

## 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  $10^3$  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 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

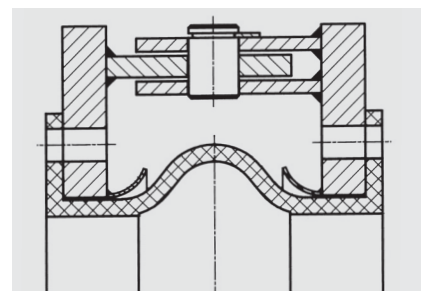
- CE (DGR 97/23/EC)
- Drinking water
- TÜV (KTA)
- crecep

### 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