

Elaflex Rotex

Specification

For permanent use with hot heating water, cooling water and hot air. Approved according to DIN up to 100°C at 10 bar and up to 110°C at 6 bar.

Not suitable for drinking water, cooling water with oil containing additives, oily compressor air, permanent effect of steam.

Materials

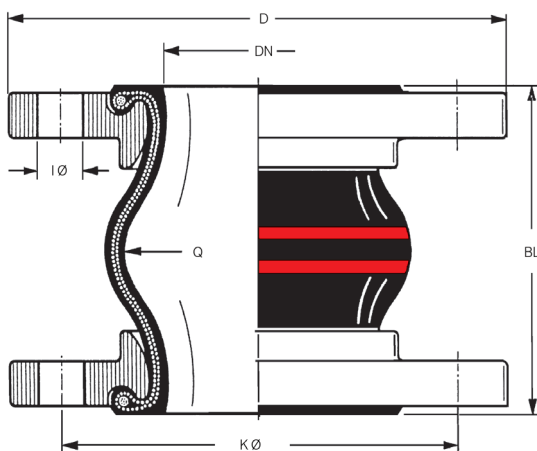
- Liner EPDM, hot water resistant, seamless, high abrasion resistance
- Reinforcement Polymer textile cord, hot water and hydrolysis proof
- Cover EPDM, ozone proof, heat resistant
- Marking 2 red bands, ERV DN ..., PN ..., production date
- Flanges♦ Swivelling, DIN PN 10/16, carbon steel, zinc plated

Operating conditions

Temperature range (depending on medium) -40°C up to +130°C, temporarily up to +150°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 ²	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	ROTEX 25.16 *
1 1/4"	32	130	16	3.4	15	140	100	4 x 18	ROTEX 32.16
1 1/4"	32	160	16	3.6	15	140	100	4 x 18	ROTEX 32x160.16
1 1/2"	40	130	16	4.0	20	150	110	4 x 18	ROTEX 40.16
1 1/2"	40	160	16	4.2	20	150	110	4 x 18	ROTEX 40x160.16
2"	50	130	16	4.6	30	165	125	4 x 18	ROTEX 50.16
2"	50	160	16	4.8	30	165	125	4 x 18	ROTEX 50x160.16
2 1/2"	65	130	16	5.3	50	185	145	4 x 18	ROTEX 65.16
2 1/2"	65	160	16	5.5	50	185	145	4 x 18	ROTEX 65x160.16
3"	80	130	16	6.9	85	200	160	8 x 18	ROTEX 80.16
3"	80	150	16	7.0	85	200	160	8 x 18	ROTEX 80x150.16
3"	80	160	16	7.1	85	200	160	8 x 18	ROTEX 80x160.16
4"	100	130	16	8.0	125	220	180	8 x 18	ROTEX 100.16
4"	100	150	16	8.1	125	220	180	8 x 18	ROTEX 100x150.16
4"	100	160	16	8.2	125	220	180	8 x 18	ROTEX 100x160.16
5"	125	130	16	9.8	185	250	210	8 x 18	ROTEX 125.16
5"	125	150	16	9.9	185	250	210	8 x 18	ROTEX 125x150.16
5"	125	160	16	10.0	185	250	210	8 x 18	ROTEX 125x160.16
6"	150	130	16	12.3	250	285	240	8 x 22	ROTEX 150.16
6"	150	150	16	12.4	250	285	240	8 x 22	ROTEX 150x150.16
6"	150	160	16	12.5	250	285	240	8 x 22	ROTEX 150x160.16
8"	200	130	16	16.5	400	340	295	8 x 22	ROTEX 200.10
8"	200	150	16	16.6	400	340	295	8 x 22	ROTEX 200x150.10
8"	200	160	16	16.7	400	340	295	8 x 22	ROTEX 200x160.10
8"	200	175	16	16.8	400	340	295	8 x 22	ROTEX 200x175.10
10"	250	130	16	21.6	600	395	350	12 x 22	ROTEX 250.10
10"	250	175	16	21.9	600	395	350	12 x 22	ROTEX 250x175.10
10"	250	200	10	22.1	600	395	350	12 x 22	ROTEX 250x200.10
12"	300	130	16	29.3	800	445	400	12 x 22	ROTEX 300.10
12"	300	200	10	29.7	800	445	400	12 x 22	ROTEX 300x200.10
14"	350	200	16	43.0	1000	505	460	16 x 22	ROTEX 350.10
16"	400	200	16	46.0	1375	565	515	16 x 26	ROTEX 400.10
18"	450	200	10	50.0	1780	615	565	20 x 26	ROTEX 450.10
18"	450	250	10	53.0	1780	615	565	20 x 26	ROTEX 450x250.10
20"	500	200	10	57.0	2185	670	620	20 x 26	ROTEX 500.10
24"	600	200	10	70.0	3080	780	725	20 x 30	ROTEX 600.10
28"	700	260	10	117.0	4800	895	840	24 x 30	ROTEX 700.10
32"	800	250	10	129.5	5440	1015	950	24 x 33	ROTEX 800.10
36"	900	300	10	184.0	7100	1115	1050	28 x 33	ROTEX 900.10
40"	1000	300	10	245.0	8700	1230	1160	28 x 36	ROTEX 1000.10

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Range of movement

Rotex									
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	±25	±10		
130	250-300	125	140	115	160	±25	± 5		
150	80-200	140	160	120	170	±30	±15		
160	32-200	150	170	130	185	±25	±15		
175	200-250	165	185	145	205	±30	±10		
200	250-300	190	210	170	225	±25	±10		
200	350-600	190	210	160	225	±25	± 8		
250	450	240	260	210	280	±25	±10		
250	800	240	260	210	280	±25	± 5		
260	700	250	270	220	290	±25	± 5		
300	900-1000	290	310	260	335	±30	± 5		

* Allowable static range of movement in service with usage of collar flanges up to 70°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 of the Elaflex section).
For dependencies of overpressure, range of movement and temperature please see table on page 8 of the Elaflex section.

Approvals

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

