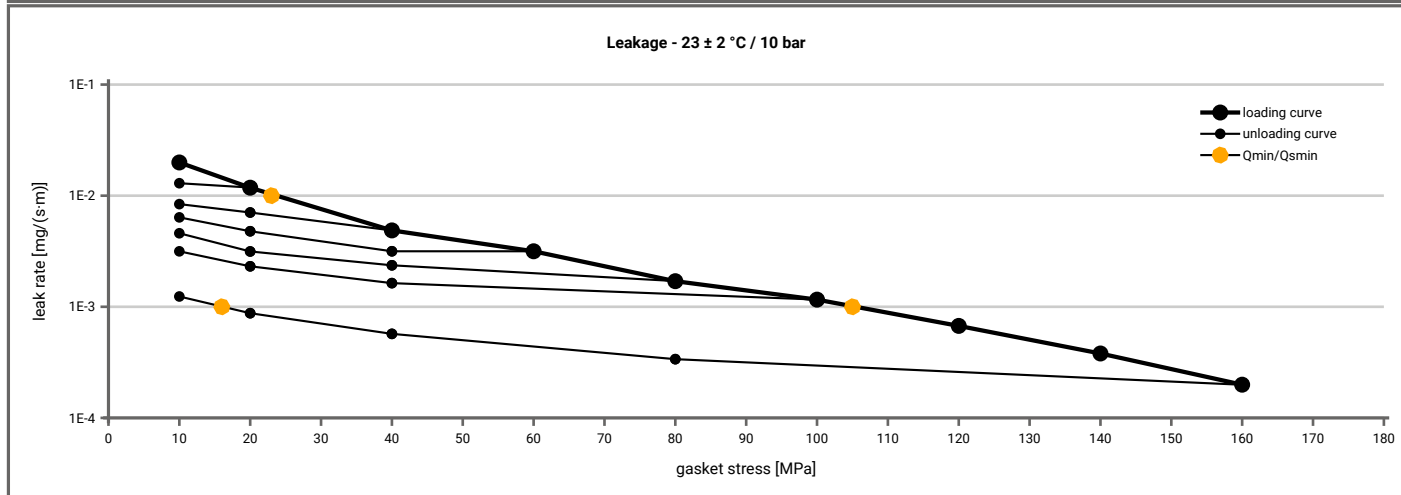
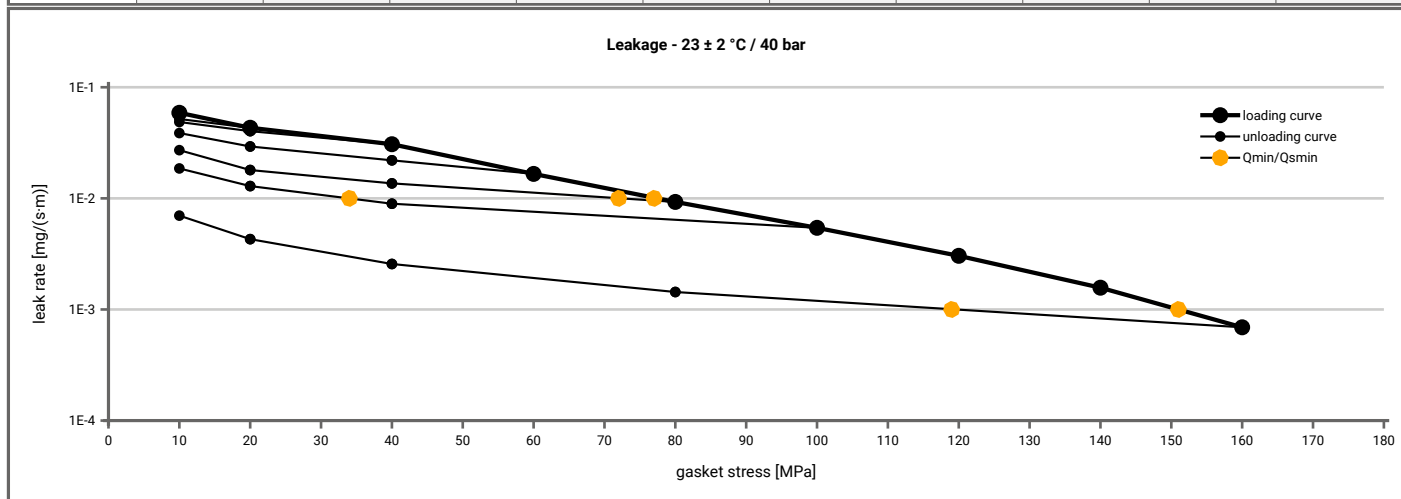


Manufacturer address	revoseal Europe GmbH, Industriestr. 1, 50259 Pulheim, DE	According to DIN EN 13555 2014-7
Product name	Eco+ with graphite	
Product dimensions	77 x 65 x 1.6 mm (DIN EN 1514-4 1997-8)	

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		10	10	10	10	10			10
1E-1	10		10	10	10	10	10			10
1E-2	24			10	10	10	10			10
1E-3	106									16
1E-4										
1E-5										
1E-6										
1E-7										
1E-8										



