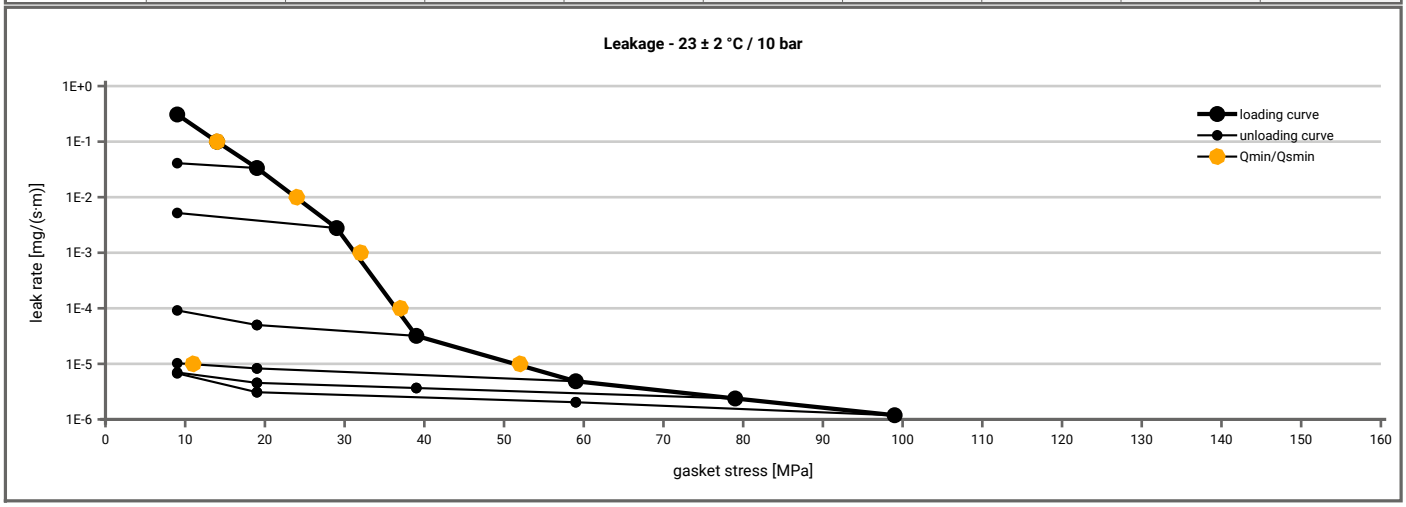
Manufacturer address	TEADIT International Produktions GmbH, Europastraße 12, 6322 Kirchbichl, AT	According to
Product name	24 SH	EN 13555
Product dimensions	92 x 49 x 6 mm	2021-4

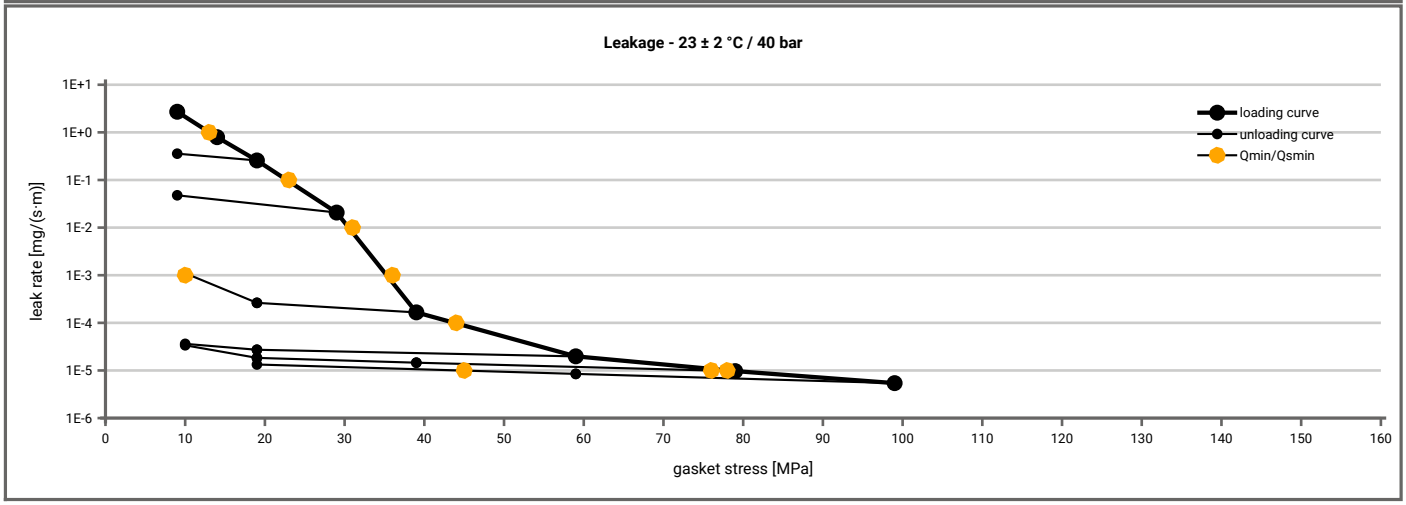
Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for p = 10 bar (T = 23 ± 2 °C)

