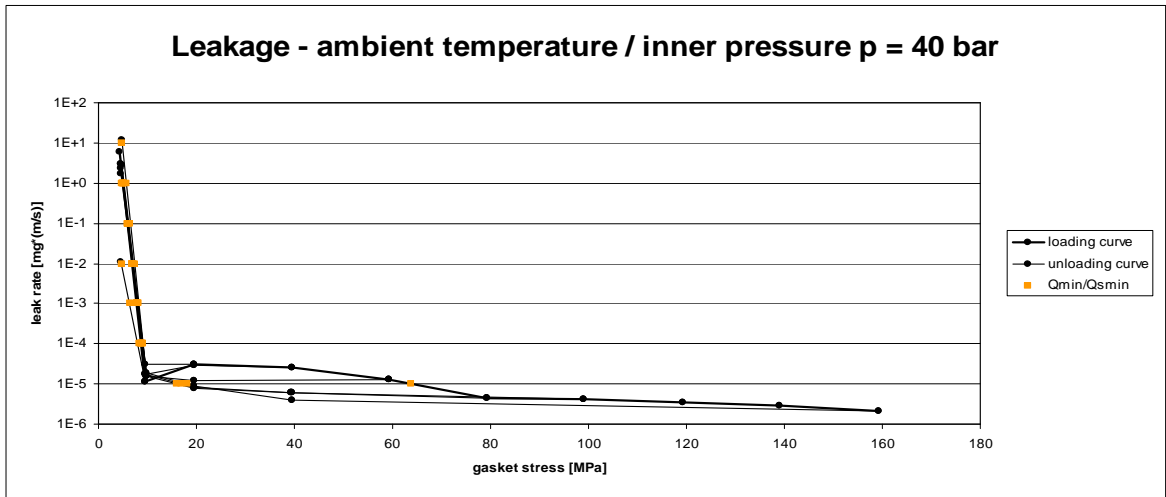


Company Address	ERIKS bv, Toermalijnstraat 5, NL-1812 RL Alkmaar, Netherlands
Gasket Type	KV9L PTFE
Sealing element dimensions [mm]	69 x 53 x 4.2

		Minimum stress to seal $Q_{min/L}$ (at assembly), $Q_{Smin/L}$ (after off-loading) for $p = 40$ bar								
L [mg/(s*m)]	$Q_{min/L}$ [MPa]	$Q_{Smin/L}$ [MPa]								
		$Q_A = 10$ MPa	$Q_A = 20$ MPa	$Q_A = 40$ MPa	$Q_A = 60$ MPa	$Q_A = 80$ MPa	$Q_A = 100$ MPa	$Q_A = 120$ MPa	$Q_A = 140$ MPa	$Q_A = 160$ MPa
$10^0$	5	4	5	5	6	5	5			5
$10^{-1}$	6	4	6	6	6	6	6			6
$10^{-2}$	7	5	7	7	7	7	7			7
$10^{-3}$	8	6	8	8	8	8	8			8
$10^{-4}$	9	8	9	9	5	9	9			9
$10^{-5}$	64					16	17			18
$10^{-6}$										
$10^{-7}$										
$10^{-8}$										



		Minimum stress to seal $Q_{min/L}$ (at assembly), $Q_{Smin/L}$ (after off-loading) for $p =$ bar								
L [mg/(s*m)]	$Q_{min/L}$ [MPa]	$Q_{Smin/L}$ [MPa]								
$10^0$										
$10^{-1}$										
$10^{-2}$										
$10^{-3}$										
$10^{-4}$										
$10^{-5}$										
$10^{-6}$										
$10^{-7}$										
$10^{-8}$										

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Relaxation ratio $P_{QR}$ for stiffness $C = 500$ kN/mm				
Gasket stress [MPa]	ambient temperature	temperature 1 [150 °C]	temperature 2 [230 °C]	
Stress level 1 [30 MPa]	0,85	0,34	0,21	
Stress level 2 [100 MPa]	0,78	0,21	0,11	
PQR at $Q_{Smax}$	1,00 at 635 MPa	0,93 at 525 MPa	0,92 at 500 MPa	

Maximal applicable gasket stress $Q_{Smax}$				
$Q_{Smax}$ [MPa]	$Q_{Smax}$ [MPa] – temperature 1	$Q_{Smax}$ [MPa] – temperature 2	$Q_{Smax}$ [MPa] – temperature 3	$Q_{Smax}$ [MPa] – temperature 4
ambient temperature	[150 °C]	[230 °C]		
635	525	500		

Sekant unloading modulus of the gasket $E_G$ [MPa]				
Gasket stress [MPa]	ambient temperature	temperature 1 [150 °C]	temperature 2 [230 °C]	
20	1951	3192	1796	
30	3808	3525	2953	
40	4807	4139	3267	
50	4215	5134	3850	
60	5472	4843	4682	
80	4567	5402	7623	
100	6874	5717	6112	
120	8652	6382	7955	
140	8331	7128	7243	
160	9261	9323	7479	
180	9752	8737	8800	
200	10289	9176	8502	
220	9908	8784	8650	
240	10904	10310	9125	
260	11004	10575	9585	
280	11041	10339	9874	
300	10813	10367	11371	
320	12096	11392	12412	
340	12448	11408	11796	
360	11206	12486	11453	
380	11635	13217	12790	
400	11601	12505	11892	
420	12548	12731	12231	
440	12345	12573	12971	
460	13098	12306	13349	
480	12968	13227	13631	
500	12664	13271	12952	
635 / 525	13967 at 635 MPa	14157 at 525 MPa		

Note: the content of darkened cells was not determined respectively is unnecessary	Rev - No: 0	Creation date of this sheet: 14.06.2010
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