

Company Address	IDT Industrie- und Dichtungstechnik GmbH IDT Werk Kupferring, Postfach 100 152, D-09441 Annaberg-Buchholz
Gasket Type	IDT-HOSTAFLON [®] -Elastik-Dichtung PW-I WS 7110/1.4571, ED01 Hülle Dyneon [™] TFM [™] 1600, Wellring 1.4571, Dicke 1,5 mm, Teilung 3,0 mm
Thickness e _{CO} [mm]	3,5

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 ⁻¹	<10	<10	<10	<10	<10				<10
10 ⁻²	<10	<10	<10	<10	<10				<10
10 ⁻³	<10	<10	<10	<10	<10				<10
10 ⁻⁴	<10	<10	<10	<10	<10				<10
10 ⁻⁵	48			42	29				19
10 ⁻⁶									
10 ⁻⁷									
10 ⁻⁸									

Relaxation ratio P_{QR} for stiffness C = 500 kN/mm			
Gasket stress [MPa]	ambient temperature	temperature 1 [100 °C]	temperature 2 [150 °C]
Stress level 1 [30 MPa]	0.84	0.69	0.64
Stress level 2 [50 MPa]	0.94	0.83	0.61
Q_{Smax} [90 / 70 / 60 MPa]	0.92	0.80	0.72

Maximal applicable gasket stress Q_{Smax}		
Q_{Smax} [MPa] – ambient temperature	Q_{Smax} [MPa] – temperature 1 [100 °C]	Q_{Smax} [MPa] – temperature 2 [150 °C]
90	70	60

Sekant unloading modulus of the gasket E_G [MPa]			
Gasket stress [MPa]	ambient temperature	temperature 1 [100 °C]	temperature 2 [150 °C]
20	424	428	579
30	915	895	1110
40	1295	1178	1578
50	1446	1517	1911
60	1734	1763	1976
80	2652	1982	
100	6079	2619	
120	3480	2926	
140	3679	3219	
160	3332	4028	
180	4428		
200	4028		
220	3683		
240			

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

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