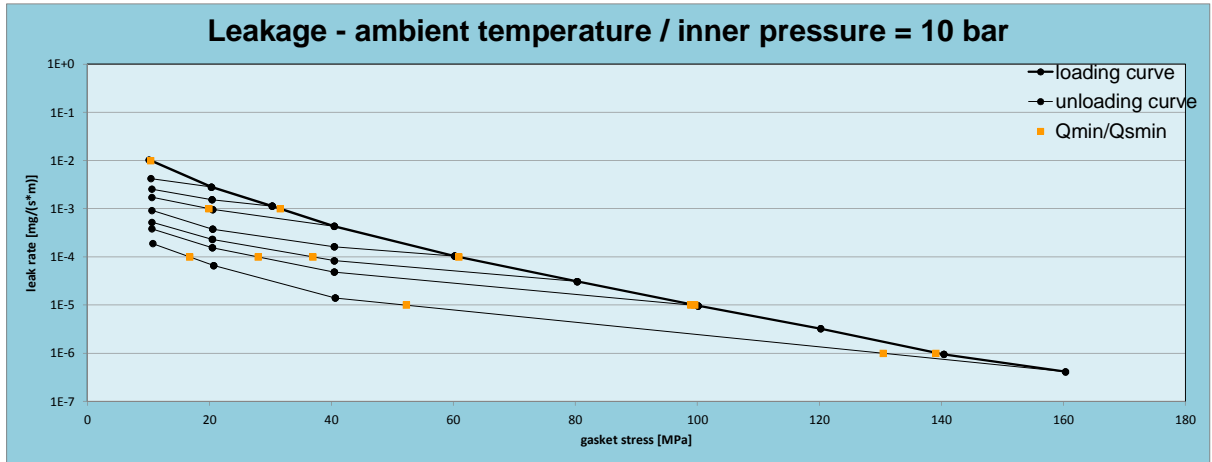
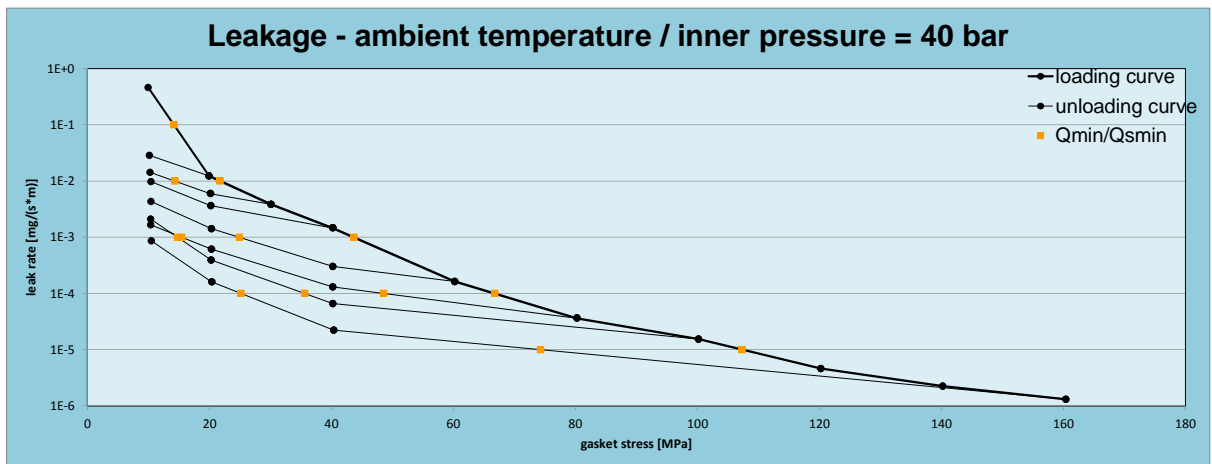


Company Address	IDT Industrie- und Dichtungstechnik GmbH Werk Kupferring, Gewerbering 6, 09456 Annaberg-Buchholz, Germany	According to DIN EN 13555 2014-07
Gasket Type	IDT - Kammprofilichtung mit SIGRAFLEX-MF KD10-20-30 WS 1.4571/WS 3871-MF	
Sealing element dimensions [mm]	53x69x92x5	

		Minimum stress to seal $Q_{min/L}$ (at assembly), $Q_{Smin/L}$ (after off-loading) for p = 10 bar												
L [mg/(s*m)]	$Q_{min/L}$ [MPa]	$Q_{Smin/L}$ [MPa]												
		$Q_A=20$ MPa	$Q_A=30$ 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				
10^{-0}				10			10							
10^{-1}				10			10							10
10^{-2}	10			10			10							10
10^{-3}	32			20			10							10
10^{-4}	61						37							17
10^{-5}	100													52
10^{-6}	139													130
10^{-7}														
10^{-8}														



