



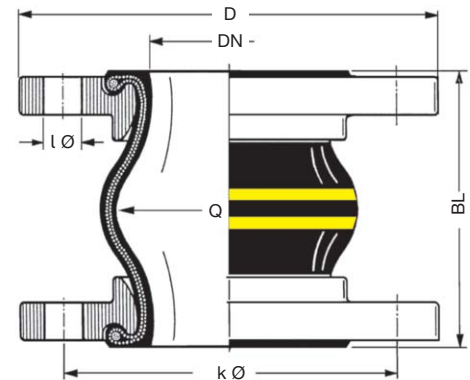
Section 1	Weight App. ≈ kg	Effect. Area Q:cm <sup>2</sup>	Bellow Size DN		Press. Nom. bar	Flange 1) Measurements mm			Length BL mm	Part Number Type						
			in.	mm		D	k Ø	l x Ø								
	2,0	10	1"	<b>25</b>	16	115	85	4 x 14	130	ERV-GS 25.16 <sup>2)</sup>						
	3,5	15	1 1/4"	<b>32</b>		140	100	4 x 18		ERV-GS 32.16						
	4,0	20	1 1/2"	<b>40</b>		150	110			ERV-GS 40.16						
	5,0	30	2"	<b>50</b>		165	125			ERV-GS 50.16						
	5,5	50	2 1/2"	<b>65</b>		185	145			ERV-GS 65.16						
	7,1	85	3"	<b>80</b>		200	160	8 x 18	130	ERV-GS 80.16						
	7,2									150	ERV-GS 80x150.16					
	8,3	125	4"	<b>100</b>		220	180		130	ERV-GS 100.16						
	8,4									150	ERV-GS 100x150.16					
	10,1	185	5"	<b>125</b>		250	210		130	ERV-GS 125.16						
	10,2									150	ERV-GS 125x150.16					
	12,6	250	6"	<b>150</b>		285	240		8 x 22	130	ERV-GS 150.16					
	12,7										150	ERV-GS 150x150.16				
	16,9									400	8"	<b>200</b>	340	295	130	ERV-GS 200.10
	17,2															175
	22,3	600	10"	<b>250</b>		395	350	12 x 22	130	ERV-GS 250.10						
	22,6									175	ERV-GS 250x175.10					
	29,9	800	12"	<b>300</b>		445	400	200	130	ERV-GS 300.10						
	30,4									200	ERV-GS 300x200.10					
	44,0	1000	14"	<b>350</b>		505	460	16 x 22	200	ERV-GS 350.10						
	47,5	1375	16"	<b>400</b>	565	515	16 x 26			ERV-GS 400.10						
	57,5	2185	20"	<b>500</b>	670	620	20 x 26			ERV-GS 500.10						
	70,0	3080	24"	<b>600</b>	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 up to 30 min. and 800°C. Electrically conductive.

- Liner : NBR (nitrile), seamless, abrasion resistant
- Reinforcement : Steel wire cord
- Cover : Chloroprene CR
- Marking : 2 yellow bands, ERV DN ..., PN ..., production date
- Flanges <sup>1)</sup> : Swiveling, DIN PN 10/16, carbon steel, zinc plated



1) Examples. - Other flange standards and materials see catalogue pages 1-31/3.

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

## Range of Movement Type ERV-GS

*Allowable static range of movement in service with usage of collar flanges up to 60° C*

Length <b>BL</b> [mm]	Bellow Size <b>DN</b> [mm]	Installation Length		axial		lateral	angular
		<b>EL</b> min. [mm]	<b>EL</b> max. [mm]	<b>L</b> min. [mm]	<b>L</b> max. [mm]	<b>l</b> [mm]	$\alpha$
130	25 - 80	120	135	100	145	± 15	± 20
	100 - 150	120	135	100	145	± 15	± 15
	200 - 300	125	140	115	150	± 10	± 5
150	80 - 150	140	160	115	170	± 15	± 15
175	200 - 250	165	185	150	195	± 15	± 5
200	300 - 350	190	210	160	230	± 25	± 10
	400 - 600	190	210	160	230	± 25	± 5

### 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	max.	max.	max.	max.	max.	-800	-700	-700	-700	-700	-600	-400	-400	-300	-200				
with VSD			max.	max.	max.	max.	max.	max.	-600	-400	-200								
with VSR							max.	max.	max.	max.	max.	max.	max.	-800	-700				
with VSRV														max.	max.				

Data measured at room temperature with new expansion joints and non swelling media. For swelling media use a safety factor. A compressed installation improves the in the table listed vacuum resistance. 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 1-36).

Dependencies of overpressure, range of movement and temperature please see table on catalogue page 1-6.

### Approvals

These certificates for type ERV-GS can be downloaded from [www.flexej.co.uk](http://www.flexej.co.uk)



Overview of all certificates on catalogue page 1-2