



Section 1	Weight App. ≈ kg	Effect. Area Q:cm2	Bellow 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	ROTEX 25.16 ²⁾	
	3,4	15	1 1/4"	32		140	100	4 x 18	130	ROTEX 32.16	
	3,6					160	ROTEX 32x160.16				
	4,0	20	1 1/2"	40		150	110		130	ROTEX 40.16	
	4,2					160	ROTEX 40x160.16				
	4,6	30	2"	50		165	125		130	ROTEX 50.16	
	4,8					160	ROTEX 50x160.16				
	5,3	50	2 1/2"	65		185	145		130	ROTEX 65.16	
	5,5					160	ROTEX 65x160.16				
	6,9	85	3"	80		200	160		8 x 18	130	ROTEX 80.16
	7,0									150	ROTEX 80x150.16
	7,1							160		ROTEX 80x160.16	
	8,0	125	4"	100				130		ROTEX 100.16	
	8,1							150		ROTEX 100x150.16	
	8,2							160		ROTEX 100x160.16	
	9,8	185	5"	125		130	ROTEX 125.16				
	9,9					150	ROTEX 125x150.16				
	10,					160	ROTEX 125x160.16				
	12,3	250	6"	150		130	ROTEX 150.16				
	12,4					150	ROTEX 150x150.16				
	12,5				160	ROTEX 150x160.16					
	16,5	400	8"	200	340	295	8 x 22	130	ROTEX 200.10		
	16,6							150	ROTEX 200x150.10		
	16,7							160	ROTEX 200x160.10		
	16,8							175	ROTEX 200x175.10		
	21,6	600	10"	250				130	ROTEX 250.10		
	21,9							175	ROTEX 250x175.10		
	22,1							200	ROTEX 250x200.10		
	29,3	800	12"	300				130	ROTEX 300.10		
	29,7				200	ROTEX 300x200.10					
	43,0	1000	14"	350	10	505	460	16 x 22	200	ROTEX 350.10	
	46,0	1375	16"	400		565	515	16 x 26	ROTEX 400.10		
	57,0	2185	20"	500		670	620	20 x 26	ROTEX 500.10		
	70,0	3080	24"	600		780	725	20 x 30	ROTEX 600.10		
	117,0	4800	28"	700		895	840	24 x 30	260	ROTEX 700.10	
	129,5	5440	32"	800		1015	950	24 x 33	250	ROTEX 800.10	
	184,0	7100	36"	900		1115	1050	28 x 33	300	ROTEX 900.10	
	245,0	8700	40"	1000		1230	1160	28 x 36	ROTEX 1000.10		

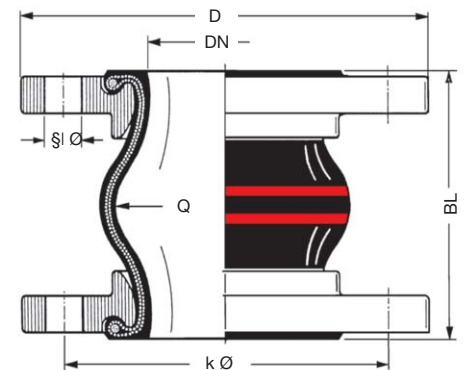
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Type ROTEX



ROTEX expansion joints for permanent stress through hot heating water, cooling water and hot air. Approved according to DIN up to 100°C by 10 bar and up to 110° C by 6 bar. Temperature range depending on medium) -40° C up to +130° C, temporarily up to +150° C. Electrically dissipative.
Not suitable for drinking water, cooling water with oil containing additives, oily compressor air, permanent effect of steam.

- 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
- Flanges¹⁾ : 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.

Application: Used as safety compensator in heating installations approved by TUEV acc. to DIN 4809 with temperatures up to 110° C by PN 6 bar. – For noise reduction, for compensation of axial, lateral and angular movements. For allowable of movement see page overleaf. Ideal for demand usage e.g. in block heating power stations.

Range of Movement Type ROTEX

ROTEX		Installation Length		Allowable static range of movement in service with usage of collar flanges up to 70° 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	150	± 30	± 30
	100 - 150	120	135	100	150	± 30	± 20
	200	115	140	105	160	± 25	± 10
	250 - 300	125	140	115	160	± 25	± 5
150	80 - 200	140	160	120	170	± 30	± 5
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
	350 - 600	190	210	160	225	± 25	± 8
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

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 ROTEX can be downloaded from www.flexej.co.uk



Overview of all certificates on catalogue page 1.2