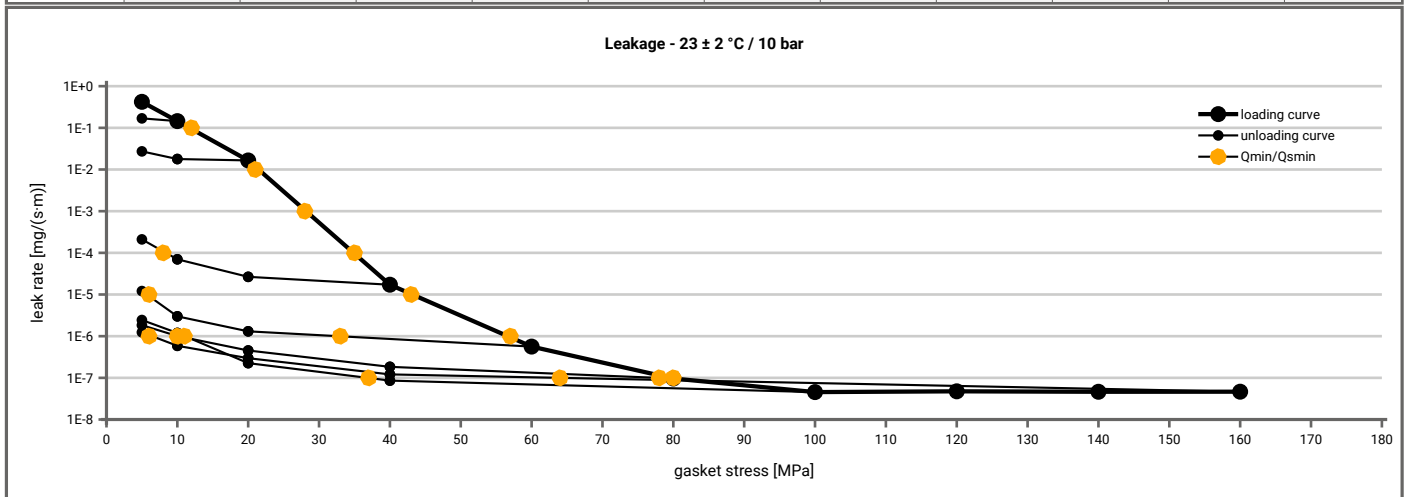
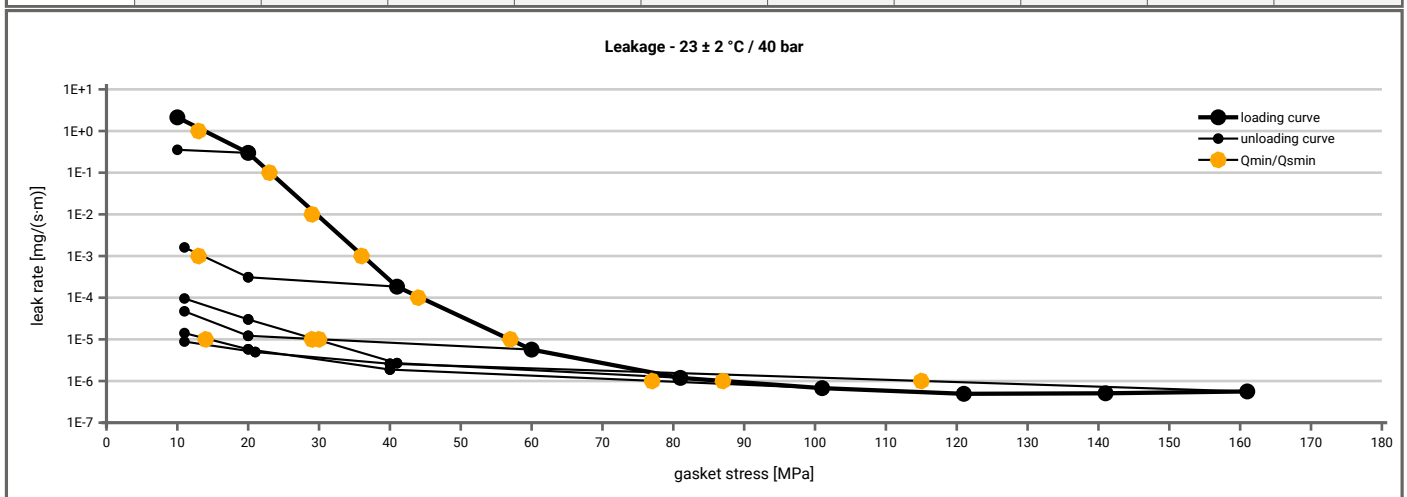


Manufacturer address	Triangle Fluid Controls Ltd., 399 College Street E., Belleville, ON K8N 5S7, CA	According to DIN EN 13555 2014-7
Product name	Durlon 8300	
Product dimensions	92 x 49 x 2 mm (DIN EN 1514-1 1997-8)	

Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 10$ bar ($T = 23 \pm 2$ °C)											
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]									
		$Q_A = 5.4$ [MPa]	$Q_A = 10$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 81$ [MPa]	$Q_A = 101$ [MPa]	$Q_A = 121$ [MPa]	$Q_A = 141$ [MPa]	$Q_A = 161$ [MPa]
1E-0	5		5	5	6	6	6	6			6
1E-1	12			5	6	6	6	6			6
1E-2	22				6	6	6	6			6
1E-3	29				6	6	6	6			6
1E-4	35				9	6	6	6			6
1E-5	44					6	6	6			6
1E-6	57					33	11	12			7
1E-7	80						78	37			64
1E-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]									
		$Q_A = 10$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 41$ [MPa]	$Q_A = 61$ [MPa]	$Q_A = 81$ [MPa]	$Q_A = 101$ [MPa]	$Q_A = 121$ [MPa]	$Q_A = 141$ [MPa]	$Q_A = 161$ [MPa]	
1E+1	10		10	11	11	11	11				11
1E-0	14		10	11	11	11	11				11
1E-1	23			11	11	11	11				11
1E-2	30			11	11	11	11				11
1E-3	36			14	11	11	11				11
1E-4	44				11	11	11				11
1E-5	57				31	30	15				11
1E-6	87						78				116
1E-7											
1E-8											



Note: the content of darkened cells was not determined respectively is unnecessary Rev.-No.: 1 Creation date of this sheet: 2020-06-30

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Product name	Durlon 8300	
Product dimensions	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 [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]	0.94	15	0.70	77	0.64	91	0.63	93		
Stress level 2 [50 MPa]	0.95	23	0.82	76	0.78	92	0.78	94		
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied Q_{smax}										
P_{QR} at Q_{smax}	1.00	0	0.82	342	0.63	248	0.80	103		
Q_{smax}	220 MPa		220 MPa		80 MPa		60 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	2.075	0	2.065	0	2.055	0	2.060		
1	0	2.103	0	2.095	0	2.126	0	2.127		
20	359	1.770	430	1.638	422	1.642	419	1.634		
30	555	1.685	603	1.587	649	1.599	568	1.592		
40	626	1.614	668	1.535	719	1.552	802	1.555		
50	718	1.556	1048	1.504	827	1.507	871	1.504		
60	834	1.513	974	1.464	857	1.455	826	1.433		
80	942	1.442	974	1.392	837	1.266				
100	989	1.385	1065	1.325						
120	1071	1.337	991	1.237						
140	1096	1.297	925	1.141						
160	1121	1.257	911	1.056						
180	1109	1.222	828	0.974						
200	1088	1.187	754	0.907						
220	1011	1.158	749	0.856						

