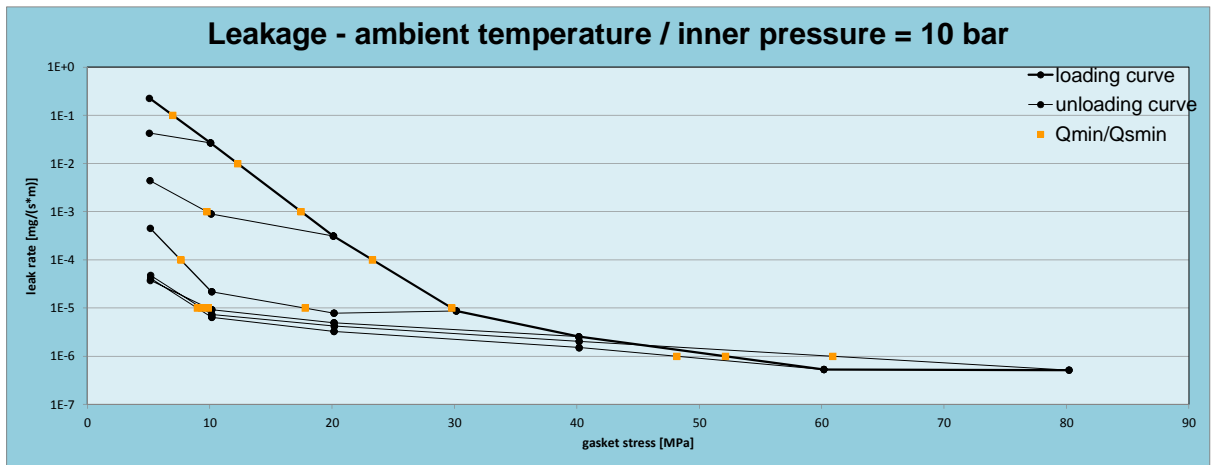
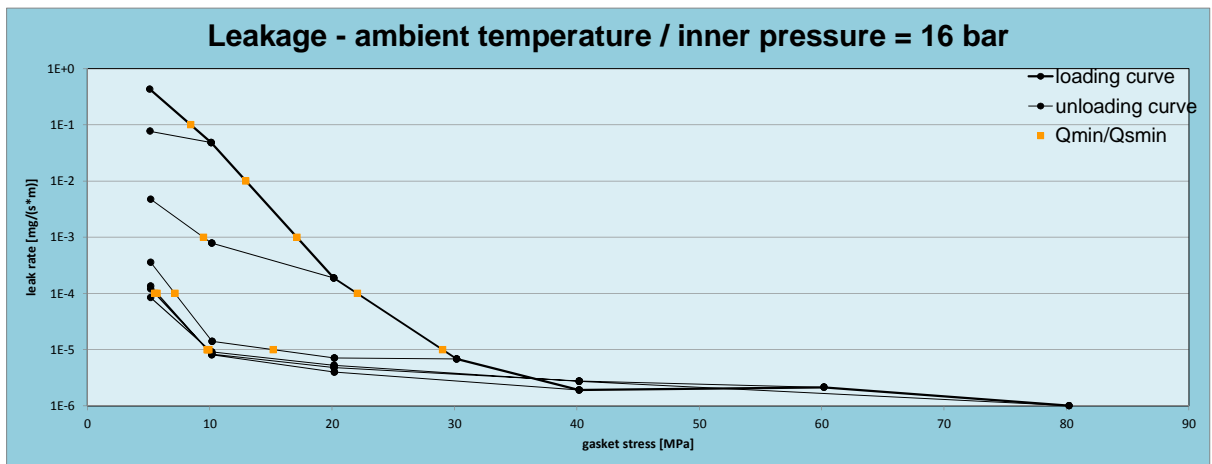


Company Address	IDT Industrie- und Dichtungstechnik GmbH Werk Kupferring, Gewerbering 6, 09456 Annaberg-Buchholz, Germany	According to <b>DIN EN 13555</b> 2014-07
Gasket Type	FD01 WS 7115 (Dyneon TM TFM 4105; modifiziertes PTFE mit 25 % Glasfaser gefüllt)	
Sealing element dimensions [mm]	49x92x2,0	

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	Q <sub>A</sub> = 80 MPa				
10 <sup>-0</sup>			5	5	5	5	5				
10 <sup>-1</sup>	7		5	5	5	5	5				
10 <sup>-2</sup>	12		5	5	5	5	5				
10 <sup>-3</sup>	17		10	5	5	5	5				
10 <sup>-4</sup>	23			8	5	5	5				
10 <sup>-5</sup>	30			18	10	9	9				
10 <sup>-6</sup>	52					48	61				
10 <sup>-7</sup>											
10 <sup>-8</sup>											

