

Jawa Industrie-Dichtungen GmbH

Corrugated Gasket TYPE SW201A 1.4571/GR 1,0 mm

Corrugated Gasket - Graphite - EN 1514-4 - 94 x 49 x 3,5 mm



Maximum allowable gasket stress  $Q_{Smax}$

T / °C	22	200	400			
$Q_{Smax}$ / MPa	220 <sup>1)</sup>	200 <sup>2)</sup>	200 <sup>2)</sup>			

Modulus of elasticity  $E_G$  and gasket thickness  $e_G$

T / °C	22		200		400				
	$Q_A$ / MPa	$e_G$ / mm	$E_G$ / MPa	$e_G$ / mm	$E_G$ / MPa	$e_G$ / mm			
1	3,179	-	3,167	-	3,187	-			
10	2,357	358	2,101	495	2,112	422			
20	1,795	881	1,772	848	1,737	760			
30	1,693	1247	1,653	1203	1,622	1082			
40	1,637	1620	1,595	1590	1,564	1437			
50	1,596	2026	1,556	2058	1,522	1870			
60	1,565	2452	1,523	2406	1,488	2187			
80	1,515	3344	1,472	3451	1,434	3054			
100	1,477	4389	1,431	4441	1,394	4024			
120	1,446	5713	1,394	5129	1,364	5042			
140	1,421	7068	1,368	6301	1,340	6188			
160	1,400	8134	1,342	7064	1,319	7568			
180	1,381	9238	1,317	8452	1,297	8643			
200	1,363	9918	1,289	10334	1,276	10265			
220	1,348	11326	x	x	x	x			

Creep relaxation factor  $P_{QR}$  for stiffness C = 500 kN/mm

T / °C	22	200	400			
$Q_A$ / MPa	$P_{QR}$ / -	$P_{QR}$ / -	$P_{QR}$ / -			
30	0,96	0,79	0,77			
90	0,99	0,88	0,89			
200	-	0,95 <sup>2)</sup>	0,93 <sup>2)</sup>			
220	1,00	x	x			

Note:  
<sup>1)</sup> Limited by capability of test rig  
<sup>2)</sup> Bore intrusion

Minimum required gasket stress in assembly  $Q_{min(L)}$

L / mg/m/s p / bar	$10^0$		$10^{-1}$		$10^{-2}$		$10^{-3}$		$10^{-4}$		$10^{-5}$		$10^{-6}$		$10^{-7}$	
	10	40	10	40	10	40	10	40	10	40	10	40	10	40	10	40
$Q_{min(L)}$ / MPa	5	10	5	12	8	21	23	39	49	64	88	122	x	x	x	x

Minimum required gasket stress in service  $Q_{Smin(L)}$  [MPa]

$Q_A$ / MPa	$10^0$		$10^{-1}$		$10^{-2}$		$10^{-3}$		$10^{-4}$		$10^{-5}$		$10^{-6}$		$10^{-7}$	
	10	40	10	40	10	40	10	40	10	40	10	40	10	40	10	40
10	< 5	< 10	< 5	x	7	x	x	x	x	x	x	x	x	x	x	x
20	< 5	< 10	< 5	< 10	< 5	x	x	x	x	x	x	x	x	x	x	x
30	< 5	< 10	< 5	< 10	< 5	12	15	x	x	x	x	x	x	x	x	x
40	< 5	< 10	< 5	< 10	< 5	< 10	13	37	x	x	x	x	x	x	x	x
60	< 5	< 10	< 5	< 10	< 5	< 10	9	20	43	x	x	x	x	x	x	x
80	< 5	< 10	< 5	< 10	< 5	< 10	8	18	33	39	x	x	x	x	x	x
100	< 5	< 10	< 5	< 10	< 5	< 10	6	17	33	37	90	x	x	x	x	x
160	< 5	< 10	< 5	< 10	< 5	< 10	< 5	13	24	34	71	79	x	x	x	x

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