

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	Low temperature, acids, lyes, gases, fertilizers
	1.4404, 1.4571	up to +550 °C +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)

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.

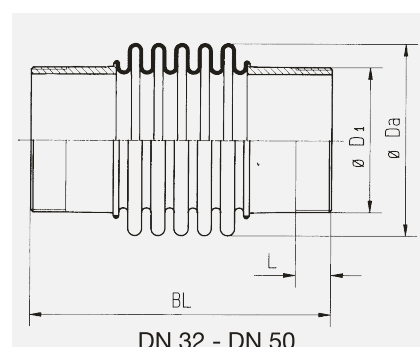
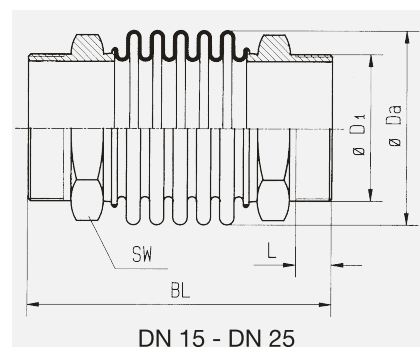
Pressure rate **PN 16** standard program

DN	BL	Δax_{tot} Axial movement mm	C_{ax} Axial spring rate N/mm	A^* Effective bellows cross sectional area cm ²	ϕD_a Bellows outer ϕ mm	D1 Male thread ϕ 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.

Versions



Type SG-10