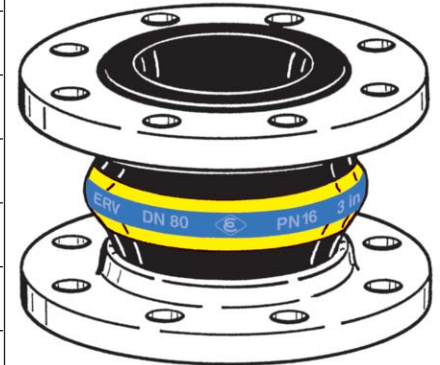




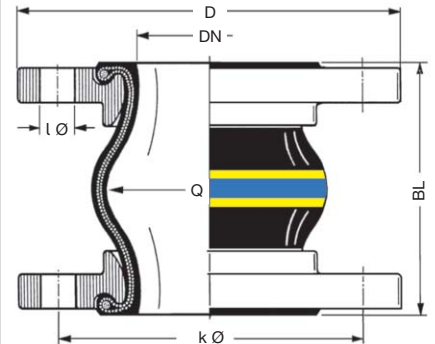
Section 1	Weight ≈ kg	Effect. Area Q [cm ²]	Size DN		Press bar	Flanges ¹⁾ Measurements [mm]			Length mm BL	Part ¹⁾ Number Type
			in.	mm		D	k Ø	l x Ø		
	2,0	10	1"	25	16	115	85	4 x 14	130	ERV-GS HNBR 25.16 ²⁾
	3,5	15	1 1/4"	32		140	100	4 x 18		ERV-GS HNBR 32.16
	4,0	20	1 1/2"	40		150	110			ERV-GS HNBR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

Type ERV-GS HNBR



YELLOW STEEL HNBR 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. Very good aging, weathering and ozone resistance. Temperature (depending on medium) range -35°C up to +100°C, temporarily up to +120°C. Electrically conductive.

- Liner : HNBR (nitrile), seamless, high abrasion resistance
- Reinforcement : Steel wire cord
- Cover : Chloroprene CR
- Marking : Yellow-blue-yellow bands, ERV DN ..., PN ..., production date
- Flanges ¹⁾ : 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 HNBR

ERV-GS HNBR		Installation Length		Allowable static range of movement in service with usage of collar flanges up to 60° C			
		EL min. [mm]	EL max. [mm]	L min. [mm]	L max. [mm]	I [mm]	angular
Length BL [mm]	Bellow Size DN [mm]			axial		lateral	
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.