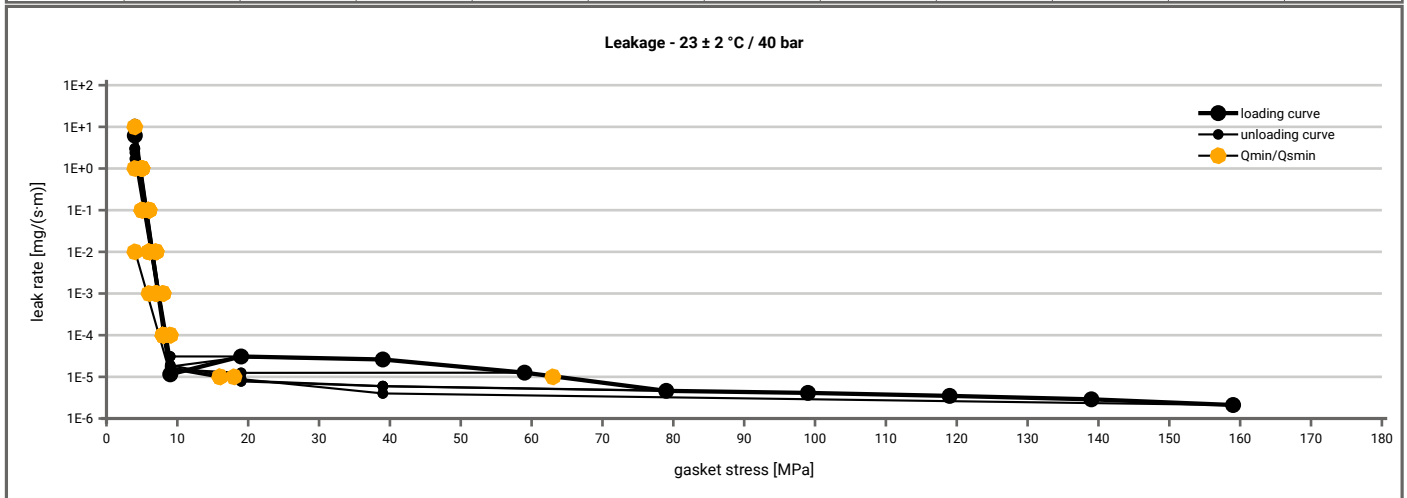


Manufacturer address	ERIKS bv, Toermalijnstraat 5, 1812 RL Alkmaar, NL	According to DIN EN 13555 2005-2
Product name	KV PTFE, KV9 PTFE, KV9L PTFE	
Product dimensions	69 x 53 x 4.2 mm (DIN EN 1514-6 2004-3)	

Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 40$ bar ($T = 23 \pm 2$ °C)											
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]									
		$Q_A = 4.3$ [MPa]	$Q_A = 9.5$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 39$ [MPa]	$Q_A = 59$ [MPa]	$Q_A = 79$ [MPa]	$Q_A = 99$ [MPa]	$Q_A = 119$ [MPa]	$Q_A = 139$ [MPa]	$Q_A = 159$ [MPa]
1E+2	4		5	5	5	5	5	5			4
1E+1	4		5	5	5	5	5	5			4
1E+0	5		5	5	5	6	5	5			5
1E-1	6		5	6	6	6	6	6			6
1E-2	7		5	7	7	7	7	7			7
1E-3	8		6	8	8	8	8	8			8
1E-4	9		8	9	9	9	9	9			9
1E-5	64						16	17			18
1E-6											
1E-7											
1E-8											



