| | |
|---|---|
| Company Address | *Teadit International Produktions GmbH, Rosenheimerstraße 10, 6330 Kufstein (Austria)* |
| Gasket Type | *TEALON TF1590* |
| Thickness $e_{GO}$ [mm] | *2* |

| 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 |
| $10^{-1}$ | 10 | 10 | 10 | 10 | 10 | 10 | | | 10 |
| $10^{-2}$ | 21 | | 10 | 10 | 10 | 10 | | | 10 |
| $10^{-3}$ | 29 | | 10 | 10 | 10 | 10 | | | 10 |
| $10^{-4}$ | 38 | | 12 | 10 | 10 | 10 | | | 10 |
| $10^{-5}$ | 75 | | | | 52 | 25 | | | 17 |
| $10^{-6}$ | | | | | | | | | |
| $10^{-7}$ | | | | | | | | | |
| $10^{-8}$ | | | | | | | | | |

| Relaxation ratio **$P_{QR}$** for stiffness **C** = 500 kN/mm | | | | | | |
|---|---|---|---|---|---|---|
| Gasket stress [MPa] | ambient temperature | | temperature 1 [100 °C] | | temperature 2 [250 °C] | |
| Stress level 1 [ MPa] | 0,95 | 30 | 0,76 | 30 | 0,41 | 30 |
| Stress level 2 [ MPa] | 0,87 | 140 | 0,7 | 140 | 0,43 | 100 |
| $Q_{Smax}$ [ MPa] | 0,96 | 240 | 0,78 | 240 | 0,61 | 160 |

| 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] |
| 240 | 240 | 160 |

| Sekant unloading modulus of the gasket **$E_G$** [MPa] | | | |
|---|---|---|---|
| Gasket stress [MPa] | ambient temperature | temperature 1 [100 °C] | temperature 2 [250 °C] |
| 20 | 1603 | 1481 | 899 |
| 30 | 2284 | 1961 | 1262 |
| 40 | 2384 | 2511 | 1325 |
| 50 | 2467 | 2675 | 1655 |
| 60 | 2935 | 2738 | 2151 |
| 80 | 3082 | 2963 | 2689 |
| 100 | 4569 | 3348 | 3732 |
| 120 | 6711 | 4410 | 2233 |
| 140 | 7195 | 3458 | 2144 |
| 160 | 6260 | 3330 | 2099 |
| 180 | 6002 | 3217 | |
| 200 | 5928 | 3171 | |
| 220 | 5828 | 3016 | |
| 240 | 5633 | 3010 | |

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

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