

Company Address	Kempchen Dichtungstechnik - 46049 Oberhausen - Alleestraße 4
Gasket Type	Kammprofilichtung B29A-PTFE ungesintert (0,35 mm)
Thickness $e_{GO}$ [mm]	4,5

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]
$10^{-0}$									
$10^{-1}$	11								
$10^{-2}$	12								
$10^{-3}$	14								
$10^{-4}$	16	<10							
$10^{-5}$	19	12	<10						
$10^{-6}$	43			50	33	26			22
$10^{-7}$									
$10^{-8}$									

Relaxation ratio $P_{QR}$ for stiffness $C = 500$ kN/mm			
Gasket stress [MPa]	ambient temperature	temperature 1 [100 °C]	temperature 2 [250 °C]
Stress level 1 [90 MPa]	0,94	0,73	0,66
Stress level 2 [180 MPa]	1,00	0,97	0,89
$Q_{Smax}$ [480 MPa]	1,00	0,99	0,98

Maximal applicable gasket stress $Q_{Smax}$		
$Q_{Smax}$ [MPa] – ambient temperature	$Q_{Smax}$ [MPa] – temperature 1 [100 °C]	$Q_{Smax}$ [MPa] – temperature 2 [250 °C]
480	480	480

Sekant unloading modulus of the gasket $E_G$ [MPa]			
Gasket stress [MPa]	ambient temperature	temperature 1 [100 °C]	temperature 2 [250 °C]
20	3053	4597	4053
30	6322	6044	6451
40	5674	8394	8003
50	6501	10076	10199
60	7983	11839	14370
80	9576	14501	12176
100	10881	20571	12661
120	11715	18175	15507
140	15751	17617	19272
160	15145	16114	18875
180	15484	17535	20075
200	16221	19405	23067
300	19760	22103	19395
400	16977	20974	17945
480	19818	21282	21378

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

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