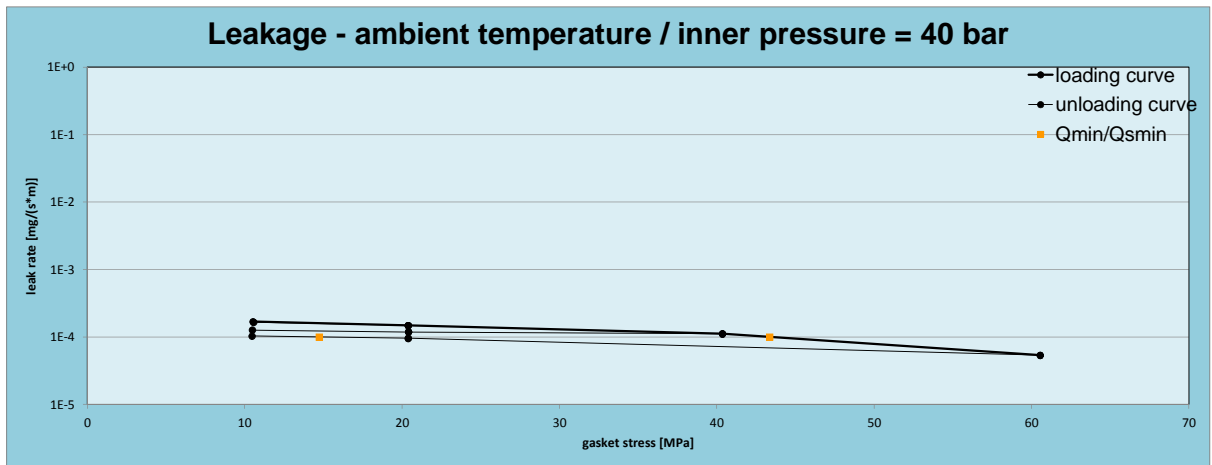


Company Address	<b>IDT Industrie- und Dichtungstechnik GmbH Werk Kupferring, Gewerbering 6, 09456 Annaberg-Buchholz, Germany</b>	According to <b>DIN EN 13555 2014-07</b>
Gasket Type	<b>Elastik-Dichtung ED30 WS 1.4571/71110/3825</b>	
Sealing element dimensions [mm]	<b>49x92x6.5</b>	

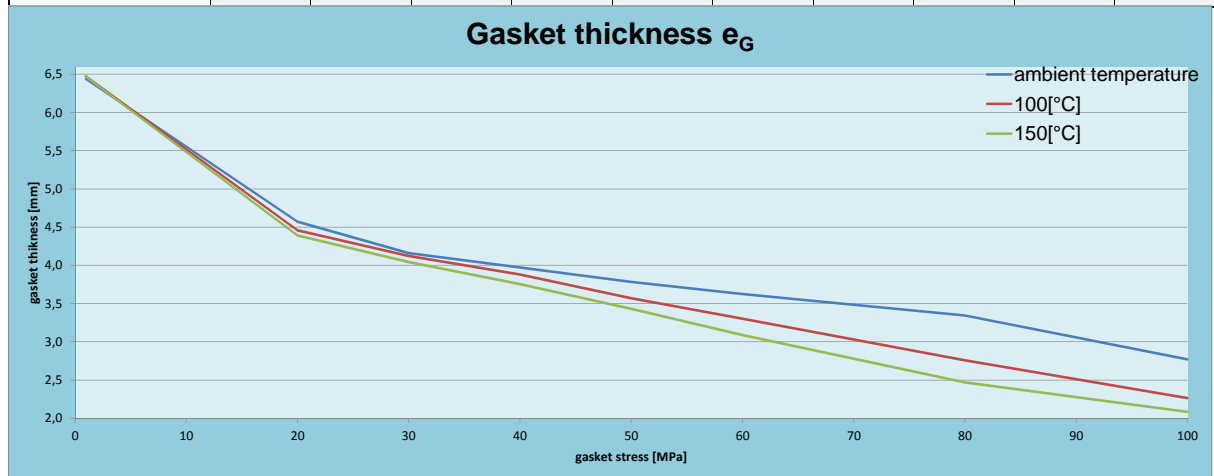
		Minimum stress to seal $Q_{min/L}$ (at assembly), $Q_{Smin/L}$ (after off-loading) for p = 40 bar									
L [mg/(s·m)]	$Q_{min/L}$ [MPa]	$Q_{Smin/L}$ [MPa]									
		$Q_A=20$ MPa	$Q_A=40$ MPa	$Q_A=60$ MPa							
$10^{-0}$	10			10							
$10^{-1}$	10			10							
$10^{-2}$	10			10							
$10^{-3}$	10			10							
$10^{-4}$	43			15							
$10^{-5}$											
$10^{-6}$											
$10^{-7}$											
$10^{-8}$											



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Relaxation ratio $P_{QR}$ for stiffness $C = 500$ kN/mm										
Gasket stress	ambient temperature		temperature 1 [100 °C]		temperature 2 [150 °C]		$P_{QR}$	$\Delta e_{Gc}$ [mm]	$P_{QR}$	$\Delta e_{Gc}$ [mm]
	$P_{QR}$	$\Delta e_{Gc}$ [mm]	$P_{QR}$	$\Delta e_{Gc}$ [mm]	$P_{QR}$	$\Delta e_{Gc}$ [mm]				
Stress level 1 [10 MPa]	0.90	0.042	0.86	0.012	0.80	0.017				
Stress level 2 [20 MPa]					0.78	0.037				
Stress level 3 [30 MPa]	0.94	0.015			0.77	0.059				
Stress level 4 [50 MPa]			0.74	0.111	0.65	0.149				
$P_{QR}$ and $\Delta e_{Gc}$ at maximal applicable gasket stress $Q_{Smax}$										
$P_{QR}$ at $Q_{Smax}$	0.95	0.025	0.76	0.123	0.60	0.201				
$Q_{Smax}$	60 MPa		60 MPa		60 MPa					

Sekant unloading modulus of the gasket $E_G$ [MPa] and gasket thickness $e_G$ [mm]										
Gasket stress [MPa]	ambient temperature		temperature 1 [100 °C]		temperature 2 [150 °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		6.505		6.545		6.500				
1		6.438		6.474		6.467				
20	638	4.571	595	4.461	590	4.394				
30	987	4.162	926	4.124	864	4.044				
40	1296	3.971	1197	3.881	1181	3.757				
50	1625	3.785	1584	3.571	1495	3.435				
60	2044	3.625	1853	3.303	1902	3.091				
80	2459	3.345	2698	2.760	2688	2.469				
100	3814	2.771	3033	2.263	3134	2.083				
120										
140										
160										
180										
200										
220										
240										
260										
280										
300										
320										
340										
360										
380										
400										
420										
440										
460										
480										
500										
940										



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