EN, ANSI, BS etc.

Connection dimensions see technical annex

Materials

Standard: 1.0038 (S235JR)
 Others: stainless steel, etc.

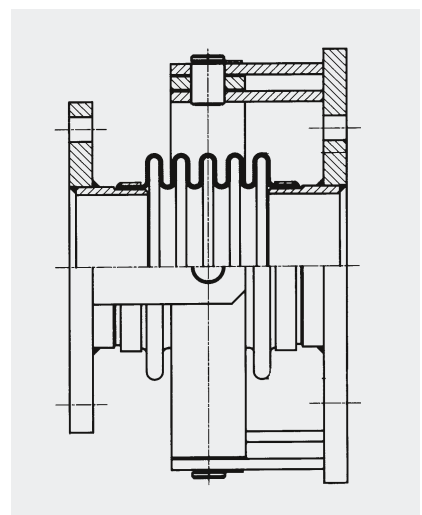
Corrosion protection

Standard: anti-corrosion primed
 Others: special varnish, etc.

Certificates

- CE (DGR 97/23/EC)

Version



Type SF-33

Pipe ends

Materials

Standard: 1.0305 (St 35.8),
 1.0038 (S235JR)

Others: stainless steel, etc.

Corrosion protection

Standard: anti-corrosion primed
 Others: special varnish, etc.

Note

Please comply with the general technical instructions regarding reaction force, moving force, fixed point load, installation instructions, etc.

Subject to technical alterations and deviations resulting from the manufacturing process.