

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-BR 25.16 ²⁾
3,4	15	1¼"	32		140	100	4 x 18	130	ERV-BR 32.16
4,0	20	1½"	40		150	110	4 x 18	130	ERV-BR 40.16
4,6	30	2"	50		165	125	4 x 18	130	ERV-BR 50.16
5,3	50	2½"	65		185	145	4 x 18	130	ERV-BR 65.16
6,9	85	3"	80		200	160	8 x 18	130	ERV-BR 80.16
8,0	125	4"	100		220	180	8 x 18	130	ERV-BR 100.16
9,9	185	5"	125		250	210	8 x 18	130	ERV-BR 125.16
12,3	250	6"	150		285	240	8 x 22	130	ERV-BR 150.16
16,5	400	8"	200		340	295	8 x 22	130	ERV-BR 200.10
21,6	600	10"	250		395	350	12 x 22	130	ERV-BR 250.10
29,3	800	12"	300		445	400	12 x 22	130	ERV-BR 300.10

· Larger dimensions available on request



**Type
ERV-BR**

BR Expansion Joints, special type for abrasive media such as sludges, slurries, solid/liquid mixtures and emulsions, dustlike or powdery products (e.g. carbon-blacks).

Also suitable for all kinds of water (non oil containing) as well as various chemicals. Not suitable for petroleum based products. For extreme strain (e.g. sharp and rough-edged matter) we suggest the use of ERV with inner protection sleeve type SR, see page 467.

Temperature range (depending on medium) -50°C up to +70°C, temporarily up to +90°C. Electrically dissipative.

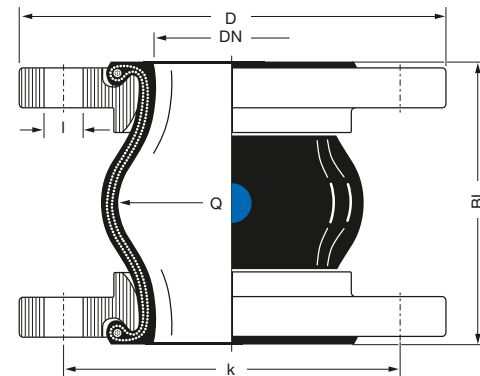
Liner : BR/NR, seamless, high abrasion resistant

Reinforcement : Polyester textile cord

Cover : BR/NR

Marking : Blue spot, ERV DN ..., PN 16, production date

Flanges ¹⁾ : 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-BR**

ERV-BR		Installation Length		Allowable static range of movement in service with usage of collar flanges up to +50°C *)			
		EL min. [mm]	EL max. [mm]	L min. [mm]	L max. [mm]	l [mm]	∠
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]	∠
130	32 – 80	120	135	100	150	± 30	± 25
	100 – 150	120	135	100	150	± 30	± 15
	200	115	140	110	155	± 30	± 5
	250 – 300	125	140	120	155	± 15	± 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.									

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



/ Overview of all certificates on catalogue page 472