# Clevis Dimensions

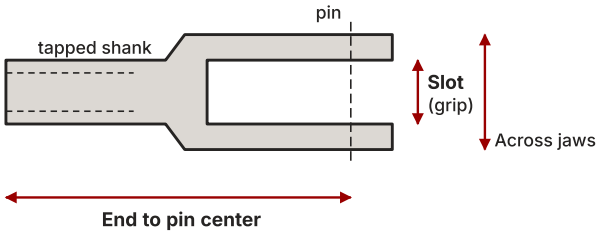
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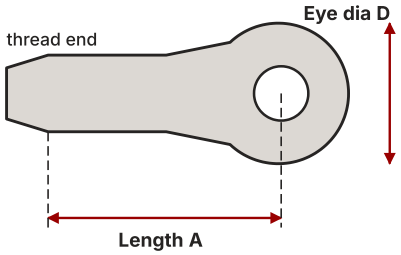
**Clevis sizes: adjustable clevis yokes (yoke ends) by tap thread, and structural drop-forged clevises by clevis number.**

A **clevis** is a U-shaped fork with a pin through its two jaws: it joins a rod to a bracket, lever or plate and lets the joint pivot. An **adjustable clevis yoke** (yoke end, rod-end clevis) is tapped on its shank: screw it onto a threaded rod and turn it to set the length, then lock it with a jam nut. It takes a clevis pin held by a cotter pin or clip. A **structural clevis** is a heavier drop-forged clevis for tie rods, sag rods and hanger rods, sized by clevis number; its thread, grip and pin hole are made to order within the number's limits.

Adjustable clevis yoke, from above




Structural clevis, side




The labels match the table columns. Not to scale.

## Adjustable clevis yokes — drop forged yoke ends by tap thread (inches)

| THREAD | PIN | SLOT (GRIP) | END TO PIN CENTER | ACROSS JAWS | SHANK | SHANK TO PIN | SHANK LENGTH | EYE |
|---|---|---|---|---|---|---|---|---|
| 1/4-20 | 1/4″ | 9/32″ | 2″ | 5/8″ | 7/16″ | 1-1/4″ | 3/4″ | 1/2″ |
| 1/4-28 | 1/4″ | 9/32″ | 2″ | 5/8″ | 7/16″ | 1-1/4″ | 3/4″ | 1/2″ |
| 5/16-18 | 5/16″ | 11/32″ | 2-1/4″ | 3/4″ | 1/2″ | 1-7/16″ | 13/16″ | 19/32″ |
| 5/16-24 | 5/16″ | 11/32″ | 2-1/4″ | 3/4″ | 1/2″ | 1-7/16″ | 13/16″ | 19/32″ |
| 5/16-24 LH | 5/16″ | 11/32″ | 2-1/4″ | 3/4″ | 1/2″ | 1-7/16″ | 13/16″ | 19/32″ |
| 3/8-16 | 3/8″ | 7/16″ | 2-1/2″ | 7/8″ | 5/8″ | 1-5/8″ | 7/8″ | 11/16″ |
| 3/8-24 | 3/8″ | 7/16″ | 2-1/2″ | 7/8″ | 5/8″ | 1-5/8″ | 7/8″ | 11/16″ |
| 3/8-24 LH | 3/8″ | 7/16″ | 2-1/2″ | 7/8″ | 5/8″ | 1-5/8″ | 7/8″ | 11/16″ |
| 7/16-20 | 7/16″ | 1/2″ | 2-7/8″ | 1″ | 23/32″ | 1-7/8″ | 1″ | 13/16″ |
| 1/2-13 | 1/2″ | 9/16″ | 3″ | 1-1/8″ | 13/16″ | 1-7/8″ | 1-1/8″ | 15/16″ |
| 1/2-20 | 1/2″ | 9/16″ | 3″ | 1-1/8″ | 13/16″ | 1-7/8″ | 1-1/8″ | 15/16″ |
| 1/2-20 LH | 1/2″ | 9/16″ | 3″ | 1-1/8″ | 13/16″ | 1-7/8″ | 1-1/8″ | 15/16″ |
| 5/8-11 | 5/8″ | 11/16″ | 4-15/16″ | 1-3/8″ | 1-1/16″ | 3-11/16″ | 1-1/4″ | 1-3/16″ |
| 5/8-11 LH | 5/8″ | 11/16″ | 4-15/16″ | 1-3/8″ | 1-1/16″ | 3-11/16″ | 1-1/4″ | 1-3/16″ |
| 5/8-18 | 5/8″ | 11/16″ | 4-15/16″ | 1-3/8″ | 1-1/16″ | 3-11/16″ | 1-1/4″ | 1-3/16″ |
| 3/4-10 | 3/4″ | — | — | 1-5/8″ | 1-1/4″ | 4-9/16″ | 1-1/2″ | 1-7/16″ |
| 3/4-10 LH | 3/4″ | — | — | 1-5/8″ | 1-1/4″ | 4-9/16″ | 1-1/2″ | 1-7/16″ |
| 3/4-16 | 3/4″ | — | — | 1-5/8″ | 1-1/4″ | 4-9/16″ | 1-1/2″ | 1-7/16″ |
| 3/4-16 LH | 3/4″ | — | — | 1-5/8″ | 1-1/4″ | 4-9/16″ | 1-1/2″ | 1-7/16″ |

