Preferred Parts

CLEVIS PINS
METRIC SERIES
(Superseded)

This standard has been superseded by CNH Standard Parts, STPJ530 (87366820), Clevis Pins - Metric - Preferred and Non-Preferred.

The controlled versions of CNH specifications and standards are published on the CNH Intranet site.

The documents are also available on the CNH electronic viewing system (e.g. eViewer). Suppliers are able to access these documents on CSCN (CNH Supplier Communications Network).

The superseded standard remains available for viewing following this page if needed.

CASE CORPORATION
RACINE, WI 53404 USA

Rev 1
Printed in USA

CLEVIS PINS
METRIC SERIES
(Superseded)
GENERAL SPECIFICATIONS

GENERAL: This standard conforms essentially with ISO 2341. These clevis pins are intended for use in conjunction with clevises, rod end eyes and other general applications. The inclusion of dimensional data in this standard is not intended to imply that all the products described are stock production sizes.

PREFERRED PARTS POLICY: Preferred parts are so designed to reduce variety of parts and assure maximum availability, interchangeability and cost savings.

Material: Steel, case hardened
Finish: Zinc Chromate (ZND), and Phosphate Coated (PHC)

Nominal Sizes and Length Incrementation:

Dimensions in millimetres

Nominal Length	Nominal Size						
	5	6	8	10	12	16	20
10	X						
12	X	X					
14	X	X					
16	X	X	X				
18	X	X	X				
20	X	X	X	X			
22	X	X	X	X			
24	X	X	X	X	X		
26	X	X	X	X	X		
28	X	X	X	X	X		
30	X	X	X	X	X		
32	X	X	X	X	X	X	
35	X	X	X	X	X	X	
40	X	X	X	X	X	X	X
45	X	X	X	X	X	X	X
50	X	X	X	X	X	X	X
55		X	X	X	X	X	X
60		X	X	X	X	X	X
65			X	X	X	X	X
70			X	X	X	X	X
75			X	X	X	X	X
80			X	X	X	X	X
85				X	X	X	X
90				X	X	X	X
95				X	X	X	X
100				X	X	X	X
120					X	X	X
140						X	X
160						X	X
180							X
200							X

Note: Lengths over 200 mm will be in 20 mm increments.

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HEADS: The top of head shall be flat and either chamfered or rounded at outer periphery.

BEARING SURFACE: The bearing surface of the head shall be flat and square with the axis of pin (determined over a distance from under the head equivalent to 1.5 times the basic pin diameter) within 2E.

ECCENTRICITY: The head of pin shall not be eccentric with axis of the shank of pin by an amount equal to more than 6% of the maximum head diameter or 0.25 mm whichever is greater. Eccentricity is defined as being one-half the full indicator movement (FIM).

HOLE ALIGNMENT AND ANGULARITY: The axis of hole thru shank shall not be offset from the axis of pin by more than 0.25 mm for the 5 and 6 nominal pin sizes, and shall be square with the axis of pin within 2E.

MATERIAL:

(CST) unhardened pins - Case MS 351, 1044.
(HTS) hardened pins - Case MS 352, 1015, 1018, 1020, 1117 except fully killed fine grained steel required.

HEAT TREAT: Carbinitride per Case Spec P-2, 0.05-0.15 mm total case depth, file hard per SAE J864 #58 file.

FINISHES: Pins shall be furnished plain, plated or coated in accordance with Case Engineering Materials Specification and class listed below.

Zinc with chromate	(ZND) - Case MS 201 Class 5A
Phosphate Coating	(PHC) - Case MS 91

WORKMANSHIP: Clevis pins shall be free from burrs, loose scale, sharp edges and all other defects affecting their serviceability.

LENGTH TOLERANCES:

Nominal Length (mm)	Tolerances (mm)
6 through 10	± 0.25
12 through 50	± 0.50
55 and over	± 0.75

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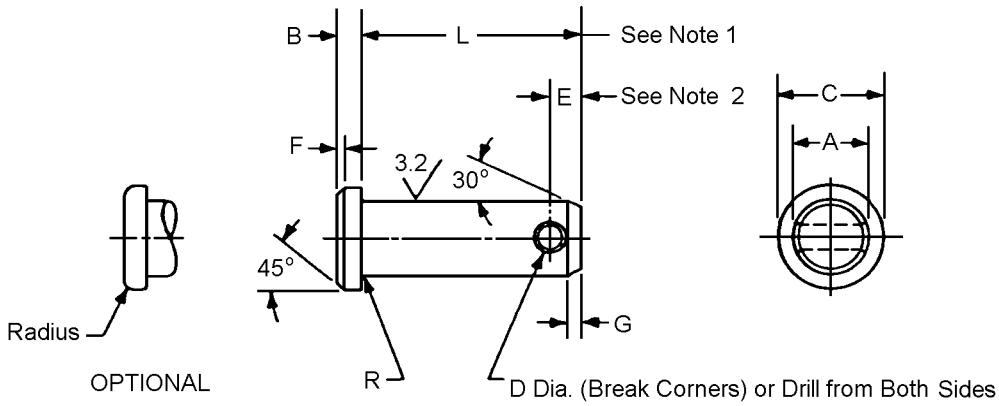

Nom. Size or Basic Pin Dia.	A		B		C		D		E	F	G	R
	Shank Diameter (h11)		Head Height		Head Diameter		Hole Diameter		End to Center	Head Chamfer	Point Length	Radius
	max.	min.	max.	min.	max.	min.	max.	min.	min.	max.	max.	max.
4	4.00	3.92	1.15	0.85	6.00	5.64	1.64	1.5	2.2	0.5	1	0.6
5	5.00	4.92	1.75	1.45	8.00	7.70	1.34	1.20	2.9	1	2	0.6
6	6.00	5.92	2.18	1.82	10.00	9.64	1.74	1.60	3.2	1	2	0.6
8	8.00	7.91	3.18	2.82	14.00	13.64	2.14	2.00	3.5	1	2	0.6
10	10.00	9.91	4.22	3.79	18.00	17.57	3.38	3.20	4.5	1	2	0.6
12	12.00	11.89	4.22	3.79	20.00	19.57	3.38	3.20	5.5	1.6	3	0.6
14	14.00	13.89	4.22	3.79	22.00	21.48	4.18	4.00	6	1.6	3	0.6
16	16.00	15.89	4.72	4.29	25.00	24.57	4.18	4.00	6	1.6	3	0.6
20	20.00	19.87	5.26	4.74	30.00	29.48	5.18	5.00	8	2	4	1
24	24.00	23.87	6.26	5.74	36.00	35.48	6.52	6.30	9	2	4	1
40	40.00	39.84	8.29	7.71	55.00	54.26	8.22	8.00	10	2	4	1

Notes:

1. See part number pages for tabulated lengths.

2. Basic "E" dimensions (distance from center line of hole to end of pin) is specified for calculating hole location from underside of head on pins of lengths not tabulated.