

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-GR 25.16 ²⁾
3,4	15	1 ¼"	32		140	100	4 x 18		ERV-GR 32.16
4,0	20	1 ½"	40		150	110			ERV-GR 40.16
4,6	30	2"	50		165	125			ERV-GR 50.16
5,3	50	2 ½"	65		185	145			ERV-GR 65.16
6,9	85	3"	80		200	160	8 x 18		ERV-GR 80.16
8,0	125	4"	100		220	180			ERV-GR 100.16
9,9	185	5"	125		250	210	8 x 22		ERV-GR 125.16
12,3	250	6"	150		285	240			ERV-GR 150.16
16,5	400	8"	200		340	295			ERV-GR 200.10
21,6	600	10"	250	395	350	ERV-GR 250.10			
29,3	800	12"	300	10	445	400	12 x 22	ERV-GR 300.10	
43,0	1000	14"	350		505	460	16 x 22	200	ERV-GR 350.10
46,0	1375	16"	400		565	515	16 x 26		ERV-GR 400.10
50,0	1780	18"	450		615	565	20 x 26	200	ERV-GR 450.10
53,0				250				ERV-GR 450x250.10	
57,0	2185	20"	500	10	670	620	20 x 26	200	ERV-GR 500.10
70,0	3080	24"	600		780	725	20 x 30		ERV-GR 600.10
117,0	4800	28"	700		895	840	24 x 30	260	ERV-GR 700.10



**Type
ERV-GR**

GREEN BAND expansion joints for chemicals, acids, alkalis and aggressive chemical waste water. For oil-contaminated compressed air up to +90°C. Temperature range (depending on medium) -20°C up to +100°C, temporarily up to +110°C. Electrically non-conductive.

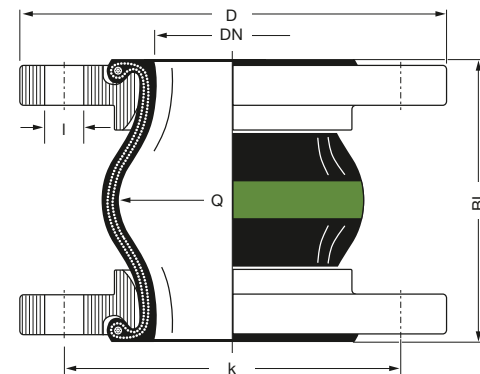
Liner : CSM, seamless, abrasion resistant

Reinforcement : PA textile cord

Cover : CSM

Marking : Green band, ERV DN ..., PN ..., production date

Flanges¹⁾ : Swivelling, 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-GR**

ERV-GR		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
200	350 – 600	190	210	160	235	± 30	± 8
250	450	240	260	205	285	± 35	± 10
260	700	250	270	220	290	± 30	± 5

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

• **Permissible Vacuum [mbar]**

DN	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.				

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-GR** can be downloaded from elaflex.de/en/certificates



/ Overview of all certificates on catalogue page 472