Steel expansion joint ▪ Type SG-11

Axial expansion joint DN 15 – DN 50

Structure type SG-11

- ☐ Vacuum-proof axial expansion joint consisting of a stainless steel bellows and threaded connection parts
- ☐ Bellows with flared ends, connection parts with union nut and flat packing
- ☐ Connection parts with female 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.

Threaded connection parts

Version

- ☐ Female thread
- ☐ Union nut with female thread acc. ISO 228-1

Dimensions

Standard: Female thread Rp 1/2“ - Rp 2“ acc. ISO 7-1 (DIN 2999)

Materials

Standard: GJMW-400-5 (malleable casting)

Corrosion protection

Standard: electrogavanized

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.

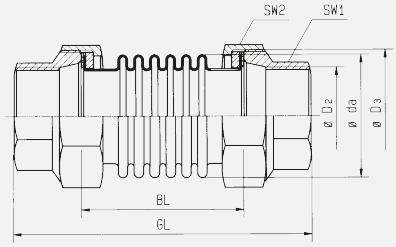
Applications

- **for compensating axial movement**
- **for reducing tension, in pipes and their system components, e.g.**
  - **pumps**
  - **compressors**
  - **motors**
  - **turbines**
  - **machines**
- **to compensate for installation inaccuracies**
- **for installation in**
  - **exhaust systems**
  - **heating installations**
- **gas supply lines**

Certificates

- ☐ CE (DGR 97/23/EG)
- ☐ DVGW (DN 25 -DN 50)

Version



Type SG-11

Pressure rate PN 16 standard program

DN	BL mm	GL mm	Δ ax_{tot} Axial movement mm	C_{ax} Axial spring rate N/mm	A* Effective bellows cross sectional area cm^2	ø D_a Bellows outer ø mm	ø D2 Female thread ø inch	ø D3 Union nut ø inch	SW 1 Width across mm	SW 2 Width across mm	Weight approx. kg
15	**130**	**185**	**24**	**28**	**5**	**36**	**Rp 1/2”**	**G 1”**	**25**	**38**	**0.5**
20	**135**	**190**	**24**	**30**	**7**	**36**	**Rp 3/4”**	**G 1 1/4”**	**31**	**47**	**0.8**
25	**150**	**212**	**26**	**49**	**16**	**54**	**Rp 1”**	**G 1 1/2”**	**38**	**53**	**0.9**
32	**158**	**224**	**30**	**111**	**25**	**66**	**Rp 1 1/4”**	**G 2”**	**48**	**66**	**1.3**
40	**154**	**226**	**30**	**111**	**25**	**66**	**Rp 1 1/2”**	**G 2 1/4”**	**53**	**73**	**1.7**
50	**161**	**245**	**36**	**177**	**35**	**79**	**Rp 2”**	**G 2 3/4”**	**66**	**90**	**2.6**

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.