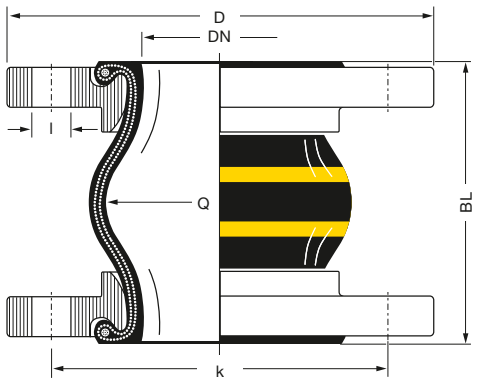
Weight ≈ kg	Effect. Area Q[cm²]	Size DN inch	Size DN mm	Bellow bar	Flanges [1] Measurements [mm] D	k	n x l	Length [mm] BL	Part [1] Number Type
2,0	10	1"	25		115	85	4 x 14		ERV-GS 25.16 [2]
3,5	15	1¼"	32		140	100			ERV-GS 32.16
4,0	20	1½"	40		150	110	4 x 18	130	ERV-GS 40.16
5,0	30	2"	50		165	125			ERV-GS 50.16
5,5	50	2½"	65		185	145			ERV-GS 65.16
7,1	85	3"	80		200	160		130	ERV-GS 80.16
7,2								150	ERV-GS 80x150.16
8,3	125	4"	100		220	180	8 x 18	130	ERV-GS 100.16
8,4								150	ERV-GS 100x150.16
10,1	185	5"	125		250	210		130	ERV-GS 125.16
10,2				16				150	ERV-GS 125x150.16
12,6	250	6"	150		285	240		130	ERV-GS 150.16
12,7							8 x 22	150	ERV-GS 150x150.16
16,9	400	8"	200		340	295		130	ERV-GS 200.10
17,2								175	ERV-GS 200x175.10
22,3	600	10"	250		395	350		130	ERV-GS 250.10
22,6							12 x 22	175	ERV-GS 250x175.10
29,9	800	12"	300		445	400		130	ERV-GS 300.10
30,4								200	ERV-GS 300x200.10
44,0	1000	14"	350		505	460	16 x 22		ERV-GS 350.10
47,5	1375	16"	400		565	515	16 x 26		ERV-GS 400.10
51,0	1780	18"	450		615	565	20 x 26	200	ERV-GS 450.10
54,0				10				250	ERV-GS 450x250.10
57,5	2185	20"	500		670	620	20 x 26	200	ERV-GS 500.10
70,0	3080	24"	600		780	725	20 x 30		ERV-GS 600.10

Type ERV-GS

YELLOW STEEL *expansion joints for petroleum based products, DIN EN fuels up to 50 % aromatic content, cooling water with oily anticorrosion additives, lubrication and hydraulic oil, seawater. Temperature (depending on medium) range -20°C up to +90°C, temporarily up to +100°C. Fire resistant (to ISO 15540) up to 30 min. at 800°C. Electrically dissipative.*

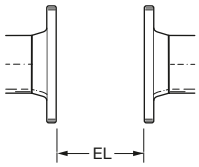
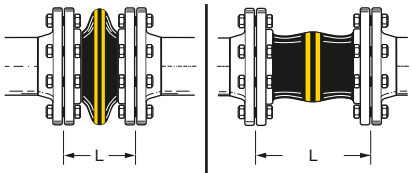
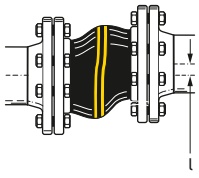
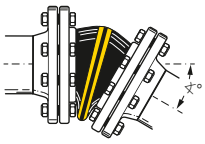
Liner	*: NBR (nitrile), seamless, abrasion resistant*
Reinforcement	*: Steel wire cord*
Cover	*: Chloroprene CR*
Marking	*: Two yellow bands, ERV DN .., PN .., production date*
Flanges [1]	*: Swivelling, DIN PN 10/16, carbon steel, zinc plated*



[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-GS

ERV-GS				Allowable static range of movement in service with usage of collar flanges up to +60°C *)			
							
				axial		lateral	angular
Length **BL** [mm]	*Bellow Size* **DN** [mm]	*Installation Length* **EL** min. [mm]	**EL** max. [mm]	**L** min. [mm]	**L** max. [mm]	l [mm]	∢
130	25 – 80	120	135	100	145	±15	±20
	100 – 150	120	135	100	145	±15	±15
	200 – 300	125	140	115	150	±10	±15
150	80 – 150	140	160	115	170	±15	±15
175	200 – 250	165	185	150	195	±15	±15
200	300 – 350	190	210	170	230	±25	±10
	400 – 600	190	210	160	230	±25	±15
250	450	240	260	210	280	±30	±15

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

· Permissable Vacuum [mbar]

DN	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000
ohne / *without* VSD / VSR	max.	max.	max.	max.	-900	-800	-700	-700	-700	-700	-600	-400	-400	-300	-300	-200				
mit / *with* VSD			max.	max.	max.	max.	max.	max.	max.	max.	-800									
mit / *with* VSR							max.	max.	max.	max.	max.	max.	max.	-900	-800	-700				
mit / *with* VSRV															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 maxium permittable elongation (L max.) reduces the vaccum resistance by 50 %. For this case we recommend to use vacuum support spirals or vaccum 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-GS** can be downloaded from elaflex.de/en/certificates*

/ Overview of all certificates on catalogue page 472