

# RUBBER EXPANSION JOINT TYPE AG-5

## UNIVERSAL-EXPANSION JOINT DN 20 – DN 50



### STRUCTURE TYPE AG-5 / RUBBER BELLOWS PN 16

- Universal expansion joint consisting of a rubber bellows with threaded ends
- Male or female thread
- Combination of female/male thread
- 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)

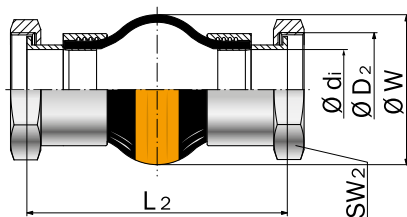
Rubber grade*	EPDM	NBR	CIIR
Colour code	orange	red	white
Possible uses	Hot water, acids, lyes	hydrocarbon containing liquids	Drinking water

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

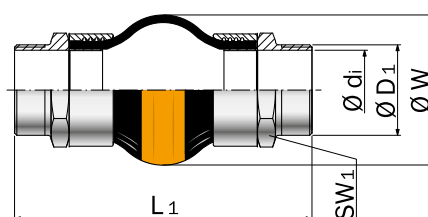
Technical design	
Max. perm. operating pressure	16 bar*
Max. perm. temperature	+100 °C
Bursting pressure	≥ 48 bar

Max. operating pressure to be set 30 % lower for shock loads.

\*Please consider a decrease of pressure due to temperature (see technical annex).



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



**Type AG-5** with male thread

### DIMENSIONS STANDARD PROGRAM

DN	L <sub>1</sub>	L <sub>2</sub>	Pressure rate	Ø di Bellows inner Ø	Ø W Convolution Ø unpressurized	Ø D <sub>1</sub> Male thread Ø	Ø D <sub>2</sub> Female thread Ø	SW <sub>1</sub> Width across	SW <sub>2</sub> Width across
	mm	mm	bar	mm	mm	inch	inch	mm	mm
20	200	172	16	20	60	R ¾"	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

### 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 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

### CERTIFICATES

- CE (PED 2014/68/EU)
- Drinking water

### THREADED ENDS/ VERSIONS

- 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

### MOVEMENT COMPENSATION

DN	Δ ax Axial movement		Δ lat Lateral movement	Δ ang Angular movement	Weight
	Compression - mm	Elongation + mm	± mm	± degrees	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