

Type	Mechanical Properties			Temperature Resistance												page																
	Maximum Pressure [bar]	Maximum Speed [m/s]		from	to																											
K80S	1500	0,2	2	-200	+550	z	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			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																	X	169	
K80C	300	5	2	-200	+280	z	z	z	z	z	z	z	z	z	z	z	z	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	z	z	z	z	z	z	z	z	z	z	z	z	168	
K90	200	10	10	-200	+280		z	z		X		X	z	z	z	z	z	z	z	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	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	z	z	z	z	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	z	z	z	z	z	z	z	z	z	z	z		166	
K89	50	15	15	-100	+280		z	z		X		X	z	z	z	z	z	z	z	z	z	z	z	z	z	z	z	z			X	167
K40	30	20	5	-100	+280		z	z	z			z	z	z					X	X	X	z										162
K83	100	15	2	-100	+250	X	z	z	z	X	z	X	z	z	z	z	z	z	z	z	z	z	z	z	z	z	z	z	z	z		166
K41	60	10	4	-20	+120		z	z		X		X	z	X						X	X	z										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 accuracy degree should be h9. The surface area roughness should be $R_z \leq 2.5 \mu\text{m}$ or alternatively $R_a \leq 0.6 \mu\text{m}$

For the gland, the tolerance accuracy degree D10 was proven. The surface area roughness should be $R_z \leq 6.3 \mu\text{m}$ or alternatively $R_a \leq 2.5 \mu\text{m}$.

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