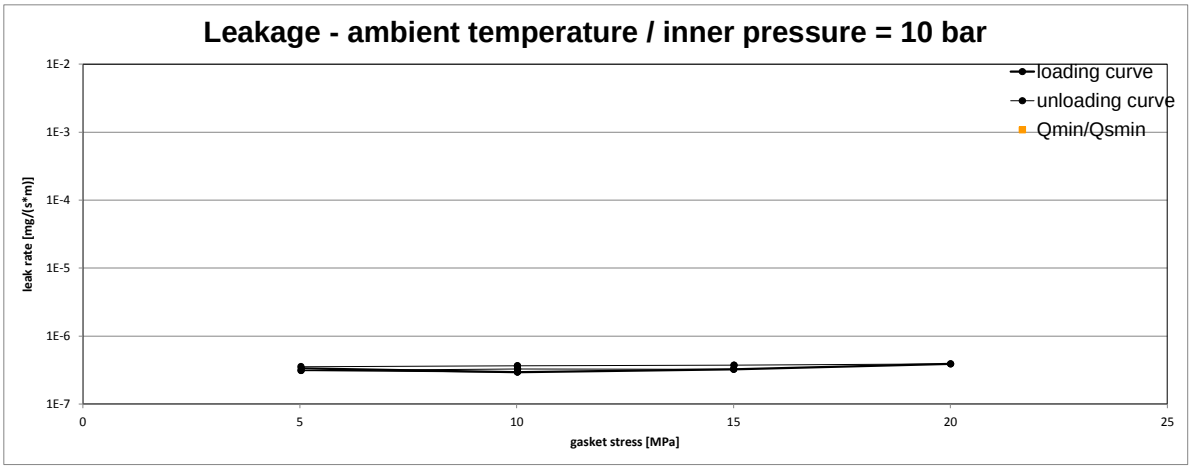
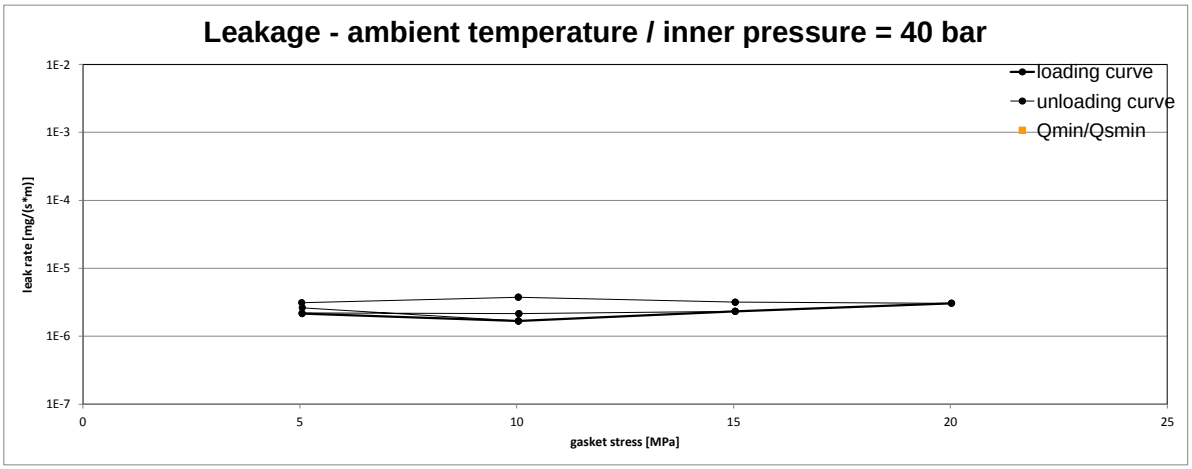
Company Address	Möller Industrietechnik GmbH, Brunnenweg 10, 39444 Hecklingen, Germany	According to DIN EN 13555 2021-04
Gasket Type	RSG NBR	
Sealing element dimensions [mm]	92 x 49 x 4	

L [mg/(s*m)]	$Q_{min/L}$ [MPa]	Minimum stress to seal $Q_{min/L}$ (at assembly), $Q_{Smin/L}$ (after off-loading) for p = 10 bar $Q_{Smin/L}$ [MPa]									
		Q_A= 10 MPa	Q_A= 15 MPa	Q_A= 20 MPa							
10^{-0}	5	5	5	5							
10^{-1}	5	5	5	5							
10^{-2}	5	5	5	5							
10^{-3}	5	5	5	5							
10^{-4}	5	5	5	5							
10^{-5}	5	5	5	5							
10^{-6}	5	5	5	5							
10^{-7}											
10^{-8}											



