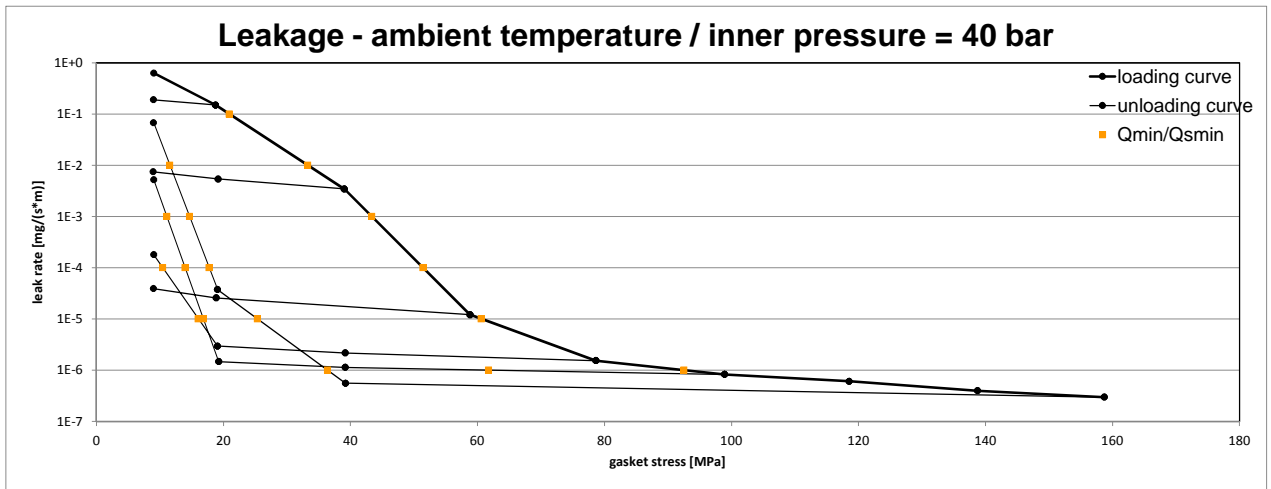


Company Address	KWO Dichtungstechnik GmbH, Am Eschengrund 3, 83135 Schechen, Germany
Gasket Type	Universal-F Premium tape (width = 5 mm)
Sealing element dimensions [mm]	75.5 x 65.5 x 2

L [mg/(s*m)]	Q <sub>min/L</sub> [MPa]	Minimum stress to seal Q <sub>min/L</sub> (at assembly), Q <sub>Smin/L</sub> (after off-loading) for p = 40 bar									
		Q <sub>Smin/L</sub> [MPa]									
		Q <sub>A</sub> = 20 MPa	Q <sub>A</sub> = 40 MPa	Q <sub>A</sub> = 60 MPa	Q <sub>A</sub> = 80 MPa	Q <sub>A</sub> = 100 MPa	Q <sub>A</sub> = 120 MPa	Q <sub>A</sub> = 140 MPa	Q <sub>A</sub> = 160 MPa		
10 <sup>0</sup>	9	9	9	9	9	9			9		
10 <sup>-1</sup>	21		9	9	9	9			9		
10 <sup>-2</sup>	33		9	9	9	9			12		
10 <sup>-3</sup>	43			9	9	11			15		
10 <sup>-4</sup>	51			9	10	14			18		
10 <sup>-5</sup>	61				16	17			25		
10 <sup>-6</sup>	93					62			36		
10 <sup>-7</sup>											
10 <sup>-8</sup>											



