

Company Address	Fibras y Elastómeros, S.A. , Montero c/ El Juncal s/n Ed Fuentel, 2º Local 11 48510 VALLE DE TRAPAGA
Gasket Type	BELPAGRAF SE
Thickness e_{GO} [mm]	2 mm

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^{-1}	15,0	<10	<10	<10	<10	<10			<10
10^{-2}	36,0		25,0	<10	<10	<10			<10
10^{-3}	68,0				32,0	15,0			<10
10^{-4}	124,0								19,0
10^{-5}	154,0								86,0
10^{-6}									
10^{-7}									
10^{-8}									

Relaxation ratio P_{QR} for stiffness $C = 500$ kN/mm			
Gasket stress [MPa]	ambient temperature	temperature 1 [200°C]	temperature 2 [300°C]
Stress level 1 [30 MPa]	1,00	0,91	0,87
Stress level 2 [50 MPa]	1,00	0,94	0,92
Q_{Smax} [220/180/180MPa]	1,00	0,98	0,97

Maximal applicable gasket stress Q_{Smax}		
Q_{Smax} [MPa] – ambient temperature	Q_{Smax} [MPa] – temperature 1 [200°C]	Q_{Smax} [MPa] – temperature 2 [300°C]
220,0	180,0	180,0

Sekant unloading modulus of the gasket E_g [MPa]			
Gasket stress [MPa]	ambient temperature	temperature 1 [200°C]	temperature 2 [300°C]
20	573	478	498
30	880	921	740
40	1271	1129	1139
50	1659	1505	1599
60	1980	2114	1681
80	2901	3460	2590
100	3433	3185	3455
120	3617	3154	3097
140	5603	4740	3531
160	8520	6153	4226
180	6916	6709	4023
200	6921		
220	7005		
225			

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

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