

## Elaflex Yellow Band / ERV-G

### Specification

For petroleum based products with aromatic content up to 50%, fuels (ethanol content up to 85%), aviation fuels, town gas and natural gas except liquefied petroleum gas.

### Materials

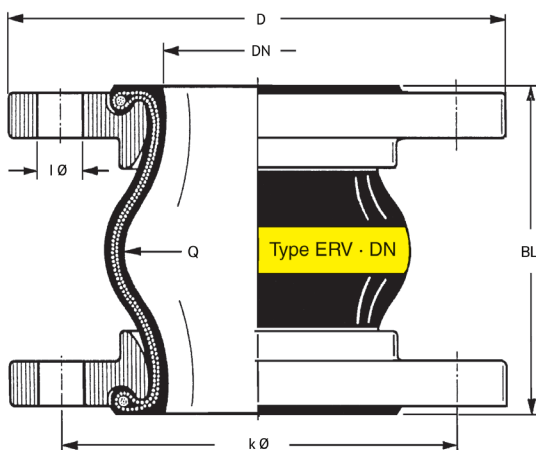
- Liner NBR (nitrile), seamless, abrasion resistant
- Reinforcement PA textile cord
- Cover Chloroprene CR
- Marking Yellow band, ERV DN..., PN ..., production date
- Flanges♦ Swivelling, DIN PN 10/16, carbon steel, zinc plated

### Operating conditions

Temperature range (depending on medium)  
-20°C up to +90°C, temporarily up to +100°C.  
Electrically dissipative.

### Notes

- ♦ Table shows PN10/16 flanges – many other flange types are available
  - \* For rubber expansion joints DN 25 bellows DN 32 are used
- Specifications subject to change without notice © ELAFLEX



Product by FlexEJ Ltd

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Bellows size DN	Length BL		PN	Weight approx. kg	Effect. area Q:cm <sup>2</sup>	Flange measurements mm ♦			Part number *
	in.	mm				D	k Ø	l x Ø	
1"	25	130	16	1.9	15	115	85	4 x 14	ERV-G 25.16*
1¼"	32	130	16	3.4	15	140	100	4 x 18	ERV-G 32.16
1¼"	32	160	16	3.6	15	140	100	4 x 18	ERV-G 32x160.16
1½"	40	130	16	4.0	20	150	110	4 x 18	ERV-G 40.16
1½"	40	160	16	4.2	20	150	110	4 x 18	ERV-G 40x160.16
2"	50	130	16	4.6	30	165	125	4 x 18	ERV-G 50.16
2"	50	150	16	4.7	30	165	125	4 x 18	ERV-G 50x150.16
2"	50	160	16	4.8	30	165	125	4 x 18	ERV-G 50x160.16
2½"	65	130	16	5.3	50	185	145	4 x 18	ERV-G 65.16
2½"	65	150	16	5.4	50	185	145	4 x 18	ERV-G 65x150.16
2½"	65	160	16	5.5	50	185	145	4 x 18	ERV-G 65x160.16
3"	80	130	16	6.9	85	200	160	8 x 18	ERV-G 80.16
3"	80	150	16	7.0	85	200	160	8 x 18	ERV-G 80x150.16
3"	80	160	16	7.1	85	200	160	8 x 18	ERV-G 80x160.16
4"	100	130	16	8.0	125	220	180	8 x 18	ERV-G 100.16
4"	100	150	16	8.1	125	220	180	8 x 18	ERV-G 100x150.16
4"	100	160	16	8.2	125	220	180	8 x 18	ERV-G 100x160.16
5"	125	130	16	9.9	185	250	210	8 x 18	ERV-G 125.16
5"	125	150	16	10.1	185	250	210	8 x 18	ERV-G 125x150.16
5"	125	160	16	10.2	185	250	210	8 x 18	ERV-G 125x160.16
6"	150	130	16	12.3	250	285	240	8 x 22	ERV-G 150.16
6"	150	150	16	12.4	250	285	240	8 x 22	ERV-G 150x150.16
6"	150	160	16	12.5	250	285	240	8 x 22	ERV-G 150x160.16
8"	200	130	16	16.5	400	340	295	8 x 22	ERV-G 200.10
8"	200	150	16	16.6	400	340	295	8 x 22	ERV-G 200x150.10
8"	200	160	16	16.7	400	340	295	8 x 22	ERV-G 200x160.10
8"	200	175	16	16.8	400	340	295	8 x 22	ERV-G 200x175.10
10"	250	130	16	21.6	600	395	350	12 x 22	ERV-G 250.10
10"	250	175	16	21.9	600	395	350	12 x 22	ERV-G 250x175.10
10"	250	200	10	22.1	600	395	350	12 x 22	ERV-G 250x200.10
12"	300	130	16	29.3	800	445	400	12 x 22	ERV-G 300.10
12"	300	200	10	29.8	800	445	400	12 x 22	ERV-G 300x200.10
14"	350	200	16	43.0	1000	505	460	16 x 22	ERV-G 350.10
16"	400	200	16	46.0	1375	565	515	16 x 26	ERV-G 400.10
18"	450	200	10	50.0	1780	615	565	20 x 26	ERV-G 450.10
18"	450	250	10	53.0	1780	615	565	20 x 26	ERV-G 450x250.10
20"	500	200	10	57.0	2185	670	620	20 x 26	ERV-G 500.10
24"	600	200	10	70.0	3080	780	725	20 x 30	ERV-G 600.10
28"	700	260	10	117.0	4800	895	840	24 x 30	ERV-G 700.10
32"	800	250	10	129.5	5440	1015	950	24 x 33	ERV-G 800.10
36"	900	300	10	184.0	7100	1115	1050	28 x 33	ERV-G 900.10
40"	1000	300	10	245.0	8700	1230	1160	28 x 36	ERV-G 1000.10

# Elaflex Yellow Band / ERV-G

## Range of movement

ERV-G									
Length	Bellow size	Installation length		Axial*		Lateral*	Angular*		
BL	DN	EL min.	EL max.	L min.	L max.	l	°		
mm	mm	mm	mm	mm	mm	mm	degree		
130	25-80	120	135	100	150	±30	±30		
130	100-150	120	135	100	150	±30	±20		
130	200	115	140	105	160	±30	±10		
130	250-300	125	140	120	160	±15	± 5		
150	50-200	140	160	115	180	±30	±15		
160	32-200	150	170	130	195	±35	±15		
175	200-250	165	185	160	210	±10	± 5		
200	250-300	190	210	160	235	±30	±10		
200	350-600	190	210	160	235	±30	± 8		
250	450	240	260	210	285	±35	±10		
250	800	240	260	210	285	±35	± 5		
260	700	250	270	220	290	±30	± 5		
300	900-1000	290	310	260	340	±40	± 5		

\* Allowable static range of movement in service with usage of collar flanges up to 50°C  
Please note: Data not valid for *combined* movements

### 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.	max.	-700	-700	-700

Data measured at room temperature with new expansion joints of standard length and non swelling media. For swelling media use a safety factor. A compressed installation improves the table listed vacuum resistance. The maximum permissible elongation (L max.) reduces the vacuum resistance by 50%.

In this case we recommend using vacuum support spirals or vacuum support rings (see page 41).

For dependencies of overpressure, range of movement and temperature please see table on page 8.

### Approvals

These certificates can be obtained from sales@flexej.co.uk  
There is an overview of all certificates on page 47

