

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		
1,8	15	1"	25	10	115	85	4 x 14	130	ERP 25.10 ²⁾
3,3	15	1¼"	32		140	100	4 x 18		ERP 32.10
3,9	20	1½"	40		150	110	4 x 18		ERP 40.10
4,5	30	2"	50		165	125	4 x 18		ERP 50.10
5,2	50	2½"	65		185	145	4 x 18		ERP 65.10
6,8	85	3"	80		200	160	8 x 18		ERP 80.10
7,9	125	4"	100		220	180	8 x 18		ERP 100.10
9,8	185	5"	125		250	210	8 x 18		ERP 125.10
12,2	250	6"	150		285	240	8 x 22		ERP 150.10



**Type
ERP**

RED SPOT expansion joints for sanitary installations, cold and warm water, pool water, sea water, drinking water. Highly flexible and low own resistance. Temperature range (depending on medium) -40°C up to +90°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, for permanent working pressure > 10 bar.

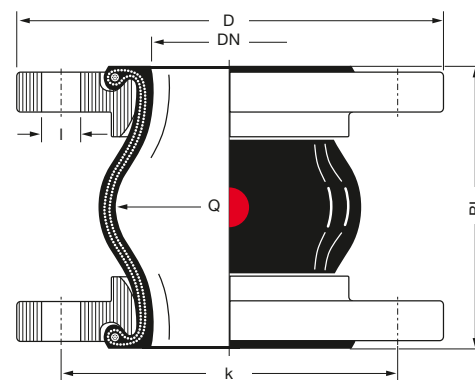
Liner : Butyl (IIR)/EPDM, seamless

Reinforcement : PA textile cord

Cover : EPDM

Marking : Red spot, ERV DN ..., PN 10, production date

Flanges¹⁾ : Swivelling, DIN PN 10 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 ERP

ERP		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

*) **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	500	600	700	800	900	1000
without VSD/VSR	-300	-300	-300	-300	-200	-200	-200	-100											
with VSD			-500	-500	-400	-400	-400	-300											
with VSR							-500	-400											

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 **ERP** can be downloaded from elaflex.de/en/certificates



/ Overview of all certificates on catalogue page 472