

## Rubber expansion joint - Type D-21, D-22, D-41, D-42

Square or oval universal expansion joint DN 150 – DN 7500

Customized production



Type D-21



Type D-41

### Structure type D-21

- Rectangular universal expansion joint consisting of a rubber bellows and press-on retaining frame
- Wide rubber rim

### Structure type D-41

- Rectangular universal expansion joint consisting of a rubber bellows and press-on retaining frame (round corners)
- Wide rubber rim

### Structure type D-22

- Rectangular universal expansion joint consisting of a rubber bellows and press-on retaining frame
- Frame with stiffening ring
- Narrow rubber rim

### Structure type D-42

- Rectangular universal expansion joint consisting of a rubber bellows and press-on retaining frame (round corners)
- Frame with stiffening ring
- Narrow rubber rim

### Rubber bellows PN 0,7 bar g

- Extruded, endless vulcanized profile band
- Without reinforcement
- Self-sealing rubber rim

Rubber grade*	Colour code	Possible uses
EPDM	orange	Air, gases containing acids or lyes, dust
NBR	red	Gases containing oil

\*Check or inquire about the resistance of the rubber grade to temperature and medium.

Property	Pressure	Temperature
Max. perm. operating pressure	depending on DN not exceeding 0.7 bar g (see table)	up to +90 °C
Vacuum operation	for light vacuum down to 0.98 bar abs.	

Max. operating pressure to be set 30 % lower for shock loads.

### Press-on retaining frame

#### Version

- Retaining frame with drilling for through bolts

#### Dimensions

- Dimensions and drillings according to customer's specification

Connection dimensions see technical annex

#### Materials

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

#### Corrosion protection

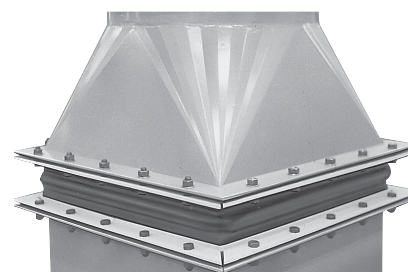
Standard: anti-corrosion primed  
Others: hot-dip galvanized, special varnish, special coating, etc.

### Applications

- for reducing thermal and mechanical tension, e.g. at
  - ventilating fans
  - blowers
- for muffling vibration and noise
- for compensating axial and lateral movement
- to compensate for installation inaccuracies
- air and ventilation technology
- dedusting and filter engineering (clean-room technology)

### Accessories

- Internal guide sleeve



STENFLEX® type D-21 in an air-conditioning duct

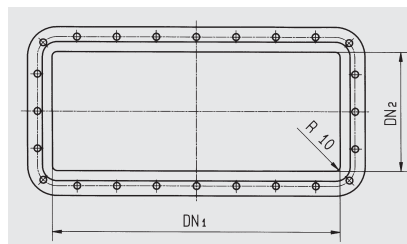
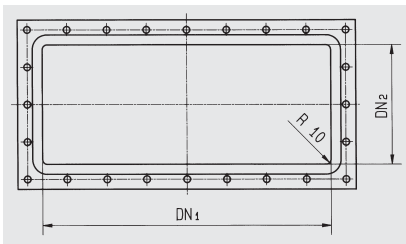
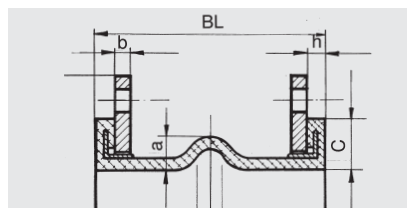
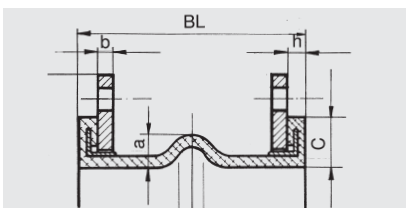
## Dimensions standard program

Type	DN 1 Maximum size	DN 2 Minimum size	BL	Minimum circumferential size inside	a External height of convolution	C Rubber rim height	h Rubber rim thickness	b Flange thickness
	mm	mm	mm	mm	mm	mm	mm	mm
D 21	7500	150	150	900	27	35	12	10
D 22	7500	150	150	900	27	20	15	10
D 41	7500	150	150	900	27	35	12	10
D 42	7500	150	150	900	27	20	15	10

## Movement compensation

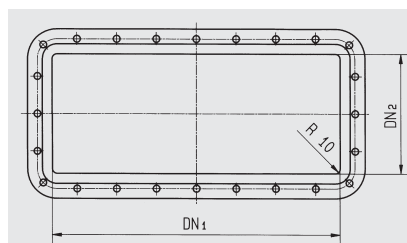
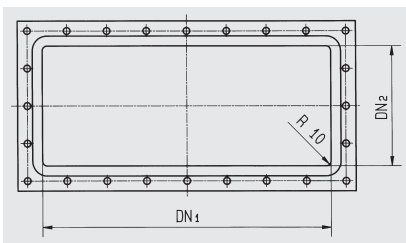
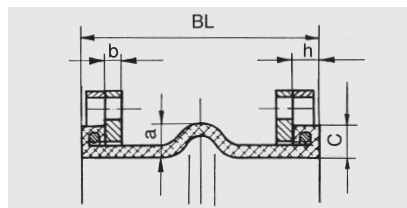
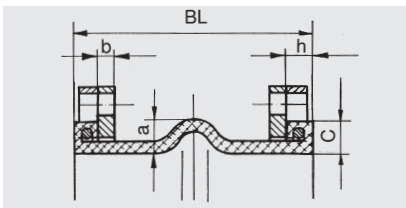
Type	ax Axial movement		lat Lateral movement
	Compression - mm	Elongation + mm	+/- mm
D 21	25	15	20
D 22	25	15	20
D 41	25	15	20
D 42	25	15	20

## Versions



Type D-21

Type D-41



Type D-22

Type D-42

## Note

Please comply with the general technical instructions and installation instructions.

Subject to technical alterations and deviations resulting from the manufacturing process.

Admissible operating pressure, effective cross sectional area, reaction forces, moving forces and spring rates depend on expansion joint's size. Please inquire.