




## LENTICULAR GASKETS



“Lenticular Gaskets-high integrity sealing elements, providing a high pressure/temperature metal to metal seal for special applications”



### Gasket Profiles, Characteristics & Special Shapes


It is always recommended that the gasket material be softer than the mating flanges. When higher loads are applied on the gasket the contact area increases, this prevents the gasket from being overstressed.



As with all metallic gaskets, the re-use of Lenticular Rings is not recommended, as increased bolt loads are required to achieve similar sealing performance. This can lead to damage to the flange faces.

Profile	Cross-section	Materials	K <sub>0</sub>	K <sub>1</sub>	R <sub>z</sub> *
			[N/mm]	[mm]	(μm)
L7		Metal	2	6	From 2,5 to 6,3
L8			-	-	
L9			-	-	

Profile	Cross-section	Materials	K <sub>0</sub>	K <sub>1</sub>	R <sub>z</sub> *
			[N/mm]	[mm]	(μm)
L4		Divided Lens	2	6	From 2,5 to 6,3
L5		Lens			

Profile	Cross-section	Materials	K <sub>0</sub>	K <sub>1</sub>	R <sub>z</sub> *
			[N/mm]	[mm]	(μm)
D2		Metal	1	5	From 6,3 to 12,5
D3					

Profile	Cross-section	Materials	K <sub>0</sub>	K <sub>1</sub>	R <sub>z</sub> *
			[N/mm]	[mm]	(μm)
L15		Steel	-	-	From 1,6 to 6,3

Profile	Cross-section	Materials	$K_0$	$K_1$	$R_z^*$
			[N/mm]	[mm]	( $\mu\text{m}$ )
R10 ROUND		One side	1,5	6	From 2,5 to 6,3
		Both sides			

## Surface Pressure

In order to avoid collapse, the sealing surface pressure must be between  $\sigma_{\min}$  and  $\sigma_{\max}$ :

Profile	Materials	Surface Pressure (N/mm <sup>2</sup> )			
		T = 20°C		T = 300°C	
		$\sigma_{\min}$	$\sigma_{\max}$	$\sigma_{\min}$	$\sigma_{\max}$
D4 to D15 D2,D3	Mild Carbon Steel	265	600	265	315
	Mild Carbon Steel / Copper	135	600	135	390
	Stainless Steel 1.4541	335	700	335	600
	Stainless Steel 1.4541 coated with silver	100	700	100	600
	Stainless Steel 1.4828	400	900	400	750
	Stainless Steel 1.4828 / Silver	100	900	100	750
	Alloy-Steel 1.7362	400	900	400	730
	Alloy-Steel 1.7335	300	675	300	585
	Nickel	190	510	190	480
	Monel	260	660	260	650
	Silver	200	440	200	240
Copper	135	300	135	150	

## TECHNICAL DATA

According to DIN 2696

PN 64 to PN 400

DN	$d_1^{1)}$ min.	$a^{2)}$	$d_1$ máx.	$a^{2)}$	$d_2$	R	X
<b>PN 64 to 400</b>							
10	10	8	14	7	21	25	5,7
15	14	10	18	9	28	32	6
25	22	11,5	29	9,5	43	50	6
40	34	15	43	12,5	62	70	8
50	46	16,5	55	13,5	78	88	9
65	62	21	70	18,5	102	112	13
80	72	21,5	82	18,5	116	129	13
100	94	26	108	22	143	170	15
125	116	35,5	135	29,5	180	218	22
150	139	41	158	35	210	250	26
<b>PN 64 to 100</b>							
175	176	42,5	183	40,5	243	296	28
200	198	42,5	206	40	276	329	27
250	246	43	257	39,5	332	406	25
300	295	43,5	305	40,5	385	473	26
350	330	45,5	348	39,5	425	538	23
400	385	45,5	395	42	475	610	24
<b>PN 160 to 400</b>							
175	162	40	177	35,5	243	296	21
200	183	45,5	200	40	276	329	25
250	230	48	246	43	332	406	25
300	278	53	285	51	385	473	30