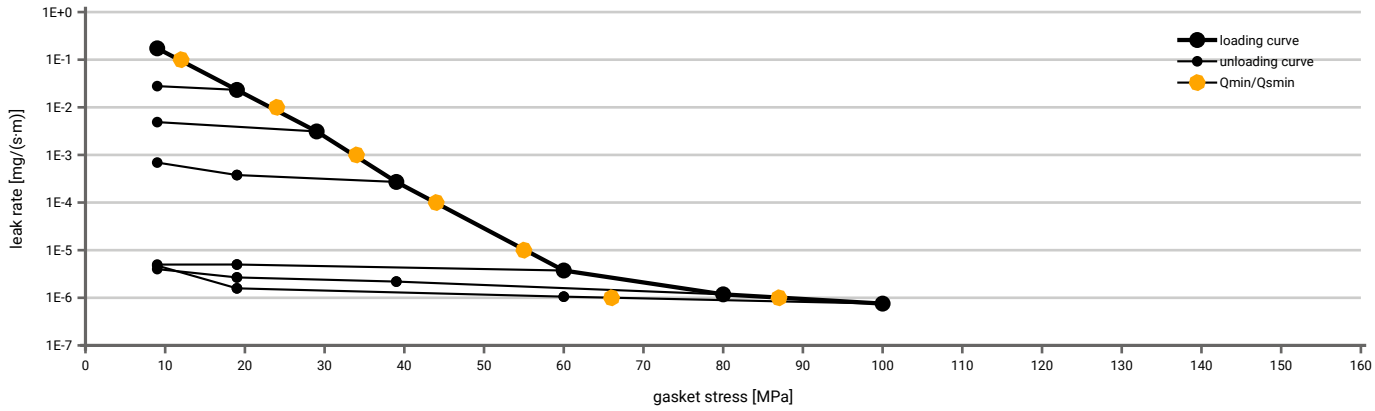
Manufacturer address	TEADIT International Produktions GmbH, Europastraße 12, 6322 Kirchbichl, AT	According to **EN 13555 2021-4**
Product name	30 SH	
Product dimensions	92 x 49 x 3 mm	

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 = 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	13		10	10	10	10	10	10
1E-2	24			10	10	10	10	10
1E-3	35				10	10	10	10
1E-4	45					10	10	10
1E-5	55					10	10	10
1E-6	87							67
1E-7								

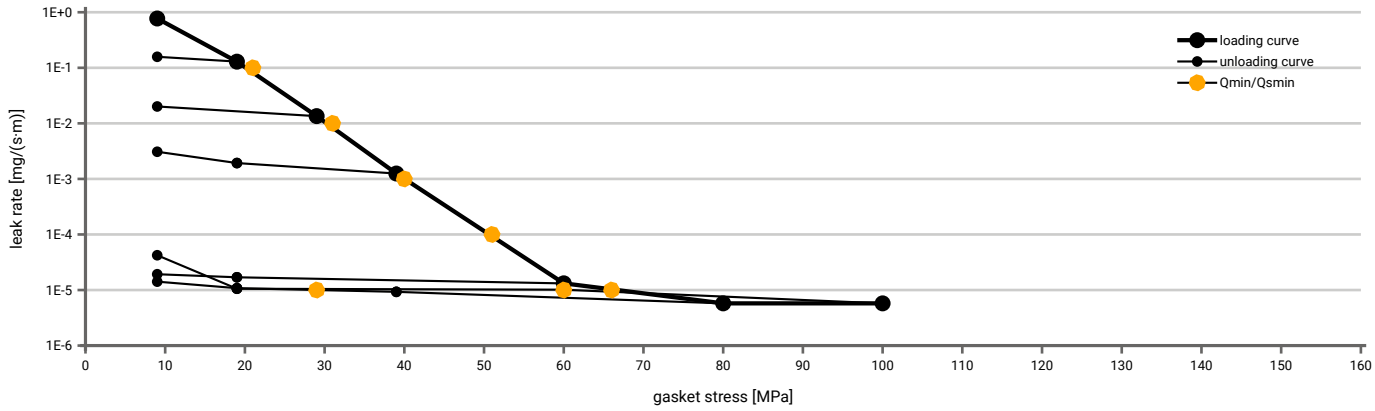
Leakage - 23 ± 2 °C / 10 bar



Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for p = 25 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 = 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	21			10	10	10	10	10
1E-2	31				10	10	10	10
1E-3	41					10	10	10
1E-4	51					10	10	10
1E-5	67						30	61
1E-6								
1E-7								

