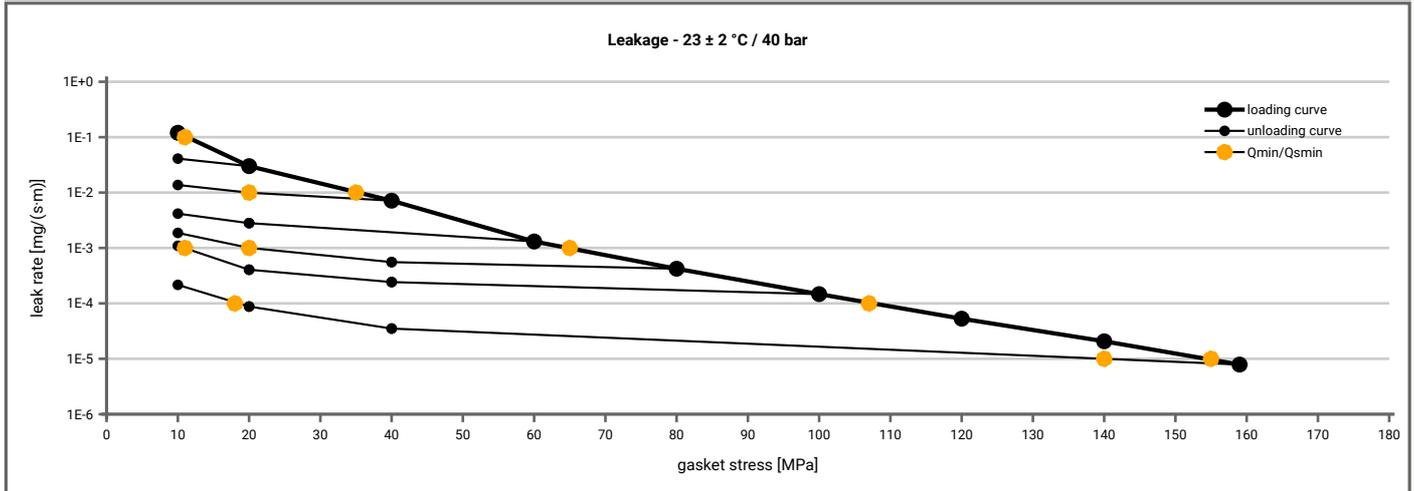


<b>Manufacturer address</b>	Kempchen Dichtungstechnik GmbH, Im Waldteich 21, 46147 Oberhausen, DE	According to <b>DIN EN 13555</b> <b>2005-2</b>
<b>Product name</b>	F1 RHD2S305-I (316L / Graphite 99%) with inner eyelet	
<b>Product dimensions</b>	92 x 49 x 2 mm (DIN EN 1514-1 1997-8)	

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	12		10	10	10	10	10			10
1E-2	35			20	10	10	10			10
1E-3	65					20	11			10
1E-4	108									19
1E-5	155									141
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 [300 °C]		$P_{QR}$	$\Delta e_{Gc}$ [µm]	$P_{QR}$	$\Delta e_{Gc}$ [µm]
	$P_{QR}$	$\Delta e_{Gc}$ [µm]	$P_{QR}$	$\Delta e_{Gc}$ [µm]	$P_{QR}$	$\Delta e_{Gc}$ [µm]				
Stress level 1 [50 MPa]	0.94	27	0.83	71	0.83	71				
Stress level 2 [120 MPa]	0.99	10	0.96	45	0.95	55				
$P_{QR}$ and $\Delta e_{Gc}$ at maximum gasket stress to be applied $Q_{smax}$										
$P_{QR}$ at $Q_{smax}$	1.00	9	0.95	65	0.94	70				
$Q_{smax}$	210 MPa		140 MPa		140 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 [300 °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	2.098	0	2.087	0	2.091				
1	0	2.098	0	2.087	0	2.091				
20	454	1.564	554	1.539	538	1.517				
30	758	1.477	846	1.482	849	1.461				
40	1006	1.417	998	1.425	1087	1.409				
50	1287	1.371	1420	1.376	1182	1.351				
60	1548	1.324	1388	1.335	1687	1.313				
80	2530	1.270	2249	1.292	2384	1.264				
100	2738	1.233	2474	1.259	2605	1.233				
120	3338	1.208	2489	1.232	2837	1.206				
140	2917	1.183	3183	1.214	3022	1.186				
160	3169	1.165								
180	3998	1.151								
200	4329	1.139								

