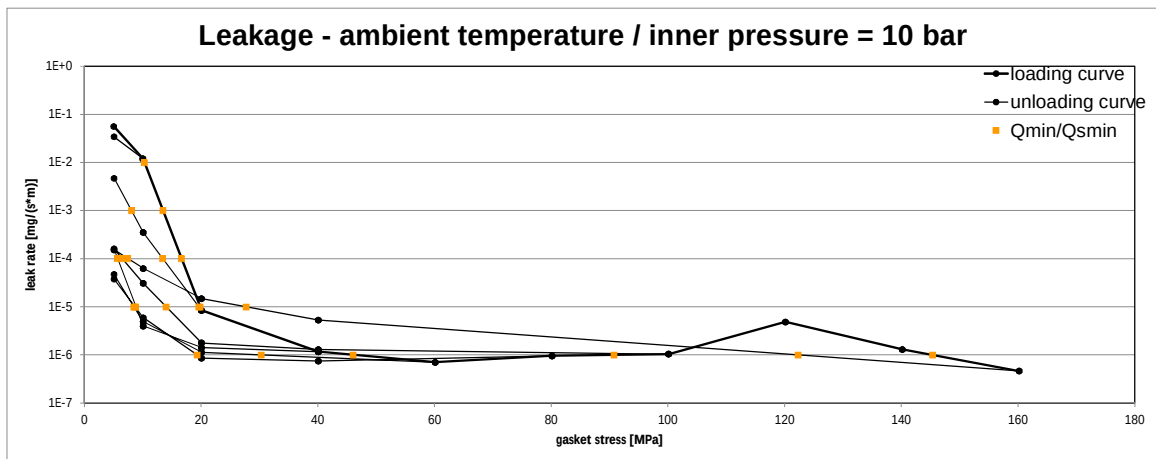
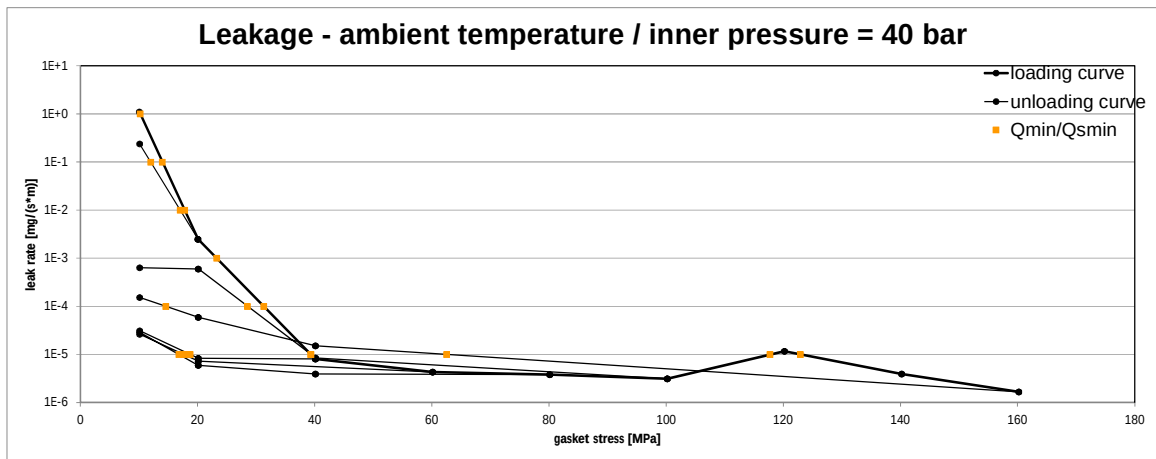


Company Address	A.W.Schultze GmbH Mercatorstr. 10 21502 Geesthacht	According to DIN EN 13555 2014-07
Gasket Type	Egraflex Steefflon Waveline WLP	
Sealing element dimensions [mm]	92 x 49 x 2	

		Minimum stress to seal $Q_{min/L}$ (at assembly), $Q_{Smin/L}$ (after off-loading) for p = 10 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	5	5	5	5			5	
10^{-1}			5	5	5	5	5			5	
10^{-2}	10		5	5	5	5	5			5	
10^{-3}	13		8	5	5	5	5			5	
10^{-4}	17		13	6	5	5	7			7	
10^{-5}	20		20	9	9	9	14			28	
10^{-6}	46				30	19				122	
10^{-7}											
10^{-8}											



		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]									
		$Q_A = 20$ 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	10	10	10	10	10	10			10		
10^{-1}	14	12	10	10	10	10			10		
10^{-2}	18	17	10	10	10	10			10		
10^{-3}	23		10	10	10	10			10		
10^{-4}	31		10	10	10	29			15		
10^{-5}	39		19	18	17	39			63		
10^{-6}											
10^{-7}											
10^{-8}											



