

KES

Testing Method of Rubber V-Belt

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1. Scope of Application

This standard shall prescribe about non-connecting and ring shaped rubber V-belt (Called belt below) for transferring power.

Note : Among these standards, the units or measurements with { } are followed by the international unit system (SI).

2. Types

The types of the belts are classified by the cross-sectional areas as 6 types such as M type, A type, B type, C type, D type and E type.

3. Used Material

3.1 Rubber : The rubber should be appropriate for the usage of the belts and the formation should be uniform.

3.2 Bract : Flat bract is used as the bract, which is appropriate for cotton bract. The density should be uniform and not have scratch or twist.

3.3 Core string : The core string should have uniform twist for synthetic chemical fiber.

4. Manufacturing Method

The belt is manufacture with the materials listed on Rules 3. The core is composed of string, bract and rubber. Then, the core is wrapped by the rubber bract and pressure vulcanized.

5. Measurement

5.1 Cross-sectional area : The Cross-sectional area of belt is symmetrical to the vertical line and trapezoid shape. The measurements of angle and each side are shown on table 1.

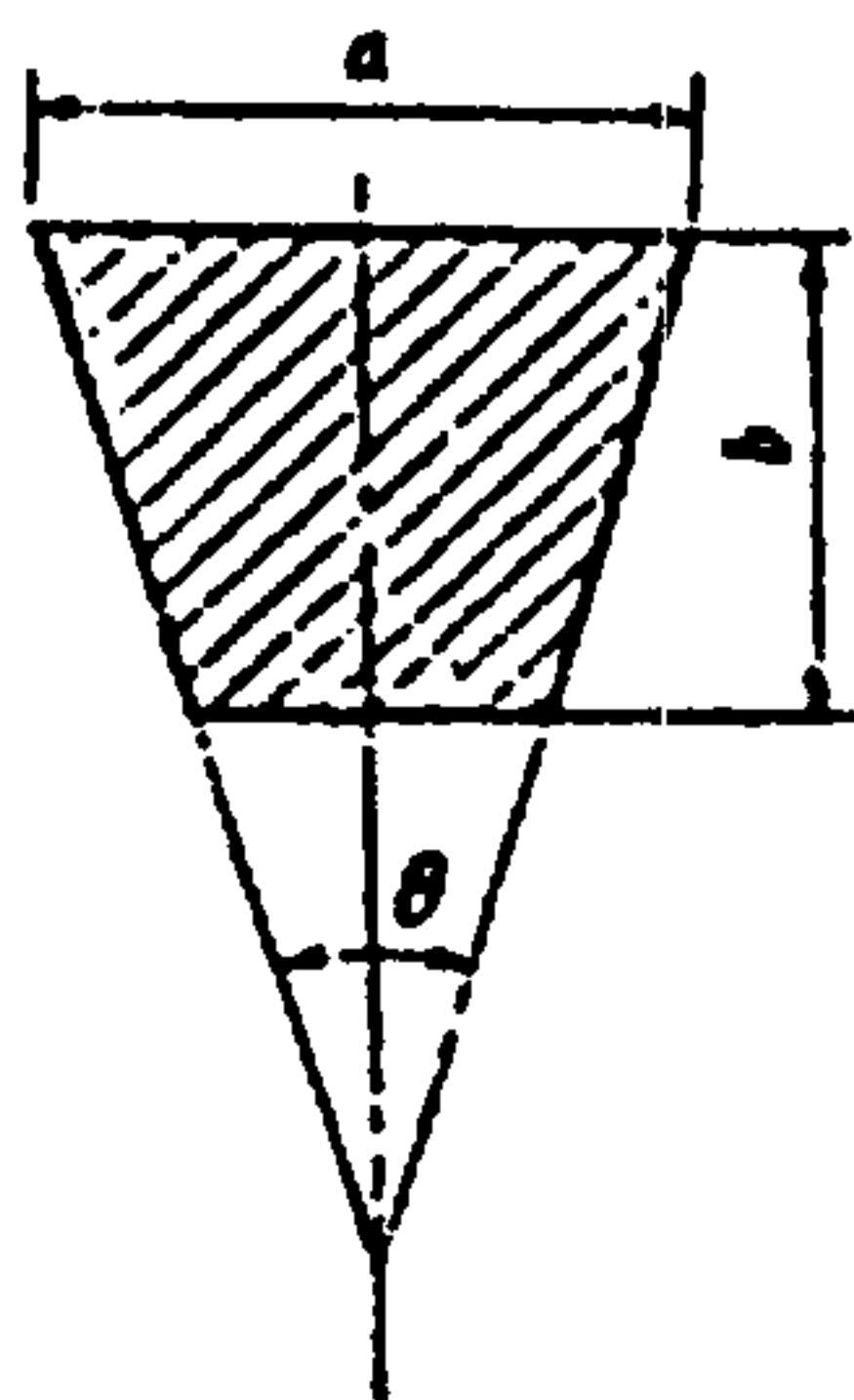


Table 1.

<div>Measure- ments</div> <div>Types</div>	a (mm)		b (mm)		θ	
	Measurements	Error ±	Measurements	Error ±	Measurements	Error ±
M	10.0	0.5	5.5	0.5	40	1.0
A	12.5	0.7	9.0	0.5	40	1.0
B	16.5	0.8	11.0	0.5	40	1.0
C	22.0	1.0	14.0	1.0	40	1.0
D	31.5	1.5	19.0	1.0	40	1.0
E	38.0	1.5	25.0	1.5	40	1.0

5.2 Length : The length of belt is expressed as outer circumference for the M type and the effective circumference ⁽¹⁾ is used for the θ type ~ E type. The length and acceptable error is shown on table 2. Other measurements than table 2 are acceptable and the errors should be followed to table 2.

Note⁽¹⁾ : The effective circumference is the length that passes the pitch circle of the V-belt pulley.

Table 2

Unit : mm

No.	Length						Acceptable Error
	Outer circumference	Effective Circumference					
		M type	A type	B type	C type	D type	
20	508	508	—	—	—	—	± 16
21	533	533	—	—	—	—	± 16
22	559	559	—	—	—	—	± 16
23	584	584	—	—	—	—	± 16
24	610	610	—	—	—	—	± 18
25	635	635	635	—	—	—	± 18
26	660	660	660	—	—	—	± 18
27	686	686	686	—	—	—	± 18
28	711	711	711	—	—	—	± 18
29	737	737	737	—	—	—	± 18
30	762	762	762	—	—	—	± 20
31	787	787	787	—	—	—	± 20
32	813	813	813	—	—	—	± 20
33	838	838	838	—	—	—	± 20
34	864	864	864	—	—	—	± 20
35	889	889	889	—	—	—	± 20
36	914	914	914	—	—	—	± 22
37	940	940	940	—	—	—	± 22
38	965	965	965	—	—	—	± 22
39	991	991	991	—	—	—	± 22
40	1016	1016	1016	—	—	—	± 22
41	1041	1040	1041	—	—	—	± 22
42	1067	1067	1067	—	—	—	± 22
43	1092	1092	1092	—	—	—	± 22
44	1118	1118	1118	—	—	—	± 22
45	1143	1143	1143	1143	—	—	± 22
46	1168	1168	1168	—	—	—	± 22
47	1194	1194	1194	—	—	—	± 22
48	1219	1219	1219	1219	—	—	± 24
49	1245	1245	1245	—	—	—	± 24