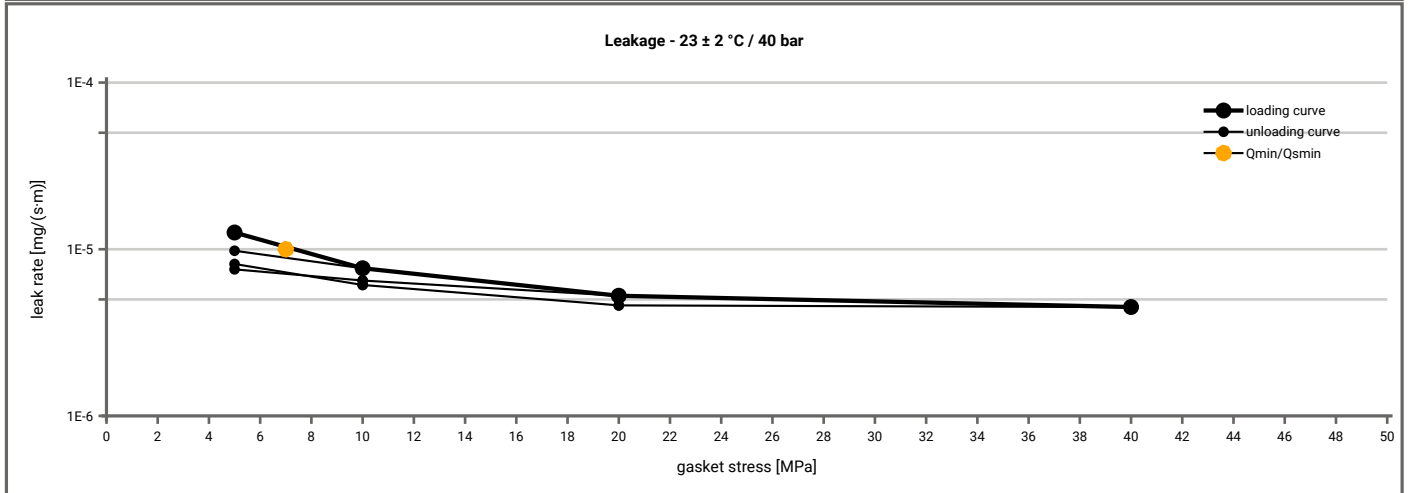


Manufacturer address	Kroll + Ziller GmbH & Co. KG, Reisholzstr. 15, 40721 Hilden, DE	According to DIN EN 13555 2005-2
Product name	G-ST-P/S FPM	
Product dimensions	92 x 49 x 4 mm (DIN EN 1514-1 1997-8)	

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 [75 °C]		Temperature 2 [100 °C]		P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]
	P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]				
Stress level 1 [20 MPa]	0.75	42	0.36	107	0.38	105				
Stress level 2 [30 MPa]	0.83	44	0.33	169	0.29	179				
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied Q_{smax}										
P_{QR} at Q_{smax}	0.82	60	0.36	217	0.29	179				
Q_{smax}	40 MPa		40 MPa		30 MPa					

Sekant unloading modulus of the gasket E_G [MPa] and gasket thickness e_G [mm]										
Gasket stress [MPa]	23 ± 2 °C		Temperature 1 [75 °C]		Temperature 2 [100 °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	3.042	0	3.115	0	2.919				
1	0	3.042	0	3.115	0	2.919				
20	769	2.683	546	2.207	675	1.729				
30	1219	2.620	1237	1.993	2124	1.512				
40	1551	2.569	3158	1.772						

