

# STEEL EXPANSION JOINT TYPE SG-10

## AXIAL EXPANSION JOINT DN 15 – 50 MALE THREAD



### STRUCTURE TYPE SG-10 / STEEL BELLOWS PN 16

- Vacuum-proof axial expansion joint consisting of a stainless steel bellows and threaded connection parts
- Connection parts with hexagon insert bit and male thread
- Multiple convolution bellows in various stainless steel grades
- Single 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.

### VERSIONS / THREADED CONNECTION PARTS

- Male thread

	Standard	Others
Dimensions	R 1/2" - R 2" ISO 7-1 (DIN 2999)	on request
Materials	1.4541	stainless steel etc.

### PRESSURE RATE STANDARD PROGRAM PN 16

DN	BL	D <sub>ax tot</sub> ** Axial movement	C <sub>ax</sub> Axial spring rate	A* Effective bellows cross sectional area cm <sup>2</sup>	Ø D <sub>a</sub> Bellows outer Ø	Ø D <sub>1</sub> Male thread Ø	L Length of thread	SW Width across	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	67	25	66	R 1 1/2"	19	-	0.8
50	225	34	87	35	79	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.

\*\*This value represents the total possible movement. Example: Δ a<sub>tot</sub> = 28mm. This means that the expansion joint has a total movement value of 28 mm (= +/- 14 mm).

### NOTE

Please comply with the general technical instructions regarding reaction force, moving force, fixed point load, installation instructions, etc.

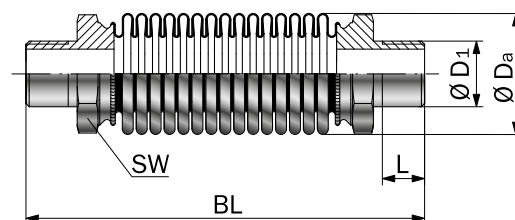
Subject to technical alterations and deviations resulting from the manufacturing process.

### APPLICATIONS

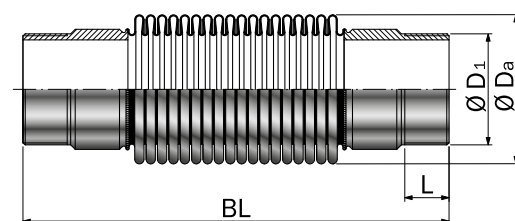
- for compensating axial movement
- for reducing tension, in pipes and their system components, e.g.
  - pumps
  - compressors
  - engines
  - turbines
  - machines
- to compensate for installation inaccuracies
- for installation in
  - heating installations
  - drinking water systems
- for pipe systems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

### CERTIFICATES

- CE (PED 2014/68/EU)



DN 15 – DN 25



DN 32 – DN 50

Type SG-10