

EXPANSION JOINTS: ERV SERIES

ERV ROTEX DN25-1000



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 ROTEX DN25-1000

The ERV Rotex rubber expansion joint is used for flexible connections in pipeline systems for hot water, cooling water and hot air. This expansion joint is not suitable for use with drinking water, oil-contaminated cooling water, oil-contaminated air and the continuous transport of steam. The flanges of the ERV Rotex are rotatable and standard available in DIN PN10 and PN16. The operating temperature depends on the medium and ranges from -40 °C to +130 °C. The maximum working pressure is 10 bar up to 100 °C, 6 bar up to 110 °C.

CONSTRUCTION

- Durable EPDM inner wall, seamless, hot water resistant
- Polymer textile reinforced, hot water and hydrolysis-proof
- EPDM outer wall, ozone and heat resistant
- Electrically conductive
- Rotatable flanges, galvanized steel

OPTIONS

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

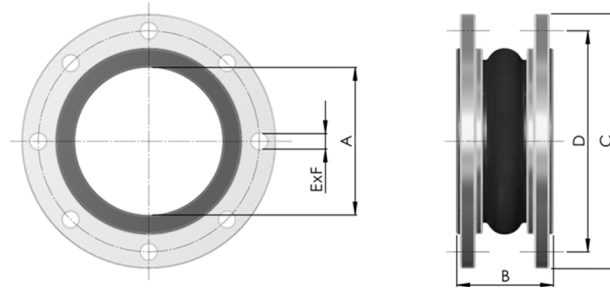
APPROVALS

Approved by Lloyd's Register, Germanischer Lloyd and TÜV-Süd.

MOVEMENTS

The maximum movements for the ERV Rotex expansion joint stated below apply to the neutral length for operating temperatures up to +70 °C and are not in combination (no lateral/axial movements simultaneously). The permissible movements are reduced by 25% for temperatures between +70 °C and +100 °C and by 50% for temperatures between +100 °C and +130 °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	25	10
250-300	15	30	25	5
350-600	40	25	25	8
700	40	30	25	5
800	50	20	25	5
900-1000	40	35	30	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)
300043025	25	130	16	DIN PN10/16	115	85	4x14
300043032	32	130	16	DIN PN10/16	140	100	4x18
300043040	40	130	16	DIN PN10/16	150	110	4x18
300043050	50	130	16	DIN PN10/16	165	125	4x18
300043065	65	130	16	DIN PN10/16	185	145	4x18
300043080	80	130	16	DIN PN10/16	200	160	8x18
300043100	100	130	16	DIN PN10/16	220	180	8x18
300043125	125	130	16	DIN PN10/16	250	210	8x18
300043150	150	130	16	DIN PN10/16	285	240	8x22
300043201	200	130	10	DIN PN10	340	295	8x22
300043200	200	130	16	DIN PN16	340	295	12x22
300043251	250	130	10	DIN PN10	395	350	12x22
300043250	250	130	16	DIN PN16	405	355	12x26
300043301	300	130	10	DIN PN10	445	400	12x22
300043300	300	130	16	DIN PN16	460	410	12x26
300043351	350	200	10	DIN PN10	505	460	16x22
300043401	400	200	10	DIN PN10	565	515	16x26
300043501	500	200	10	DIN PN10	670	620	20x26
300043601	600	200	10	DIN PN10	780	725	20x30
300043701	700	260	10	DIN PN10	895	840	24x30
300043801	800	260	10	DIN PN10	1015	950	24x33
300043901	900	300	10	DIN PN10	1115	1050	28x33
300043902	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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