

Company Address	IDT Industrie- und Dichtungstechnik GmbH IDT Werk Kupferring, Postfach 100 152, D-09441 Annaberg-Buchholz
Gasket Type	IDT-UNIFLUOR-Flachdichtung WS 7745-HB FD11 Äußerer Bereich vorverdichtet mit Innenbördel aus Dyneon™ TFM™ 1600 Dichtungsdicke 2,0mm
Thickness e_{GO} [mm]	1,98

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]	$Q_A = 80$ [MPa]	$Q_A = 100$ [MPa]	$Q_A = 120$ [MPa]	$Q_A = 140$ [MPa]	$Q_A = 160$ [MPa]
10^0	<10	<10	<10	<10	<10	<10	<10	<10	<10
10^{-1}	<10	<10	<10	<10	<10	<10	<10	<10	<10
10^{-2}	<10	<10	<10	<10	<10	<10	<10	<10	<10
10^{-3}	<10	<10	<10	<10	<10	<10	<10	<10	<10
10^{-4}	<10	<10	<10	<10	<10	<10	<10	<10	<10
10^{-5}	22		22	10	13	16	<10		
10^{-6}	70				70	68	65		
10^{-7}	110								
10^{-8}									

Relaxation ratio P_{QR} for stiffness $C = 500$ kN/mm			
Gasket stress [MPa]	ambient temperature	temperature 1 [150 °C]	temperature 2 [225 °C]
Stress level 1 [10 MPa]	0,73	0,40	0,29
Stress level 2 [30 MPa]	0,84	0,44	0,32
Q_{Smax} [40 / 40 / 40 MPa]	0,91	0,45	0,35

Maximal applicable gasket stress Q_{Smax}		
Q_{Smax} [MPa] – ambient temperature	Q_{Smax} [MPa] – temperature 1 [150 °C]	Q_{Smax} [MPa] – temperature 2 [225 °C]
40	40	40

Sekant unloading modulus of the gasket E_G [MPa]			
Gasket stress [MPa]	ambient temperature	temperature 1 [150 °C]	temperature 2 [225 °C]
2,5	23	33	46
5	74	77	76
10	219	210	199
20	434	485	422
30	658	790	481
40	750	733	1022
50			
60			
80			
100			
120			
140			
160			
180			
200			
220			
240			