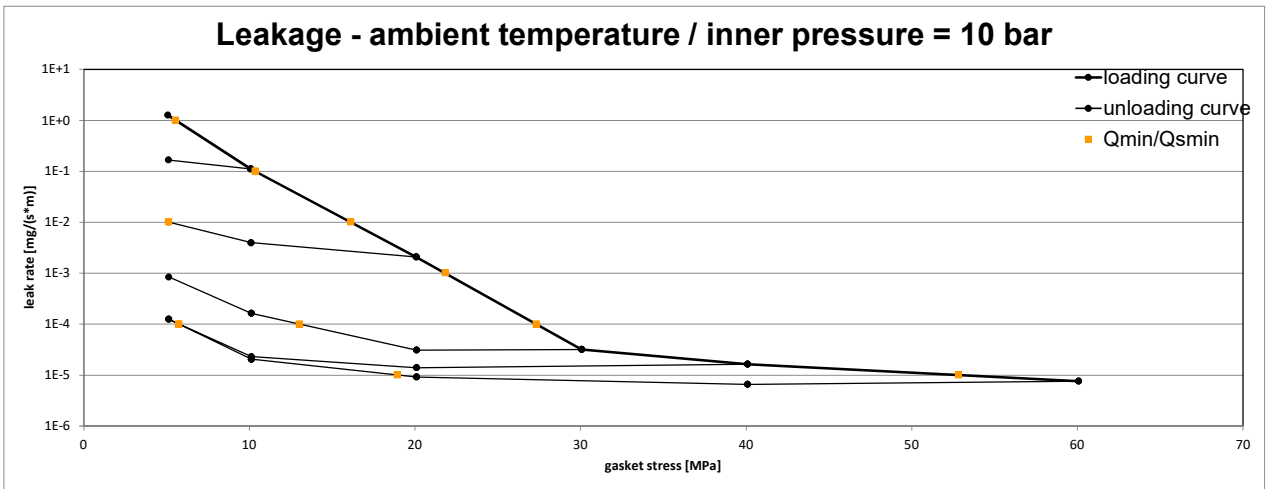
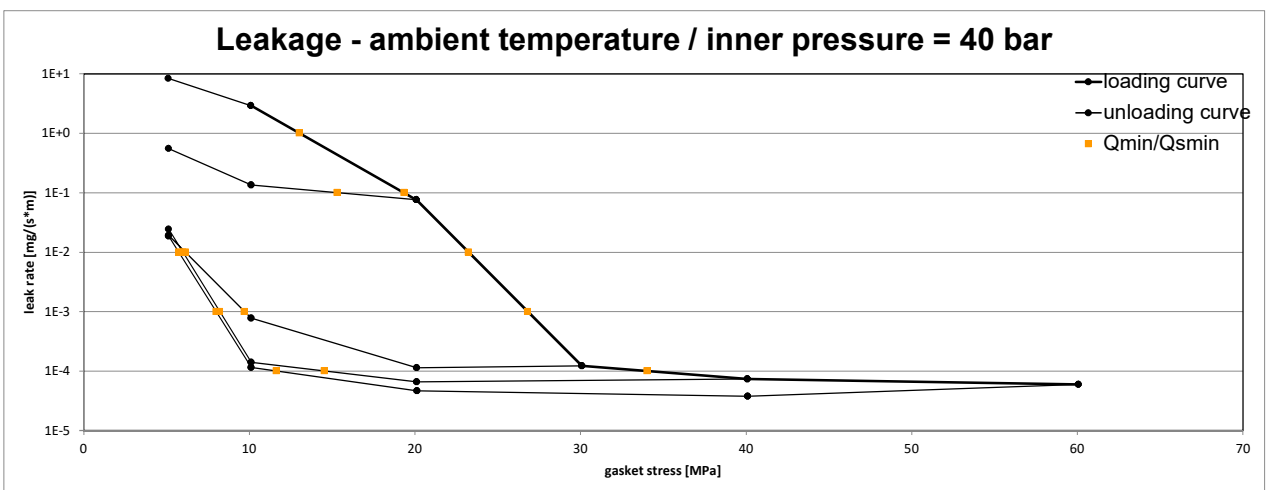


Company Address	FMI S.p.A., Via Consolare 41/43, 25030 Zocco di Erbusco, Italy	According to <b>DIN EN 13555</b> 2014-07
Gasket Type	SICHEM S33	
Sealing element dimensions [mm]	92 x 49 x 2	

L [mg/(s*m)]	Q <sub>min/L</sub> [MPa]	Minimum stress to seal Q <sub>min/L</sub> (at assembly), Q <sub>Smin/L</sub> (after off-loading) for p = 10 bar					Q <sub>Smin/L</sub> [MPa]				
		Q <sub>A</sub> = 10 MPa	Q <sub>A</sub> = 20 MPa	Q <sub>A</sub> = 30 MPa	Q <sub>A</sub> = 40 MPa	Q <sub>A</sub> = 60 MPa					
		10 <sup>0</sup>	6	5	5	5	5	5			
10 <sup>-1</sup>	10		5	5	5	5					
10 <sup>-2</sup>	16		5	5	5	5					
10 <sup>-3</sup>	22			5	5	5					
10 <sup>-4</sup>	27			13	6	6					
10 <sup>-5</sup>	53					19					
10 <sup>-6</sup>											
10 <sup>-7</sup>											
10 <sup>-8</sup>											