L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]							
		Q_A = 10 [MPa]	Q_A = 15 [MPa]	Q_A = 20 [MPa]	Q_A = 30 [MPa]	Q_A = 40 [MPa]	Q_A = 60 [MPa]	Q_A = 80 [MPa]	Q_A = 100 [MPa]
1E-0	10			10	10	10	10	10	10
1E-1	15			10	10	10	10	10	10
1E-2	25				10	10	10	10	10
1E-3	32					10	10	10	10
1E-4	37					10	10	10	10
1E-5	52						11	10	10
1E-6									
1E-7									



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 = 15 [MPa]	Q_A = 20 [MPa]	Q_A = 30 [MPa]	Q_A = 40 [MPa]	Q_A = 60 [MPa]	Q_A = 80 [MPa]	Q_A = 100 [MPa]
1E+1	10			10	10	10	10	10	20
1E-0	14			10	10	10	10	10	20
1E-1	24				10	10	10	10	20
1E-2	31					10	10	10	20
1E-3	36					11	10	10	20
1E-4	45						10	10	20
1E-5	79							77	45
1E-6									
1E-7									



Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: **3**	Creation date of this sheet: **2024-05-12**

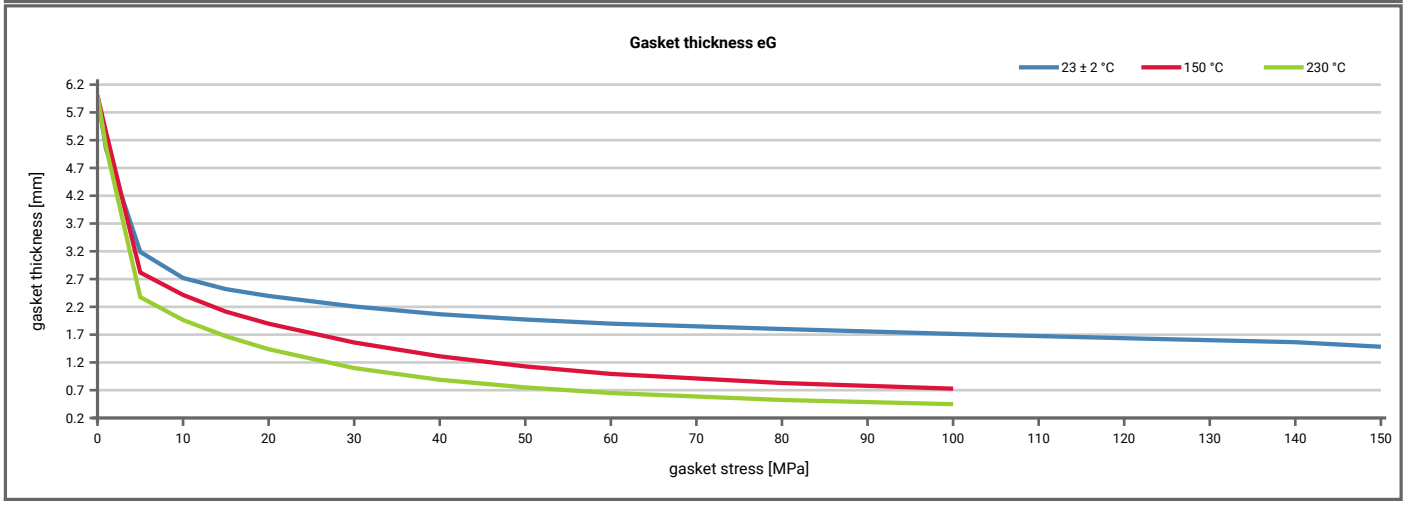
Manufacturer address	TEADIT International Produktions GmbH, Europastraße 12, 6322 Kirchbichl, AT	According to **EN 13555 2021-4**
Product name	24 SH	
Product dimensions	92 x 49 x 6 mm	

Relaxation ratio P_{QR} for stiffness C = 500 [kN/mm]

Gasket stress	23 ± 2 °C		Temperature 1 [150 °C]		Temperature 2 [230 °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 [30 MPa]	0.80	52	0.40	151	0.33	170				
Stress level 2 [50 MPa]	0.82	76	0.37	264	0.27	306				
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied (Q_{smax})										
P_{QR} at Q_{smax}	0.87	170	0.33	562	0.26	621				
Q_{smax}	150 MPa		100 MPa		100 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 [230 °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	6.000	0	6.000	0	6.000				
1	0	5.037	0	5.343	0	5.077				
5	124	3.189	98	2.818	125	2.375				
10	322	2.720	239	2.415	255	1.963				
15	579	2.519	443	2.114	439	1.671				
20	868	2.396	682	1.897	670	1.438				
30	1540	2.207	1201	1.558	1065	1.098				
40	2181	2.067	1614	1.310	1297	0.887				
50	2684	1.972	1964	1.128	1476	0.750				
60	3054	1.898	2244	0.993	1648	0.649				
80	3893	1.801	3043	0.829	1914	0.524				
100	4312	1.713	3336	0.727	2059	0.448				
120	4569	1.636								
140	5457	1.564								
150	6385	1.482								



Fields marked: Intrusion into bore was detected. Determined after the corresponding P_{QR}-Test.

Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: **3**	Creation date of this sheet: **2024-05-12**