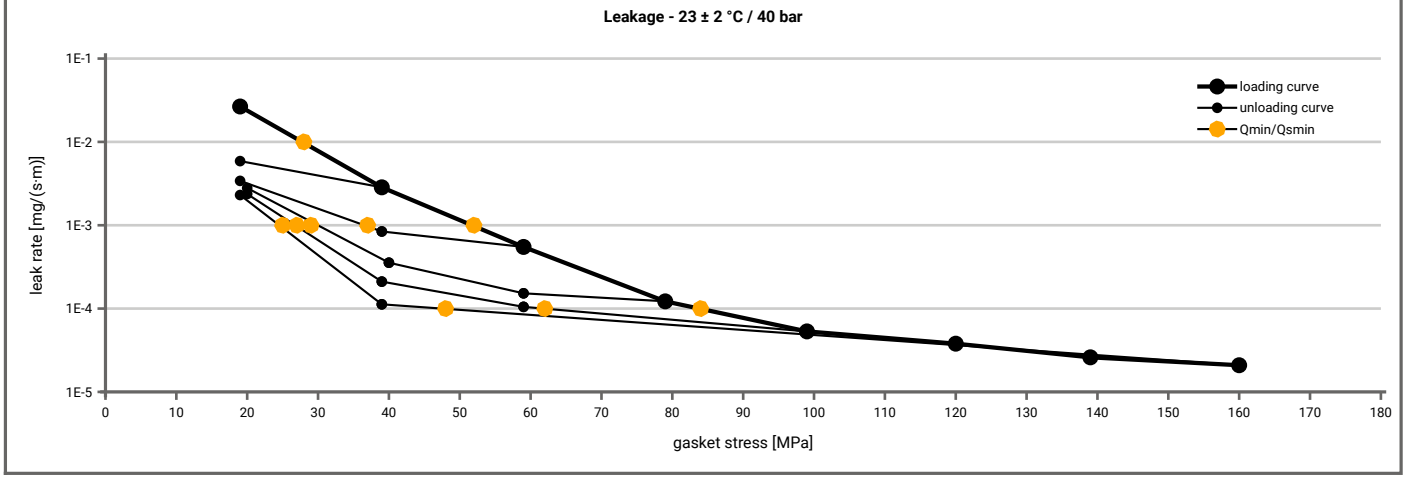
Manufacturer address	Flexitallic Ltd., Cleckheaton, BD19 4LN West Yorkshire, GB	According to DIN EN 13555 2014-7
Product name	Change Gasket - Flexicarb - 316/316L - WN 1.4401/1.4404 - Dual Certification	
Product dimensions	142.8 x 133.6 x 4.6 mm (Nonstandard)	

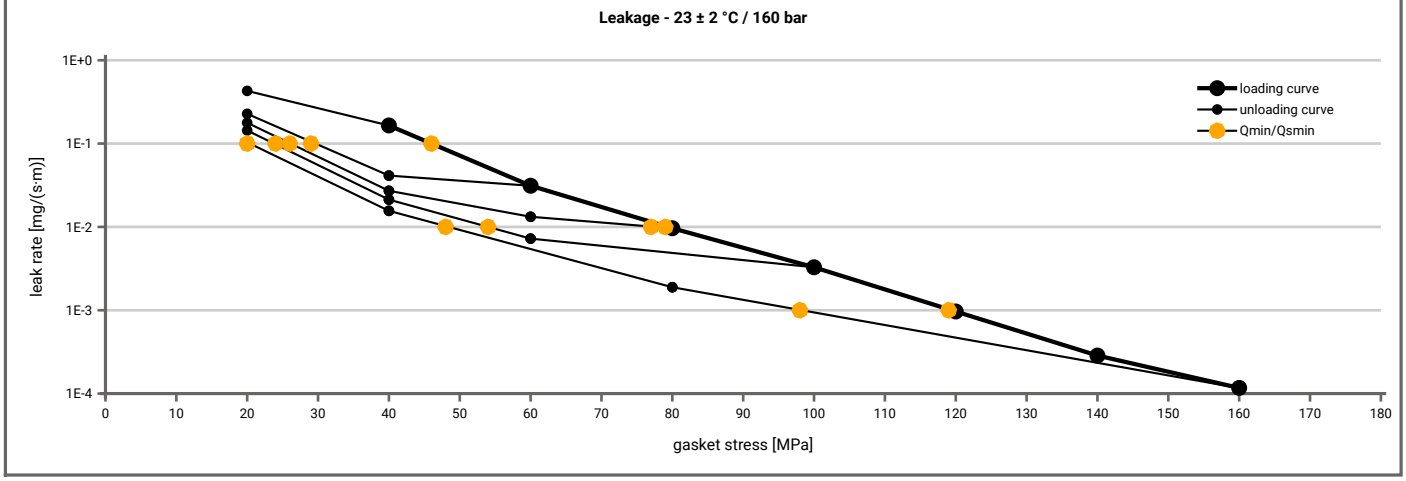
Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for p = 40 bar (T = 23 ± 2 °C)