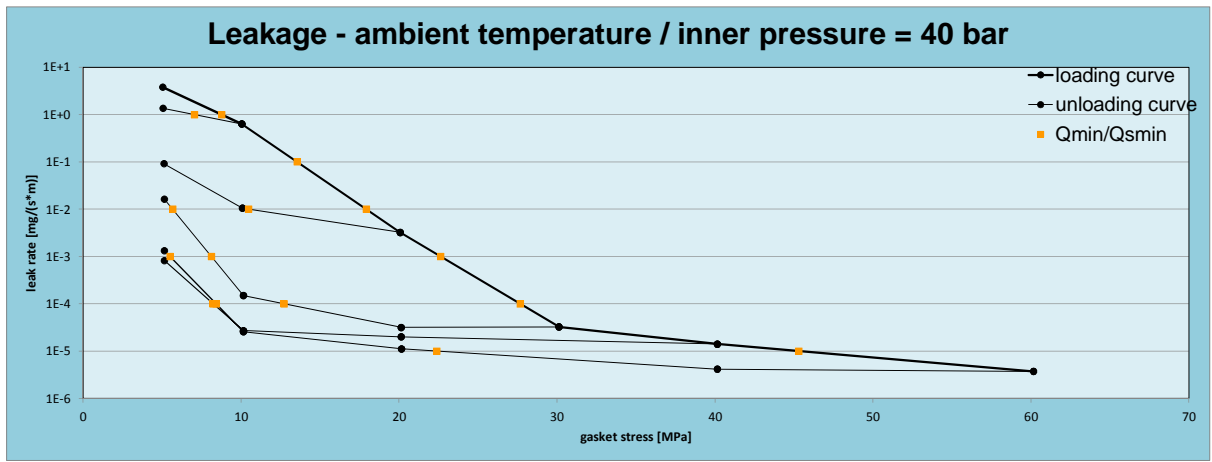


L [mg/(s*m)]	Q <sub>min/L</sub> [MPa]	Minimum stress to seal Q <sub>min/L</sub> (at assembly), Q <sub>Smin/L</sub> (after off-loading) for p = 16 bar									
		Q <sub>Smin/L</sub> [MPa]									
		Q <sub>A</sub> = 10 MPa	Q <sub>A</sub> = 20 MPa	Q <sub>A</sub> = 30 MPa	Q <sub>A</sub> = 40 MPa	Q <sub>A</sub> = 60 MPa	Q <sub>A</sub> = 80 MPa				
10 <sup>-0</sup>			5	5	5	5	5				
10 <sup>-1</sup>	8		5	5	5	5	5				
10 <sup>-2</sup>	13		5	5	5	5	5				
10 <sup>-3</sup>	17		9	5	5	5	5				
10 <sup>-4</sup>	22			7	6	6	5				
10 <sup>-5</sup>	29			15	10	10	10				
10 <sup>-6</sup>											
10 <sup>-7</sup>											
10 <sup>-8</sup>											



Company Address	<b>IDT Industrie- und Dichtungstechnik GmbH Werk Kupferring, Gewerbering 6, 09456 Annaberg-Buchholz, Germany</b>	According to <b>DIN EN 13555 2014-07</b>
Gasket Type	<b>FD01 WS 7115 (Dyneon TM TFM 4105; modifiziertes PTFE mit 25 % Glasfaser gefüllt)</b>	
Sealing element dimensions [mm]	<b>49x92x2,0</b>	

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>	9	7	5	5	5	5			
10 <sup>-1</sup>	14		5	5	5	5					
10 <sup>-2</sup>	18		10	6	5	5					
10 <sup>-3</sup>	23			8	5	6					
10 <sup>-4</sup>	28			13	8	8					
10 <sup>-5</sup>	45					22					
10 <sup>-6</sup>											
10 <sup>-7</sup>											
10 <sup>-8</sup>											



Company Address	<b>IDT Industrie- und Dichtungstechnik GmbH Werk Kupferring, Gewerbering 6, 09456 Annaberg-Buchholz, Germany</b>	According to <b>DIN EN 13555 2014-07</b>
Gasket Type	<b>FD01 WS 7115 (Dyneon TM TFM 4105; modifiziertes PTFE mit 25 % Glasfaser gefüllt)</b>	
Sealing element dimensions [mm]	<b>49x92x2,0</b>	

Relaxation ratio $P_{QR}$ for stiffness $C = 500$ kN/mm										
Gasket stress	ambient temperature		temperature 1 [50 °C]		temperature 2 [100 °C]		temperature 3 [150 °C]		temperature 4 [200 °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]	0.98	0.003	0.95	0.005	0.88	0.011	0.83	0.014	0.67	0.022
Stress level 2 [20 MPa]	0.95	0.010	0.84	0.028	0.68	0.054	0.58	0.072	0.46	0.089
P <sub>QR</sub> and $\Delta e_{Gc}$ at maximal applicable gasket stress $Q_{Smax}$										
$P_{QR}$ at $Q_{Smax}$	0.78	0.114	0.67	0.141	0.50	0.210	0.39	0.207	0.36	0.215
$Q_{Smax}$	60 MPa		50 MPa		50 MPa		40 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 [50 °C]		temperature 2 [100 °C]		temperature 3 [150 °C]		temperature 4 [200 °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		2.000		2.000		2.000		2.000		2.000
1		1.905		1.935		1.937		1.876		1.915
20	1862	1.843	1684	1.829	1319	1.662	968	1.476	615	1.179
30	2302	1.815	1885	1.638	1323	1.329	1117	1.109	962	0.887
40	3369	1.743	1930	1.365	1427	1.082	1452	0.916	1199	0.747
50	3830	1.541	2131	1.151	1726	0.938				
60	3336	1.353								
80										
100										
120										
140										
160										
180										
200										
220										
240										
260										
280										
300										
320										
340										
360										
380										
400										
420										
440										
460										
480										
500										
940										

