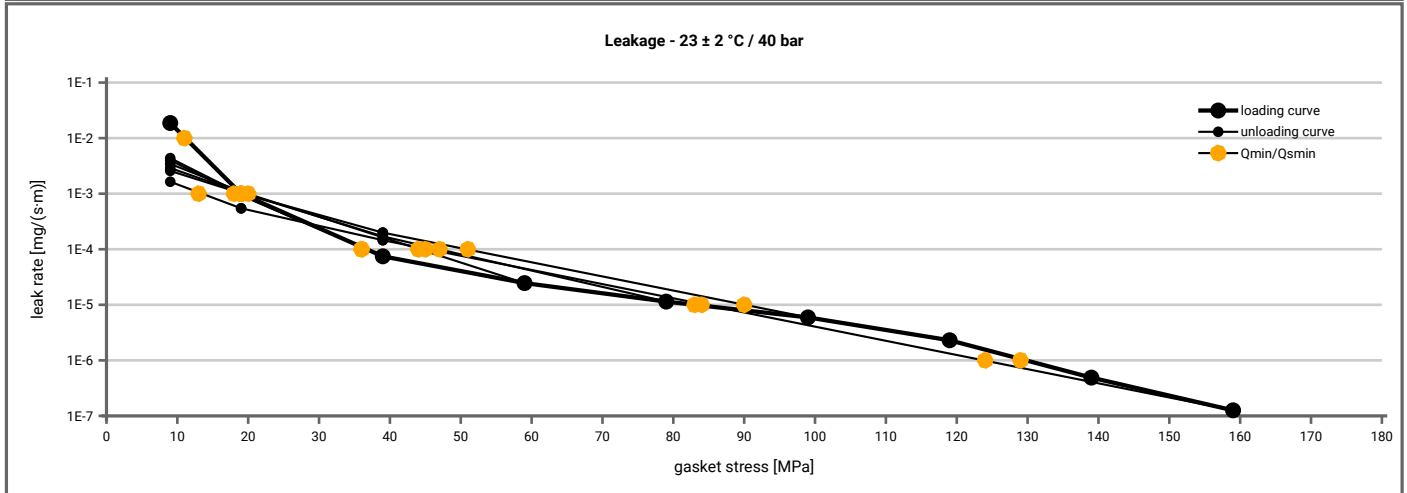


Manufacturer address	ERIKS bv, Toermalijnstraat 5, 1812 RL Alkmaar, NL	According to DIN EN 13555 2005-2
Product name	KV Graphite, KV9 Graphite, KV9L Graphite	
Product dimensions	69 x 53 x 4.8 mm (DIN EN 1514-6 2004-3)	

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]								
		$Q_A = 9.3$ [MPa]	$Q_A = 19$ [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-0	9		9	9	9	9	9			9
1E-1	9		9	9	9	9	9			9
1E-2	11		9	9	9	9	9			9
1E-3	19		19	19	20	20	20			14
1E-4	37			37	44	47	51			46
1E-5	83						90			85
1E-6	130									124
1E-7										
1E-8										



