

## Applications

For cooling water systems at power plants, in gas and drinking-water supply lines, at condensers, for pumps, turbines and boilers for the absorption of movements, oscillations, noises and vibrations.

These expansion joints are suitable for large extensions in axial, lateral or angular directions. They are suitable in pressurised large-sized pipe systems with requirements for small reaction forces, providing high reliability and long life.

## Design

Rubber bellow with high convolution and therefore highly flexible. Able to compensate for high movements due to its low inherent resistance.

Steel backing flanges with supporting collar to ensure the smooth movement of the bellow.

**Teguflex® FFL**  
 Trelleborg FF BL 250/300

## Expansion Joints

DN 500-DN 2600



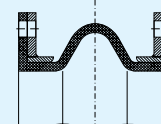
## Materials

Colour Label	Inner tube	Outer cover	Max temp. °C	Applications
Red	EPDM	EPDM	90°	Hot water, cooling water with salt solutions, chlorine solutions, esters and ketones.
Yellow	Nitrile	Chloroprene	90°	Water, salt solutions, alkalis, mineral oils, vegetable or animal oils, oils aerosols, butane or propane gas, etc.
White	Nitrile white	Chloroprene	90°	Drinking water, food and beverages. Including fats and oils.
Green	Hypalon	Chloroprene	90°	Strong and/or concentrated acids, etc. Compressed air that bears oil aerosols.

Note: Other materials available. Please ask.

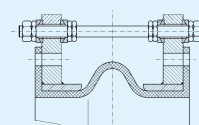
## Pressure rating

Pressure	Temperature	Pressure
Max. working pressure	90°C	10 bar
Test pressure	20°C	15 bar
Burst pressure	20°C	>30 bar

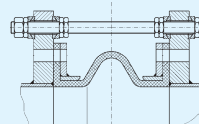


**Type U**

Standard unit for axial, lateral and angular movements.



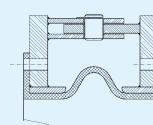
**L1**



**L2**

**Type L**

Unit with tie bars for lateral movements.



**Type A**

Unit with hinges to take up angular movements in one plane.

# Teguflex FFL BL 250/300 DN 500-DN 2600

## Flange qualities

Standard design RST 37-2, with rust resisting primer coating.

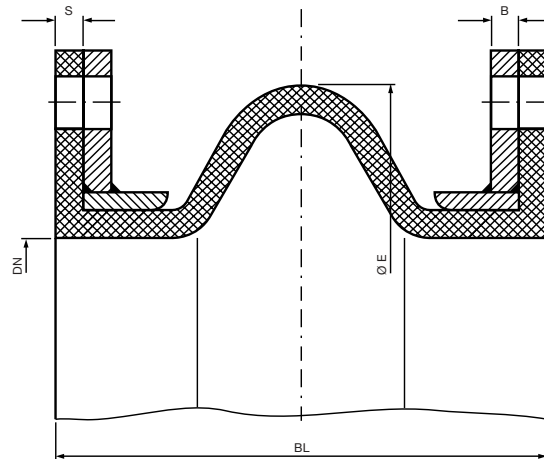
Other materials and surface treatments available by agreement.

## Flange measurements

DN 500 – 2600 DIN 2501 PN6 /10.

(see Flange dimension table for details)

Other flanges standards available. Please ask.



## Dimensions and movements

DN mm	BL mm	Eff.cross-sectional area Q(cm <sup>2</sup> )	(E) mm	(S) mm	(B) mm	Permissible movements				Max. vacuum		Weight
						Comp- ression mm	Elong- ation mm	Lateral mm	Ang- ular	W/o support ring bar	With support ring bar	Weight Incl. flange kg
500	250	1860	620	12	12	40	30	30	6.5°	0.2	1.0	45
600	250	2790	725	15	12	40	30	30	5.4°	0.2	1.0	57
700	250	4300	840	15	15	40	30	30	4.8°	0.2	1.0	84
800	250	4950	950	15	15	40	30	30	4.3°	0.2	1.0	100
900	250	6610	1050	15	15	40	30	30	3.7°	0.2	1.0	113
1000	250	8700	1160	15	15	40	30	30	3.3°	0.2	1.0	133
1100	300	10900	1270	15	15	40	30	30	3.1°	0.2	1.0	150
1200	300	12900	1380	20	20	40	30	30	2.8°	0.2	1.0	180
1400	300	17200	1590	20	20	40	30	30	2.4°	0.2	1.0	230
1500	300	19600	1705	20	20	40	30	30	2.3°	0.2	1.0	250
1600	300	22200	1820	20	20	40	30	30	2.1°	0.2	1.0	285
1800	300	27800	2020	20	20	40	30	30	1.9°	0.2	1.0	315
2000	300	34000	2230	20	20	40	30	30	1.7°	0.2	1.0	360
2200	300	40800	2440	25	25	40	30	30	1.5°	0.2	1.0	445
2400	300	48000	2650	25	25	40	30	30	1.4°	0.2	1.0	520
2600	300	55200	2860	25	25	40	30	30	1.2°	0.2	1.0	550

**Note:** Maximum values do not apply simultaneously.  
Other building lengths and/or dimensions available. Please ask.

## Optional equipment

Vacuum rings are available.



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