#### **General Tolerances**

Excerpt from JIS B 0405:1991 / JIS B 0419:1991

## Allowance for the length dimension excluding the chamfering portion

Unit: mm

Tolerance class		Class of basic dimension(mm)							
Symbol	Explanation		More than 3 and 6 or less			More than 120 and 400 or less			
		Allowance							
f	Fine	±0.05	±0.05	±0.1	±0.15	±0.2	±0.3	±0.5	_
m	Middle class	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
С	Coarse	±0.2	±0.3	±0.5	±0.8	±1.2	±2	±3	±4
v	Very coarse	_	±0.5	±1	±1.5	±2.5	±4	±6	±8

<sup>\*</sup> For the basic dimension less than 0.5mm, the allowance is indicated individually just after the basic dimension.

# Allowance for the length dimension of chamfering portion (dimension of corner's roundness and chamfering at corner)

				Unit: mm		
Tolerand	ce class	Class of basic dimension(mm)				
Symbol	Explanation	0.5 or more* 3 or less	More than 3 and 6 or less	More than 6		
		Allowance				
f	Fine					
m	Middle class	±0.2	±0.5	±1		
С	Coarse			±2		
v	Very coarse	±0.4	±1			

<sup>\*</sup> For the basic dimension less than 0.5 mm, the allowance is indicated individually just after the basic dimension.

#### Allowance for angular dimension

Tolerance class		Class of length(mm) of shorter side of the object angle					
Symbol	Explanation	10 or less	10 and	50 and	More than 120 and 400 or less	More	
		Allowance					
f	Fine						
m	Middle class	±1°	±30′	±20′	±10′	±5′	
С	Coarse	±1°30′	±1°	±30′	±15′	±10′	
V	Very coarse	±3°	±2°	±1°	±30′	±20′	

#### General tolerance for squareness

				Unit: mm			
	Class of nominal length of shorter side						
Tolerance class	100 or less	More than 100 and 300 or less	More than 300 and 1000 or less	More than 1000 and 3000 or less			
	Squareness tolerance						
Н	0.2	0.3	0.4	0.5			
K	0.4	0.6	0.8	1			
L	0.6	1	1.5	2			

# General tolerance for radial run-out

Radial run-out tolerance
0.1
0.2
0.5

### General tolerance for straightness and flatness

Unit: mm

Tolerance class	Class of nominal length							
	10 or less	More than 10 and 30 or less		More than 100 and 300 or less		More than 1000 and 3000 or less		
	Straightness tolerance and flatness tolerance							
Н	0.02	0.05	0.1	0.2	0.3	0.4		
K	0.05	0.1	0.2	0.4	0.6	0.8		
L	0.1	0.2	0.4	0.8	1.2	1.6		