

Rubber expansion joint - Type C-41

Angular expansion joint DN 300 – DN 3600



Customized production

Structure type C-41

- Angular expansion joint consisting of a rubber bellows and press-on retaining flanges
- Welded hinge restraints to absorb reaction force from internal pressure or vacuum
- Various bellows geometries

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 10³ to 10⁶ 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 - 2800
DN	PN 4	PN 10
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

Version

- Oval press-on retaining flanges with stabilizing collar and hinge restraints
- 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: anti-corrosion primed
 Others: hot-dip galvanized, special varnish, special coating, etc.

Applications

- for compensating angular movement
- as double or triple joint compensation system for large movements
- restraints to absorb reaction forces
- power station technology
- process plant engineering

Hinge restraints

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

Materials

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

Corrosion protection

Standard: anti-corrosion primed
 Others: hot-dip galvanized, special varnish, special coating, etc.

Accessories

- Vacuum supporting ring
- Internal guide sleeve

Certificates

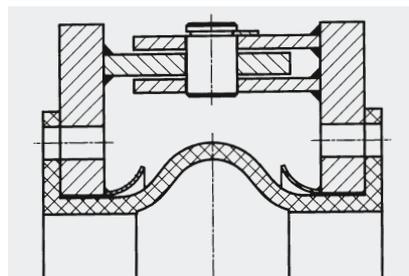
- CE (DGR 97/23/EC)
- Drinking water
- TÜV (KTA)
- crecep

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.

Version



Type C-41

Angular expansion joint
 Dimensions and movement compensation on request