

DeltaV-Seal 316L

Gasket Data



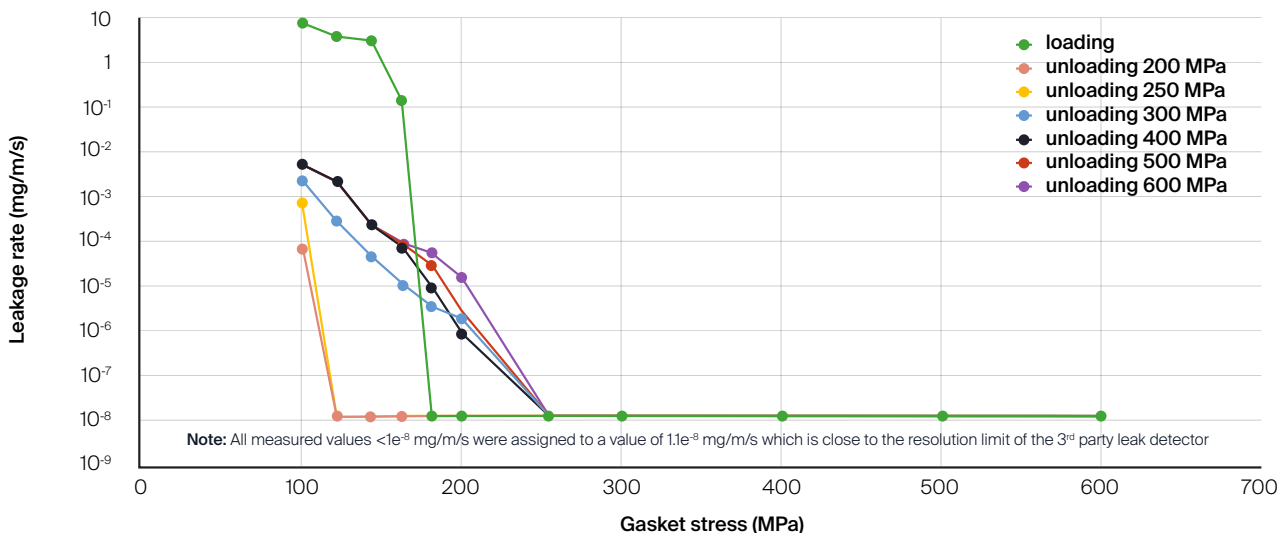
Manufacturer address	Pipeotech AS, Molandsveien 10, 4994 Akland, Norway	Page 1 / 4
Product name	DeltaV-Seal 316L	According to DIN EN 13555:2021
Product dimensions	78 x 75 x 3.8 mm (DIN EN 1514-2:2014)	

Leakage Data

40 Bar

Minimum stress to seal $Q_{min}(L)$ (at assembly), $Q_{smin}(L)$ (after off-loading) for $p=40$ bar ($T = 23 \pm 2^\circ C$)							
L (mg/m/s)	$Q_{min}(L)$ (MPa)	$Q_{smin}(L)$ (MPa)					
		$Q_A = 200$ MPa	$Q_A = 250$ MPa	$Q_A = 300$ MPa	$Q_A = 400$ MPa	$Q_A = 500$ MPa	$Q_A = 600$ MPa
1.00E+00	128	100	100	100	100	100	100
1.00E-01	132	100	100	100	100	100	100
1.00E-02	136	100	100	100	100	100	100
1.00E-03	139	100	101	109	127	127	127
1.00E-04	142	101	103	129	152	160	167
1.00E-05	145	104	109	166	174	189	203
1.00E-06	148	106	113	190	197	210	218
1.00E-07	152	109	118	201	213	230	234
1.00E-08							

Leakage curves 25°C, 40 bar



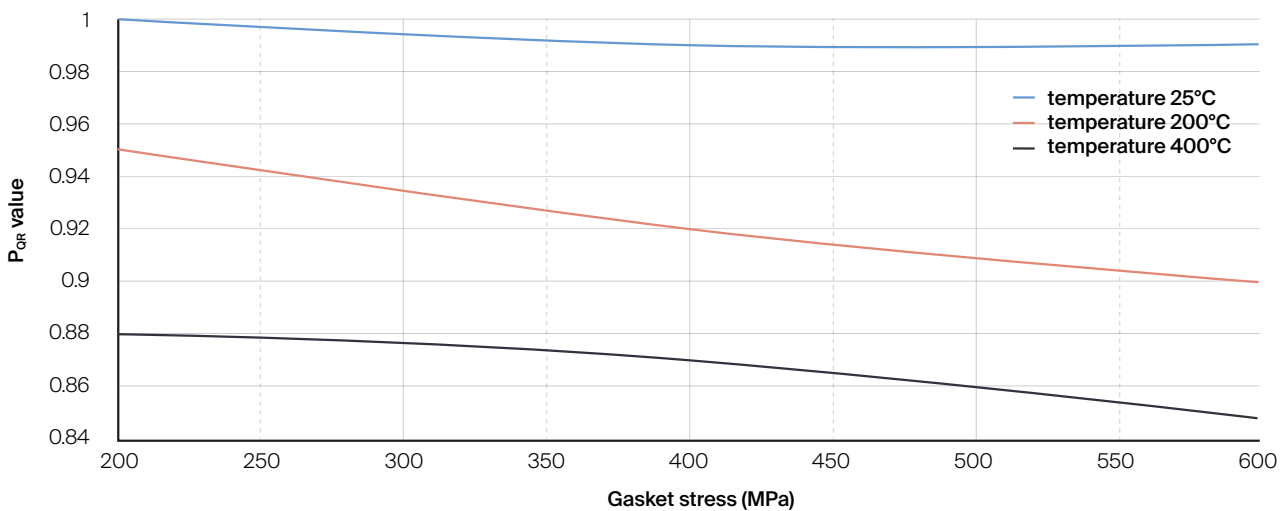
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Relaxation Values

