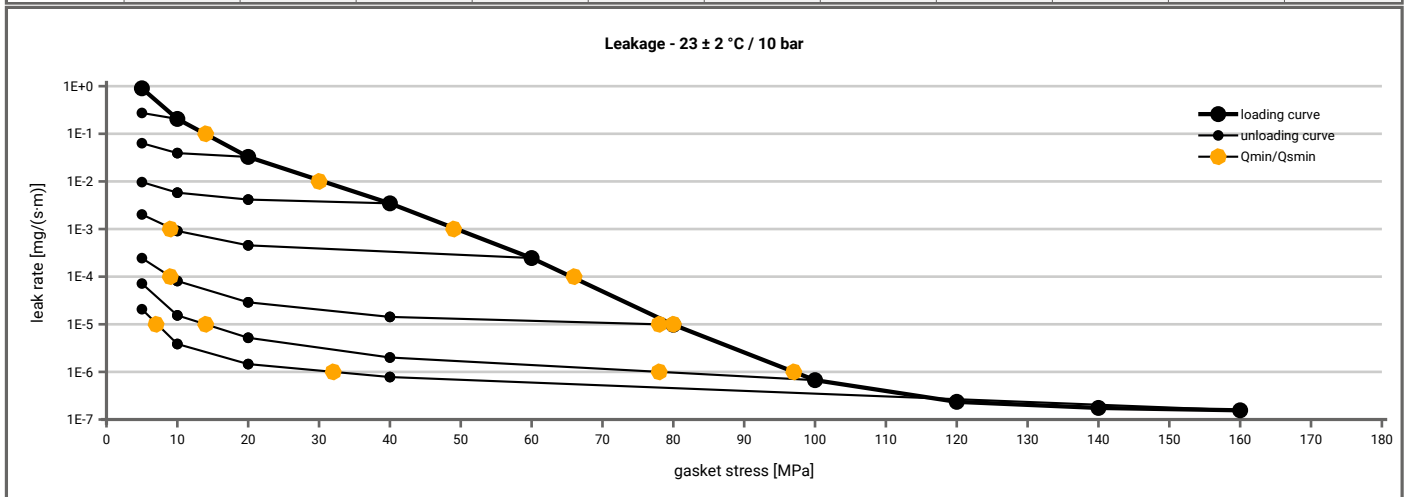
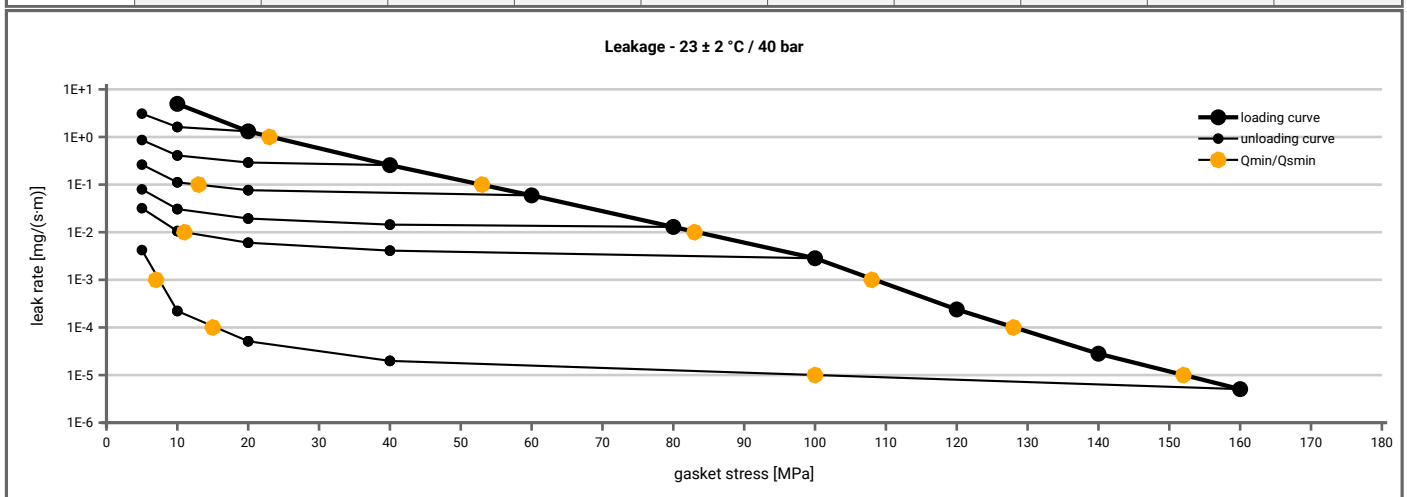


