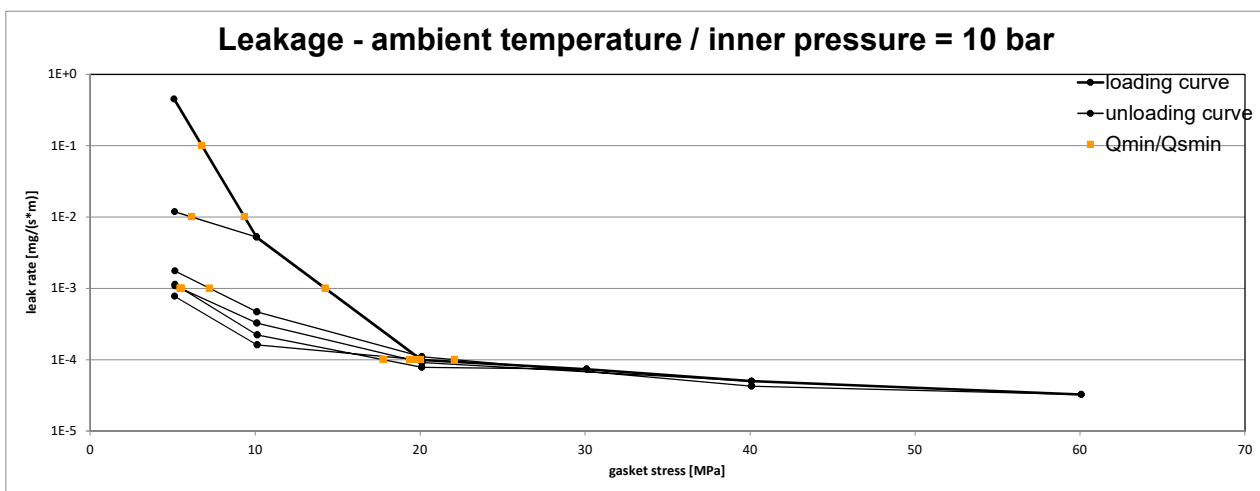
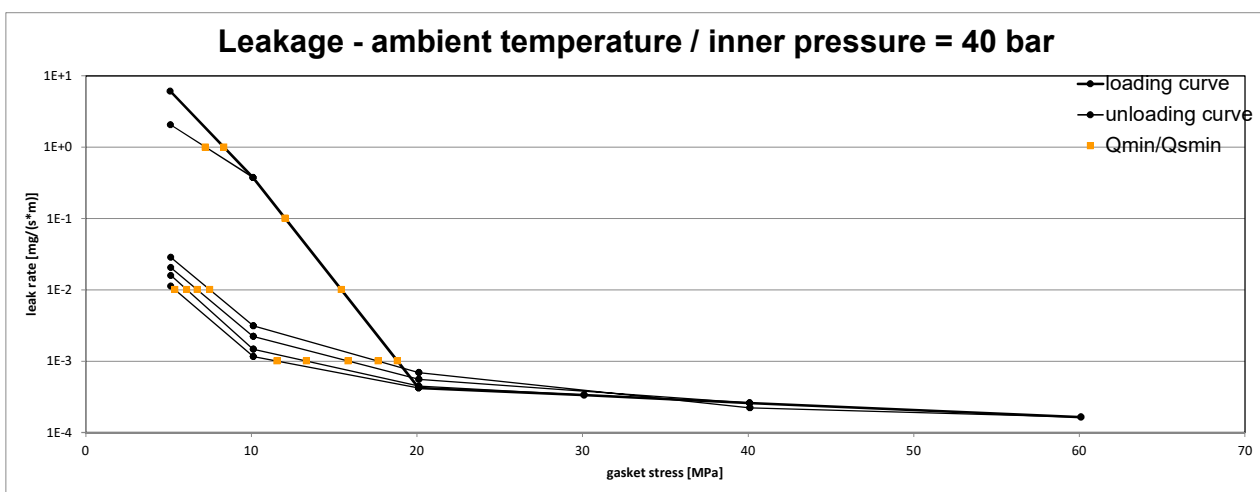


Company Address	FMI S.p.A., Via consolare 41/43, 25030 Zocco di Erbusco, Italy	According to DIN EN 13555 2014-07
Gasket Type	SICHEM S50	
Sealing element dimensions [mm]	92 x 49 x 2	

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 = 20 MPa	Q _A = 30 MPa	Q _A = 40 MPa	Q _A = 60 MPa							
		10 ⁻⁹	5	5	5	5	5	5					
10 ⁻¹	7	5	5	5	5	5							
10 ⁻²	9	6	5	5	5	5							
10 ⁻³	14		5	6	5	7							
10 ⁻⁴	20		20	18	19	22							
10 ⁻⁵													
10 ⁻⁶													
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 = 20 MPa	Q _A = 30 MPa	Q _A = 40 MPa	Q _A = 60 MPa							
		10 ⁻⁹	8	7	5	5	5	5					
10 ⁻¹	12		5	5	5	5							
10 ⁻²	15		5	6	7	8							
10 ⁻³	19		12	13	16	18							
10 ⁻⁴													
10 ⁻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: 2017-03-20

Company Address	FMI S.p.A., Via consolare 41/43, 25030 Zocco di Erbusco, Italy	According to DIN EN 13555 2014-07
Gasket Type	SICHEM S50	
Sealing element dimensions [mm]	92 x 49 x 2	

Relaxation ratio P_{QR} for stiffness $C = 500$ kN/mm										
Gasket stress	ambient temperature		temperature 1 [150 °C]		temperature 2 [250 °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 [10 MPa]	0.96	0.004	0.71	0.025	0.43	0.049				
Stress level 2 [20 MPa]	0.89	0.020	0.51	0.084	0.33	0.113				
P_{QR} and Δe_{Gc} at maximal applicable gasket stress Q_{Smax}										
P_{QR} at Q_{Smax}	0.94	0.030	0.64	0.153	0.38	0.158				
Q_{Smax}	60 MPa		50 MPa		30 MPa					

Sekant unloading modulus of the gasket E_G [MPa] and gasket thickness e_G [mm]										
Gasket stress [MPa]	ambient temperature		temperature 1 [150 °C]		temperature 2 [250 °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		1.939		1.947		1.942				
1		1.913		1.924		1.921				
5	1147	1.896	755	1.886	430	1.855				
10	1149	1.867	394	1.699	433	1.603				
15	1078	1.804	411	1.381	542	1.316				
20	925	1.599	580	1.214	644	1.130				
25	902	1.369	732	1.101	735	1.000				
30	1048	1.252	836	1.012	771	0.903				
40	1394	1.106	1102	0.875						
50	1726	1.002	1248	0.783						
60	1998	0.920								