L [mg/(s*m)]	$Q_{min/L}$ [MPa]	Minimum stress to seal $Q_{min/L}$ (at assembly), $Q_{Smin/L}$ (after off-loading) for p = 40 bar $Q_{Smin/L}$ [MPa]									
		Q_A= 10 MPa	Q_A= 15 MPa	Q_A= 20 MPa							
10^{-0}	5	5	5	5							
10^{-1}	5	5	5	5							
10^{-2}	5	5	5	5							
10^{-3}	5	5	5	5							
10^{-4}	5	5	5	5							
10^{-5}	5	5	5	5							
10^{-6}											
10^{-7}											
10^{-8}											

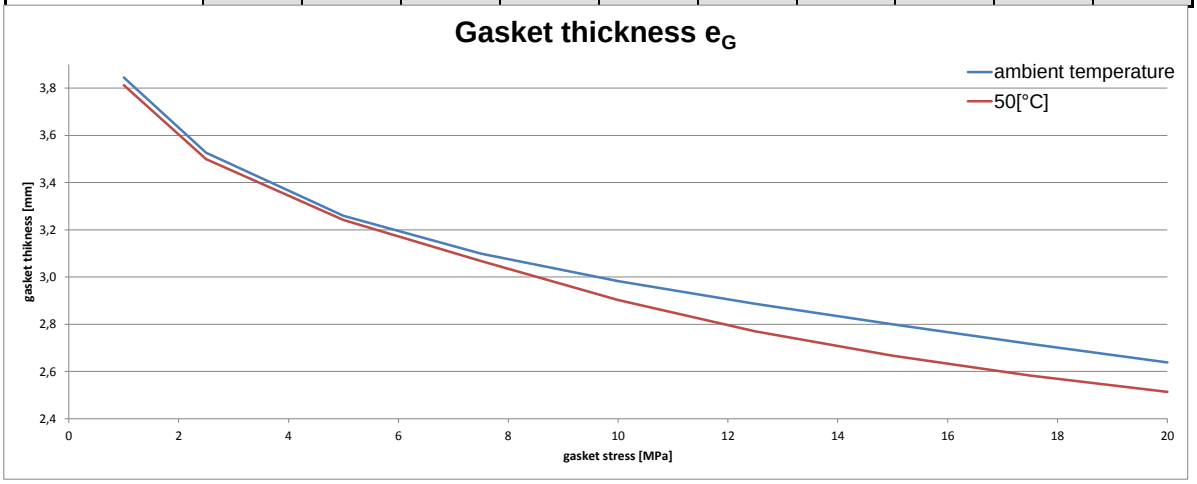


Note: the content of darkened cells was not determined respectively is unnecessary	Rev - No: **1**	Creation date of this sheet:	**2024-07-08**

Company Address	Möller Industrietechnik GmbH, Brunnenweg 10, 39444 Hecklingen, Germany	According to **DIN EN 13555 2021-04**
Gasket Type	*RSG NBR*	
Sealing element dimensions [mm]	*92 x 49 x 4*	

Relaxation ratio P_{QR} for stiffness **C** = 500 kN/mm										
Gasket stress	ambient temperature		temperature 1 [50 °C]							
	P_{QR}	Δe_{Gc} [mm]	P_{QR}	Δe_{Gc} [mm]	P_{QR}	Δe_{Gc} [mm]	P_{QR}	Δe_{Gc} [mm]	P_{QR}	Δe_{Gc} [mm]
Stress level 1 [5 MPa]	0.91	0.004	0.85	0.006						
Stress level 2 [10 MPa]	0.87	0.011	0.75	0.021						
P_{QR} and Δe_{Gc} at maximal applicable gasket stress Q_{smax}										
P_{QR} at Q_{Smax}	0.82	0.023	0.69	0.039						
Q_{Smax}	15 MPa		15 MPa							

Sekant unloading modulus of the gasket E_G [MPa] and gasket thickness e_G [mm]										
Gasket stress [MPa]	ambient temperature		temperature 1 [50 °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										
1		3.846		3.813						
2.5	25	3.526	24	3.500						
5	52	3.259	45	3.242						
7.5	91	3.100	78	3.068						
10	139	2.982	125	2.903						
12.5	199	2.886	192	2.769						
15	266	2.800	274	2.667						
17.5	352	2.717	359	2.583						
20	464	2.638	457	2.514						
140										
160										
180										
200										
220										
240										
260										
280										
300										
320										
340										
360										
380										
400										
420										
440										
460										
480										
500										
940										



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