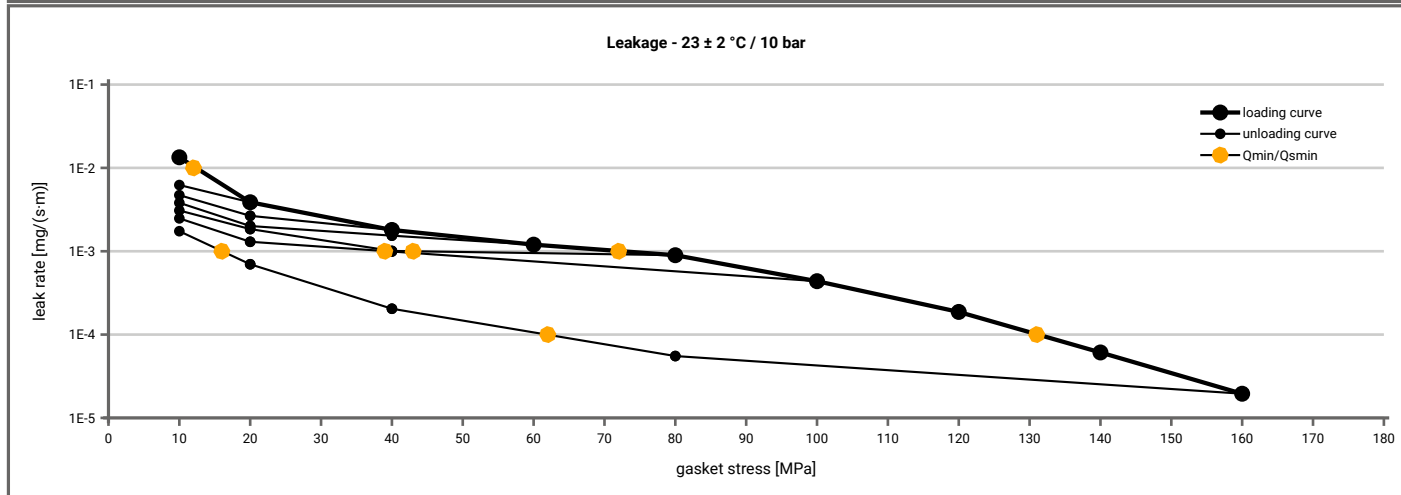
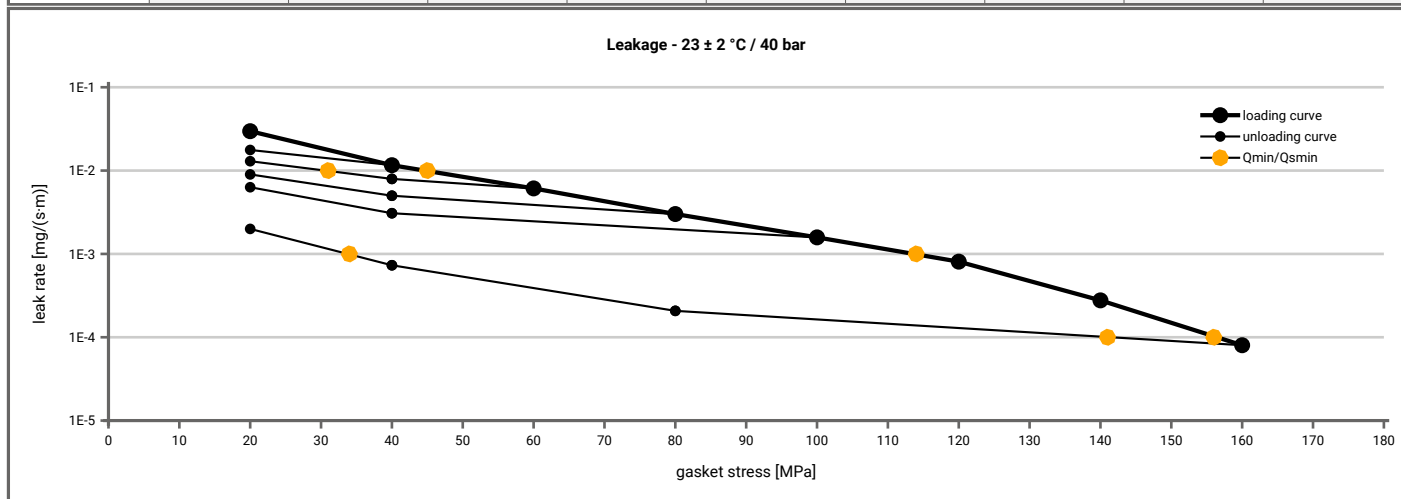


Manufacturer address	revoseal Europe GmbH, Industriestr. 1, 50259 Pulheim, DE	According to DIN EN 13555 2014-7
Product name	Revolution with graphite	
Product dimensions	69 x 57 x 1.6 mm (DIN EN 1514-4 1997-8)	

Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 10$ bar ($T = 23 \pm 2$ °C)											
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]	
1E-0	10		11	11	11	11	11				11
1E-1	10		11	11	11	11	11				11
1E-2	13		11	11	11	11	11				11
1E-3	73					43	40				17
1E-4	132										62
1E-5											
1E-6											
1E-7											
1E-8											



