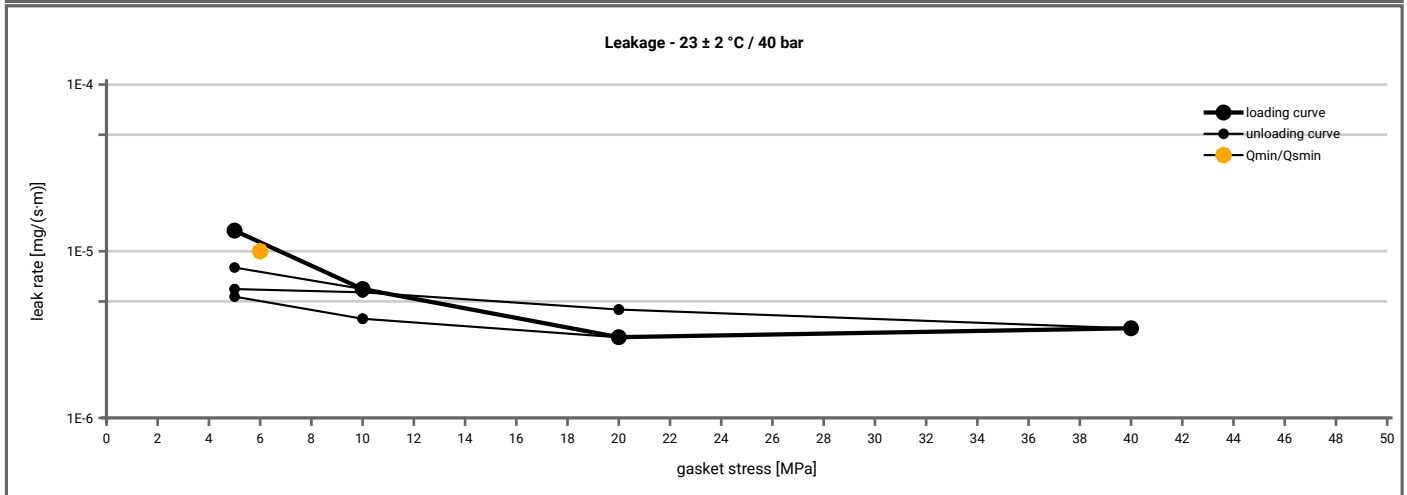


Manufacturer address	Kroll + Ziller GmbH & Co. KG, Reisholzstr. 15, 40721 Hilden, DE	According to <b>DIN EN 13555</b> 2005-2
Product name	G-ST-P/S EPDM	
Product dimensions	92 x 49 x 4 mm (DIN EN 1514-1 1997-8)	

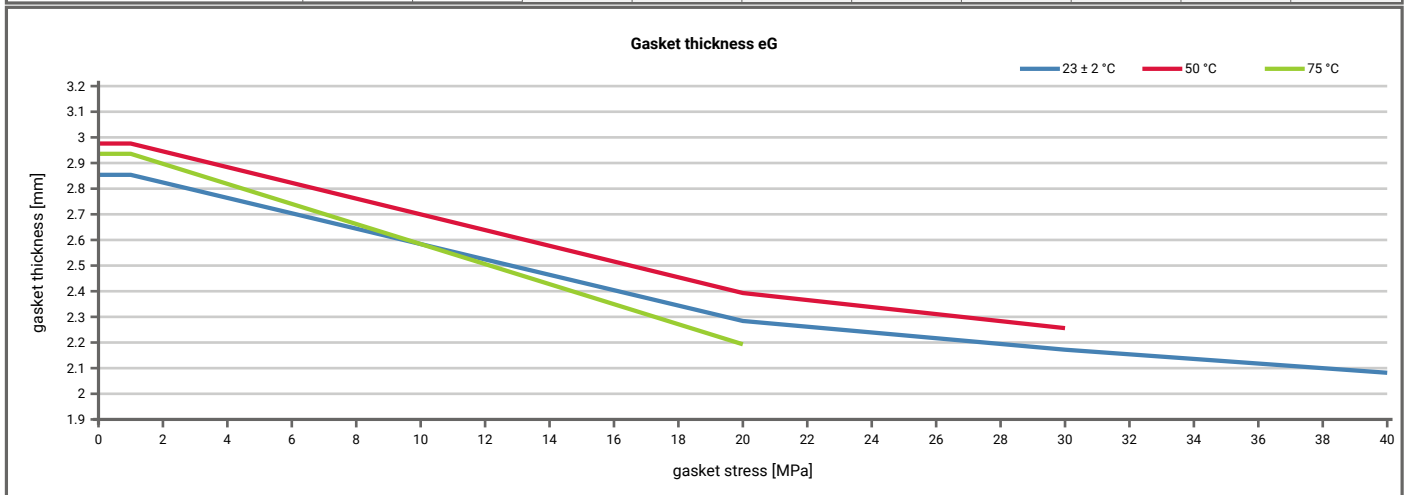
Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 40$ bar ( $T = 23 \pm 2$ °C)					
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]			
		$Q_A = 5$ [MPa]	$Q_A = 10$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 40$ [MPa]
1E-0	5		5	5	5
1E-1	5		5	5	5
1E-2	5		5	5	5
1E-3	5		5	5	5
1E-4	5		5	5	5
1E-5	7		5	5	5
1E-6					
1E-7					
1E-8					



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Relaxation ratio $P_{QR}$ for stiffness $C = 500$ [kN/mm]										
Gasket stress	23 ± 2 °C		Temperature 1 [50 °C]		Temperature 2 [75 °C]		$P_{QR}$	$\Delta e_{Gc}$ [µm]	$P_{QR}$	$\Delta e_{Gc}$ [µm]
	$P_{QR}$	$\Delta e_{Gc}$ [µm]	$P_{QR}$	$\Delta e_{Gc}$ [µm]	$P_{QR}$	$\Delta e_{Gc}$ [µm]				
Stress level 1 [10 MPa]	0.93	6	0.99	1	0.93	6				
Stress level 2 [20 MPa]	0.84	27	0.86	23	0.75	42				
Stress level 3 [30 MPa]	0.79	54	0.57	110						
P <sub>QR</sub> and $\Delta e_{Gc}$ at maximum gasket stress to be applied $Q_{smax}$										
<b>P<sub>QR</sub> at <math>Q_{smax}</math></b>	0.79	70	0.57	110	0.75	42				
<b><math>Q_{smax}</math></b>	40 MPa		30 MPa		20 MPa					

Sekant unloading modulus of the gasket $E_G$ [MPa] and gasket thickness $e_G$ [mm]										
Gasket stress [MPa]	23 ± 2 °C		Temperature 1 [50 °C]		Temperature 2 [75 °C]		$E_G$ [MPa]	$e_G$ [mm]	$E_G$ [MPa]	$e_G$ [mm]
	$E_G$ [MPa]	$e_G$ [mm]	$E_G$ [MPa]	$e_G$ [mm]	$E_G$ [MPa]	$e_G$ [mm]				
0	0	2.854	0	2.976	0	2.936				
1	0	2.854	0	2.976	0	2.936				
20	609	2.284	488	2.393	497	2.193				
30	1003	2.172	787	2.256						
40	1411	2.082								



Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: 1	Creation date of this sheet: 2011-09-27
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