

1. GENERAL

Headed pins covered in this standard are cold headed, hot headed, or quenched and tempered. For clevis pins, see STPJ120.

2. RELATED DOCUMENTS

2.1 REFERENCE STANDARDS

MAT0310—Zinc Plating

STPA020—Fastener Finishes and Material Specifications

2.2 REPLACED STANDARDS

Case J-040—Headed Pins (General Specifications)

Case J-041—Headed Pins – Preferred

Case J-042—Headed Pins – Non-preferred

3. PREFERRED PARTS POLICY

All standard parts measured in inches are considered non-preferred.

4. CROSS REFERENCE

For cross reference listing of company part numbers, go to [CNH Catalogue](#).

5. MATERIAL AND FINISH

Material and finish shall conform to STPA020. Non heat treated and heat treated pins shall conform to the chemical composition, hardness, and heat treatment requirements for steel bolts per SAE J429, Grades 2 or 5. Pins shall be furnished plain (PLN) or zinc-plated (ZND) per STPA020.

6. HEAD

All sizes up to and including 5/8 inch in diameter or lengths less than 6 inches shall be cold headed. All other sizes of pins shall be either cold or hot headed.

7. HOLE

Holes drilled in the body of the pin must follow specifications listed in Table 1 and the head to hole minimum designated by each part number. The word "NONE" in the Head to Hole column indicates not drilled.

AUTHOR	APPROVED BY	ECO	PART NUMBER
A KHAN	21NOV23	A KHAN	21NOV23
		35379099	87366806

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Standard Part

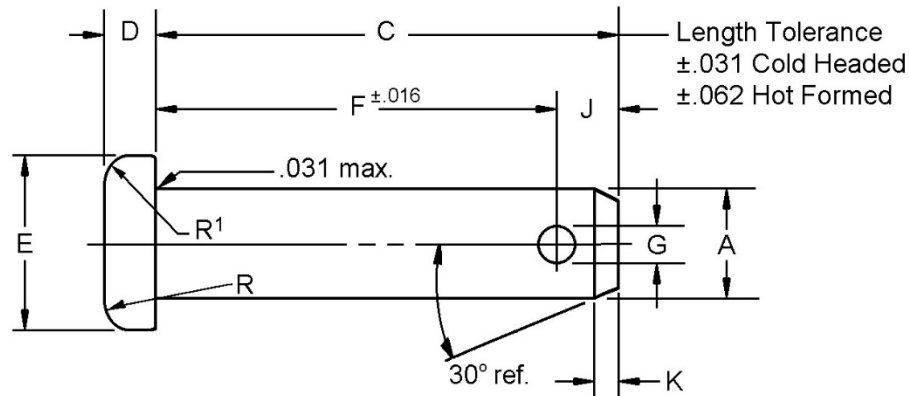
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Nominal Diameter		Body Diameter				Head Diameter ± .015	Head Height ± .015	Head Radius		Pin Hole		Point Length
		Cold Headed Up to 6" Long		Hot Formed Over 6" Long						Drill Size +.016/-.000		
		A		A		E	D	R	R¹	G	J	K
Max	Min	Max	Min	Nom	Nom	Nom	Nom	Nom	Reference	Max		
1/4	0.250	.250	.244	.250	.240	.375	.093	.790	.077	.141	.141	.06
5/16	0.312	.312	.305	.312	.302	.469	.117	.967	.089	.141	.141	.06
3/8	0.375	.375	.367	.375	.363	.562	.140	1.185	.101	.141	.141	.06
7/16	0.438	.437	.428	.437	.425	.656	.164	1.382	.113	.141	.141	.06
1/2	0.500	.500	.490	.500	.486	.750	.187	1.580	.125	.203	.203	.125
9/16	0.562	.562	.552	.562	.548	.844	.210	1.777	.136	.203	.203	.125
5/8	0.625	.625	.615	.625	.611	.938	.234	1.975	.148	.203	.203	.125
11/16	0.688			.687	.671	1.031	.258	2.172	.160	.203	.203	.125
3/4	0.750			.750	.734	1.125	.281	2.370	.172	.266	.266	.156
7/8	0.875			.875	.859	1.312	.328	2.765	.195	.266	.266	.156
1	1.000			1.000	.982	1.500	.375	3.160	.219	.266	.266	.156
1-1/4	1.250			1.250	1.232	1.875	.469	3.950	.265	.328	.390	.250