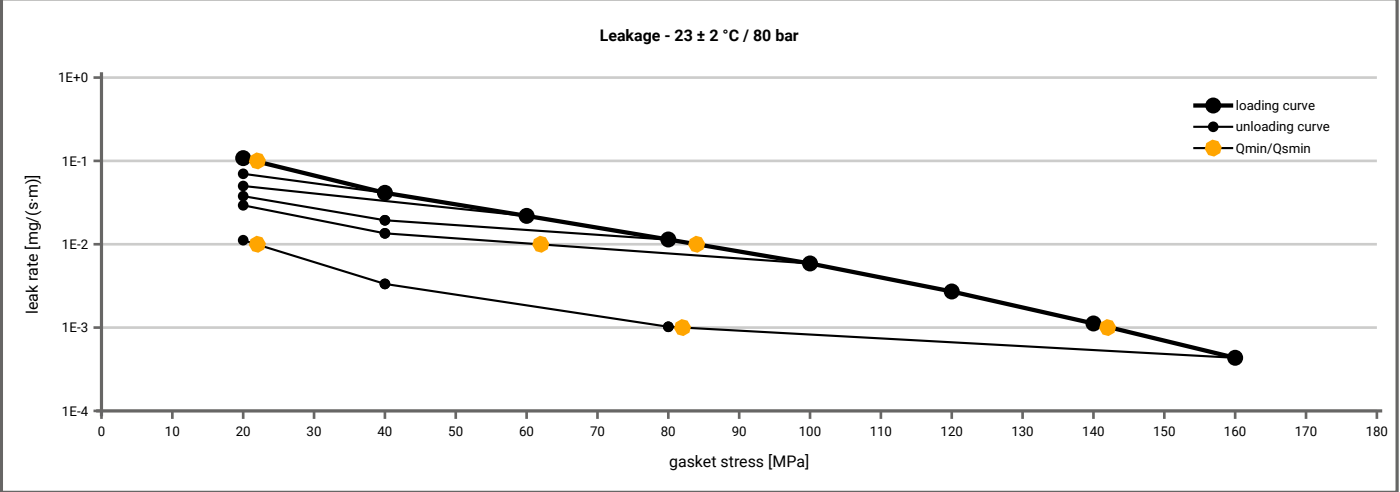
Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 40$ bar ($T = 23 \pm 2$ °C)											
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]									
		$Q_A = 20$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 61$ [MPa]	$Q_A = 80$ [MPa]	$Q_A = 100$ [MPa]	$Q_A = 120$ [MPa]	$Q_A = 140$ [MPa]	$Q_A = 160$ [MPa]		
1E-0	20		21	21	21	21					21
1E-1	20		21	21	21	21					21
1E-2	45			31	21	21					21
1E-3	114										34
1E-4	157										142
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: 2017-09-06
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Product dimensions	69 x 57 x 1.6 mm (DIN EN 1514-4 1997-8)	

Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for p = 80 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		21	21	21	21			21
1E-1	22		21	21	21	21			21
1E-2	84					62			22
1E-3	143								83
1E-4									
1E-5									
1E-6									
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 [70 MPa]	0.99	2	0.87	22	0.87	22				
Stress level 2 [180 MPa]	1.00	2	0.94	26	0.92	36				
Stress level 3 [320 MPa]	1.00	0	0.96	30	0.94	46				
P _{QR} and Δe _{Gc} at maximum gasket stress to be applied Q _{smax}										
P _{QR} at Q _{smax}	1.00	0	0.98	30	0.93	68				
Q _{smax}	500 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	1.544	0	1.570	0	1.558				
1	0	1.373	0	1.359	0	1.364				
5	131	1.082	188	1.013	157	1.005				
10	243	0.957	328	0.920	272	0.912				
15	380	0.858	533	0.827	519	0.808				
20	509	0.774	984	0.744	779	0.719				
25	686	0.718	2220	0.705	1452	0.674				
30	857	0.684	2777	0.669	3279	0.646				
40	1171	0.639	3844	0.629	4652	0.611				
50	1422	0.610	4014	0.603	6016	0.589				
60	1716	0.592	3159	0.584	6104	0.571				
80	2232	0.566	2940	0.558	5591	0.544				
100	2648	0.547	2724	0.540	4687	0.527				
120	2951	0.534	2832	0.526	3675	0.513				
140	3253	0.523	2660	0.514	3036	0.502				
160	3363	0.513	3018	0.505	2960	0.492				
180	3454	0.504	2930	0.493	3157	0.484				
200	3539	0.497	2913	0.484	3204	0.477				
220	3701	0.490	3244	0.477	3134	0.470				
240	3827	0.484	3240	0.469	3240	0.462				
260	3820	0.478	3104	0.459	3217	0.455				
280	3884	0.472	3241	0.450	3023	0.446				
300	3907	0.467	3264	0.441	3226	0.440				
320	3982	0.461	3360	0.433	3267	0.433				
340	3932	0.455	3365	0.425	3171	0.425				
360	3921	0.449	3492	0.418	3322	0.418				
380	3975	0.444	3329	0.409	3212	0.410				
400	3969	0.439	3487	0.402						
420	4032	0.434	3599	0.398						
440	3983	0.429	3485	0.391						
460	4024	0.424	3734	0.387						
480	4029	0.420	3665	0.380						
500	4048	0.415	3942	0.375						

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