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]
1E-0	20		20	20	20	20			20
1E-1	20		20	20	20	20			20
1E-2	29		20	20	20	20			20
1E-3	53			37	30	27			25
1E-4	85					63			48
1E-5									
1E-6									
1E-7									
1E-8									



Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for p = 160 bar (T = 23 ± 2 °C)

L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [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]
1E-0	40	20	20	20	20			20
1E-1	46		30	26	24			21
1E-2	79			78	54			49
1E-3	120							99
1E-4								
1E-5								
1E-6								
1E-7								
1E-8								



Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: **1**	Creation date of this sheet: **2016-05-11**

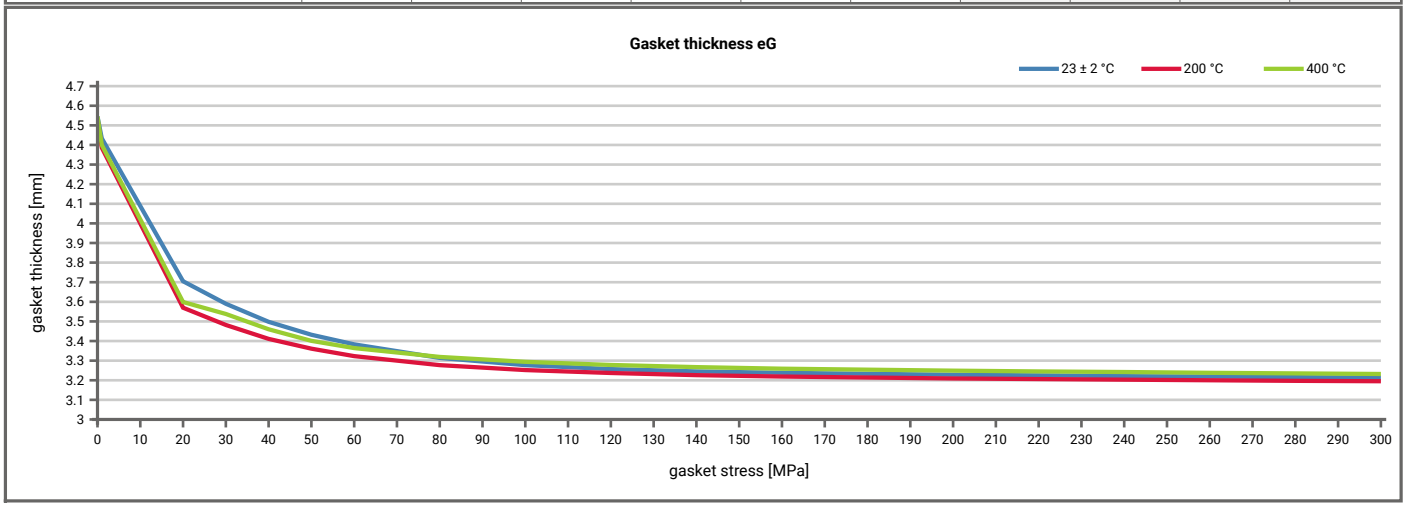
Manufacturer address	Flexitallic Ltd., Cleckheaton, BD19 4LN West Yorkshire, GB	According to **DIN EN 13555 2014-7**
Product name	Change Gasket - Flexicarb - 316/316L - WN 1.4401/1.4404 - Dual Certification	
Product dimensions	142.8 x 133.6 x 4.6 mm (Nonstandard)	

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 [70 MPa]	0.99	3	0.94	18	0.86	41				
Stress level 2 [120 MPa]	1.00	2	0.96	19	0.97	14				
Stress level 3 [200 MPa]	1.00	0	0.99	12	1.00	0				
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied Q_{smax}										
P_{QR} at Q_{smax}	1.00	0	1.00	0	1.00	6				
Q_{smax}	300 MPa		300 MPa		300 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	4.545	0	4.530	0	4.545				
1	0	4.434	0	4.386	0	4.400				
20	2165	3.705	4999	3.570	8791	3.599				
30	2931	3.590	4930	3.482	6767	3.538				
40	3682	3.498	6321	3.411	8817	3.460				
50	4544	3.432	7863	3.361	12140	3.401				
60	6192	3.383	10396	3.323	18139	3.364				
80	10039	3.314	23793	3.277	117818	3.319				
100	14149	3.277	39439	3.252	180000	3.294				
120	19181	3.257	59428	3.237	180000	3.278				
140	25553	3.245	66545	3.226	180000	3.267				
160	33661	3.238	77405	3.219	180000	3.259				
180	41672	3.233	81457	3.214	180000	3.254				
200	50455	3.228	93089	3.209	180000	3.249				
220	61815	3.225	105401	3.206	180000	3.245				
240	69886	3.221	107499	3.203	180000	3.242				
260	81850	3.219	110086	3.200	180000	3.238				
280	92254	3.216	117636	3.197	180000	3.235				
300	105201	3.213	130302	3.195	180000	3.232				



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