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Nominal Diameter	Length (C)	Head-to-hole (F)	Material	Finish	Part Number
1/4	1	0.859	Grade 2	ZND	84156999
1/4	1.25	1.109	Grade 5	ZND	86624076
1/4	1.50	1.359	Grade 2	ZND	86977868
1/4	1.75	1.609	Grade 2	ZND	86624075
1/4	1.85	1.734	Grade 2	ZND	86624059
1/4	2	1.859	Grade 2	ZND	86624077
1/4	2.25	2.109	Grade 5	ZND	86625109
5/16	.75	NONE	Grade 2	PLN	47695746
5/16	.812	.672	Grade 2	ZND	87573026
5/16	1.312	1.172	Grade 5	ZND	84299263
5/16	1.625	1.484	Grade 2	ZND	84218886
5/16	1.75	1.609	Grade 5	ZND	84256797
5/16	1.875	1.734	Grade 5	ZND	47922650
5/16	2	1.859	Grade 5	ZND	47922654
5/16	2.25	2.109	Grade 5	ZND	84302529
5/16	2.75	2.609	Grade 2	ZND	84157000
3/8	.75	0.609	Grade 2	ZND	86624060
3/8	1	0.859	Grade 2	PLN	87319480
3/8	1	0.859	Grade 5	ZND	84158479
3/8	1.25	1.109	Grade 2	ZND	86624079
3/8	1.5	1.359	Grade 2	PLN	87323138
3/8	1.5	1.359	Grade 2	ZND	84157001
3/8	2	1.860	Grade 5	DAC	90374434
3/8	2	1.860	Grade 5	DOR	87344036
3/8	2	1.860	Grade 5	ZND	86624080
3/8	2.25	2.109	Grade 2	ZND	86624081
3/8	2.5	2.359	Grade 2	ZND	86624082
3/8	3.25	3.109	Grade 5	ZND	86632570
3/8	3.5	3.359	Grade 2	ZND	87023160
7/16	3.5	3.297	Grade 5	ZND	48054373
1/2	0.875	0.672	Grade 2	ZND	87396379
1/2	1	0.797	Grade 2	ZND	84157002
1/2	1.5	1.297	Grade 2	ZND	86624070
1/2	1.5	1.297	Grade 2	DAC	90499680
1/2	1.75	1.547	Grade 5	ZND	84158480
1/2	2	1.797	Grade 2	ZND	84177559
1/2	2	1.797	Grade 5	ZND	47906512
1/2	2.125	1.922	Grade 2	ZND	84157003
1/2	2.25	2.047	Grade 5	ZND	47394329
1/2	2.375	2.172	Grade 5	ZND	84158481
1/2	2.5	2.297	Grade 2	ZND	84177558
1/2	2.5	2.297	Grade 5	ZND	86632571
1/2	2.75	2.547	Grade 5	ZND	86624072
1/2	3	2.797	Grade 5	ZND	86979987
1/2	3.25	3.087	Grade 2	ZND	87308174
1/2	3.5	3.297	Grade 2	ZND	86624062

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Nominal Diameter	Length (C)	Head-to-hole (F)	Material	Finish	Part Number
1/2	3.5	3.297	Grade 5	ZND	87349291
1/2	3.75	3.547	Grade 5	ZND	86624063
1/2	4	3.797	Grade 2	ZND	84539446
1/2	4.25	4.047	Grade 2	ZND	84499055
1/2	4.5	4.297	Grade 2	ZND	87036587
1/2	5	4.797	Grade 5	ZND	87019656
1/2	5.25	5.047	Grade 5	ZND	47836834
1/2	5.75	5.547	Grade 5	ZND	86624073
1/2	6.5	6.297	Grade 2	ZND	84421924
5/8	1.5	1.297	Grade 5	DAC	92196009
5/8	1.5	1.297	Grade 2	ZND	87495308
5/8	2.25	2.047	Grade 5	DAC	92196010
5/8	2.5	2.297	Grade 5	DAC	92196011
5/8	2.5	2.297	Grade 5	ZND	47820373
5/8	2.75	2.547	Grade 2	ZND	86624085
5/8	3	2.797	Grade 5	ZND	87024650
5/8	3.25	3.047	Grade 2	ZND	84292043
5/8	3.5	3.297	Grade 2	ZND	86624064
5/8	3.5	3.297	Grade 5	ZND	86624193
5/8	3.75	3.547	Grade 5	DAC	92196012
5/8	4.5	4.297	Grade 2	ZND	87024323
3/4	0.875	0.609	Grade 2	ZND	86624065
3/4	1.5	1.234	Grade 2	ZND	84553349
3/4	1.75	1.484	Grade 2	ZND	84553350
3/4	1.75	1.484	Grade 5	ZND	84157004
3/4	2.062	1.797	Grade 5	ZND	47638944
3/4	2.25	1.984	Grade 2	ZND	87016629
3/4	2.25	1.984	Grade 5	ZND	84157005
3/4	3	2.734	Grade 5	ZND	86624067
3/4	3.25	2.984	Grade 5	ZND	86624078
3/4	4	3.734	Grade 2	ZND	87493309
3/4	4	3.734	Grade 5	ZND	87477167
3/4	4.5	4.234	Grade 5	ZND	86632566
3/4	5	4.734	Grade 2	ZND	87698811
3/4	5	4.734	Grade 5	ZND	87477168
3/4	6	5.734	Grade 2	ZND	87493310
7/8	2	1.734	Grade 5	ZND	87358311
7/8	2.5	2.234	Grade 5	ZND	87361197
1	2.43	2.172	Grade 2	ZND	84156997
1	2.5	2.234	Grade 5	ZND	84256786
1	2.75	2.484	Grade 5	ZND	86632567
1	2.75	2.484	Grade 5	DAC	90499674
1	3	2.734	Grade 2	ZND	86624100
1	3	2.734	Grade 5	ZND	87023161
1	3.25	2.984	Grade 5	ZND	84569159
1	3.5	3.234	Grade 5	ZND	86632568



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1	3.75	3.484	Grade 5	ZND	87319527
1	4.25	3.986	Grade 2	ZND	86632563
1	4.5	4.234	Grade 5	ZND	86632569
1	5	4.734	Grade 5	ZND	84569158
1	6.40	6.125	Grade 5	ZND	51442657
1	6.625	6.35	Grade 2	ZND	84158483
1-1/4	3.25	2.86	Grade 5	ZND	84157007
1-1/4	3.800	3.410	Grade 5	ZND	87575682
1-1/4	4.5	4.11	Grade 2	ZND	84156998
1-1/4	4.800	4.410	Grade 5	ZND	87575681
1-1/4	5	4.61	Grade 5	ZND	84157008
1-1/4	5.5	5.11	Grade 5	ZND	84157009
1-1/4	6.25	5.86	Grade 5	ZND	84158482
1-1/4	7	6.610	Grade 5	ZND	87022088
1-1/4	8.750	8.346	Grade 5	ZND	87575683