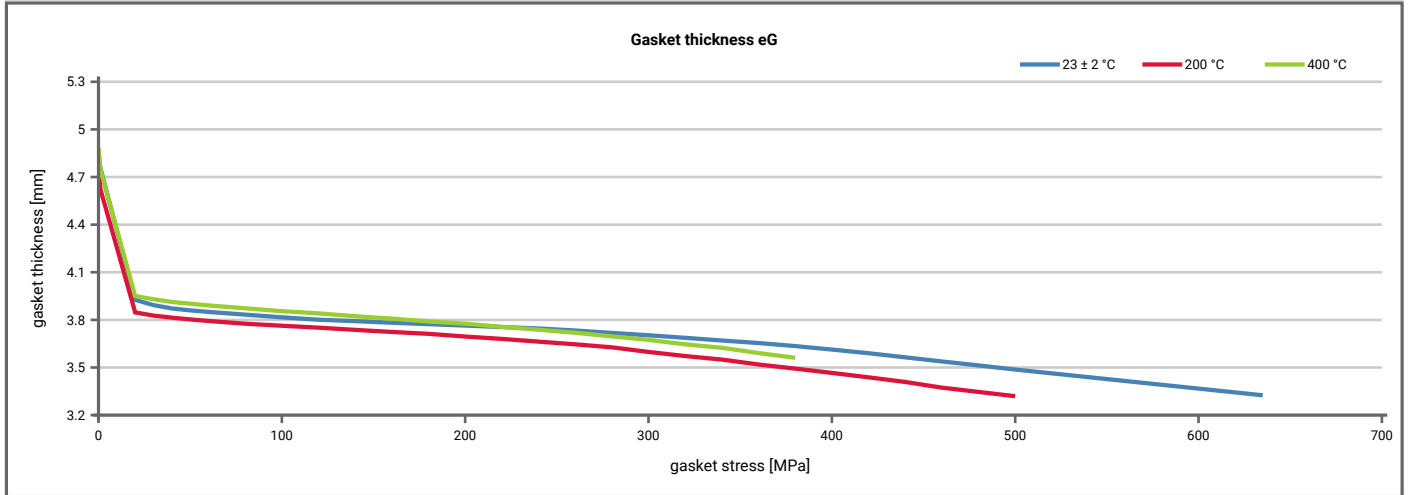
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Relaxation ratio P_{QR} for stiffness $C = 500$ [kN/mm]										
Gasket stress	23 ± 2 °C		Temperature 1 [200 °C]		Temperature 2 [400 °C]		P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]
	P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]				
Stress level 1 [30 MPa]	0.95	5	0.92	8	0.72	26				
Stress level 2 [100 MPa]	0.99	3	0.98	6	0.94	20				
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied Q_{smax}										
P_{QR} at Q_{smax}	1.00	0	0.95	77	0.91	105				
Q_{smax}	635 MPa		500 MPa		380 MPa					

Sekant unloading modulus of the gasket E_G [MPa] and gasket thickness e_G [mm]										
Gasket stress [MPa]	23 ± 2 °C		Temperature 1 [200 °C]		Temperature 2 [400 °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	4.838	0	4.828	0	4.886				
1	0	4.760	0	4.625	0	4.748				
20	2740	3.926	3561	3.847	4760	3.950				
30	4173	3.893	4363	3.827	9175	3.930				
40	5374	3.872	6327	3.814	7424	3.913				
50	7453	3.860	8667	3.803	13002	3.902				
60	9732	3.850	10245	3.793	21408	3.891				
80	11759	3.833	12775	3.776	15872	3.873				
100	11235	3.816	13912	3.763	16307	3.855				
120	11913	3.801	16684	3.751	21187	3.841				
140	15634	3.792	15840	3.737	17586	3.823				
160	17274	3.782	16008	3.724	17321	3.808				
180	18555	3.773	18574	3.712	19514	3.790				
200	19688	3.764	17745	3.695	21339	3.776				
220	21178	3.755	18981	3.680	20461	3.756				
240	23081	3.746	19534	3.663	16879	3.738				
260	20886	3.733	18337	3.646	21622	3.719				
280	20894	3.718	21557	3.627	20130	3.696				
300	18496	3.703	17456	3.598	19097	3.674				
320	18725	3.687	17930	3.572	19452	3.646				
340	18758	3.670	23262	3.550	23267	3.624				
360	19458	3.654	20885	3.519	17588	3.591				
380	21445	3.635	21820	3.493	15897	3.561				
400	21319	3.613	22012	3.466						
420	20715	3.590	23257	3.438						
440	21350	3.564	20842	3.409						
460	20272	3.538	18468	3.373						
480	22726	3.513	19822	3.346						
500	21532	3.487	21312	3.319						
635	22887	3.325								

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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