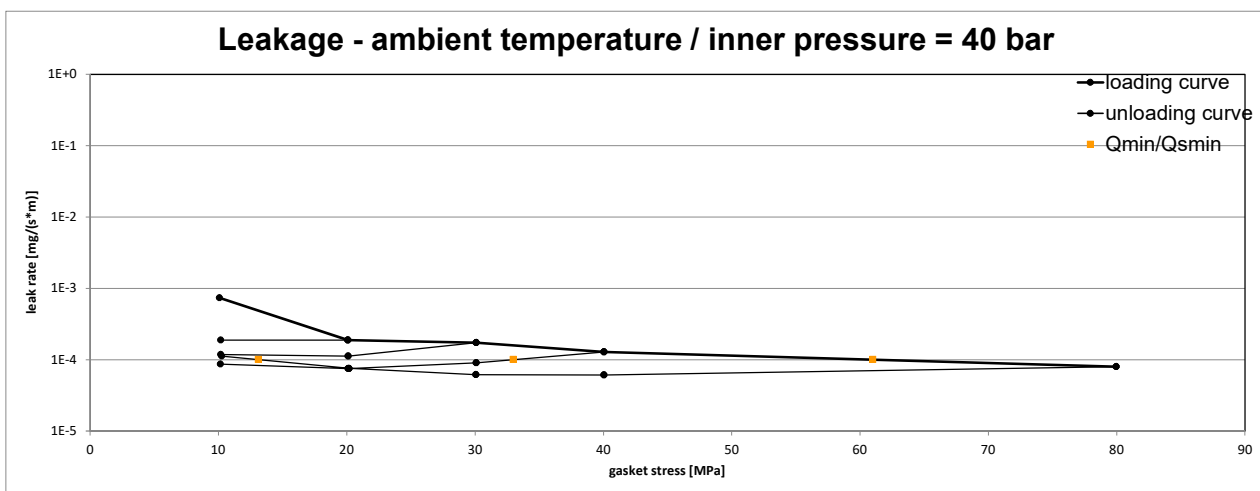


Company Address	Flexitallic Ltd., Scandinavia Mill, Hunsworth Lane, Cleckheaton, UK	According to DIN EN 13555 2014-07
Gasket Type	Sigma 500 (PTFE with Glass Microsphere filler)	
Sealing element dimensions [mm]	92 x 49 x 2.0	

		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	$Q_A=30$ MPa	$Q_A=40$ MPa	$Q_A=80$ MPa						
10^{-9}	10	10	10	10	10						
10^{-1}	10	10	10	10	10						
10^{-2}	10	10	10	10	10						
10^{-3}	10	10	10	10	10						
10^{-4}	61				13						
10^{-5}											
10^{-6}											
10^{-7}											
10^{-8}											

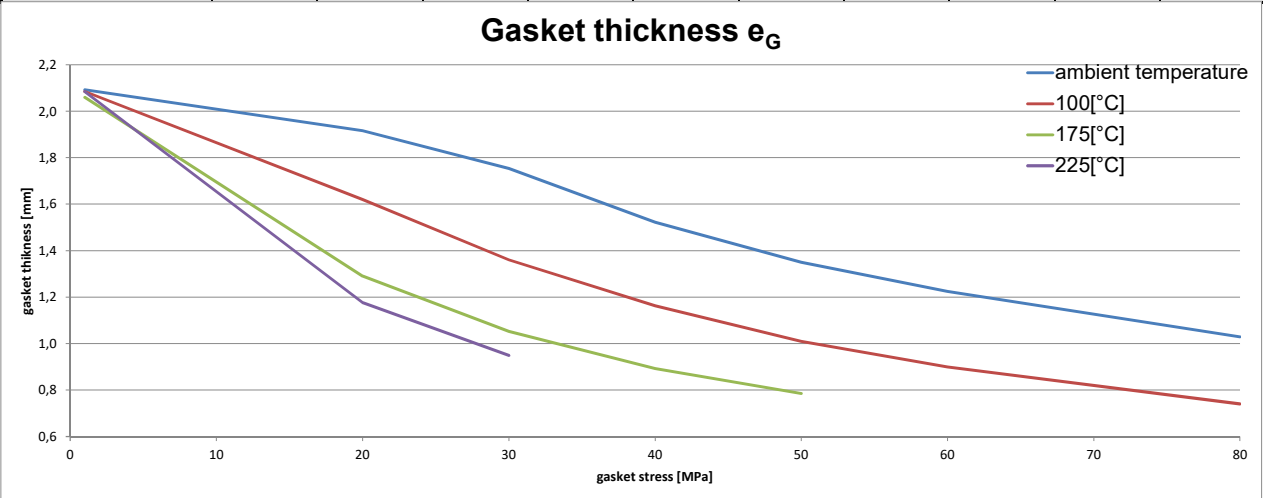


Note: the content of darkened cells was not determined respectively is unnecessary Rev - No: 1 Creation date of this sheet: 2018-09-26

Company Address	Flexitallic Ltd., Scandinavia Mill, Hunsworth Lane, Cleckheaton, UK	According to DIN EN 13555 2014-07
Gasket Type	Sigma 500 (PTFE with Glass Microsphere filler)	
Sealing element dimensions [mm]	92 x 49 x 2.0	

Gasket stress	ambient temperature		temperature 1 [100 °C]		temperature 2 [175 °C]		temperature 3 [225 °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]	0.86	0.035	0.60	0.102	0.41	0.149	0.35	0.165		
Stress level 2 [50 MPa]	0.90	0.044	0.66	0.143	0.52	0.201				
Stress level 3 [80 MPa]	0.92	0.057	0.76	0.164						
P_{QR} and Δe_{Gc} at maximal applicable gasket stress Q_{Smax}										
P_{QR} at Q_{Smax}	0.92	0.057	0.76	0.164	0.52	0.201	0.35	0.165		
Q_{Smax}	80 MPa		80 MPa		50 MPa		30 MPa			

Gasket stress [MPa]	ambient temperature		temperature 1 [100 °C]		temperature 2 [175 °C]		temperature 3 [225 °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		2.093		2.085		2.060		2.085		
20	958	1.916	512	1.619	469	1.290	489	1.177		
30	916	1.753	882	1.361	841	1.053	704	0.949		
40	1321	1.521	1339	1.162	1030	0.893				
50	1514	1.349	1550	1.010	1243	0.786				
60	2067	1.225	1654	0.900						
80	3215	1.029	2157	0.741						



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