

## U216A

NB 100 – NB 4000

### ► Type U216A



Type key ► page 20

U2 1 6 A

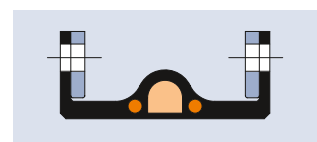
- └─ Tie rod variant
- └─ Support ring variant
- └─ Number of arches
- └─ Type

## Universal expansion joint with one arch

- Design:** Thick-walled, single-arch rubber bellows with full faced rubber flanges, split backing flanges and embedded support rings at the arch foot
- Nominal diameters:** NB 100 to NB 4000, intermediate sizes possible
- Installation length:** Standard  $L_E = 250$  to  $350$  mm (► page 88)  
Other installation lengths on request
- Pressure:** Depending on the nominal diameter up to 25 bar  
Vacuum-proof up to 0.5 bar absolute
- Movement:** For axial, lateral and angular movements (► page 88)
- Stiffness rate:** The embedded support rings and reinforcements generate large stiffness rates
- Arch:** Optionally filled with foam rubber, to avoid turbulence and accumulation of solid matter (► page 39)  
Observe the restriction on specified movement (► page 88)

### Application:

Cooling water systems, desalination plants, drinking water supply, plant construction, e.g. in pipelines, on pumps, as dismantling joints, on condensers and vessels



## Rubber bellows

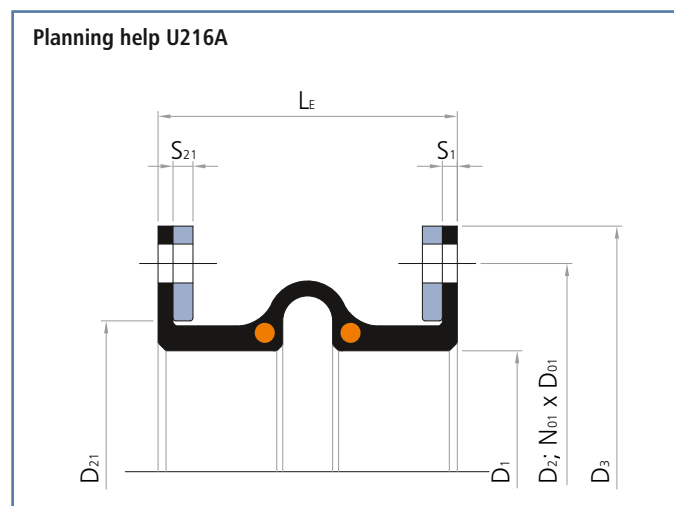
Rubber grades			Carrier
up to 100 °C:	EPDM	Cooling water, hot water, seawater, acids, dilute chlorine compounds	Nylon fabric Kevlar fabric Polyester fabric Glass fibre fabric Steel mesh
	EPDM, drinking water approved	Drinking water	
	EPDM, white, food grade	Foodstuffs	
	EPDM, abrasion-resistant	Abrasive materials, Water-sand extraction	
	EPDM, insulating	Electrical systems construction	
	IIR	Hot water, acids, bases, gases	
	CSM	Strong acids, bases, chemicals	
	NBR	Oils, petrol, solvents, compressed air	
	NBR, bright, food grade	Oil, fatty foods	
up to 80 °C:	CR	Cooling water, slightly oily water, seawater	
up to 70 °C:	NR	Abrasive materials	
up to 150 °C:	HNBR	Oils, petrol, solvents, compressed air	
up to 180 °C:	FPM	Corrosive chemicals, petroleum distillates	
up to 200 °C:	Silicon (Q)	Air, saltwater atmosphere	
	Silicon (Q), white, food grade	Foodstuffs, medical technology	

## Flanges

<b>Design:</b>	Multi-part, round backing flanges with clearance holes
<b>Flange norms:</b>	DIN, ANSI, AWWA, BS, JIS, special measurements (▶ page 280)
<b>Materials:</b>	Carbon steel: 1.0038 (S235JRG2) 1.0570 (S355J2G3) Stainless steel: 1.4301 (X5CrNi18-10) 1.4571 (X6CrNiMoTi17-12-2) Aluminium: AlMg3 Other materials on request
<b>Coating:</b>	Primed, hot-dip galvanised, special paint

## Optional accessories

<b>Protective hood:</b>	UV protection cover Ground protective cover Fire protection cover (▶ page 50)
<b>Flow liners:</b>	Cylindrical flow liner Conical flow liner Telescoping flow liner (▶ page 49)







Lateral expansion joint, type U110M  
in the cooling water system  
of a coal-fired power plant  
NB 2600, 4 bar