

## CUSTOMIZED PRODUCTION

# RUBBER EXPANSION JOINT TYPE C-41

## ANGULAR-EXPANSION JOINT DN 300 - DN 3600



## STRUCTURE TYPE C-41 / RUBBER BELLOWS PN 4, 10

- 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
- Elastic, robust bellows in various rubber grades
- Synthetic fibre reinforcement
- Full-faced, self-sealing rubber flanges with drilling for through bolts
- Electrical impedance  $10^3$  bis  $10^6$  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 - 2800
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

- Oval press-on retaining flanges with stabilizing collar and hinge restraints
- 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	anti-corrosion primed	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 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: hot-dip galvanized

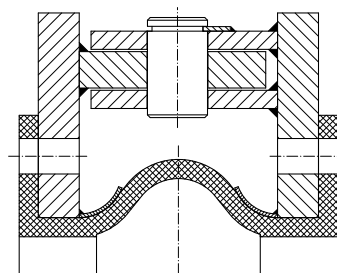
Others: special varnish, special coating, etc.

## CERTIFICATES

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

## ACCESSORIES

- Vacuum supporting ring
- Internal guide sleeve



Type C-41

Angular expansion joint Dimensions and movement compensation on request

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