



Limit Gauge Precision Check Standard

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1. Scope of Application

This standard shall regulate performing precision check and calibration inspection of limit gauge.

2. Check Method

Perform precision check according table 1.

3. Decision Standard

For precision check standard, follow table 2.

4. Calibration Check Standard

Period of calibration inspection shall be 12 month.

5. Record and Management

Follow KMS M030000(Measurement instrument precision control method).

Table 1 Precision check method

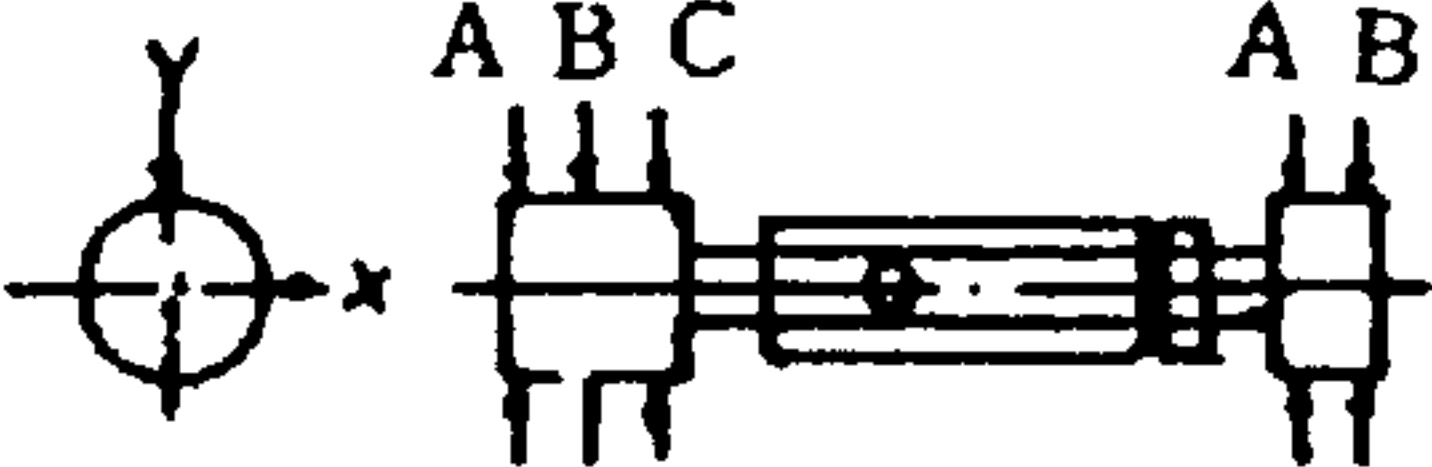
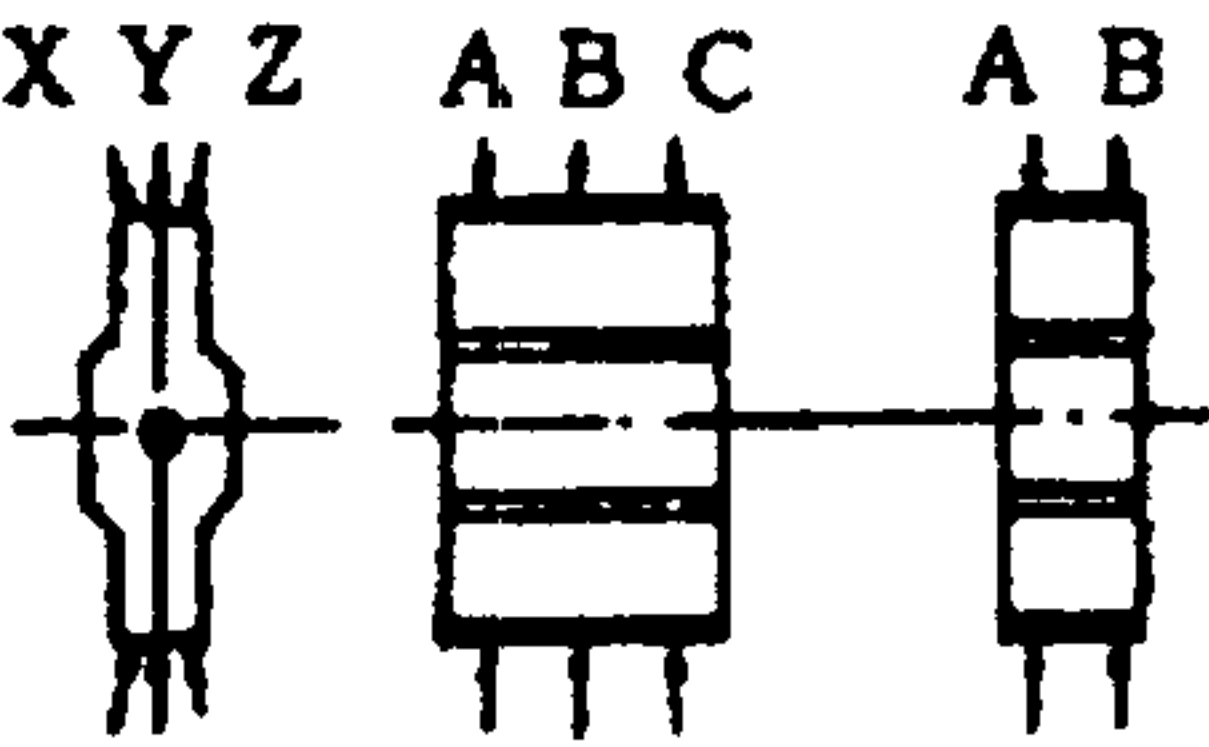
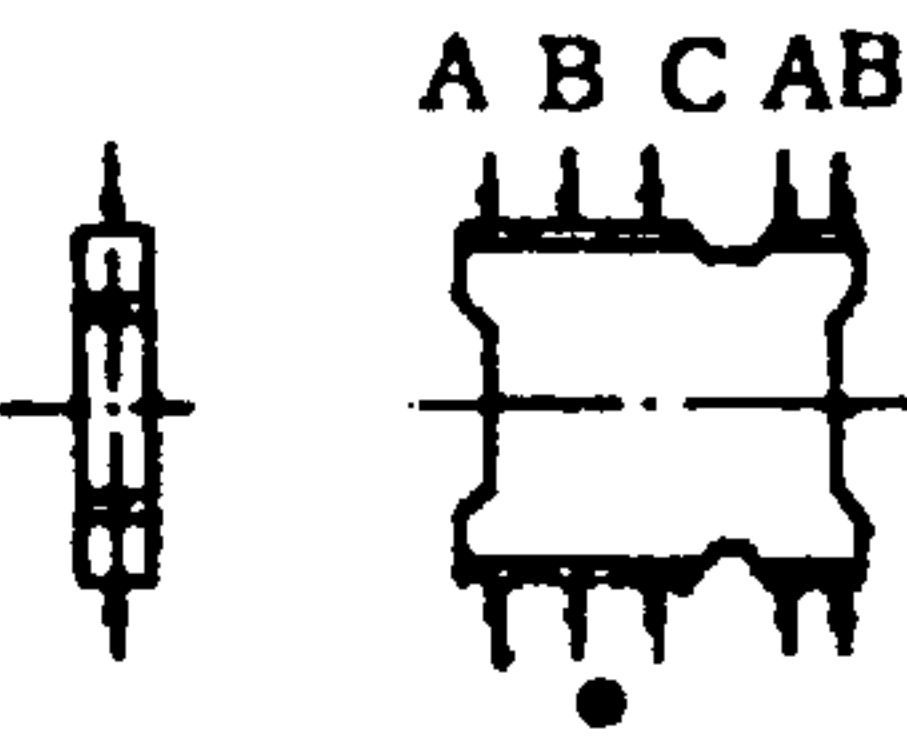
