

Weight ≈ kg	Effect. Area Q[cm ²]	Size DN		Bellow bar	Flanges ¹⁾ Measurements [mm]			Length [mm] BL	Part ¹⁾ Number Type
		inch	mm		D	k	n x l		
1,9	15	1"	25	16	115	85	4 x 14	130	ERV-R 25.16 ²⁾
3,4	15	1¼"	32		140	100	4 x 18	130	ERV-R 32.16
3,6					160	ERV-R 32x160.16			
4,0	20	1½"	40		150	110	4 x 18	130	ERV-R 40.16
4,2					160	ERV-R 40x160.16			
4,6	30	2"	50		165	125	4 x 18	130	ERV-R 50.16
4,7								150	ERV-R 50x150.16
4,8								160	ERV-R 50x160.16
5,3	50	2½"	65		185	145	4 x 18	130	ERV-R 65.16
5,4								150	ERV-R 65x150.16
5,5								160	ERV-R 65x160.16
6,9	85	3"	80		200	160	8 x 18	130	ERV-R 80.16
7,0								150	ERV-R 80x150.16
7,1								160	ERV-R 80x160.16
8,0	125	4"	100		220	180	8 x 18	130	ERV-R 100.16
8,1								150	ERV-R 100x150.16
8,2								160	ERV-R 100x160.16
9,9	185	5"	125		250	210	8 x 18	130	ERV-R 125.16
10,1								150	ERV-R 125x150.16
10,2								160	ERV-R 125x160.16
12,3	250	6"	150	285	240	8 x 22	130	ERV-R 150.16	
12,4							150	ERV-R 150x150.16	
12,5							160	ERV-R 150x160.16	
16,5	400	8"	200	340	295	8 x 22	130	ERV-R 200.10	
16,6							150	ERV-R 200x150.10	
16,7							160	ERV-R 200x160.10	
16,8							175	ERV-R 200x175.10	
21,6	600	10"	250	395	350	12 x 22	130	ERV-R 250.10	
21,9							175	ERV-R 250x175.10	
22,1							200	ERV-R 250x200.10	
29,3	800	12"	300	445	400	12 x 22	130	ERV-R 300.10	
29,8							200	ERV-R 300x200.10	
43,0	1000	14"	350	16	505	460	16 x 22	200	ERV-R 350.10
46,0	1375	16"	400		565	515	16 x 26	200	ERV-R 400.10
50,0	1780	18"	450	615	565	20 x 26	200	ERV-R 450.10	
53,0							250	ERV-R 450x250.10	
57,0	2185	20"	500	10	670	620	20 x 26	200	ERV-R 500.10
70,0	3080	24"	600		780	725	20 x 30	200	ERV-R 600.10
117,0	4800	28"	700	895	840	24 x 30	260	ERV-R 700.10	
129,5	5440	32"	800	1015	950	24 x 33	250	ERV-R 800.10	
184,0	7100	36"	900	1115	1050	28 x 33	300	ERV-R 900.10	
245,0	8700	40"	1000	1230	1160	28 x 36	300	ERV-R 1000.10	

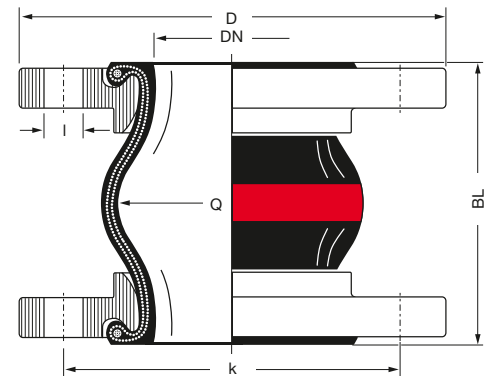
Type
ERV-R



RED BAND expansion joints for water, drinking water (approval DVGW W 270 as well as ACS, conform to FDA), cold and warm waste water, seawater, cooling water, also with chemical additives for water treatment, low concentrated acids and alkalis, salt solutions, technical alcohols, esters and ketones. Can be used in oily atmospheric environments, e.g. engine rooms. Temperature range (depending on medium) - 40°C up to +100°C, temporarily up to +120°C. Electrically dissipative.

Not suitable for all kinds of mineral oil products, cooling water with added oil containing corrosion preventatives, oily compressor air.

Liner : Butyl (IIR)/EPDM, seamless, low permeation
 Reinforcement : PA textile cord, Butyl rubberized
 Cover : EPDM, ozone proof, heat resistant
 Marking : Red band, ERV DN .., PN .., production date
 Flanges¹⁾ : Swivelling, DIN PN 10/16, carbon steel, zinc plated



¹⁾ Examples. Other flange standards and materials see catalogue pages 461 – 464.

²⁾ For rubber expansion joints DN 25 bellows DN 32 are used.

• Range of Movement Type ERV-R

ERV-R		Allowable static range of movement in service with usage of collar flanges up to +50°C *)					
Length BL [mm]	Bellow Size DN [mm]	Installation Length		axial		lateral	angular
		EL min. [mm]	EL max. [mm]	L min. [mm]	L max. [mm]	l [mm]	α
130	25 – 80	120	135	100	150	± 30	± 30
	100 – 150	120	135	100	150	± 30	± 20
	200	115	140	105	160	± 30	± 10
	250 – 300	125	140	120	160	± 15	± 5
150	50 – 200	140	160	115	180	± 30	± 15
160	32 – 200	150	170	130	195	± 35	± 15
175	200	165	185	160	210	± 15	± 5
	250	165	185	160	210	± 10	± 5
200	250 – 300	190	210	160	235	± 30	± 10
	350 – 600	190	210	160	235	± 30	± 8
250	450	240	260	210	285	± 35	± 10
	800	240	260	210	285	± 35	± 5
260	700	250	270	220	290	± 30	± 5
300	900 – 1000	290	310	260	340	± 40	± 5

*) Please note: Data not valid for combined movements. For calculation hints see page 475. Please contact our sales team.

• Permissible Vacuum [mbar]

	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000
without VSD / VSR	max.	max.	max.	-700	-600	-400	-300	-300	-300	-200	-100									
with VSD			max.	max.	max.	max.	max.	max.	-600	-400	-200									
with VSR							max.	max.	max.	max.	max.	max.	max.	-700	-700	-700				
with VSRV														max.	max.	max.	max.	-700	-700	-700

Data measured at room temperature with new expansion joints in standard length and non swelling media. For swelling media use a safety factor. A compressed installation improves the vacuum resistance listed in the table above. The maximum permissible elongation (L max.) reduces the vacuum resistance by 50%. For this case we recommend to use vacuum support spirals or vacuum support rings (see catalogue page 468).

Dependencies of overpressure, range of movement and temperature please see table on catalogue page 404.

• Approvals

These certificates for type ERV-R can be downloaded from elaflex.de/en/certificates



/ Overview of all certificates on catalogue page 472