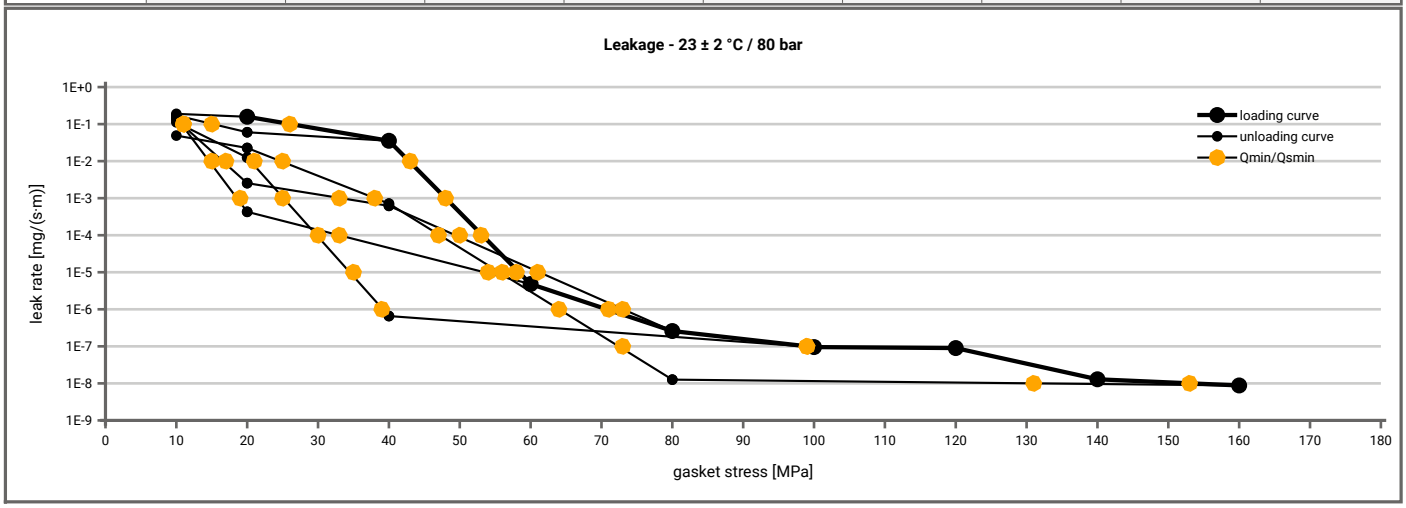
Manufacturer address	revoseal Europe GmbH, Industriestr. 1, 50259 Pulheim, DE	According to **DIN EN 13555 2014-7**
Product name	JP-2 graphite	
Product dimensions	66.4 x 56.2 x 4.2 mm (DIN EN 1514-4 1997-8)	

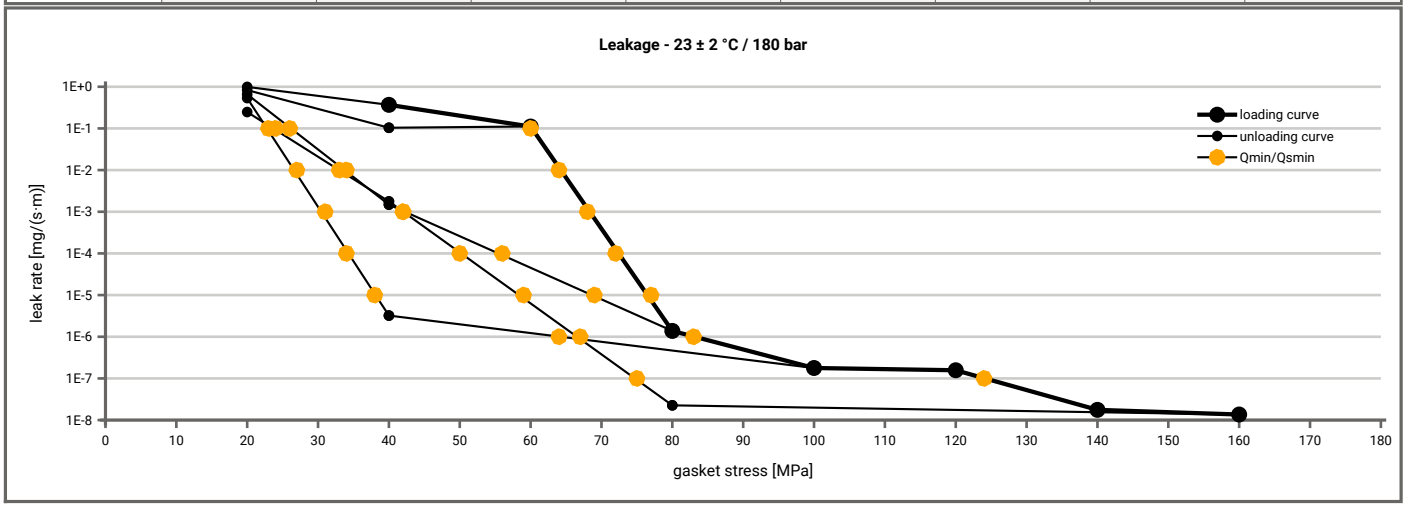
Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for p = 80 bar (T = 23 ± 2 °C)

L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]							
		Q_A = 21 [MPa]	Q_A = 41 [MPa]	Q_A = 61 [MPa]	Q_A = 81 [MPa]	Q_A = 101 [MPa]	Q_A = 121 [MPa]	Q_A = 140 [MPa]	Q_A = 160 [MPa]
1E-0	21	11	11	11	11	11			11
1E-1	27		16	11	11	11			11
1E-2	43			15	17	21			25
1E-3	49			19	34	26			39
1E-4	54			34	50	30			48
1E-5	59			54	62	35			56
1E-6	71				74	40			65
1E-7	100					99			73
1E-8	154								132
1E-9									



Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for p = 180 bar (T = 23 ± 2 °C)

L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]						
		Q_A = 41 [MPa]	Q_A = 60 [MPa]	Q_A = 81 [MPa]	Q_A = 101 [MPa]	Q_A = 121 [MPa]	Q_A = 141 [MPa]	Q_A = 161 [MPa]
1E-0	41	21	21	21	21			21
1E-1	61			27	23			24
1E-2	65			34	27			34
1E-3	69			43	31			43
1E-4	73			56	35			51
1E-5	77			69	39			59
1E-6	84				65			67
1E-7	125							75
1E-8								



Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: **1**	Creation date of this sheet: **2017-10-16**

Manufacturer address	revoseal Europe GmbH, Industriestr. 1, 50259 Pulheim, DE	According to **DIN EN 13555 2014-7**
Product name	JP-2 graphite	
Product dimensions	66.4 x 56.2 x 4.2 mm (DIN EN 1514-4 1997-8)	

Relaxation ratio P_{QR} for stiffness C = 500 [kN/mm]										
Gasket stress	**23 ± 2 °C**		**Temperature 1 [300 °C]**		**Temperature 2 [600 °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 [50 MPa]	0.99	1	0.82	18	0.69	31				
Stress level 2 [90 MPa]	0.99	3	0.91	17	0.79	37				
Stress level 3 [150 MPa]	0.99	3	0.93	21	0.88	35				
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied (Q_{smax})										
P_{QR} at Q_{smax}	0.99	10	0.95	41	0.88	47				
Q_{smax}	500 MPa		380 MPa		200 MPa					

Sekant unloading modulus of the gasket E_G [MPa] and gasket thickness e_G [mm]										
Gasket stress [MPa]	**23 ± 2 °C**		**Temperature 1 [300 °C]**		**Temperature 2 [600 °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	4.329	0	4.354	0	4.359				
1	0	4.181	0	4.204	0	4.310				
5	566	3.851	942	3.753	811	3.882				
10	2142	3.710	2461	3.710	1941	3.808				
15	6368	3.690	5652	3.692	4168	3.771				
20	15325	3.678	47681	3.677	10935	3.746				
25	24786	3.666	21535	3.660	20186	3.726				
30	36706	3.654	24679	3.647	24791	3.710				
40	43996	3.612	31788	3.620	28877	3.678				
50	38356	3.572	33252	3.601	25321	3.651				
60	38037	3.555	38321	3.583	21409	3.626				
80	41355	3.526	31738	3.549	19402	3.587				
100	42360	3.501	68143	3.518	20724	3.556				
120	46316	3.479	46439	3.487	24057	3.533				
140	49588	3.459	49660	3.461	27622	3.514				
160	48915	3.441	52331	3.438	26395	3.499				
180	54046	3.427	46353	3.419	25104	3.485				
200	64044	3.415	61772	3.403	23160	3.471				
220	62813	3.405	66722	3.390						
240	67509	3.396	71622	3.380						
260	69839	3.388	96506	3.372						
280	72134	3.381	81019	3.362						
300	78662	3.374	75769	3.355						
320	79068	3.366	94241	3.347						
340	87017	3.359	119219	3.340						
360	90590	3.351	141225	3.331						
380	99034	3.342	119292	3.319						
400	105188	3.332								
420	108447	3.321								
440	117705	3.310								
460	124125	3.298								
480	127071	3.285								
500	135502	3.272								

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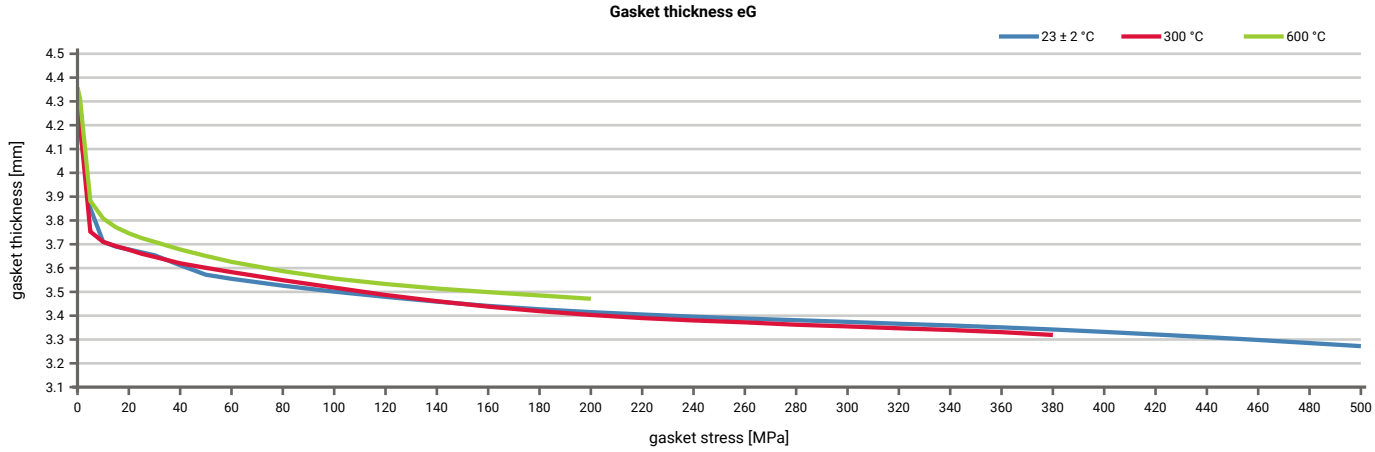
Product dimensions	66.4 x 56.2 x 4.2 mm (DIN EN 1514-4 1997-8)	



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