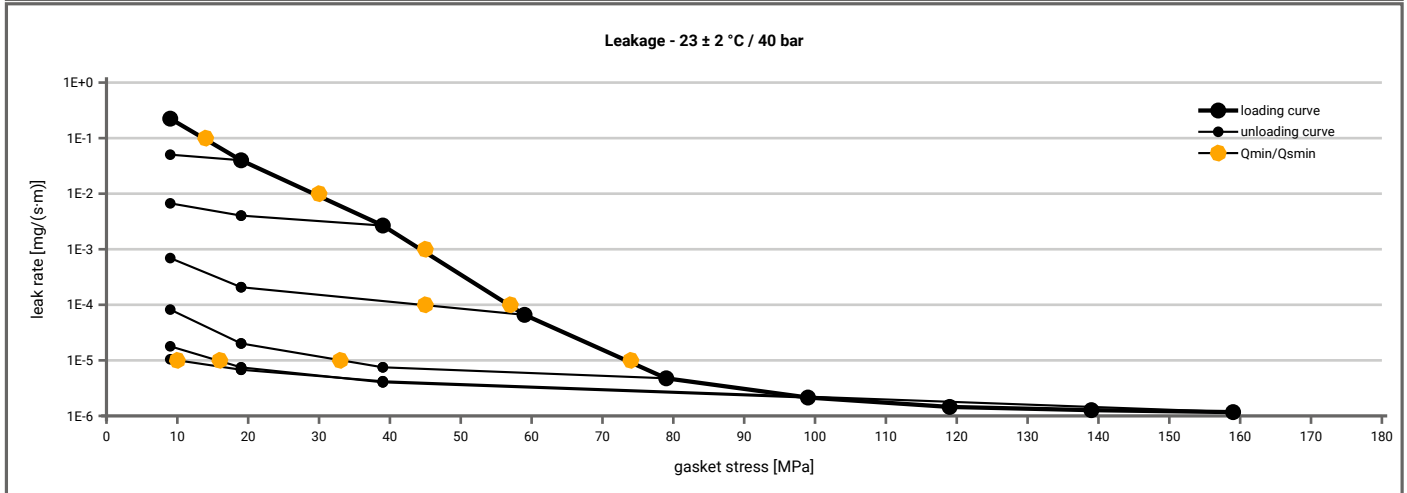


Manufacturer address	ERIKS bv, Toermalijnstraat 5, 1812 RL Alkmaar, NL	According to <b>DIN EN 13555</b> 2005-2
Product name	RX® Fibre PT50	
Product dimensions	92 x 49 x 2 mm (DIN EN 1514-1 1997-8)	

Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 40$ bar ( $T = 23 \pm 2$ °C)										
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]								
		$Q_A = 9.8$ [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-0	10		10	10	10	10	10			10
1E-1	14		10	10	10	10	10			10
1E-2	30			10	10	10	10			10
1E-3	45				10	10	10			10
1E-4	57				45	10	10			10
1E-5	74					34	16			11
1E-6										
1E-7										
1E-8										



<b>Manufacturer address</b>	ERIKS bv, Toermalijnstraat 5, 1812 RL Alkmaar, NL	According to <b>DIN EN 13555</b> <b>2005-2</b>
<b>Product name</b>	RX® Fibre PT50	
<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 [100 °C]		Temperature 2 [200 °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	16	0.83	43	0.77	59				
Stress level 2 [50 MPa]	0.95	21	0.83	71	0.78	92				
$P_{QR}$ and $\Delta e_{Gc}$ at maximum gasket stress to be applied $Q_{Smax}$										
$P_{QR}$ at $Q_{Smax}$	0.99	29	0.91	174	0.86	270				
$Q_{Smax}$	230 MPa		230 MPa		230 MPa					

Sekant unloading modulus of the gasket $E_G$ [MPa] and gasket thickness $e_G$ [mm]										
Gasket stress [MPa]	23 ± 2 °C		Temperature 1 [100 °C]		Temperature 2 [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	0	1.966	0	1.948	0	1.990				
1	0	1.953	0	1.937	0	1.981				
20	1262	1.860	824	1.811	1285	1.841				
30	1412	1.825	1491	1.778	1494	1.811				
40	1877	1.796	1712	1.744	1628	1.772				
50	1910	1.766	1902	1.714	2224	1.741				
60	2379	1.741	1924	1.681	2617	1.700				
80	2769	1.701	2751	1.627	2664	1.602				
100	3030	1.665	3195	1.577	2898	1.519				
120	3948	1.641	3539	1.530	2903	1.449				
140	3991	1.620	3341	1.484	2855	1.392				
160	4050	1.602	3314	1.445	3547	1.350				
180	4425	1.586	3346	1.409	2863	1.305				
200	4408	1.569	4614	1.386	3162	1.276				
220	4689	1.554	4098	1.358	3207	1.249				
230	4527	1.539	3660	1.340	3145	1.231				

