

KES

Method of Rotary Bending
Fatigue Test of Metals

KES T – L483

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1. Scope of application

This standard shall specify method of rotary bending fatigue test of metals at room temperature and atmosphere, it is applied to over 10^4 of fatigue life.

Where, rotary bending rotate relatively with face of bending moment of testing material that has axis on the face of bending moment, and load repeatedly.

2. Testing materials

2.1 Standard testing materials are specified 1~3 types by shape.

Standard dimension conforms to figure 1~3.

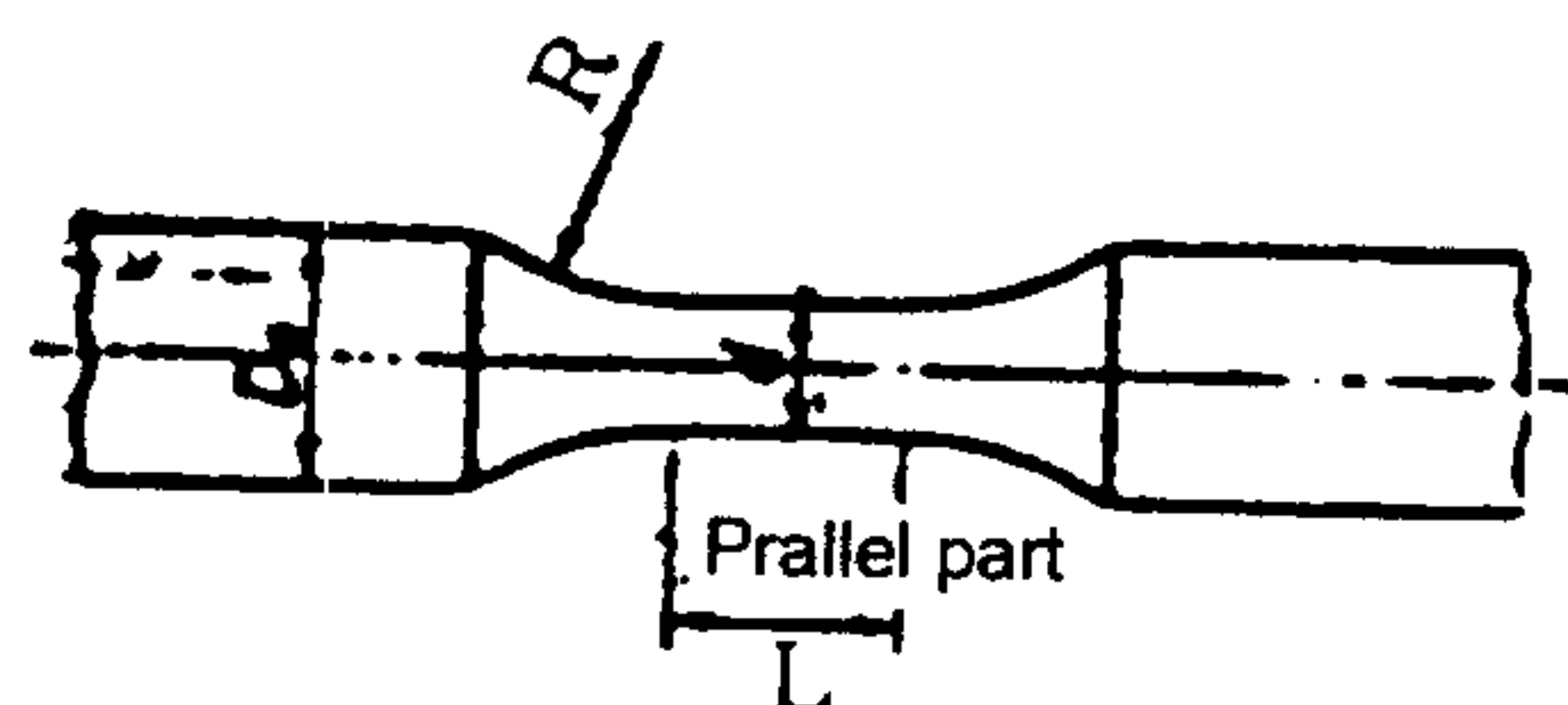


Figure 1. Testing material 1-type

Sign	d (mm)	R	L
1~ 6	6	More than 3d	More than 2d
1~ 8	8		
1~ 10	10		
1~ 12	12		

D_0 is 8, 12, 15mm as principle.

