chemac inc.
121 Corporate Lane | New Bern, NC 28562 | USA
Toll Free. 1-800-217-8677 | Tel. 1-252-631-7188
Web. www.chemacinc.com | Email. Chemac@chemacinc.com

Type	Mechanical Properties Maximum Pressure [bar]	Maximmum Speed [m/s]		Temperature Resistance [°C] from	to														page
K80S	1500	0,2	2	-200	+550	z	z	z					z	z	z	z	z	z	z	165
K100	500	5	2	-200	+550	z	z	z			z		z	z	z	z	z		z	169
K80	300	5	2	-200	+550	z	z	z	z		z	z	z	z	z	z			z	164
K68	2	-	-	-200	+550	X	X		X	X	X	X								163
K95	300	30	10	-200	+450	z	z	z	z		z	z	z	z	z	z			z	168
K450G	20	-	-	-40	+450	X				X		X	z		z	z			X	169
K80C	300	5	2	-200	+280	z	z	z	z	z	z	z	z	z	z	z	z		z	165
K91	200	20	3	-200	+280		z	z	z	X	z	X	z	z	z	z	z		z	168
K90	200	10	10	-200	+280		z	z		X		X	z	z	z	z	z	z	X	167
K36	200	0,5	2	-200	+280		z	z	z	z	z	z	z	z	z	z	z	X	z	162
K75	200	8	6	-200	+260	X	z	z	z	X	z	X	z	z	z	z	z	X	z	164
K81	100	20	3	-100	+280	X	z	z	z	X	z	X	z	z	z	z	z	z	X	166
K89	50	15	15	-100	+280		z	z		X		X	z	z	z	z	z	z	X	167
K40	30	20	5	-100	+280		z	z	z		z		z	z			X	X	X	162
K83	100	15	2	-100	+250	X	z	z	z	X	z	X	z	z	z	z	z	z	X	166
K41	60	10	4	-20	+120		z	z		X		X	z	X			X		X	163

z = applicable, = conditionally applicable, X = not applicable

Size of the Gap between Spindle, Gland Packing and Housing

If we designate the outer diameter of the spindle as d_1 and the interior diameter of the gland or of the bottom ring as d_2, then $t = (d_2 - d_1)/2$ is valid for the median radial gap between the spindle and the spacer or the bottom ring. In the case of an off-center position of the spindle or rod, the gap can double to one side to $2t = d_2 - d_1$.

The table shows reference values for the maximum permitted size of the gap t in reference to the packing material. The influence of the operating pressure to be sealed was taken into account in this respect, as generally the smaller packing widths are inserted for the higher pressures.

Tolerances and the Composition of the Surface Area

For the rod or spindle, the accuraey degree should be h9. The surface area roughness should be $R_z \leq 2.5$ µm or alternatively $R_a \leq 0.6$ µm

For the gland, the tolerance accuraey degree D10 was proven. The surface area roughness should be $R_z \leq 6.3$ µm or alternatively $R_a \leq 2.5$ µm.

Permitted radial Gap t in mm between Spindle and Gland or Housing

Nominal width of packing in mm	packing K36,K75 K80C, K95C	K80, K95	K80S, K100
3	0,08	0,20	0,35
4	0,10	0,22	0,40
5	0,10	0,24	0,45
6	0,12	0,28	0,50
8	0,12	0,32	0,55
10	0,14	0,36	0,60
12	0,14	0,40	0,65
15	0,16	0,45	0,70
20	0,16	0,50	0,75
25	0,18	0,55	0,80