Relaxation ratio P_{QR} for stiffness $C = 500$ kN/mm						
Gasket stress	Temperature 25°C		Temperature 200°C		Temperature 400°C	
	P_{QR}	Δe_{GC} (μm)	P_{QR}	Δe_{GC} (μm)	P_{QR}	Δe_{GC} (μm)
Stress level 1 (200 MPa)	1	1	0.95	9	0.88	18
Stress level 2 (400 MPa)	0.99	3	0.92	24	0.87	37
Stress level 3 (600 MPa)	0.99	7	0.9	44	0.85	63

P_{QR} and Δe_{GC} at maximum gasket stress to be applied Q_{smax}						
P_{QR} at Q_{smax}	0.99	14			0.92	98
Q_{smax}	800 MPa				800 MPa	

P_{QR} over initial gasket stress grouped by temperature



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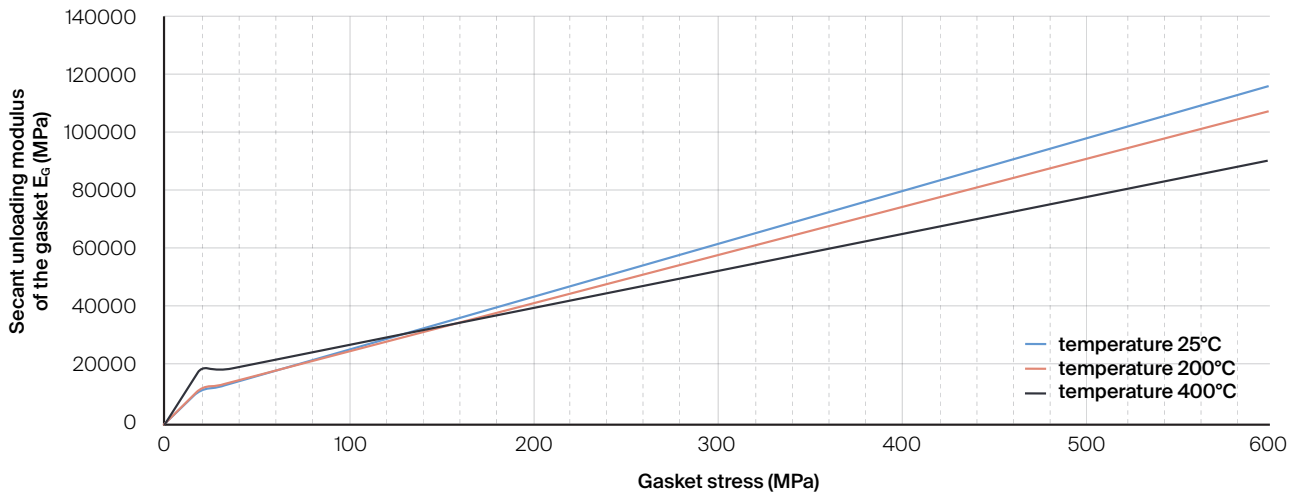
Modulus of Elasticity

Secant unloading modulus of the gasket E_g (MPa) and gasket thickness e_g (mm)						
Gasket stress (MPa)	Temperature 25°C		Temperature 200°C		Temperature 400°C	
	E_g (MPa)	e_g (mm)	E_g (MPa)	e_g (mm)	E_g (MPa)	e_g (mm)
0	0	3.839	0	3.845	0	3.850
1	0	3.839	0	3.845	0	3.850
20	10441	3.810	10925	3.812	16558	3.813
30	12273	3.805	12560	3.809	17803	3.807
40	14112	3.799	14205	3.803	19069	3.803
50	15925	3.795	15836	3.799	20342	3.799
60	17764	3.791	17480	3.792	21608	3.795
80	21389	3.783	20765	3.783	24155	3.792
100	25048	3.775	24062	3.778	26696	3.792
120	28665	3.770	27348	3.776	29241	3.790
140	32287	3.766	30624	3.770	31790	3.784
160	35937	3.761	33924	3.762	34326	3.775
180	39554	3.755	37209	3.753	36872	3.766
200	43182	3.749	40507	3.743	39406	3.756
220	46803	3.743	43807	3.732	41969	3.744
240	50447	3.736	47096	3.720	44505	3.732
260	54059	3.729	50382	3.707	47055	3.719
280	57692	3.722	53688	3.694	49598	3.705
300	61324	3.714	56986	3.679	52145	3.691
320	64948	3.705	60251	3.663	54690	3.677
340	68596	3.697	63564	3.648	57242	3.661
360	72213	3.688	66832	3.631	59783	3.646
380	75841	3.679	70136	3.614	62324	3.630
400	79485	3.669	73440	3.598	64882	3.614
420	83109	3.659	76740	3.581	67426	3.597
440	86726	3.649	80033	3.564	69962	3.580
460	90374	3.639	83322	3.548	72525	3.562
480	93998	3.628	86623	3.531	75069	3.543
500	97627	3.616	89898	3.514	77605	3.524
600	115776	3.557	106370	3.420	90353	3.423

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Modulus of Elasticity

Secant unloading modulus of the gasket E_G (MPa)



Compression Curve

Gasket thickness e_G (mm)