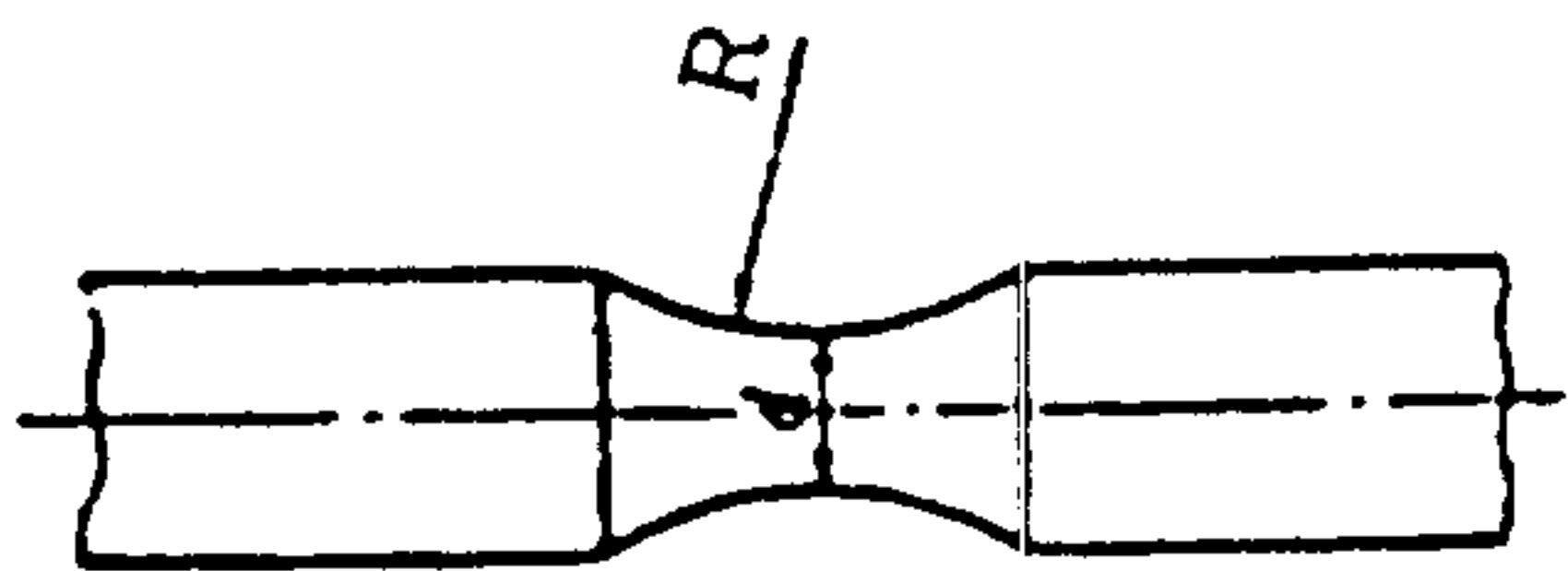


Figure 2. Testing material 2-type

Sign	d (mm)	R
2~ 6	6	More than 5d
2~ 8	8	
2~ 10	10	
2~ 12	12	

D₀ is 8, 12, 15mm as principle.

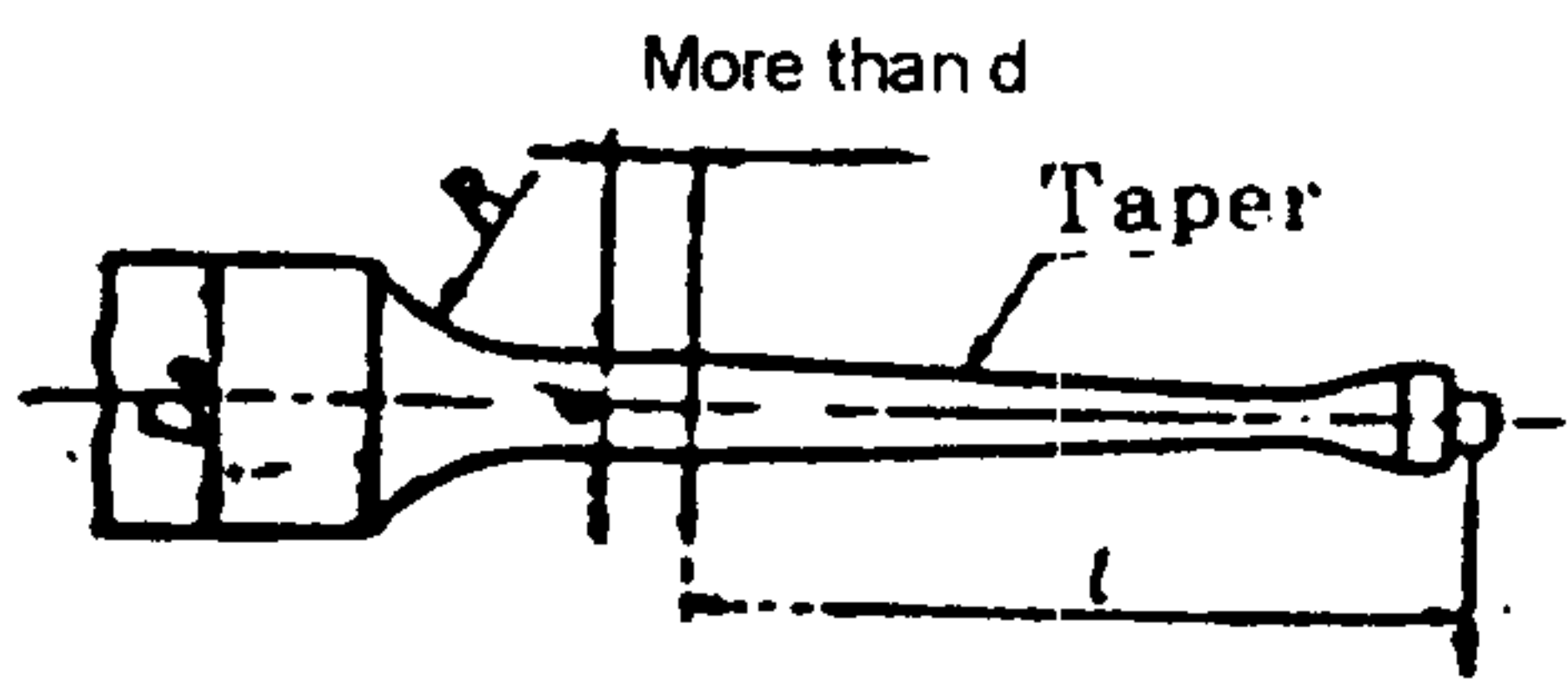


Figure 3. Testing material 3-type

Sign	d (mm)	R	L
3~ 6	6	More than 3d	More than 5d
3~ 8	8		
3~ 10	10		
3~ 12	12		

Note Dimension of notch testing material should be dimension of figure 4.