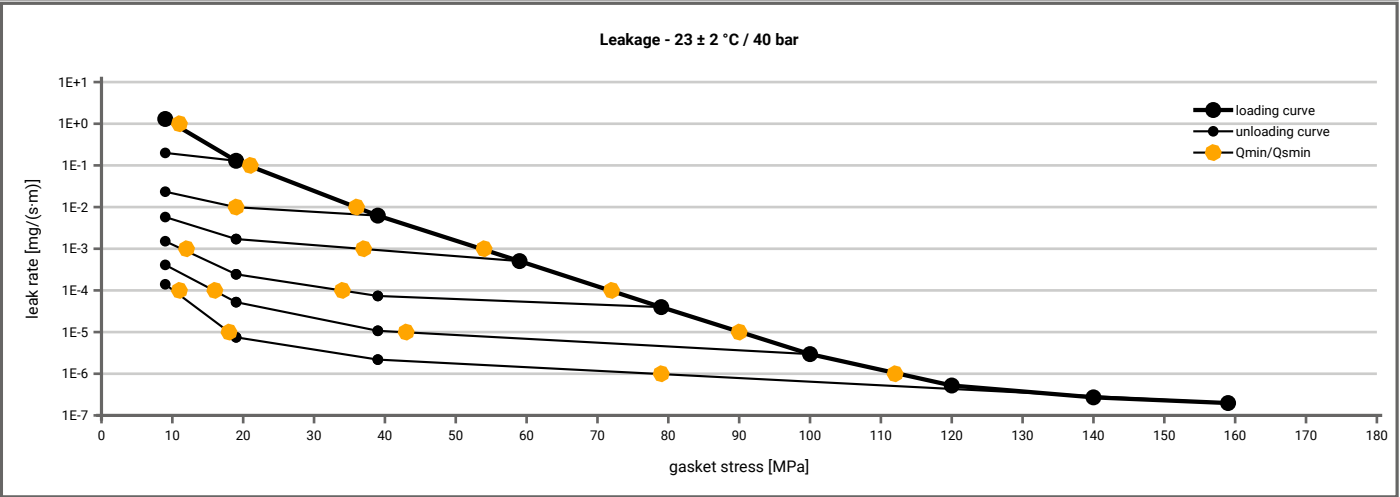


Manufacturer address	Garlock GmbH, Falkenweg 1, 41468 Neuss, DE	According to DIN EN 13555 2005-2
Product name	9900	
Product dimensions	92 x 49 x 2 mm (DIN EN 1514-1 1997-8)	

Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for p = 40 bar (T = 23 ± 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		10	10	10	10	10			10
1E-0	11		10	10	10	10	10			10
1E-1	22			10	10	10	10			10
1E-2	37			20	10	10	10			10
1E-3	54				37	12	10			10
1E-4	73					35	17			11
1E-5	91						43			19
1E-6	112									79
1E-7										
1E-8										



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Relaxation ratio P_{QR} for stiffness $C = 500$ [kN/mm]										
Gasket stress	23 ± 2 °C		Temperature 1 [150 °C]		Temperature 2 [300 °C]					
	P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]
Stress level 1 [10 MPa]	0.89	10	0.82	16	0.48	44				
Stress level 2 [30 MPa]	0.97	9	0.84	40	0.47	133				
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied Q_{smax}										
P_{QR} at Q_{smax}	0.96	87	0.74	131	0.46	181				
Q_{smax}	230 MPa		60 MPa		40 MPa					

Sekant unloading modulus of the gasket E_G [MPa] and gasket thickness e_g [mm]										
Gasket stress [MPa]	23 ± 2 °C		Temperature 1 [150 °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	2.014	0	2.014	0	1.954				
1	0	1.983	0	1.987	0	1.920				
20	1190	1.845	1854	1.817	5893	1.675				
30	1856	1.822	1925	1.788	4143	1.652				
40	2273	1.802	2350	1.732	3819	1.621				
50	2784	1.786	1975	1.626						
60	3461	1.769	2787	1.416						
80	3328	1.733								
100	3960	1.696								
120	4637	1.663								
140	3947	1.626								
160	4884	1.591								
180	4495	1.551								
200	4312	1.510								
220	4993	1.473								
230	4954	1.439								

