

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	L ₂	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 1 1/4	36	46
32	200	172	16	33	80	R 1 1/4	G 1 1/2	46	55
40	200	172	16	40	87	R 1 1/2	G 2	55	65
50	200	172	16	52	99	R 2	G 2 1/2	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

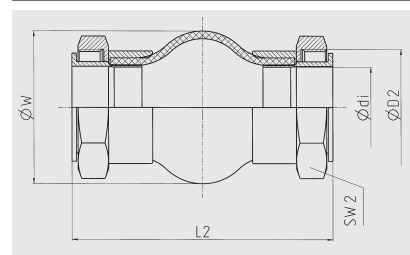
Certificates

- CE (DGR 97/23/EC)
- Drinking water

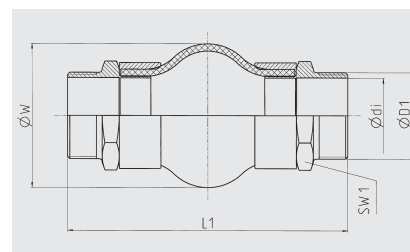
Applications

- 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		Δ lat Lateral movement	Δ ang Angular movement	Weight approx. kg
	Compression - mm	Elongation + mm	± mm	± ∠ Grad	
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.