Rubber expansion joint ▪ Type AG-5

Universal expansion joint DN 20 – DN 50

Structure type AG-5

☐ Universal expansion joint consisting of a rubber bellows with threaded ends

☐ Male or female thread

☐ Combination of female/male thread

Rubber bellows PN 16

☐ Highly elastic molded bellows in various rubber grades

☐ Synthetic fibre reinforcement

☐ Electrical impedance 10^3 to 10^6 Ohm (DIN IEC 93, VDE 0303-30)

Rubber grade*	Colour code	Possible uses
EPDM	**orange**	**Hot water, acids, lyes**
NBR	**red**	**Oil**
CIIR	**white**	**Drinking water**

*Check or inquire about the resistance of the rubber grade to temperature and medium.

Technical design	
Max. perm. operating pressure	**16 bar***
Max. perm. temperature	**+100 °C**
Bursting pressure	≥ **48 bar**

Max. operating pressure to be set 30 % lower for shock loads.
*Please consider a decrease of pressure due to temperature (see technical annex).

Dimensions standard program

DN	L_1 mm	L_2 mm	Pressure rate bar	ø di Bellows inner ø mm	ø W Convolution ø unpressurized mm	ø D_1 Male thread ø inch	ø D_2 Female thread ø inch	SW_1 Width across mm	SW_2 Width across mm
20	**200**	**172**	**16**	**20**	**60**	**R ³/₄**	**G 1**	**30**	**36**
25	**200**	**172**	**16**	**26**	**67**	**R 1**	**G 1¼**	**36**	**46**
32	**200**	**172**	**16**	**33**	**80**	**R 1¼**	**G 1½**	**46**	**55**
40	**200**	**172**	**16**	**40**	**87**	**R 1½**	**G 2**	**55**	**65**
50	**200**	**172**	**16**	**52**	**99**	**R 2**	**G 2½**	**65**	**80**

Threaded ends

Version

☐ Male thread acc. ISO 7-1 (DIN 2999).

☐ Union nut with female thread acc. ISO 228-1; flat sealing, suitable for drinking water

Materials

Standard: 1.4571

Certificates

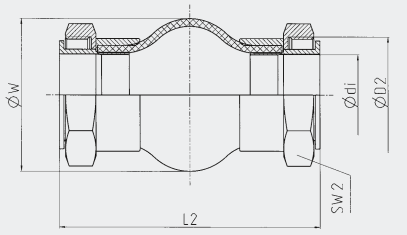
☐ CE (DGR 97/23/EC)

☐ Drinking water

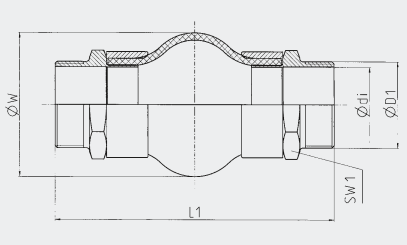
Applications

- **for reducing thermal and mechanical tension**
- **for muffling vibration and noise**
- **for compensating axial, lateral and angular movement**
- **to compensate for installation inaccuracies**
- **domestic industry**
- **for heating plants and hot water pipes**
- **in oil hydraulic systems**

Versions



Type AG-5 with female thread union nut with flat gasket



Type AG-5 with male thread

Movement compensation

DN	Δ ax Axial movement Compression - mm	Δ ax Axial movement Elongation + mm	Δ lat Lateral movement ± mm	Δ ang Angular movement ± ∢ Grad	Weight approx. kg
20	**30**	**10**	**10**	**25**	**0.5**
25	**30**	**10**	**10**	**25**	**0.6**
32	**35**	**10**	**15**	**25**	**0.8**
40	**35**	**10**	**15**	**25**	**1.1**
50	**35**	**10**	**15**	**22**	**1.3**

Please inquire for simultaneous (different) movement

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.