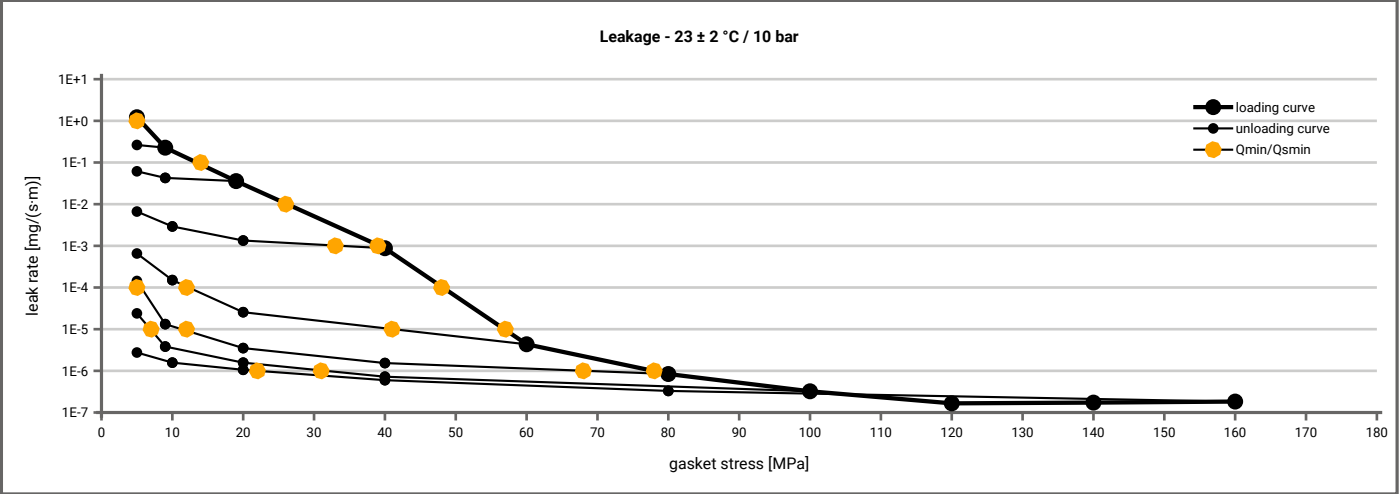
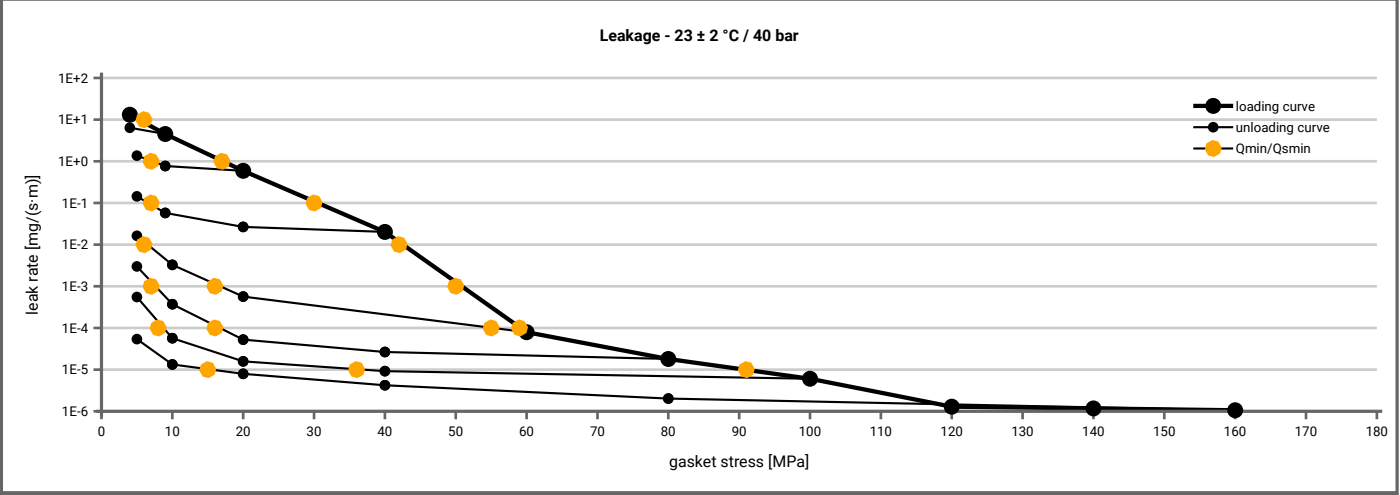


Manufacturer address	Durlon, 399 College Street E., Belleville, ON K8N 5S7, CA	According to EN 13555 2021-4
Product name	Durlon 8500	
Product dimensions	92 x 49 x 2 mm	

Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 10 \text{ bar}$ ($T = 23 \pm 2 \text{ }^{\circ}\text{C}$)											
$L \text{ [mg/(s}\cdot\text{m)]}$	$Q_{min(L)} \text{ [MPa]}$	$Q_{smin(L)} \text{ [MPa]}$									
		$Q_A = 5 \text{ [MPa]}$	$Q_A = 10 \text{ [MPa]}$	$Q_A = 20 \text{ [MPa]}$	$Q_A = 40 \text{ [MPa]}$	$Q_A = 60 \text{ [MPa]}$	$Q_A = 80 \text{ [MPa]}$	$Q_A = 100 \text{ [MPa]}$	$Q_A = 120 \text{ [MPa]}$	$Q_A = 141 \text{ [MPa]}$	$Q_A = 161 \text{ [MPa]}$
1E+1	5		5	5	5	5	5	5			5
1E-0	6		5	5	5	5	5	5			5
1E-1	14			5	5	5	5	5			5
1E-2	27				5	5	5	5			5
1E-3	39				34	5	5	5			5
1E-4	48					12	6	5			5
1E-5	57					41	12	7			5
1E-6	78						69	32			22
1E-7											



Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 40 \text{ bar}$ ($T = 23 \pm 2 \text{ }^{\circ}\text{C}$)											
$L \text{ [mg/(s}\cdot\text{m)]}$	$Q_{min(L)} \text{ [MPa]}$	$Q_{smin(L)} \text{ [MPa]}$									
		$Q_A = 5 \text{ [MPa]}$	$Q_A = 10 \text{ [MPa]}$	$Q_A = 20 \text{ [MPa]}$	$Q_A = 40 \text{ [MPa]}$	$Q_A = 60 \text{ [MPa]}$	$Q_A = 80 \text{ [MPa]}$	$Q_A = 100 \text{ [MPa]}$	$Q_A = 121 \text{ [MPa]}$	$Q_A = 141 \text{ [MPa]}$	$Q_A = 161 \text{ [MPa]}$
1E+2	5		5	5	5	5	5	5			5
1E+1	6		5	5	5	5	5	5			5
1E-0	17			8	5	5	5	5			5
1E-1	31				7	5	5	5			5
1E-2	43					7	5	5			5
1E-3	51					17	8	5			5
1E-4	59					55	17	9			5
1E-5	91							37			16
1E-6											
1E-7											

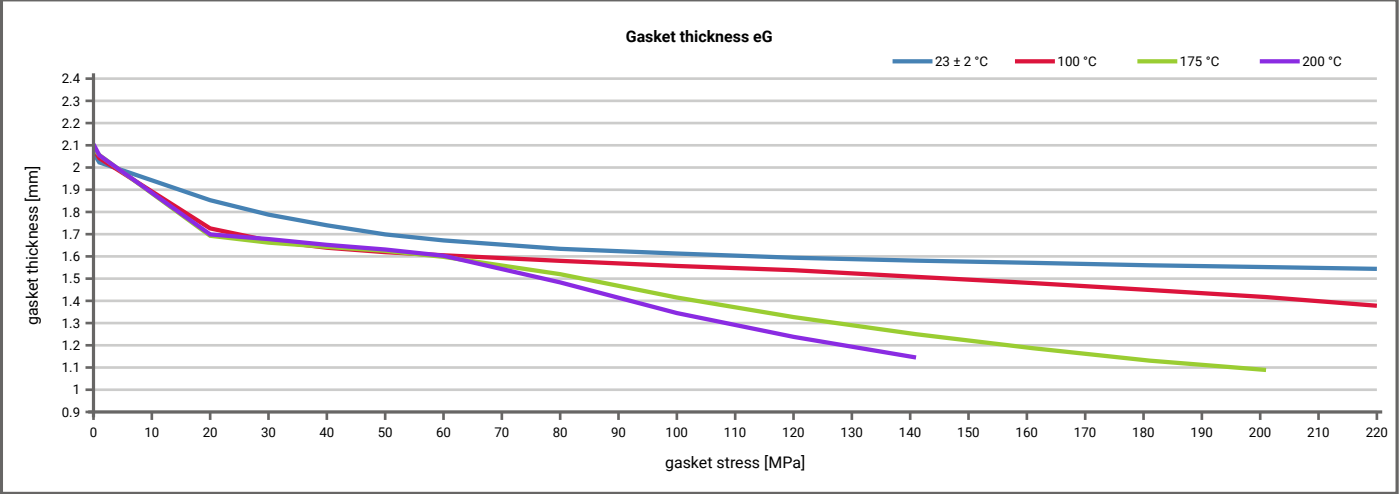


Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: 1	Creation date of this sheet: 2024-06-13
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Manufacturer address	Durlon, 399 College Street E., Belleville, ON K8N 5S7, CA	According to EN 13555 2021-4
Product name	Durlon 8500	
Product dimensions	92 x 49 x 2 mm	

Relaxation ratio P _{QR} for stiffness C = 500 [kN/mm]										
Gasket stress	23 ± 2 °C		Temperature 1 [100 °C]		Temperature 2 [175 °C]		Temperature 3 [200 °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]	0.92	21	0.65	89	0.55	113	0.52	121		
Stress level 2 [50 MPa]	0.95	21	0.78	92	0.72	117	0.71	124		
P _{QR} and Δe _{Gc} at maximum gasket stress to be applied (Q _{smax})										
P _{QR} at Q _{smax}	0.99	18	0.80	369	0.73	462	0.65	411		
Q _{smax}	220 MPa		220 MPa		200 MPa		140 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 [175 °C]		Temperature 3 [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	2.065	0	2.083	0	2.083	0	2.105		
1	0	2.023	0	2.042	0	2.056	0	2.055		
20	703	1.853	831	1.726	1024	1.693	1437	1.699		
30	1146	1.788	1221	1.671	1636	1.662	2230	1.678		
40	1517	1.740	1912	1.639	2984	1.643	2079	1.652		
50	1528	1.699	2818	1.619	3255	1.625	2513	1.631		
60	2393	1.672	3477	1.605	3140	1.598	2651	1.603		
80	2906	1.634	3462	1.580	3523	1.520	3297	1.483		
100	4322	1.613	3947	1.557	3401	1.415	3860	1.345		
120	5518	1.594	6327	1.538	4874	1.327	4435	1.238		
141	5876	1.581	5266	1.508	4731	1.250	3289	1.145		
161	6261	1.571	5877	1.480	4555	1.187				
181	6897	1.560	6531	1.449	4294	1.131				
201	7592	1.552	7362	1.417	5284	1.089				
220	8454	1.544	6498	1.378						



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