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FLEXEJ

Section 1

Weight App. ≈ kg	Effect. Area Q:cm2	Bellow Size DN in.	Bellow Size DN mm	Press. Nom. bar	Flange [1] Measurements mm D	k Ø	l x Ø	Length BL mm	Part [1] Number Type
1,9	15	1"	**25**	16	115	85	4 x 14	130	ERV-R 25.16 [2]
3,4	15	1¼"	**32**	16	140	100	4 x 18	130	ERV-R 32.16
3,6	15	1¼"	**32**	16	140	100	4 x 18	160	ERV-R 32x160.16
4,0	20	1½"	**40**	16	150	110	4 x 18	130	ERV-R 40.16
4,2	20	1½"	**40**	16	150	110	4 x 18	160	ERV-R 40x160.16
4,6	30	2"	**50**	16	165	125	4 x 18	130	ERV-R 50.16
4,7	30	2"	**50**	16	165	125	4 x 18	150	ERV-R 50x150.16
4,8	30	2"	**50**	16	165	125	4 x 18	160	ERV-R 50x160.16
5,3	50	2½"	**65**	16	185	145	4 x 18	130	ERV-R 65.16
5,4	50	2½"	**65**	16	185	145	4 x 18	150	ERV-R 65x150.16
5,5	50	2½"	**65**	16	185	145	4 x 18	160	ERV-R 65x160.16
6,9	85	3"	**80**	16	200	160	8 x 18	130	ERV-R 80.16
7,0	85	3"	**80**	16	200	160	8 x 18	150	ERV-R 80x150.16
7,1	85	3"	**80**	16	200	160	8 x 18	160	ERV-R 80x160.16
8,0	125	4"	**100**	16	220	180	8 x 18	130	ERV-R 100.16
8,1	125	4"	**100**	16	220	180	8 x 18	150	ERV-R 100x150.16
8,2	125	4"	**100**	16	220	180	8 x 18	160	ERV-R 100x160.16
9,9	185	5"	**125**	16	250	210	8 x 18	130	ERV-R 125.16
10,1	185	5"	**125**	16	250	210	8 x 18	150	ERV-R 125x150.16
10,2	185	5"	**125**	16	250	210	8 x 18	160	ERV-R 125x160.16
12,3	250	6"	**150**	16	285	240	8 x 22	130	ERV-R 150.16
12,4	250	6"	**150**	16	285	240	8 x 22	150	ERV-R 150x150.16
12,5	250	6"	**150**	16	285	240	8 x 22	160	ERV-R 150x160.16
16,5	400	8"	**200**	16	340	295	8 x 22	130	ERV-R 200.10
16,6	400	8"	**200**	16	340	295	8 x 22	150	ERV-R 200x150.10
16.7	400	8"	**200**	16	340	295	8 x 22	160	ERV-R 200x160.10
16,8	400	8"	**200**	16	340	295	8 x 22	175	ERV-R 200x175.10
21,6	600	10"	**250**	16	395	350	12 x 22	130	ERV-R 250.10
21,9	600	10"	**250**	16	395	350	12 x 22	175	ERV-R 250x175.10
22,1	600	10"	**250**	10	395	350	12 x 22	200	ERV-R 250x200.10
29,3	800	12"	**300**	16	445	400	12 x 22	130	ERV-R 300.10
29,8	800	12"	**300**	10	445	400	12 x 22	200	ERV-R 300x200.10
43,0	1000	14"	**350**	16	505	460	16 x 22	200	ERV-R 350.10
46,0	1375	16"	**400**	16	565	515	16 x 26	200	ERV-R 400.10
50,0	1780	18"	**450**	10	615	565	20 x 26	200	ERV-R 450.10
53,0	1780	18"	**450**	10	615	565	20 x 26	250	ERV-R 450x250.10
57,0	2185	20"	**500**	10	670	620	20 x 26	200	ERV-R 500.10
70,0	3080	24"	**600**	10	780	725	20 x 30	200	ERV-R 600.10
117,0	4800	28"	**700**	10	895	840	24 x 30	260	ERV-R 700.10
129,5	5440	32"	**800**	10	1015	950	24 x 33	250	ERV-R 800.10
184,0	7100	36"	**900**	10	1115	1050	28 x 33	300	ERV-R 900.10
245,0	8700	40"	**1000**	10	1230	1160	28 x 36	300	ERV-R 1000.10

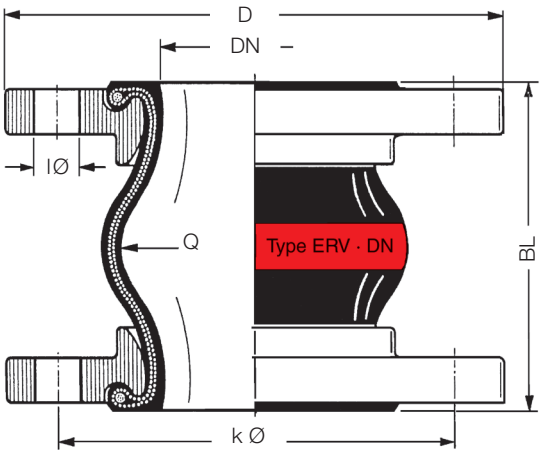
ELAFLEX

Type ERV-R

RED BAND expansion joints in High-Tech design for water, drinking water (approval DVGW W 270, ACS as well as WRAS), cold andwarm waste water, seawater, cooling water, also with chemical additives for water treatment, low concentrated acids and alkalis, salt solutions, technical alcohols, esters and ketones. Temperature (depending on medium) range -40°C up to +100°C, temporarily up to +120°C. Electrically dissipative.

Not suitable for all kinds of mineral oil products, cooling water with added oil containing corrosion preventatives, oily compressor air.

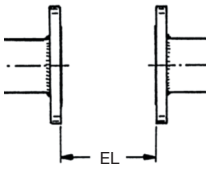
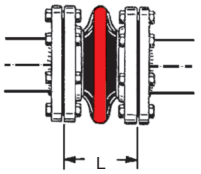
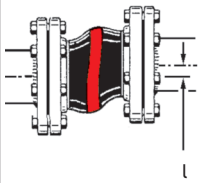
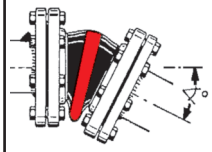
Liner : Butyl (IIR) / EPDM, seamless, low permeation
Reinforcement : PA textile cord, Butyl rubberized
Cover : EPDM, ozone proof, heat resistant
Marking : Red band, ERV DN .., PN .., production date
Flanges[1] : Swivelling, DIN PN 10/16, carbon steel, zinc plated



1) Examples. Other flange standards and materials see catalogue pages **1**-101 to **1**-104.

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

RANGE OF MOVEMENT TYPE ERV-R

ERV-R				Allowable static range of movement in service with usage of collar flanges up to 50° C			
							
				axial		lateral	angular
Length	*Bellow size*	*Installation Length*					
BL [mm]	**DN** [mm]	**EL** min. [mm]	**EL** max. [mm]	**L** min. [mm]	**L** max. [mm]	**l** [mm]	◁
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	165	185	160	210	± 15	± 5
175	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

Permissable 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 maxium permittable elongation (L max.) reduces the vacuum resistance by 50%. In this case we recommend using vacuum support spirals or vacuum support rings (see catalogue page 1-106).

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

Approvals

These certificates for type ERV-R can be downloaded from www.flexej.co.uk

Overview of all certificates on catalogue page 1-2

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