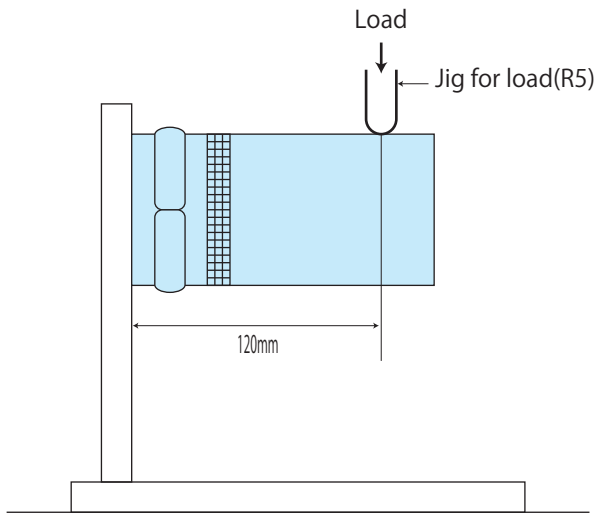


## Load test results of hinge



Determine the shape of the hinge starts to change under load as above.

Test product No.	Load of the first load-deformation (Kgf)	Test product No.	Load of the first load-deformation (Kgf)
A-1	7.4	A-80-12	12.0
A-3	9.3	A-80-13	17.7
A-7	13.4	A-80-16	17.1
A-9	13.7	A-80-17	19.5
A-30	53.4	A-80-18	11.2
A-44-2	53.1	A-80-19	30.8
A-46	6.1	A-80-20	40.0
A-47-2	15.3	A-90-1	69.7
A-70	154.0	A-90-2	82.2
A-71	127.5	A-90-6	6.3
A-72	270.0	A-90-7	3.4
A-77	112.0	A-91-1	258.3
A-79-1	33.0	A-91-2	188.8
A-80-1	18.7	A-91-3	128.0
A-80-2	121.0	A-91-4	110.9
A-80-3	49.2	A-95	3.1
A-80-7	24.3	AP-2-1	5.3
A-80-10	41.6	AP-2-2	8.4
SF-3-1	130.8	SF-3-5	139.3
SF-3-2	61.2	SAP-1(L)	26.5
SF-3-3	35.1	F-2	55.4
SF-3-4	39.6		

## Normal tolerance of press processing product

### ■ General dimensional tolerances of punching

(unit:mm)

Categories for basic size	Grade		
	A class	B class	C class
Below 6	±0.05	±0.1	±0.3
More than 6, less than 30	±0.1	±0.2	±0.5
More than 30, less than 120	±0.15	±0.3	±0.8
More than 120, less than 400	±0.2	±0.5	±1.2
More than 400, less than 1000	±0.3	±0.8	±2
More than 1000, less than 2000	±0.5	±1.2	±3

Remarks: A class, B class and C class are equivalent to f, m, and C of JIS standard (JIS B 0405) for tolerance.

### ■ General dimensional tolerances for bending and drawing

(unit:mm)

Categories for basic size	Grade		
	A class	B class	C class
Below 6	±0.1	±0.3	±0.5
More than 6, less than 30	±0.2	±0.5	±1
More than 30, less than 120	±0.3	±0.8	±1.5
More than 120, less than 400	±0.5	±1.2	±2.5
More than 400, less than 1000	±0.8	±2	±4
More than 1000, less than 2000	±1.2	±3	±6

Remarks: A class, B class and C class are equivalent to f, m, and V of JIS standard (JIS B 0405) for tolerance.

## Magnetic properties of stainless steel

There are three types of stainless steel in modifications and metal structures.

Classification	Typical steel grades		Chemical composition		Magnetic properties
Martensitic	SUS403	SUS410	13Cr	Below C0.15	Yes
Ferrite	SUS430		18Cr	Below C0.12	Yes
Austenitic	SUS304	SUS304J3	18Cr.8Ni	Below C0.08	No

Austenitic stainless steel is generally non-magnetic as above, but work hardening and processing-induced martensitic transformation (Two-tier organization that includes martensite by austenite transformation) occurs by cold heading or rolling process, increased permeability can be attracted to magnet. Magnetism is caused by drawing conditions, processing methods, degree of processing.