

## 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 (external restraints) to absorb reaction force from internal pressure
- Alternative: Tie rods (external and internal 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<sup>3</sup> to 10<sup>6</sup> 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 300 - 3600	DN 300 - 1000
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

#### 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.

#### 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.

### 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

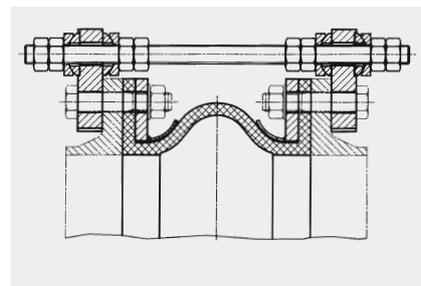
### Accessories

- 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, external and internal restraints on segments  
 Dimensions and movement compensation on request