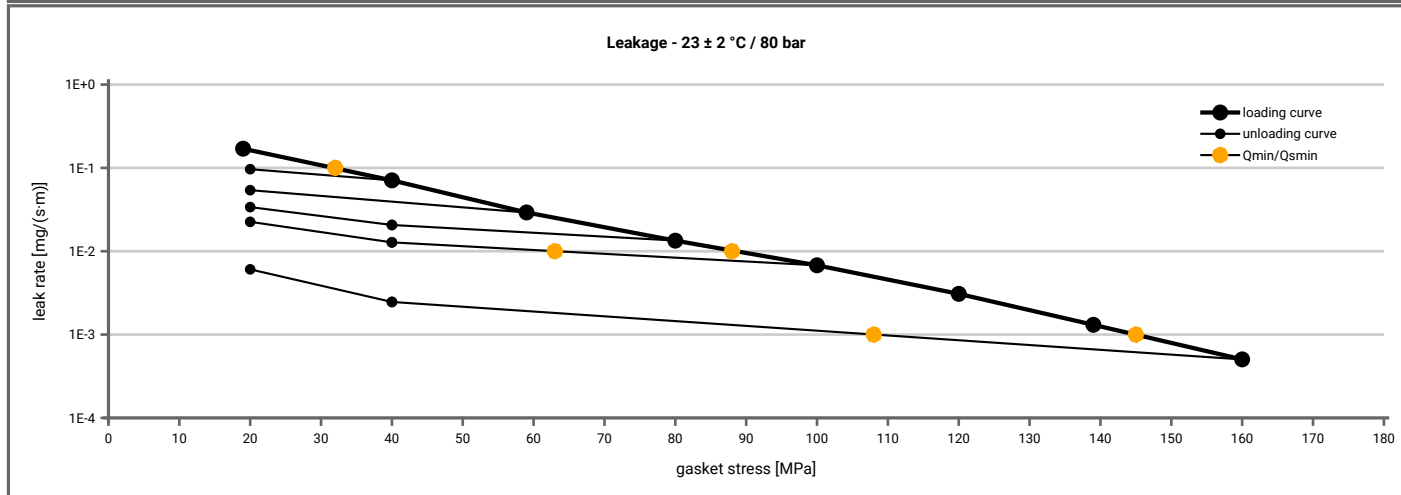
Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 40$ bar ($T = 23 \pm 2$ °C)										
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]								
		$Q_A = 10$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]	$Q_A = 100$ [MPa]	$Q_A = 120$ [MPa]	$Q_A = 140$ [MPa]	$Q_A = 160$ [MPa]
1E-0	10		10	10	10	10	10			10
1E-1	10		10	10	10	10	10			10
1E-2	78					72	34			10
1E-3	151									120
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: 2017-09-06
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Product name	Eco+ with graphite	
Product dimensions	77 x 65 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 ($T = 23 \pm 2$ °C)									
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]							
		$Q_A = 20$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [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	32		20	20	20	20			20
1E-2	89					63			20
1E-3	146								108
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 [90 MPa]	1.00	0	0.94	16	0.91	22				
Stress level 2 [150 MPa]	1.00	0	0.95	20	0.94	24				
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied Q_{smax}										
P_{QR} at Q_{smax}	1.00	0	0.98	27	0.98	20				
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	1.639	0	1.644	0	1.635				
1	0	1.621	0	1.639	0	1.615				
5	133	1.381	151	1.345	144	1.307				
10	351	1.222	384	1.219	272	1.196				
15	630	1.170	706	1.167	548	1.144				
20	981	1.145	1268	1.141	1058	1.117				
25	1314	1.129	2079	1.126	2096	1.104				
30	1657	1.116	3223	1.116	5203	1.096				
40	2464	1.096	6945	1.098	16065	1.079				
50	3161	1.083	8701	1.084	22407	1.067				
60	3852	1.072	8564	1.073	23201	1.055				
80	5228	1.054	10118	1.056	25122	1.038				
100	6827	1.041	10368	1.042	27852	1.025				
120	7786	1.030	10962	1.029	31915	1.014				
140	8210	1.020	10819	1.016	21609	1.004				
160	8913	1.012	10392	0.999	21156	0.994				
180	9672	1.004	11425	0.981	18564	0.984				
200	10073	0.997	11159	0.959	17067	0.972				
220	10259	0.989	11150	0.942	15335	0.960				
240	10625	0.982	11707	0.926	14948	0.945				
260	10790	0.975	12686	0.915	13692	0.928				
280	11111	0.967	12461	0.905	15558	0.913				
300	11652	0.959	13715	0.896	14249	0.898				
320	12113	0.949	14040	0.888	14706	0.884				
340	12434	0.938	15171	0.881	16248	0.871				
360	12942	0.928	14489	0.873	16494	0.860				
380	13557	0.918	15463	0.867	17793	0.849				
400	14476	0.909	16445	0.861						
420	15330	0.901	16582	0.855						
440	15757	0.892	17606	0.850						
460	16129	0.884	18032	0.844						
480	17035	0.876	18983	0.840						
500	17601	0.869	19247	0.835						

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