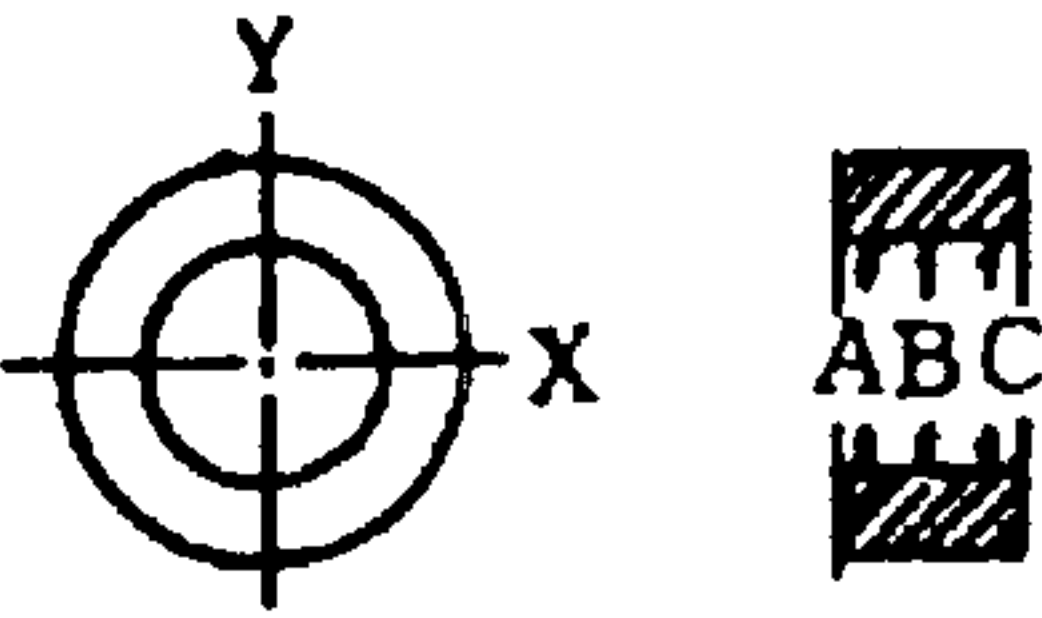
No	Check item		Check method	Figure	Used tool	Check standard
1	Appearance		Check shape, scar, carve of each part with eye.			No defect
2	Cylindrical plug gauge	Outer diameter	Measure by side measuring gauge and compare it with gauge block.	 <p>Passing side : 6 positions of A, B, C in two directions of X and Y. Stop side : 4 positions of A, B Measurement exception span : 1 mm from the end of gauge</p>	Indicating side measuring gauge, gauge block, flow air micrometer, electric micrometer	Follow additional table 2.
		Circle degree	Calculate it by measuring outer diameter by diameter method.			
		Cylinder degree	Follow outer diameter measurement method			

