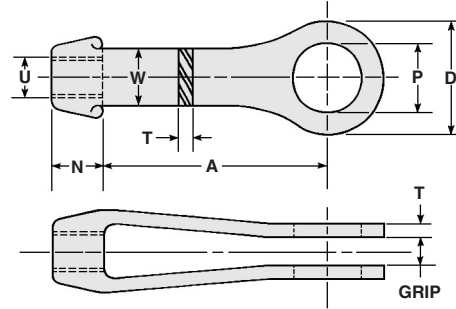




Clevises



Material: C-1035 and SA-182-F-11 in stock
 Threads: U.N.C. Class 2B, Right or Left Hand
 Finish: Self-Colored, Galvanized, Plated
 Options: Stainless Steel; Other Alloys;
 Special Threading

Maximum working loads have been established with a safety factor of 5:1 using the maximum pin diameter, the resulting net area of the eye at the pin hole, and the expected ultimate tensile strength of C-1035 steel.

The maximum tap size (U dimension) shown in Table I is for reference purposes only. It should be used **only** to determine the largest tap diameter the clevis can accommodate without considering the pin diameter. Use Table II to select the proper combination of tap size and pin diameter for any given size of clevis.

Clevis sizes in Table II for any given tap size and pin diameter combination are based upon the net area of the eye at the pin hole being equal to or greater than 125% of the net area at the minor diameter of a round rod without upset ends, threaded Unified National Coarse Series.

For any combination of tap size and pin diameter shown, the pin in double shear will develop the strength of the rod if both the rod and pin are made from steel having the same physical properties. The pin must be investigated for bending, however; and if inadequate, a larger diameter pin selected. Pins supplied with clevises by Cleveland City Forge are made from steel having a minimum ultimate tensile strength of 58,000 pounds per square inch, unless otherwise specified.

If the pin is made from steel with physical properties lower in value than the steel used for the rod, the pin may not develop the strength of the rod in either shear or bending; requiring a larger diameter pin.

Some combinations of tap size and pin diameter shown will not develop the maximum working load of the clevis shown in Table I.

Selection of the rod and pin, the material from which both are made, as well as the clevis size adequate to meet the required design load is the responsibility of the purchaser or user. Load imposed upon the clevis should not exceed the maximum working load values shown in Table I.

**TABLE I
STANDARD CLEVIS DIMENSIONS – Inches**

Clevis No.	D	N	U Max.	W	Tolerance	A	P Max.	Max. Working Load Kips	Wgt. Each Lbs.
2	1 7/16	5/8	5/8	1 1/16	5/16 + 1/32 - 0	3 9/16	3/4	3.5	1
2 1/2	2 1/2	1 1/8	7/8	1 1/4	5/16 + 1/32 - 0	4	1 1/2	7.5	2 1/2
3	3	1 1/4	1 3/8	1 1/2	1/2 + 1/16 - 1/32	5 1/16	1 3/4	15	4
3 1/2	3 1/2	1 1/2	1 3/4	2	1/2 + 1/16 - 1/16	6	2	18	6
4	4	1 3/4	2	2 1/8	1/2 + 1/16 - 1/16	5 15/16	2 1/4	21	8
5	5	2 1/4	2 1/8	2 1/2	5/8 + 3/32 - 0	7	2 1/2	37.5	16
6	6	2 3/4	2 1/2	3	3/4 + 3/32 - 0	8	3	54	26
7	7	3	3	3 1/2	7/8 + 1/8 - 1/16	9	3 3/4	68.5	36
8	8	4	4	4	1 1/2 + 1/8 - 1/16	10 1/8	4 1/4	135	90

**TABLE II
DIAMETER OF PIN – Inches**

DIAMETER OF TAP	1/2	5/8	3/4	7/8	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/4
	3/8	2	2															
1/2	2	2	2															
5/8	2	2	2	2 1/2	2 1/2	2 1/2	2 1/2											
3/4			2 1/2	2 1/2	2 1/2	2 1/2	2 1/2											
7/8				2 1/2	2 1/2	2 1/2	2 1/2	3										
1					3	3	3	3										
1 1/8					3	3	3	3	3 1/2									
1 1/4					3	3	3	3	3 1/2									
1 3/8						3	3	3 1/2	3 1/2	4								
1 1/2							3 1/2	3 1/2	4	4	5							
1 5/8						4	4	4	5	5	5							
1 3/4							4	5	5	5	5							
1 7/8								5	5	5	5							
2									5	5	5	5	5					
2 1/8										5	5	6	6	6				
2 1/4											6	6	6	6	6	7	7	
2 3/8												6	6	6	6	7	7	7
2 1/2													6	6	6	7	7	7
2 5/8														7	7	7	7	8
2 3/4															7	7	7	8
2 7/8																7	8	8
3																	8	8
3 1/8																		8
3 1/4																		8
3 3/8																		8
3 1/2																		8
3 5/8																		8
3 3/4																		8
3 7/8																		8
4																		8