

## Steel expansion joint - Type SG-10

Axial expansion joint DN 15 – DN 50



### Structure type SG-10

- Vacuum-proof axial expansion joint consisting of a stainless steel bellows and threaded connection parts
- Connection parts with hexagon insert bit and male thread

### Steel bellows PN 16

- Multiple convolution bellows in various stainless steel grades
- One ply structure

Material grade *	Material No. as per DIN EN	Temperature**	Possible uses
Stainless steel	1.4541	-196 °C up to +550 °C	Low temperature, acids, lyes, gases, fertilizers
	1.4404, 1.4571	+550 °C	Media containing chloride, oil, soap, drinking water, food stuff, petrol

\* Check or inquire about the resistance of material grades to temperature and medium.  
\*\* Check or inquire about reduction in pressure by temperature.

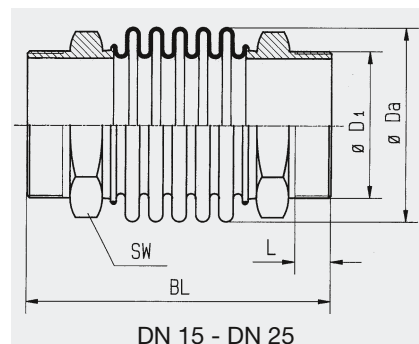
### Applications

- for compensating axial movement
- for reducing tension, in pipes and their system components, e.g.
  - pumps
  - compressors
  - motors
  - turbines
  - machines
- to compensate for installation inaccuracies
- for installation in
  - heating installations
  - drinking water systems
- for pipe systems of stainless or unalloyed steel
- for copper or plastic pipes
- for pressfitting systems

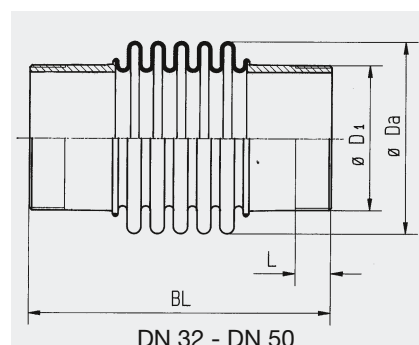
### Certificates

- CE (DGR 97/23/EC)

### Versions



DN 15 - DN 25



DN 32 - DN 50

Type SG-10

### Threaded connection parts

#### Version

- Male thread

#### Dimensions

Standard: R 1/2" – R 2" ISO 7-1 (DIN 2999)

#### Materials

Standard: 1.4541  
Others: stainless steel

### 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.

### Pressure rate **PN 16** standard program

DN	BL	$\Delta ax_{tot}$ Axial movement mm	$C_{ax}$ Axial spring rate N/mm	A* Effective bellows cross sectional area cm <sup>2</sup>	$\phi D_a$ Bellows outer $\phi$ mm	D1 Male thread $\phi$ inch	L Length of thread mm	SW Width across mm	Weight approx. kg
15	125	24	49	7	38	R 1/2"	13	32	0.2
20	130	24	49	7	38	R 3/4"	15	32	0.2
25	145	20	49	16	54	R 1"	17	46	0.5
32	185	20	49	16	54	R 1 1/4"	19	-	0.5
40	200	26	87	25	66	R 1 1/2"	19	-	0.8
50	225	34	87	35	78	R 2"	24	-	1.2

Table values refer to +20 °C, bellows material 1.4541, 1000 cycles. Max. allowable pressure pulsation of 1.6 bar (brief periods). Please inquire for deviating values.

\*Effective bellows cross sectional area is a theoretical value.