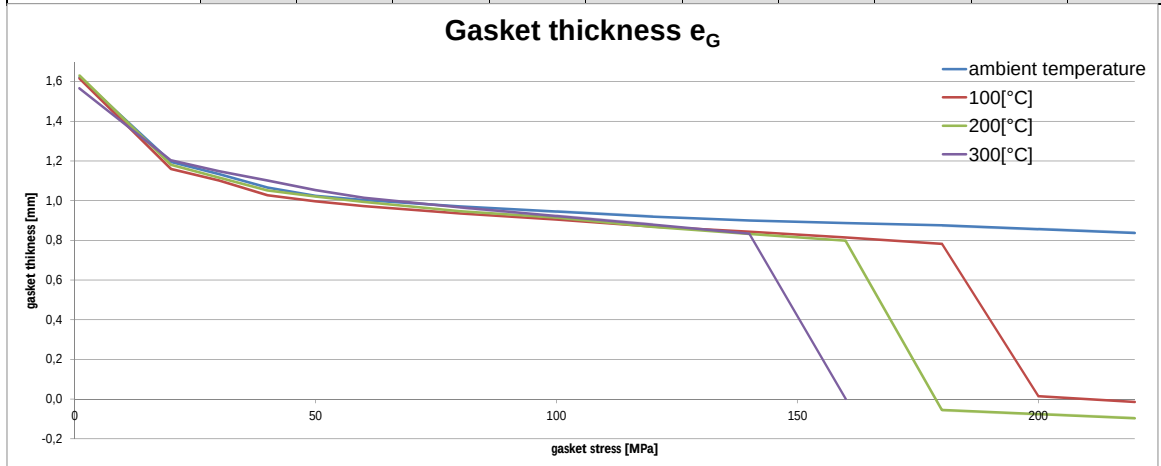
Note: the content of darkened cells was not determined respectively is unnecessary	Rev - No: 1	Creation date of this sheet: 2017-04-13
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		page 1/2
Company Address	A.W.Schultze GmbH Mercatorstr. 10 21502 Geesthacht	According to DIN EN 13555

Gasket Type	Egraflex Steelflon Waveline WLP	DIN EN 15933 2014-07
Sealing element dimensions [mm]	92 x 49 x 2	

Relaxation ratio P_{QR} for stiffness $C = 500 \text{ kN/mm}$										
Gasket stress	temperature 1 [30 °C]		temperature 2 [100 °C]		temperature 3 [200 °C]		temperature 4 [300 °C]			
	P_{QR}	Δe_{Gc} [mm]	P_{QR}	Δe_{Gc} [mm]	P_{QR}	Δe_{Gc} [mm]	P_{QR}	Δe_{Gc} [mm]	P_{QR}	Δe_{Gc} [mm]
Stress level 1 [30 MPa]	0.99	0.003	0.92	0.020	0.88	0.030	46.97	-11.584		
Stress level 2 [50 MPa]	1.00	0.002	0.99	0.004	0.97	0.015	0.96	0.019		
Stress level 3 [140 MPa]	0.80	0.235	0.98	0.029	0.95	0.065	0.95	0.059		
Stress level 4 [160 MPa]	0.80	0.269	0.98	0.034	0.95	0.074	0.91	0.121		
Stress level 5 [180 MPa]	0.80	0.302	0.98	0.038	0.95	0.083	0.91	0.136		
Stress level 6 [220 MPa]	0.80	0.370	0.98	0.046	0.95	0.102	0.91	0.166		
P_{QR} and Δe_{Gc} at maximal applicable gasket stress Q_{Smax}										
P_{QR} at Q_{Smax}	0.77	0.265	0.77	0.306	0.79	0.321	0.81	0.350		
Q_{Smax}	134 MPa		155 MPa		178 MPa		219 MPa			

Sekant unloading modulus of the gasket E_G [MPa] and gasket thickness e_G [mm]										
Gasket stress [MPa]	ambient temperature		temperature 1 [100 °C]		temperature 2 [200 °C]		temperature 3 [300 °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		2.000		2.000		2.000		2.000		
1		1.620		1.615		1.630		1.565		
20	559	1.195	596	1.159	645	1.180	540	1.203		
30	853	1.133	894	1.102	841	1.115	799	1.148		
40	1250	1.066	1275	1.027	1323	1.052	1109	1.102		
50	1445	1.024	1609	0.997	1805	1.021	1408	1.054		
60	1939	1.003	1886	0.972	1781	0.992	1510	1.015		
80	2919	0.970	2659	0.935	2387	0.946	2792	0.966		
100	3549	0.945	4016	0.905	4361	0.915	2729	0.922		
120	3908	0.919	3184	0.869	3058	0.868	3920	0.879		
140	4283	0.900	4809	0.843	5765	0.833	3657	0.833		
160	6167	0.888	5719	0.815	6665	0.798	2664	0.002		
180	7443	0.875	6504	0.783	2759	-0.054				
200	5772	0.856	4072	0.015	3411	-0.075				
220	6348	0.837	4417	-0.014	3179	-0.096				
240										
260										
280										
300										
320										
340										
360										
380										
400										
420										
440										
460										
480										
500										
940										



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