Manufacturer address	Gambit Lubawka Sp. z o.o., ul. Wojska Polskiego 16, 58-420 Lubawka, PL	According to <b>DIN EN 13555</b> 2005-2
Product name	AF - 400	
Product dimensions	92 x 49 x 2 mm (DIN EN 1514-1 1997-8)	

Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 10$ bar ( $T = 23 \pm 2$ °C)											
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]									
		$Q_A = 5.3$ [MPa]	$Q_A = 10$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]	$Q_A = 100$ [MPa]	$Q_A = 120$ [MPa]	$Q_A = 141$ [MPa]	$Q_A = 161$ [MPa]
1E-0	5		5	5	5	5	5	5			5
1E-1	14			5	5	5	5	5			5
1E-2	31				5	5	5	5			5
1E-3	50					10	5	5			5
1E-4	66						9	5			5
1E-5	80						78	14			7
1E-6	97							79			32
1E-7											
1E-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]									
		$Q_A = 10$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]	$Q_A = 100$ [MPa]	$Q_A = 120$ [MPa]	$Q_A = 140$ [MPa]	$Q_A = 160$ [MPa]	
1E+1	10		5	5	5	5	5				5
1E-0	24			5	5	5	5				5
1E-1	53				13	5	5				5
1E-2	84						11				5
1E-3	109										8
1E-4	129										16
1E-5	152										101
1E-6											
1E-7											
1E-8											



Note: the content of darkened cells was not determined respectively is unnecessary Rev.-No.: 1 Creation date of this sheet: 2013-01-28

<b>Manufacturer address</b>	Gambit Lubawka Sp. z o.o., ul. Wojska Polskiego 16, 58-420 Lubawka, PL	According to <b>DIN EN 13555</b> <b>2005-2</b>
<b>Product name</b>	AF - 400	
<b>Product dimensions</b>	92 x 49 x 2 mm (DIN EN 1514-1 1997-8)	

Relaxation ratio $P_{QR}$ for stiffness $C = 500$ [kN/mm]										
Gasket stress	23 ± 2 °C		Temperature 1 [175 °C]		Temperature 2 [300 °C]		$P_{QR}$	$\Delta e_{Gc}$ [µm]	$P_{QR}$	$\Delta e_{Gc}$ [µm]
	$P_{QR}$	$\Delta e_{Gc}$ [µm]	$P_{QR}$	$\Delta e_{Gc}$ [µm]	$P_{QR}$	$\Delta e_{Gc}$ [µm]				
Stress level 1 [30 MPa]	0.94	15	0.85	38	0.62	96				
Stress level 2 [50 MPa]	0.96	17	0.87	55	0.68	136				
$P_{QR}$ and $\Delta e_{Gc}$ at maximum gasket stress to be applied $Q_{smax}$										
$P_{QR}$ at $Q_{smax}$	0.99	18	0.83	323	0.63	252				
$Q_{smax}$	220 MPa		220 MPa		80 MPa					

Sekant unloading modulus of the gasket $E_G$ [MPa] and gasket thickness $e_G$ [mm]										
Gasket stress [MPa]	23 ± 2 °C		Temperature 1 [175 °C]		Temperature 2 [300 °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	1.942	0	1.945	0	1.955				
1	0	1.916	0	1.909	0	1.917				
20	934	1.785	1421	1.720	4600	1.693				
30	1419	1.752	1860	1.705	3548	1.676				
40	1975	1.727	2256	1.689	3723	1.662				
50	2608	1.708	2784	1.676	4197	1.650				
60	3244	1.693	3000	1.661	4306	1.636				
80	4431	1.672	3780	1.627	4970	1.606				
100	5450	1.657	4189	1.590						
120	6283	1.644	4586	1.553						
140	7036	1.634	4960	1.516						
160	7564	1.624	5114	1.480						
180	7951	1.615	5351	1.446						
200	8289	1.606	5545	1.416						
220	8673	1.597	5733	1.388						

