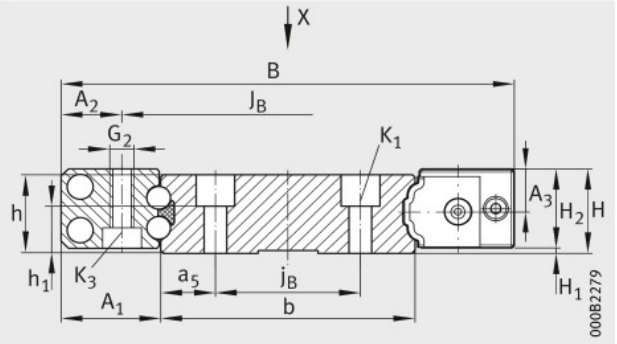
Linear recirculating ball bearing units
Guideways



KUVS..-B with TKVD32, TKVD42, TKVD71

Dimension table · Dimensions in mm

Linear recirculating ball bearing unit	Guideway	Dimensions						Mounting dimensions					
Designation	Designation	l_{max} [2]	H	B	L	h	b	A_1	A_2	J_B	B_1	j_B	a_5
KUVS10-B	**TKVD32**	1 960	11	51,6	47	10	31,8	9,9	5,5	40,6	–	18	6,9
KUVS13-B	**TKVD42**	2 940	19	75	71	18	42	16,5	10	55	–	24	9
KUVS13-B	**TKVD14**	1 940	15	30	71	14	13,5	16,5	10	–	16,2	–	6
KUVS17-B	**TKVD71**	2 940	18	116	96	17	71	22,5	13	90	–	50	10,5

〈1〉 Locating face. 〈2〉 Marking.

1) The stated torques represent maximum values for the secure transmission of forces in vibration-free, quasistatic applications ($S_0 = 1$). We recommend that the tightening torques for the screw connection of the adjacent construction should be determined at the customer under the conditions specific to the application and operation, observing the information in VDI Guideline 2230 Part 1 (2015) and the information in this description, see page 69 and page 26.

2) Maximum length of single-piece guideways.
Permissible number of segments, see page 423.
Longer guideways are supplied as several segments and are marked accordingly.

3) a_L and a_R are dependent on the guideway length.

4) In relation to two linear recirculating ball bearing units with TKVD32, TKVD42 and TKVD71, in relation to one linear recirculating ball bearing unit with TKVD14.

5) The usable load carrying capacity is influenced by the connections between the guidance elements and the adjacent construction.

6) The basic load rating can only be transmitted fully if the whole thread length is used and the adjacent construction is dimensioned appropriately.

Dimension table (continued) · Dimensions in mm

Linear recirculating ball bearing unit		Guideway			Load carrying capacity [4)5)]				
Designation	Mass	Designation	Mass	Closing plug	Basic load ratings [6)]		Moment ratings		
	m		m		dyn. C	stat. C_0	M_{0x}	M_{0y}	M_{0z}
	≈ kg		≈ kg/m		N	N	Nm	Nm	Nm
KUVS10-B	0,025	**TKVD32**	2,3	KA8-TN	5 700	10 600	203	51	51
KUVS13-B	0,085	**TKVD42**	5,64	KA8-TN	13 500	26 000	648	211	211
KUVS13-B	0,085	**TKVD14**	1,36	KA8-TN	6 750	13 000	–	–	–
KUVS17-B	0,2	**TKVD71**	9,5	KA10-TN	26 000	46 500	1 872	492	492