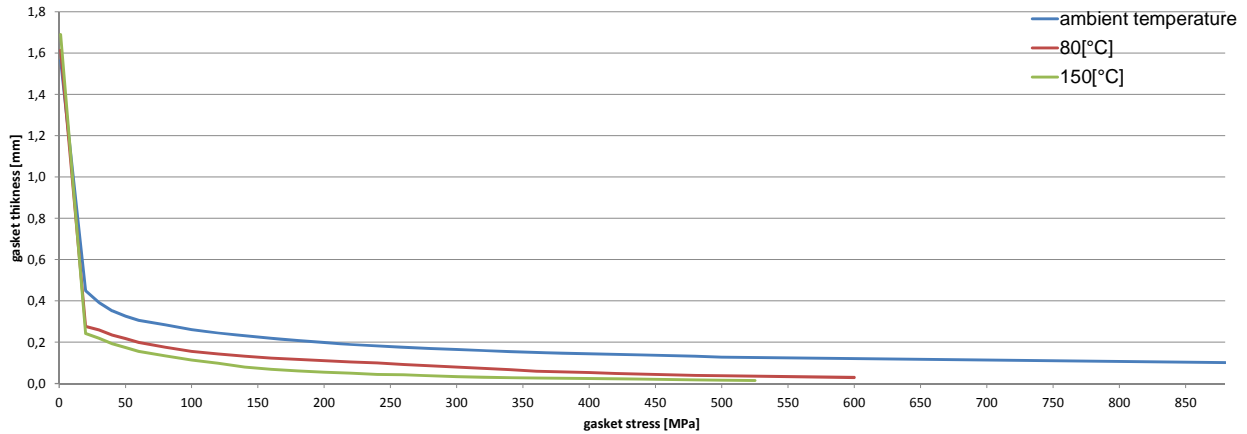
Company Address	KWO Dichtungstechnik GmbH, Am Eschengrund 3, 83135 Schechen, Germany
Gasket Type	Universal-F Premium tape (width = 5 mm)
Sealing element dimensions [mm]	75.5 x 65.5 x 2

Relaxation ratio $P_{QR}$ for stiffness $C = 500$ kN/mm					
Gasket stress [MPa]	ambient temperature	temperature 1 [80 °C]	temperature 2 [150 °C]		
Stress level 1 [30 MPa]	0,66	0,05	0,03		
Stress level 2 [40 MPa]	0,69	0,12	0,07		
PQR at $Q_{Smax}$	0,99 at 880 MPa	0,90 at 600 MPa	0,87 at 525 MPa		

Maximal applicable gasket stress $Q_{Smax}$				
$Q_{Smax}$ [MPa] ambient temperature	$Q_{Smax}$ [MPa] – temperature 1 [80 °C]	$Q_{Smax}$ [MPa] – temperature 2 [150 °C]		
880	600	525		

Sekant unloading modulus of the gasket $E_G$ [MPa] and gasket thickness $e_G$ [mm]						
Gasket stress [MPa]	ambient temperature		temperature 1 [80 °C]		temperature 2 [150 °C]	
	$E_G$ [MPa]	$e_G$ [mm]	$E_G$ [MPa]	$e_G$ [mm]	$E_G$ [MPa]	$e_G$ [mm]
1		1,564		1,614		1,690
20	567	0,450	1241	0,277	1304	0,243
30	1030	0,393	1499	0,260	3132	0,219
40	1555	0,352	2552	0,234	3747	0,193
50	1661	0,326	3605	0,218	3953	0,174
60	3184	0,307	1972	0,200	6149	0,156
80	2782	0,285	4647	0,176	3522	0,133
100	2505	0,262	2986	0,156	5773	0,114
120	2740	0,244	2584	0,143	4994	0,098
140	2905	0,231	4224	0,133	3096	0,080
160	3547	0,219	2925	0,124	2110	0,069
180	2870	0,208	2848	0,116	1437	0,062
200	2521	0,199	3581	0,111	1728	0,055
220	2328	0,189	3400	0,104	1244	0,050
240	2854	0,182	2884	0,099	1037	0,045
260	3094	0,176	1888	0,092	1228	0,042
280	3244	0,170	1687	0,085	887	0,038
300	4435	0,165	1509	0,079	792	0,034
320	4104	0,161	1237	0,072	713	0,031
340	3374	0,155	1146	0,067	630	0,028
360	3468	0,150	904	0,060	578	0,027
380	4282	0,147	934	0,055	561	0,025
400	4027	0,144	1103	0,053	566	0,024
420	4150	0,141	1021	0,049	644	0,022
440	4185	0,138	976	0,045	697	0,021
460	3454	0,135	904	0,042	654	0,019
480	3268	0,132	836	0,039	573	0,017
500	2645	0,127	845	0,037	509	0,016
880 / 600 / 525	2126	0,102	679	0,029	481	0,015

### Gasket thickness $e_G$



Note: the content of darkened cells was not determined respectively is unnecessary

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14.03.2014

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