Rubber expansion joint ▪ Type C-35

Lateral expansion joint DN 300 – DN 3600

Customized production

Structure type C-35

- ☐ Lateral expansion joint consisting of a rubber bellows and press-on retaining flanges
- ☐ Restrainer segments for fitting on the mating flanges on site
- ☐ Tie rods (outer restraints) to absorb reaction force from internal pressure
- ☐ Alternative: Tie rods (outer and inner restraints) to absorb reaction force from internal pressure or vacuum
- ☐ Available in various bellows geometries and special lengths

Rubber bellows PN 4 / PN 10

- ☐ Elastic robust bellows in various rubber grades
- ☐ Synthetic fibre reinforcement
- ☐ Full-faced self-sealing rubber flanges with drilling for through bolts
- ☐ Electrical impedance 10^3 to 10^6 Ohm (DIN IEC 93, VDE 0303-30)

Rubber grade*	Colour code	Possible uses
EPDM	**orange**	**Cooling, sea, brackish water, acids, lyes**
NBR	**red**	**Oil**
CIIR	**white**	**Drinking water**

*Check or inquire about the resistance of the rubber grade to temperature and medium.

Technical design		
DN	DN 300 - 3600	DN 300 - 1000
Pressure rate	PN 4	PN 10
Max. perm. operating pressure	**4 bar***	**10 bar***
Max. perm. temperature	**+100 °C**	**+100 °C**
Bursting pressure	**≥ 15 bar**	**≥ 30 bar**
Vacuum operation	**with vacuum supporting ring at permanent vacuum**	

Max. operating pressure to be set 30 % lower for shock loads.
*Please consider a decrease of pressure due to temperature (see technical annex).

Flanges/Segments

Version

- ☐ Press-on retaining flanges with stabilizing collar
- ☐ Segments to carry the tie rods to fit on mating flanges
- ☐ Flange drilling for through bolts

Dimensions

Standard: PN 10 according to EN 1092
Others: DIN EN, ANSI, BS etc.
Connection dimensions see technical annex

Materials

Standard: 1.0038 (S235JR), 1.0577 (S355J2)
Others: stainless steel, etc.

Corrosion protection

Standard: DN 300 - DN 700 electrogalvanized
DN 800 - DN 1000 hot-dip galvanized
DN 1100 - DN 3600 anti-corrosion primed
Others: special varnish, special coating, 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.

Applications

- ■ **for compensating lateral movement**
- ■ **for reducing thermal and mechanical tension in pipes and their system components, e.g.**
  - ■ **pumps**
  - ■ **condensers**
- ■ **to compensate for installation inaccuracies**
- ■ **to compensate for ground and foundation settlement**
- ■ **as installation and dismantling aid**
- ■ **power station technology**
- ■ **process plant engineering**

Tie rod restraints

- ☐ Tie rods carried on spherical washers and conical seats

Materials

Standard: tie rods 8.8
Others: stainless steel

Corrosion protection

Standard: electrogalvanized
Others: hot-dip galvanized

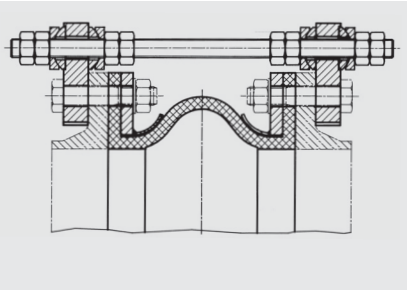
Accessories

- ☐ Vacuum supporting ring
- ☐ Internal guide sleeve
- ☐ Protective tube

Certificates

- ☐ CE (DGR 97/23/EC)
- ☐ Drinking water
- ☐ TÜV (KTA)

Versions



Type C-35
Lateral expansion joint, outer and inner restraints on segments
Dimensions and movement compensation on request