

CUSTOMIZED PRODUCTION

RUBBER EXPANSION JOINT TYPE C-35

LATERAL EXPANSION JOINT DN 300 – DN 3600



STRUCTURE TYPE C-35 / RUBBER BELLOWS PN 4, 10

- 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
- 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*	EPDM	NBR	CIIR
Colour code	orange	red	white
Possible uses	Cooling, sea, brackish water, acids, lyes	hydrocarbon containing liquids	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 / VERSIONS

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

	Standard	Others
Dimensions	EN 1092	ANSI, BS etc. Connection dimensions see technical annex page 213 – 215
Materials	1.0038 (S235JR), 1.0577 (S355J2)	stainless steel etc.
Corrosion protection	hot-dip galvanized	special varnish and 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: hot-dip galvanized

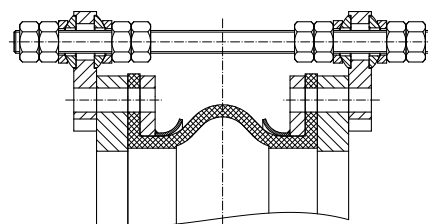
Others: special coating, etc.

CERTIFICATES

- CE (PED 2014/68/EU)
- Drinking water
- TÜV Süd (KTA)

ACCESSORIES

- Vacuum supporting ring
- Internal guide sleeve
- Protective tube



Type C-35

Lateral expansion joint, outside and inside with segments and tie rods. Dimensions and movement compensation on request