

## Adjustable V-Belt Pulleys with 1 Groove Made from Silumin Hard alloy

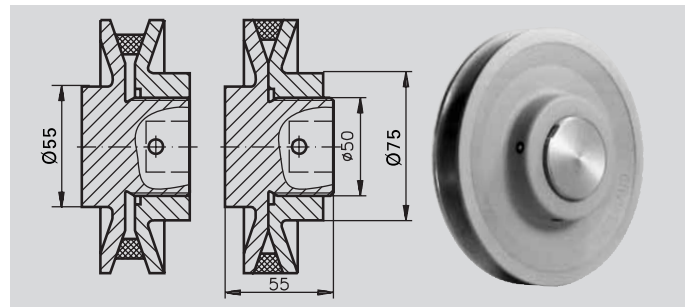
Matching narrow V-belts DIN 2215 und DIN 7753.

For all types:

Thread diameter 50 mm, max. bore 32 mm

Hub length: 1 groove = 55 mm.

The V-belt pulleys in stock are not pre-drilled.



Ordering Details: e.g.: Product No. 150 001 00, Adjustable Pulley, Aluminium, D=106 mm, 1 Groove

Product No.	Outside Diameter mm	Belt Profile	Effective Diameter		Adjusting Factor	POWER TRANSMISSION (at 180° Angle of Contact)				Weight approx. kg
			min.	max.		1450 min <sup>-1</sup>		2880 min <sup>-1</sup>		
			mm	mm		kW	kW	kW	kW	
150 001 00	106	SPZ	67	84	1.25	1.45	2.16	2.58	3.83	0.6
		SPA	69	92	1.33	1.97	3.68	3.31	6.48	
		Z (10)	63	84	1.33	0.35	0.59	0.59	1.01	
		A (13)	65	92	1.42	1.14	2.37	1.73	3.90	
		B (17)*	68	102	1.50	0.94	3.42	1.15	5.40	
150 002 00	118	SPZ	73	90	1.23	1.70	2.40	3.05	4.34	0.7
		SPA	75	98	1.31	2.42	4.12	4.15	7.28	
		Z (10)	69	90	1.30	0.42	0.65	0.71	1.12	
		A (13)	71	98	1.38	1.41	2.63	2.22	4.36	
		B (17)*	74	108	1.46	1.38	3.85	1.90	6.13	
150 003 00	131	SPZ	86	103	1.20	2.24	2.93	4.04	5.31	0.8
		SPA	88	111	1.26	3.38	5.07	5.93	8.98	
		Z (10)	82	103	1.26	0.56	0.79	0.97	1.37	
		A (13)	84	111	1.32	2.01	3.21	3.27	5.33	
		B (17)*	87	121	1.39	2.32	4.77	3.51	7.67	
150 004 00	143	SPZ	96	113	1.18	2.65	3.34	4.79	6.03	0.9
		SPA	98	121	1.23	4.12	5.79	9.28	10.26	
		Z (10)	92	113	1.23	0.67	0.89	1.16	1.55	
		A (13)	94	121	1.29	2.46	3.63	4.05	6.04	
		B (17)	97	131	1.35	3.05	5.47	4.77	8.81	
150 005 00	156	SPZ	126	138	1.10	3.86	4.33	6.94	7.76	1.1
		SPA	128	146	1.14	6.29	7.56	11.14	13.33	
		Z (10)	122	138	1.13	0.98	1.14	1.71	1.99	
		A (13)	124	146	1.18	3.76	4.69	6.25	7.70	
		B (17)	127	149	1.17	5.20	6.71	8.36	10.75	

\* Only recommended for effective diameter > 90 mm.

### General

The adjustable pulleys with 2 grooves can be used for the profiles 10, 13 and 17 as well as for narrow V-belt profiles SPZ, SPA and SPB.

The table above shows the smallest or the largest nominal diameter that can be used for this profile. As the drawing shows, the adjustable pulleys consist of two parts supplied with a fine thread. Turning the adjusting screws 1/4 a turn will change the nominal diameter by 1.2 mm. This means one turn of the screws makes a difference of 4.8 mm in the nominal diameter.

On request, the adjustable pulley can also be supplied with especially hardened surface - in hard coated version.

### Mounting Instructions

As the drawing shows, the threaded holes in the adjusting nut allow for an adjustability of 1/4 turn at a time. The thread on the adjustable hub is levelled at two opposing sides, to enable a fastening of the hexagon socket screw without damaging the thread. We recommend to thoroughly clean and grease the thread after finishing the bore, the keyway or mounting the set screw (standard pulleys are delivered without bore).

### The Adjusting Factor

In the above table you will find for an outside diameter of 106 and timing belt profile 17 the adjusting factor 1.50. This means that the maximum nominal diameter of this pulley can be almost steplessly enlarged up to 1.50 times compared to the smallest nominal diameter. If you now select a counter-pulley with an outside-diameter of 131, you get an overall adjusting factor of  $1.50 \times 1.39 = 2.08$  for profile 17.