



Section 1	Weight App. ≈ kg	Effect. Area Q:cm2	Bellows Size DN		Press. Nom. bar	Flange 1) Measurements mm			Length BL mm	Part Number Type	
			in.	mm		D	k Ø	l x Ø			
	1,9	15	1"	25	16	115	85	4 x 14	130	ERV-G 25.16 ²⁾	
	3,4	15	1 1/4"	32		140	100	4 x 18	130	ERV-G 32.16	
	3,6					160	ERV-G 32x160.16				
	4,0	20	1 1/2"	40		150	110		130	ERV-G 40.16	
	4,2								160	ERV-G 40x160.16	
	4,6								130	ERV-G 50.16	
	4,7	30	2"	50		165	125		150	ERV-G 50x150.16	
	4,8								160	ERV-G 50x160.16	
	5,3								130	ERV-G 65.16	
	5,4	50	2 1/2"	65		185	145		150	ERV-G 65x150.16	
	5,5								160	ERV-G 65x160.16	
	6,9							130	ERV-G 80.16		
	7,0	85	3"	80		200	160	150	ERV-G 80x150.16		
	7,1							160	ERV-G 80x160.16		
	8,0							130	ERV-G 100.16		
	8,1	125	4"	100		220	180	8 x 18	150	ERV-G 100x150.16	
	8,2								160	ERV-G 100x160.10	
	9,9							130	ERV-G 125.16		
	10,1	185	5"	125		250	210	150	ERV-G 125x150.16		
	10,2							160	ERV-G 125x160.16		
	12,3				130			ERV-G 150.16			
	12,4	250	6"	150	285	240	8 x 22	150	ERV-G 150x150.16		
	12,5							160	ERV-G 150x160.16		
	16,5							130	ERV-G 200.10		
	16,6	400	8"	200	340	295		150	ERV-G 200x150.10		
	16,7							160	ERV-G 200x160.10		
	16,8							175	ERV-G 200x175.10		
	21,6	600	10"	250	395	350	12 x 22	130	ERV-G 250.10		
	21,9							175	ERV-G 250x175.10		
	22,1							200	ERV-G 250x200.10		
	29,3	800	12"	300	445	400	130	ERV-G 300.10			
	29,8						200	ERV-G 300x200.10			
	43,0	1000	14"	350	16	505	460	16 x 22	200	ERV-G 350.10	
	46,0	1375	16"	400		565	515	16 x 26	ERV-G 400.10		
	57,0	2185	20"	500		670	620	20 x 26	ERV-G 500.10		
	70,0	3080	24"	600		780	725	20 x 30	ERV-G 600.10		
	117,0	4800	28"	700		10	895	840	24 x 30	275	ERV-G 700.10
	129,5	5440	32"	800			1015	950	24 x 33	250	ERV-G 800.10
	184,0	7100	36"	900			1115	1050	28 x 33	300	ERV-G 900.10
	245,0	8700	40"	1000			1230	1160	28 x 36	ERV-G 1000.10	

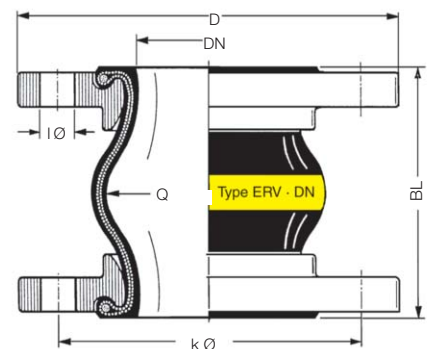
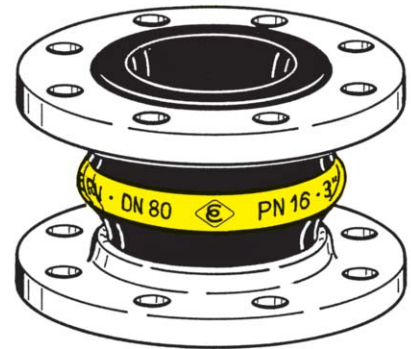
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Type ERV-G



YELLOW BAND expansion joints in High-Tech design suitable for petroleum based products, fuel ethanol blend e.g. E 85 and DIN EN fuels up to 50% aromatic content, also town gas and natural gas, except for LP gas. Temperature (depending on medium) range -20°C up to +90°C, temporarily up to +100°C. Electrically conductive.

- Lining : NBR (nitrile), seamless, abrasion resistant
- Reinforcement : PA textile cord
- Cover : Chloroprene CR
- Marking : Yellow band, ERV DN., PN ..., production date
- Flanges 1) : Swiveling, DIN PN




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-G

Allowable static range of movement in service with usage of collar flanges up to 50° C

ERV-G		Installation Length		axial		lateral	angular
		EL min. [mm]	EL max. [mm]	L min. [mm]	L max. [mm]	I [mm]	
Length BL [mm]	Bellow Size DN [mm]						
130	25 - 80	120	135	100	150	± 30	± 30
	100 - 150	120	135	100	150	± 30	± 20
	200	115	140	105	160	± 30	± 10
	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
	350 - 600	190	210	160	235	± 30	± 8
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

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.	-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				
with VSRV														max.	max.	max.	-700	-700	-700

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-G can be downloaded from www.flexej.co.uk



Overview of all certificates on catalogue page 1-2