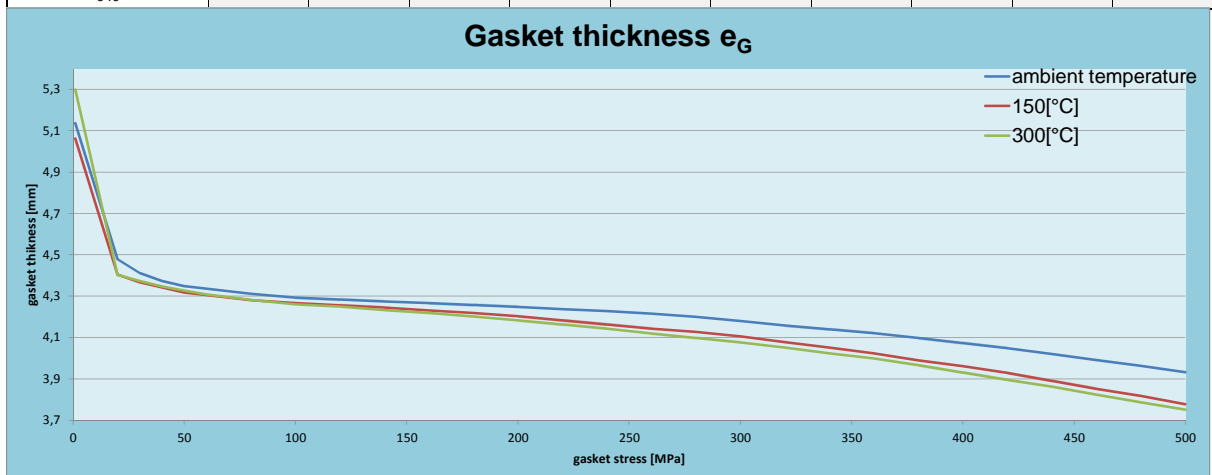
		Minimum stress to seal $Q_{min/L}$ (at assembly), $Q_{Smin/L}$ (after off-loading) for p = 40 bar												
L [mg/(s*m)]	$Q_{min/L}$ [MPa]	$Q_{Smin/L}$ [MPa]												
		$Q_A=20$ MPa	$Q_A=30$ MPa	$Q_A=40$ MPa	$Q_A=60$ MPa	$Q_A=80$ MPa	$Q_A=100$ MPa	$Q_A=120$ MPa	$Q_A=140$ MPa	$Q_A=160$ MPa				
10^{-0}				10			10							10
10^{-1}	14			10			10							10
10^{-2}	22			14			10							10
10^{-3}	44						25							10
10^{-4}	67						49							25
10^{-5}	107													74
10^{-6}														
10^{-7}														
10^{-8}														



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Sealing element dimensions [mm]	53x69x92x5	

Relaxation ratio P_{QR} for stiffness $C = 500$ kN/mm										
Gasket stress	ambient temperature		temperature 1 [150 °C]		temperature 2 [300 °C]		P_{QR}	Δe_{Gc} [mm]	P_{QR}	Δe_{Gc} [mm]
	P_{QR}	Δe_{Gc} [mm]	P_{QR}	Δe_{Gc} [mm]	P_{QR}	Δe_{Gc} [mm]				
Stress level 1 [30 MPa]	0,96	0,005	0,81	0,013	0,65	0,033				
Stress level 2 [80 MPa]	1,00	0,002	0,94	0,011	0,81	0,049				
P _{QR} and Δe _{Gc} at maximal applicable gasket stress Q _{Smax}										
P _{QR} at Q _{Smax}	0,99	0,015	0,95	0,072	0,94	0,093				
Q _{Smax}	500 MPa		500 MPa		500 MPa					

Sekant unloading modulus of the gasket E _G [MPa] and gasket thickness e _G [mm]										
Gasket stress [MPa]	ambient temperature		temperature 1 [150 °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		5,215		5,190		5,315				
1		5,137		5,062		5,300				
20	2544	4,478	3066	4,404	4935	4,403				
30	5655	4,412	5099	4,367	7084	4,374				
40	6273	4,373	8559	4,343	7497	4,347				
50	7187	4,349	7170	4,318	8899	4,327				
60	13484	4,335	12770	4,306	8287	4,309				
80	11670	4,312	10352	4,281	11715	4,282				
100	13485	4,293	16505	4,267	12278	4,261				
120	24376	4,284	21021	4,256	19671	4,249				
140	25568	4,274	24444	4,244	22410	4,233				
160	33598	4,266	22365	4,231	22070	4,219				
180	32227	4,257	23276	4,218	24891	4,201				
200	31118	4,247	29702	4,203	22682	4,183				
220	31744	4,237	27602	4,183	30765	4,164				
240	34602	4,228	31498	4,163	34634	4,142				
260	51700	4,216	33997	4,143	40058	4,119				
280	57943	4,200	57887	4,127	43073	4,098				
300	52799	4,181	75393	4,105	54950	4,076				
320	45066	4,158	41021	4,077	55427	4,052				
340	64011	4,140	43604	4,051	55958	4,024				
360	88826	4,121	59499	4,024	65750	3,999				
380	94960	4,098	52220	3,989	69516	3,966				
400	88878	4,074	71092	3,962	54649	3,930				
420	100056	4,048	109579	3,929	80306	3,895				
440	101864	4,021	86692	3,891	136746	3,862				
460	106880	3,991	75883	3,851	82426	3,824				
480	113314	3,963	123880	3,818	73476	3,786				
500	149075	3,933	93095	3,777	88607	3,752				
940										



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