

DIN 28090 Part 1 (9/95) (DIN E 2505 Part 2)										AD-Merkblatt B7 DIN V 2505		ASME-Code			
P <sub>1</sub>	Dicke h <sub>D</sub>	σ <sub>VU</sub>	σ <sub>VO</sub>	m	σ <sub>BO</sub>					b <sub>D</sub> : h <sub>D</sub>	k <sub>0</sub> x K <sub>D</sub>	k <sub>1</sub>	m	y	y
[bar]	[mm]	[N/mm <sup>2</sup> ]	[N/mm <sup>2</sup> ]		[N/mm <sup>2</sup> ]						[N/mm]	[mm]		[psi]	[N/mm <sup>2</sup> ]
					20°C	100°C	200°C	300°C	400°C						
10	1.0	< 10	360	1.3	360	70	45	30	-	10 : 1	10 x b <sub>D</sub>	1.3 x b <sub>D</sub>	2.5	1450	10
	1.5	11	240	1.3	240	55	35	20	-	6.7 : 1	11 x b <sub>D</sub>	1.3 x b <sub>D</sub>	2.5	1595	11
	2.0	12	180	1.3	180	40	25	10	-	5 : 1	12 x b <sub>D</sub>	1.3 x b <sub>D</sub>	2.5	1740	12
	3.0	12	120	1.3	120	30	15	5	-	3.3 : 1	12 x b <sub>D</sub>	1.3 x b <sub>D</sub>	2.5	1740	12
16	1.0	11	360	1.3	360	70	45	30	-	10 : 1	11 x b <sub>D</sub>	1.3 x b <sub>D</sub>	2.5	1595	11
	1.5	15	240	1.3	240	55	35	20	-	6.7 : 1	15 x b <sub>D</sub>	1.3 x b <sub>D</sub>	2.5	2175	15
	2.0	17	180	1.3	180	40	25	10	-	5 : 1	17 x b <sub>D</sub>	1.3 x b <sub>D</sub>	2.5	2465	17
	3.0	17	120	1.3	120	30	15	5	-	3.3 : 1	17 x b <sub>D</sub>	1.3 x b <sub>D</sub>	2.5	2465	17
25	1.0	15	360	1.3	360	70	45	30	-	10 : 1	15 x b <sub>D</sub>	1.3 x b <sub>D</sub>	2.5	2175	15
	1.5	20	240	1.3	240	55	35	20	-	6.7 : 1	20 x b <sub>D</sub>	1.3 x b <sub>D</sub>	2.5	2900	20
	2.0	22	180	1.3	180	40	25	10	-	5 : 1	22 x b <sub>D</sub>	1.3 x b <sub>D</sub>	2.5	3190	22
	3.0	22	120	1.3	120	30	15	5	-	3.3 : 1	22 x b <sub>D</sub>	1.3 x b <sub>D</sub>	2.5	3190	22
40	1.0	22	360	1.3	360	70	45	30	-	10 : 1	22 x b <sub>D</sub>	1.3 x b <sub>D</sub>	2.5	3190	22
	1.5	25	240	1.3	240	55	35	20	-	6.7 : 1	25 x b <sub>D</sub>	1.3 x b <sub>D</sub>	2.5	3625	25
	2.0	27	180	1.3	180	40	25	10	-	5 : 1	27 x b <sub>D</sub>	1.3 x b <sub>D</sub>	2.5	3915	27
	3.0	27	120	1.3	120	30	15	5	-	3.3 : 1	27 x b <sub>D</sub>	1.3 x b <sub>D</sub>	2.5	3915	27

m The m-factor is a value to describe the minimum surface pressure under operating conditions. Up to now there does not exist a definite test specification. The m-factor can be looked at in different ways and depends on the tightness class, the temperature and the surface pressure in the installed state. Within the Brite EuRam research project m-factors between 1.3 and 3.8 were found as average values for graphite gaskets. The user may judge to calculate with different factors (e.g. m = 2).

m The m-factors according to DIN 28090 and ASME-code are defined variably - from this reason the values differ

**Please note:** All previous data cease to apply. You may take all current versions from the website [www.frenzelit.com](http://www.frenzelit.com) or ask at Frenzelit directly. The values have been determined with standard laboratory equipment. In view of the variety of different installation and operation conditions and process engineering options, there is no basis for warranty claims referring to the behaviour of the sealing joint. Subject to technical changes and printing errors.