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Gasket Type	<i>Sigma 511 - PTFE with silica filler</i>
Thickness $e_{G0}$ [mm]	<i>1.6mm</i>

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]
$10^{-0}$	13	<10	<10	<10	<10	<10			<10
$10^{-1}$	19	15	<10	<10	<10	<10			<10
$10^{-2}$	26		<10	<10	<10	<10			<10
$10^{-3}$	34		15	<10	<10	<10			<10
$10^{-4}$	43			15	10	10			10
$10^{-5}$	86					44			40
$10^{-6}$									
$10^{-7}$									
$10^{-8}$									

Relaxation ratio $P_{QR}$ for stiffness $C = 500$ kN/mm			
Gasket stress [MPa]	ambient temperature	temperature 1 [175°C]	temperature 2 [225°C]
Stress level 1 [30 MPa]		0,81	0,64
Stress level 2 [60 MPa]		0,74	0,52
$Q_{Smax}$ [220 MPa]			

Maximal applicable gasket stress $Q_{Smax}$		
$Q_{Smax}$ [MPa] – ambient temperature	$Q_{Smax}$ [MPa] – temperature 1 [175°C]	$Q_{Smax}$ [MPa] – temperature 2 [225°C]
>220	>220	>220

Sekant unloading modulus of the gasket $E_G$ [MPa]			
Gasket stress [MPa]	ambient temperature	temperature 1 [175°C]	temperature 2 [225°C]
20	1559	1102	864
30	1795	1451	1077
40	1838	1346	1219
50	2504	1602	1586
60	2358	1737	1419
80	3644	2124	1551
100	3715	2363	1794
120	5657	2607	2059
140	5022	2409	1943
160	4081	2648	2754
180	4043	2932	2312
200	3772	3293	1961
220	3984	3132	2531
225			

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

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