

EXPANSION JOINTS: ERV SERIES

ERV RED DN25-1000



LOGGERS



INTRODUCTION

Temperature variations, setting in foundations, vibrations, forces and deformations cause noise, movement and/or stress in pipeline systems. To ensure flawless operation of the system it is necessary to insert flexible parts to absorb the movements preventing structural damage.

Loggers' rubber expansion joints (also known as rubber compensators) neutralize the negative effects of these factors for pipeline systems that are exposed to chemicals and/or high pressures. The ERV series consists of a wide program of high quality rubber expansion joints for various applications that carry one or more approvals by certification authorities. For every situation Loggers has the appropriate qualified rubber expansion joints that, amongst others:

- Compensate movement and expansion
- Absorb stress in the system
- Reduce noise transmissions and vibration
- Compensate ground and foundation settling
- Compensate inaccurate assembly
- Serve as dismantling joints on fittings

The ERV series rubber expansion joints are used worldwide for various applications like chemical pipelines, fuel pipelines and (cooling) water pipelines.

ERV RED DN25-1000

The ERV Red rubber expansion joint is used for flexible connections in pipeline systems for hot water, drinking water (DVGW W270 and ACS certified), hot cooling water and hot waste water. This expansion joint is also suitable for use with additives such as weak acids, alkalis, salt solutions, technical alcohols, esters and ketones and a wide range of other chemicals. The ERV Red is not suitable for oil products. The flanges of the ERV Red are rotatable and standard available in DIN PN10 and PN16. The operating temperatures depend on the medium and ranges from -40 °C to +100 °C. The maximum working pressure is 16 bar or 10 bar for larger diameters.

CONSTRUCTION

- Seamless Butyl/EPDM inner wall, low diffusion
- PA-textile reinforced, butyl-coated bellows
- EPDM outer wall, ozone- and heatresistant
- Electrically conductive
- Rotatable flanges, galvanized steel

OPTIONS

- Most sizes available in different neutral lengths
- Flanges according to DIN PN6, PN25, PN40 or ASA 150 lbs
- Flanges in stainless steel or bronze
- Tie rods
- PTFE lining
- Vacuum support rings
- Fire protection cover

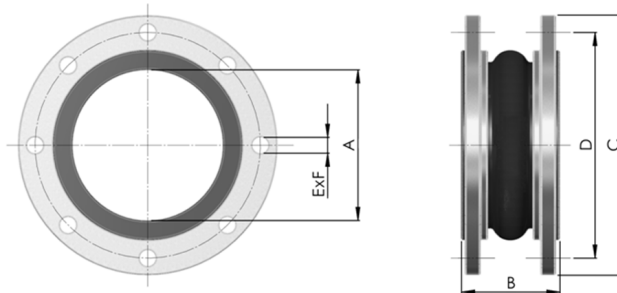
APPROVALS

Approved by ACS, Lloyd's Register, Bureau Veritas, Germanischer Lloyd, DVGW and Det Norske Veritas.

MOVEMENTS

The maximum movements for the ERV Red expansion joint stated below apply to the neutral length for operating temperatures up to +60 °C and are not in combination (no lateral/axial movements simultaneously). The permissible movements are reduced by 20% for temperatures between +60 °C and +70 °C and by 30% for temperatures between +70 °C and +90 °C. Use of the optional vacuum ring leads to a reduction of 50%.

Nominal diameter (mm)	Compression (mm)	Elongation (mm)	Lateral (mm)	Angular (degrees)
25-80	30	20	30	30
100-150	30	20	30	20
200	25	30	30	10
250-300	10	30	15	5
350-600	40	35	30	8
700	40	30	30	5
800	40	35	35	5
900-1000	40	40	40	5



TECHNICAL DATA

Article no.	Inside diameter A (mm)	Length B (mm)	Working pressure (bar)	Flange dimensions class	Outside diameter C (mm)	Pitch D (mm)	E x F (number x mm)
300040032	32	130	16	DIN PN10/16	140	100	4x18
300040040	40	130	16	DIN PN10/16	150	110	4x18
300040050	50	130	16	DIN PN10/16	165	125	4x18
300040065	65	130	16	DIN PN10/16	185	145	4x18
300040080	80	130	16	DIN PN10/16	200	160	8x18
300040100	100	130	16	DIN PN10/16	220	180	8x18
300040125	125	130	16	DIN PN10/16	250	210	8x18
300040150	150	130	16	DIN PN10/16	285	240	8x22
300040201	200	130	10	DIN PN10	340	295	8x22
300040200	200	130	16	DIN PN16	340	295	12x22
300040251	250	130	10	DIN PN10	395	350	12x22
300040250	250	130	16	DIN PN16	405	355	12x26
300040301	300	130	10	DIN PN10	445	400	12x22
300040300	300	130	16	DIN PN16	460	410	12x26
300040351	350	200	10	DIN PN10	505	460	16x22
300040401	400	200	10	DIN PN10	565	515	16x26
300040501	500	200	10	DIN PN10	670	620	20x26
300040601	600	200	10	DIN PN10	780	725	20x30
300040701	700	260	10	DIN PN10	895	840	24x30
300040801	800	260	10	DIN PN10	1015	950	24x33
300040901	900	300	10	DIN PN10	1115	1050	28x33
300040902	1000	300	10	DIN PN10	1230	1160	28x36

ABOUT LOGGERS

Loggers is **thought leader** and international recognized solution provider in the field of shock, vibration and noise control. With **excellent technical know-how** in combination with proven market knowledge and experience Loggers designs, develops and engineers **innovative solutions** for the most complex and challenging situations for leading clients worldwide for over 90 years.

Loggers understands all difficulties in the area of vibration, shock and noise control entirely.

We bring up the best and most cost effective solution for every challenge, regardless of its complexity. Loggers defines and engineers all deliverables necessary for solving your problem, ranging from standard to tailor-made solutions. Loggers' state-of-the-art portfolio contains all products and services to provide you with the optimal solution for relatively simple as well as the most complex challenges.

Products

- Vibration mounts
- Expansion joints
- Shock mounts

Services

- Assessment of current situation (on site)
- Analysis design including construction drawings
- Structural design and stress analysis
- Vibration measurement, calculation and analysis, if needed on site
- Solution definition based on:
 - standard products
 - customized products, or even
 - tailor-made new products, including prototyping
- Complete simulation of solution to ensure its effectiveness
- Testing including certification by independent certification authorities
- On site support during installation

Loggers understands both business and technology and brings both worlds together in satisfying customers' needs in rapidly changing environments. By working closely with clients Loggers enables them to realize their strategic targets through solving specific operational issues in the following market segments:

- Shipbuilding
- Dredging
- Defense
- Machinery
- Offshore
- Transportation



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