

Jawa Industrie-Dichtungen GmbH, Max-Planck-Ring 18, 46049 Oberhausen
JAWA Kammprofilgasket TYPE M302A, M303A, M304A 5 mm - 1.4571 (316Ti) / Graphite 0,5 mm
 Kammprofile Gasket - Graphite - EN 1514-6 - 69 x 53 x 5 mm



Maximum allowable gasket stress Q_{Smax}

T / °C	22	200	400			
Q_{Smax} / MPa	500	500	500			

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	4,728	-	4,705	-	4,756	-			
10	4,186	1772	4,087	2096	4,059	2074			
20	3,967	3798	3,966	4195	3,928	3910			
30	3,911	5392	3,918	6047	3,878	5529			
40	3,882	6842	3,890	7635	3,853	7409			
50	3,863	8082	3,870	8681	3,837	9754			
60	3,847	9748	3,855	10496	3,824	11465			
80	3,824	12303	3,831	12388	3,804	15150			
100	3,805	14977	3,817	15694	3,790	18423			
120	3,789	17438	3,802	18154	3,779	21858			
140	3,774	20220	3,788	20613	3,768	24602			
160	3,760	22941	3,773	23530	3,759	28274			
180	3,746	26041	3,759	25796	3,748	31327			
200	3,733	28867	3,745	28568	3,738	35801			
220	3,721	32027	3,731	31195	3,728	39938			
240	3,709	34914	3,716	33743	3,717	43863			
260	3,697	38021	3,701	36447	3,705	46284			
280	3,685	40968	3,685	38376	3,692	48754			
300	3,673	43982	3,668	40614	3,678	50218			
320	3,661	47184	3,650	42378	3,663	51730			
340	3,647	49156	3,631	44658	3,647	54549			
360	3,632	51889	3,611	47000	3,631	55712			
380	3,617	53303	3,590	48385	3,614	59089			
400	3,601	55302	3,569	49886	3,597	61826			
420	3,584	56840	3,548	53763	3,578	63263			
440	3,567	58380	3,525	55144	3,560	66223			
460	3,549	60066	3,502	56035	3,539	66609			
480	3,530	61751	3,479	57588	3,519	63257			
500	3,512	63729	3,456	59163	3,498	70377			

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	0,98	0,59	0,45			
90	0,99	0,83	0,76			
500	0,99	0,96	0,93			

Note: 1) Limited by capability of test rig
 2) Bore intrusion

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

L / mg/m/s	10^0	10^{-1}	10^{-2}	10^{-3}	10^{-4}	10^{-5}	10^{-6}	10^{-7}
p / bar	40	40	40	40	40	40	40	40
$Q_{min(L)}$ / MPa	10	10	10	25	54	92	147	x

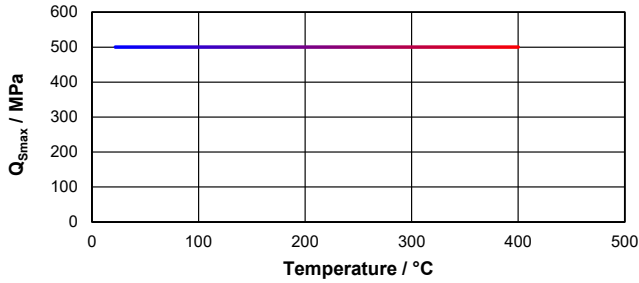
Minimum required gasket stress in service $Q_{Smin(L)}$ [MPa]

L / mg/m/s	10^0	10^{-1}	10^{-2}	10^{-3}	10^{-4}	10^{-5}	10^{-6}	10^{-7}
p / bar	40	40	40	40	40	40	40	40
Q_A / MPa	20	< 10	< 10	< 10	x	x	x	x
	30	< 10	< 10	< 10	19	x	x	x
	40	< 10	< 10	< 10	19	x	x	x
	60	< 10	< 10	< 10	26	55	x	x
	80	< 10	< 10	11	27	55	x	x
	100	< 10	< 10	16	31	58	93	x
	160	< 10	11	17	29	55	93	148

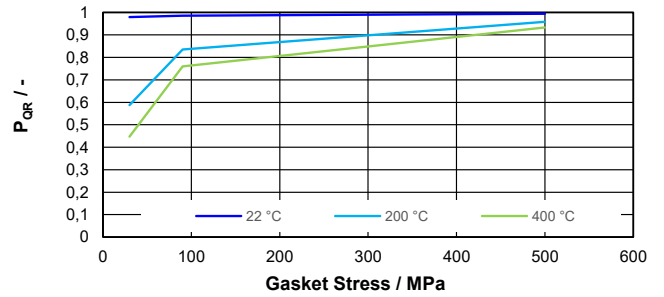
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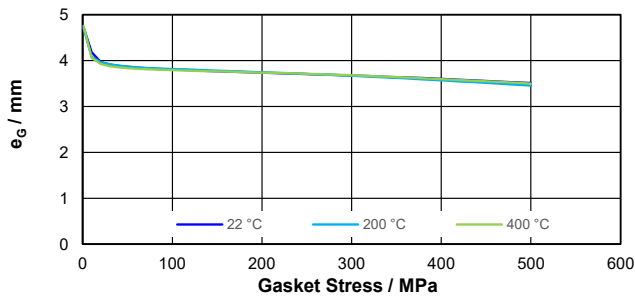
Maximum allowable Gasket Stress Q_{Smax}



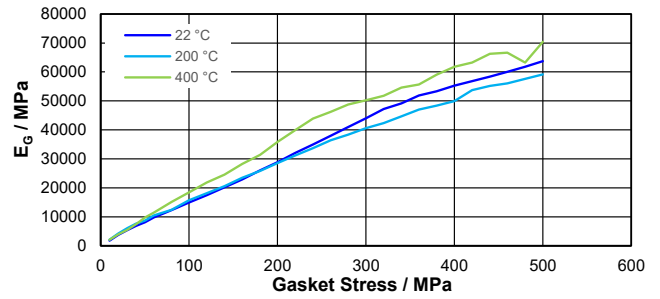
Creep Relaxation Factor P_{QR}



Gasket Thickness e_G



Modulus of Elasticity E_G



40 bar