L [mg/(s*m)]	Q <sub>min/L</sub> [MPa]	Minimum stress to seal Q <sub>min/L</sub> (at assembly), Q <sub>Smin/L</sub> (after off-loading) for p = 40 bar					Q <sub>Smin/L</sub> [MPa]				
		Q <sub>A</sub> = 10 MPa	Q <sub>A</sub> = 20 MPa	Q <sub>A</sub> = 30 MPa	Q <sub>A</sub> = 40 MPa	Q <sub>A</sub> = 60 MPa					
		10 <sup>0</sup>	13		5	5	5	5			
10 <sup>-1</sup>	19		15	5	5	5					
10 <sup>-2</sup>	23			6	6	6					
10 <sup>-3</sup>	27			10	8	8					
10 <sup>-4</sup>	34				15	12					
10 <sup>-5</sup>											
10 <sup>-6</sup>											
10 <sup>-7</sup>											
10 <sup>-8</sup>											

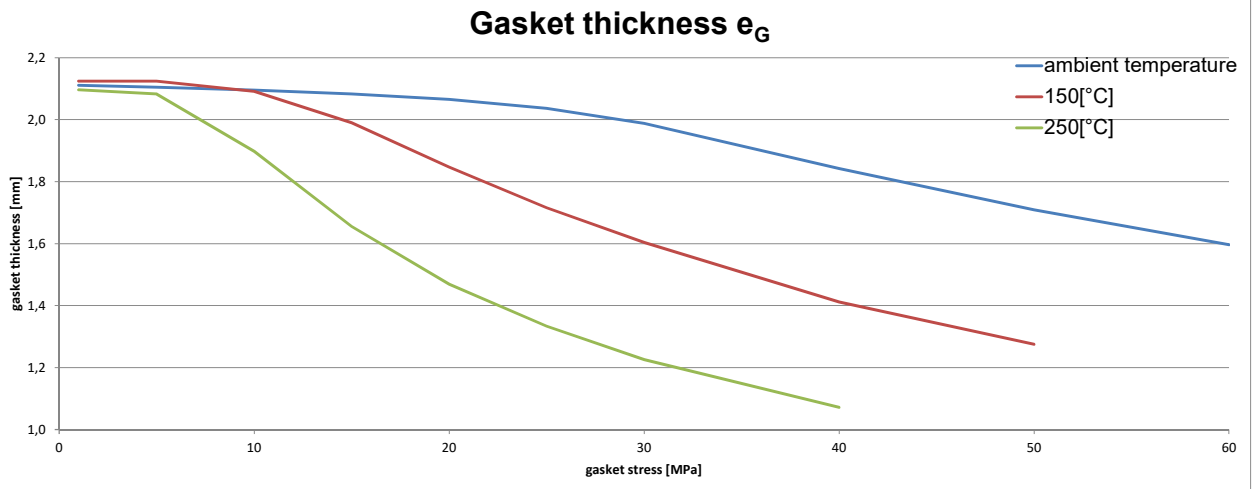


Note: the content of darkened cells was not determined respectively is unnecessary      Rev - No: 1      Creation date of this sheet: 2017-03-31

Company Address	FMI S.p.A., Via Consolare 41/43, 25030 Zocco di Erbusco, Italy	According to <b>DIN EN 13555</b> <b>2014-07</b>
Gasket Type	SICHEM S33	
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]					
	$P_{QR}$	$\Delta e_{Gc}$ [mm]	$P_{QR}$	$\Delta e_{Gc}$ [mm]	$P_{QR}$	$\Delta e_{Gc}$ [mm]	$P_{QR}$	$\Delta e_{Gc}$ [mm]	$P_{QR}$	$\Delta e_{Gc}$ [mm]
Stress level 1 [10 MPa]	0.97	0.002	0.90	0.009	0.63	0.031				
Stress level 2 [30 MPa]	0.95	0.011	0.57	0.109	0.37	0.160				
$P_{QR}$ and $\Delta e_{Gc}$ at maximal applicable gasket stress $Q_{Smax}$										
$P_{QR}$ at $Q_{Smax}$	0.90	0.052	0.59	0.176	0.34	0.222				
$Q_{Smax}$	60 MPa		50 MPa		40 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		2.112		2.125		2.097				
5	4183	2.105	3163	2.125	1343	2.083				
10	3841	2.096	2226	2.092	824	1.899				
15	3382	2.083	1148	1.990	924	1.655				
20	3494	2.065	1123	1.847	987	1.469				
25	3298	2.037	1247	1.716	1019	1.334				
30	3200	1.988	1335	1.604	1061	1.226				
40	3170	1.843	1752	1.412	1223	1.072				
50	3457	1.709	1975	1.275						
60	3845	1.596								



Note: the content of darkened cells was not determined respectively is unnecessary      Rev - No: 1      Creation date of this sheet: 2017-03-31