Inches. From the Chicago Hardware (maker), Alma Bolt, AFT Fasteners and Kimball Midwest tables; printed where two or more list the size and all that list it agree. LH = left-hand thread. Pin = the clevis pin the yoke takes (its hole is drilled for that pin). A dash: our sources differ — give us a call.

## Structural clevises — drop forged, by clevis number (AISC standard clevis, inches)

| CLEVIS | MAX THREAD | MAX PIN | EYE DIA D | LENGTH A | THREAD END N | NECK W | JAW T |
|---|---|---|---|---|---|---|---|
| #2 | 5/8″ | 3/4″ | 1-7/16″ | 3-9/16″ | 5/8″ | 1-1/16″ | 5/16″ (+1/32, −0″) |
| #2 1/2 | — | 1-1/2″ | 2-1/2″ | 4″ | — | 1-1/4″ | 5/16″ (+1/32, −0″) |
| #3 | 1-3/8″ | 1-3/4″ | 3″ | 5-1/16″ | 1-1/4″ | 1-1/2″ | 1/2″ (+1/16, −1/32″) |
| #3 1/2 | 1-1/2″ | 2″ | 3-1/2″ | 6″ | 1-1/2″ | 1-3/4″ | 1/2″ (+1/16, −1/16″) |
| #4 | 1-3/4″ | 2-1/4″ | 4″ | 5-15/16″ | 1-3/4″ | 2″ | 1/2″ (+1/16, −1/16″) |
| #5 | — | 2-1/2″ | 5″ | 7″ | 2-1/4″ | 2-1/2″ | 5/8″ (+3/32, −0″) |
| #6 | 2-1/2″ | 3″ | 6″ | 8″ | 2-3/4″ | 3″ | 3/4″ (+3/32, −0″) |
| #7 | 3″ | 3-3/4″ | 7″ | 9″ | 3″ | 3-1/2″ | 7/8″ (+1/8, −1/16″) |
| #8 | 4″ | 4-1/4″ | 8″ | 10-1/8″ | 4″ | 4″ | 1-1/2″ (+1/8, −1/16″) |

Inches. From the Cleveland City Forge (maker), Portland Bolt (per the AISC Steel Construction Manual) and Alma Bolt tables; printed where all three agree. Max thread / max pin = the largest tap and pin that clevis number takes; the grip (slot) and pin hole are made to order within them. A dash: our sources differ — give us a call.

### Good to know

**Order a yoke by its thread, then match the pin.** Each yoke takes one pin size; the clevis pin and its cotter pin are on our Pin Dimensions page. Left-hand (LH) yokes pair with right-hand ones on a turnbuckle-style rod so the rod adjusts both ends at once.

**Working loads aren't on our chart.** Makers rate their clevises with different safety factors and materials. For a load-bearing joint, use the maker's rating for the exact part, and never use a pin smaller than the hole.

## Quick answers

**What size pin goes in a 3/8-24 clevis yoke?**

A 3/8-24 adjustable clevis yoke takes a **3/8″** clevis pin; its slot (grip) is **7/16″** and it is **2-1/2″** from the threaded end to the pin center.

**What are the dimensions of a 1/2-20 clevis yoke?**

A 1/2-20 yoke end: **1/2″** pin, **9/16″** slot, **1-1/8″** across the jaws.

**What is the grip of a clevis?**

The grip is the width of the slot between the clevis jaws — the thickest plate or rod end that fits in it. On an adjustable yoke it is fixed by the size; on a structural clevis it is made to order (Portland Bolt: plate thickness plus 1/4″ is usual).

**What is the largest rod and pin a #2 clevis takes?**

A #2 structural clevis takes up to a **5/8″** tapped thread and a **3/4″** pin; its eye is 1-7/16″ across.

**What is the difference between an adjustable clevis yoke and a structural clevis?**

An **adjustable clevis yoke** (yoke end) is a small forged clevis tapped for a control rod, sized by its thread. A **structural clevis** is a larger forged clevis for tie rods and hangers, sized by clevis number, with the thread, grip and pin hole made to order.

Reference values drawn from the governing standards. For critical applications, confirm against the standard and the manufacturer's published data. Technical information disclaimer →