Leakage - 23 ± 2 °C / 25 bar

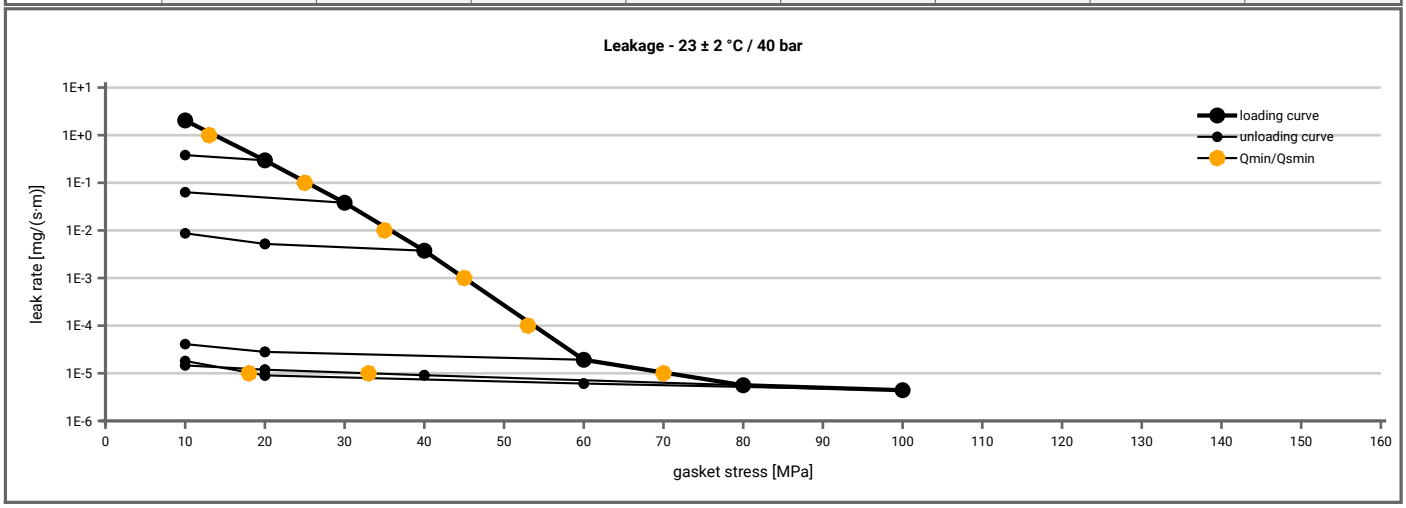


Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: **2**	Creation date of this sheet: **2023-06-27**

Manufacturer address	TEADIT International Produktions GmbH, Europastraße 12, 6322 Kirchbichl, AT	According to **EN 13555 2021-4**
Product name	30 SH	
Product dimensions	92 x 49 x 3 mm	

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 = 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	10
1E-0	14		10	10	10	10	10	10
1E-1	25			10	10	10	10	10
1E-2	36				10	10	10	10
1E-3	45					10	10	10
1E-4	54					10	10	10
1E-5	71						33	19
1E-6								
1E-7								

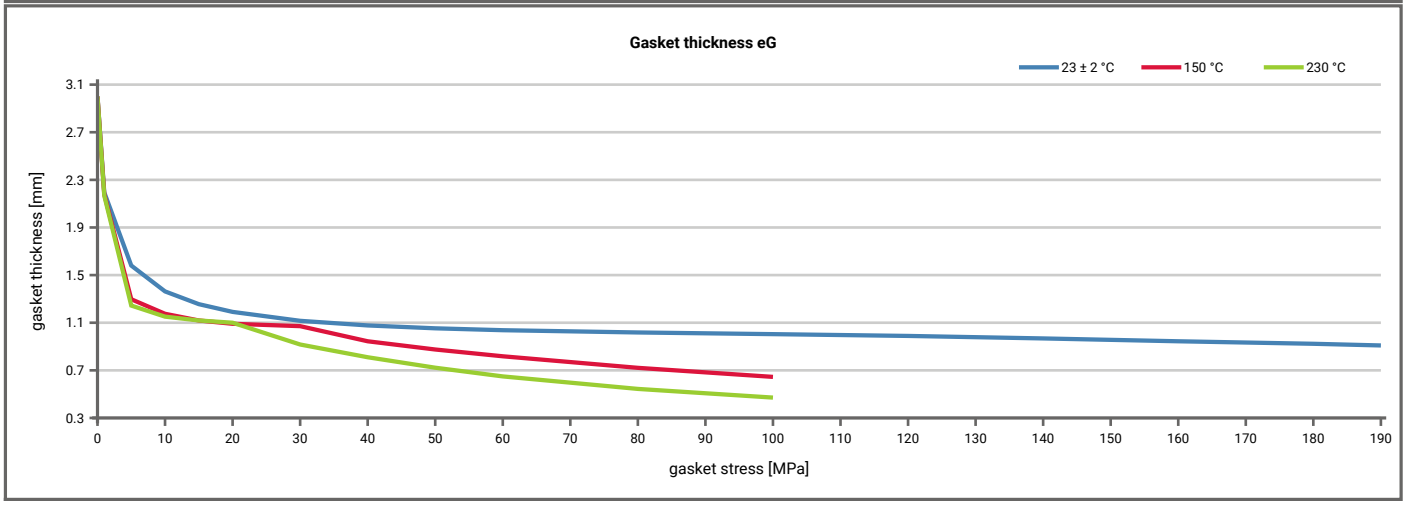


Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: **2**	Creation date of this sheet: **2023-06-27**

Manufacturer address	TEADIT International Produktions GmbH, Europastraße 12, 6322 Kirchbichl, AT	According to **EN 13555 2021-4**
Product name	30 SH	
Product dimensions	92 x 49 x 3 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]	0.91	24	0.71	73	0.55	113				
Stress level 2 [50 MPa]	0.95	21								
Stress level 3 [60 MPa]					0.55	229				
Stress level 4 [80 MPa]			0.65	235						
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied (Q_{smax})										
P_{QR} at Q_{smax}	0.97	48	0.58	352	0.50	424				
Q_{smax}	190 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	3.000	0	3.000	0	3.000				
1	0	2.195	0	2.179	0	2.168				
5	98	1.580	80	1.297	88	1.244				
10	224	1.363	212	1.175	266	1.151				
15	377	1.256	438	1.119	610	1.119				
20	554	1.191	835	1.091	878	1.100				
30	1003	1.116	1806	1.071	1127	0.917				
40	1550	1.077	2262	0.944	1432	0.810				
50	2112	1.053	2725	0.875	1686	0.722				
60	2602	1.037	2922	0.818	1891	0.649				
80	3304	1.018	3478	0.721	2262	0.544				
100	3694	1.004	3630	0.645	2242	0.471				
120	4031	0.989								
140	4329	0.968								
160	4453	0.944								
180	4424	0.923								
190	4703	0.909								



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.: **2**	Creation date of this sheet: **2023-06-27**