Table 1 Precision check method(Continued)

No	Check item		Check method	Figure	Used tool	Check standard
3	Parallel plug gauge	Outer diameter	Measure by side measuring gauge and compare it with gauge block.	 <p>Passing side : 9 positions of A,B,C in 3 directions of X, Y, Z. Stop side : 6 positions of A, B in 3 directions of X, Y, Z measurement exception span : • Less than size 180 : 2 mm • More than size 180 : 3 mm</p>	Indicating side measuring gauge, gauge block, flow air micrometer, electric micrometer	Follow additional table 2.
		Cylinder degree	Follow outer diameter measurement method			
4	Plate plug gauge	Outer diameter	Measure by side measuring gauge and compare it with gauge block	 <p>Passing side : 3 positions of A, B, C Stop side : 2 positions of A, B Measurement exception span : Follow parallel plug gauge.</p>	"	Follow precision standard.
		Cylinder degree	Follow outer diameter measurement method.			
5	Pipe gauge	Length	Measure by side measuring gauge and compare it with gauge block.		"	"
6	Ring gauge	Inner diameter	Measure by length meter or same precision inner diameter measurer and compare it with gauge block.	 <p>Passing side : 6 positions of A, B, C in 2 directions of X, Y. Stop side : Follow passing side.</p>	Length meter, inner diameter measurer, gauge block	"
		Circle degree	Measure inner diameter by diameter method		Length meter, inner diameter measurer	
		Cylinder degree	Calculate by inner diameter measurement method.		"	