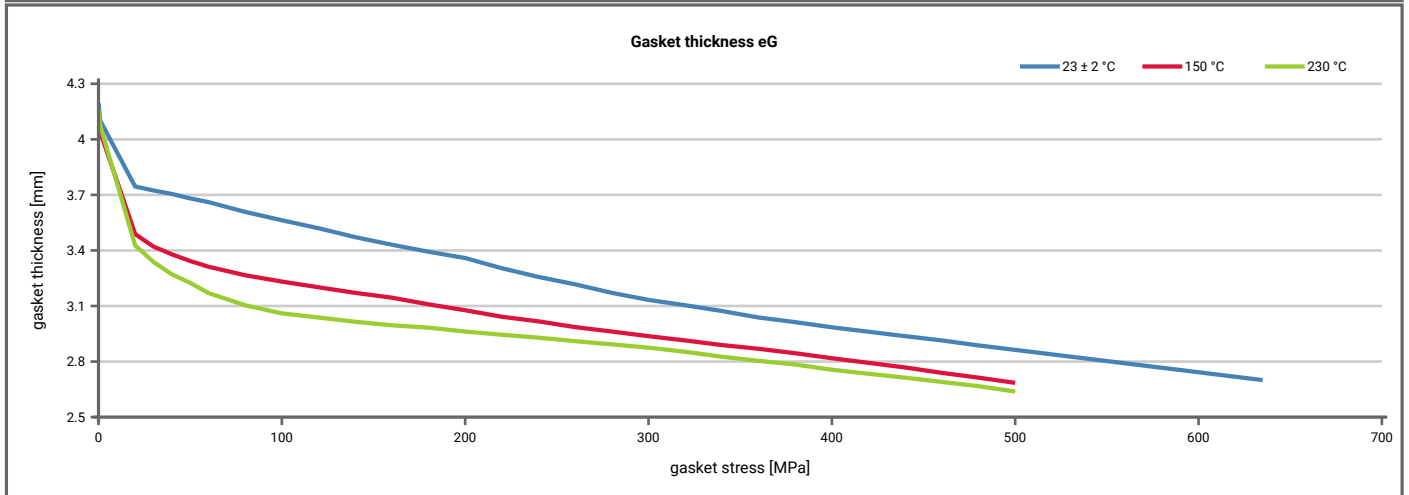
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Relaxation ratio P_{QR} for stiffness $C = 500$ [kN/mm]										
Gasket stress	23 ± 2 °C		Temperature 1 [150 °C]		Temperature 2 [230 °C]		P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]
	P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]				
Stress level 1 [30 MPa]	0.85	14	0.34	61	0.21	73				
Stress level 2 [100 MPa]	0.78	67	0.21	244	0.11	273				
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied Q_{smax}										
P_{QR} at Q_{smax}	1.00	0	0.93	113	0.92	130				
Q_{smax}	635 MPa		525 MPa		500 MPa					

Sekant unloading modulus of the gasket E_G [MPa] and gasket thickness e_G [mm]										
Gasket stress [MPa]	23 ± 2 °C		Temperature 1 [150 °C]		Temperature 2 [230 °C]		E_G [MPa]	e_G [mm]	E_G [MPa]	e_G [mm]
	E_G [MPa]	e_G [mm]	E_G [MPa]	e_G [mm]	E_G [MPa]	e_G [mm]				
0	0	4.196	0	4.136	0	4.158				
1	0	4.100	0	4.037	0	4.072				
20	1951	3.745	3193	3.488	1797	3.427				
30	3808	3.724	3525	3.421	2953	3.338				
40	4807	3.705	4139	3.379	3268	3.271				
50	4216	3.681	5134	3.343	3851	3.225				
60	5472	3.661	4844	3.312	4682	3.170				
80	4568	3.608	5402	3.266	7623	3.104				
100	6875	3.563	5718	3.232	6112	3.060				
120	8652	3.520	6383	3.201	7956	3.038				
140	8332	3.472	7128	3.171	7243	3.015				
160	9261	3.431	9324	3.145	7479	2.996				
180	9753	3.393	8737	3.109	8801	2.983				
200	10290	3.359	9176	3.077	8503	2.962				
220	9908	3.304	8784	3.042	8650	2.945				
240	10904	3.257	10310	3.017	9125	2.929				
260	11004	3.217	10575	2.986	9585	2.910				
280	11042	3.171	10339	2.962	9874	2.893				
300	10813	3.133	10367	2.937	11371	2.875				
320	12096	3.104	11392	2.914	12412	2.853				
340	12449	3.073	11408	2.889	11796	2.826				
360	11206	3.038	12486	2.869	11453	2.804				
380	11635	3.013	13217	2.845	12790	2.784				
400	11601	2.985	12505	2.818	11892	2.756				
420	12548	2.961	12731	2.793	12231	2.734				
440	12346	2.937	12573	2.768	12971	2.713				
460	13099	2.914	12306	2.739	13349	2.690				
480	12968	2.887	13228	2.713	13631	2.667				
500	12664	2.863	13271	2.685	12953	2.638				
635	13967	2.700								

Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: 1	Creation date of this sheet: 2011-10-14
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