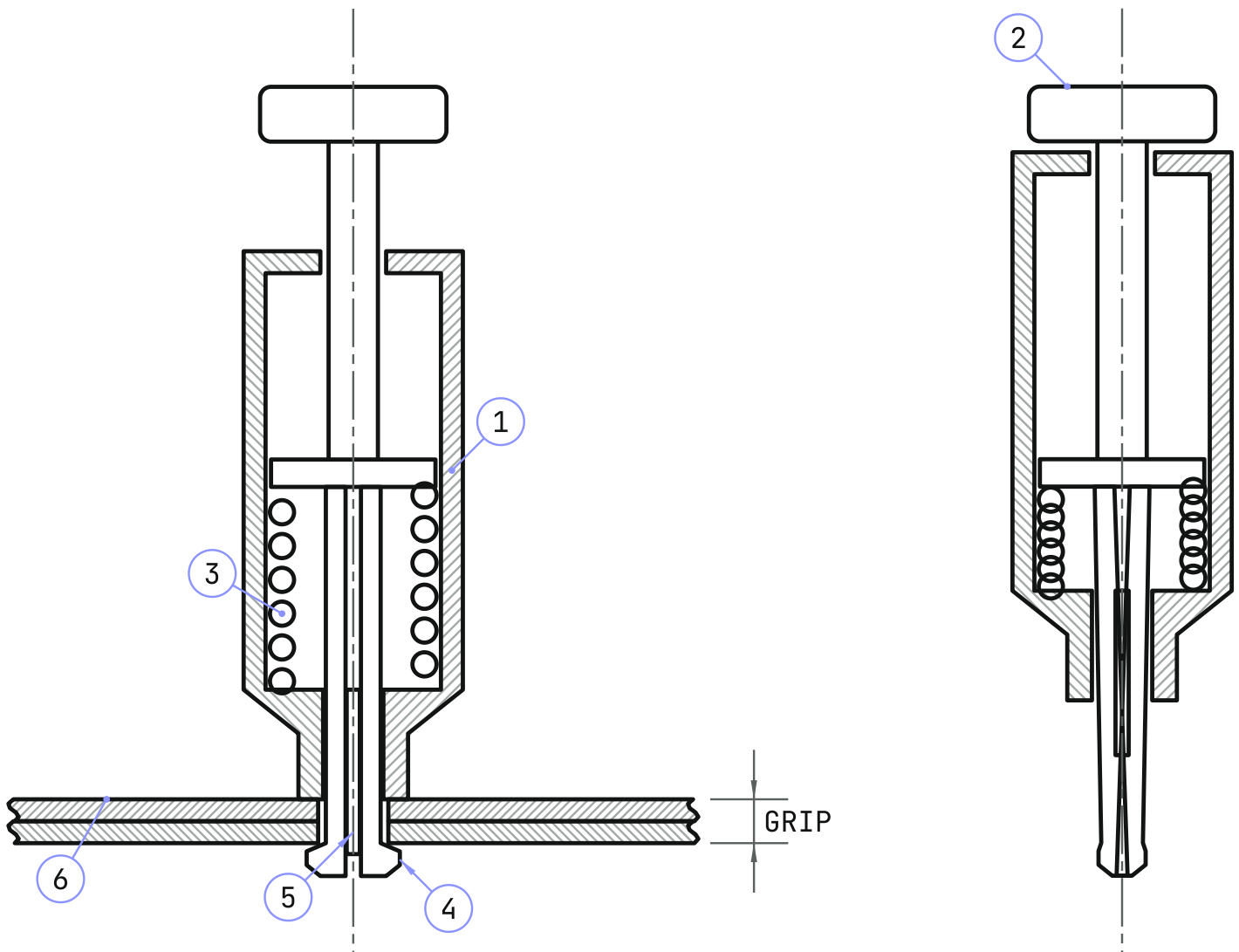
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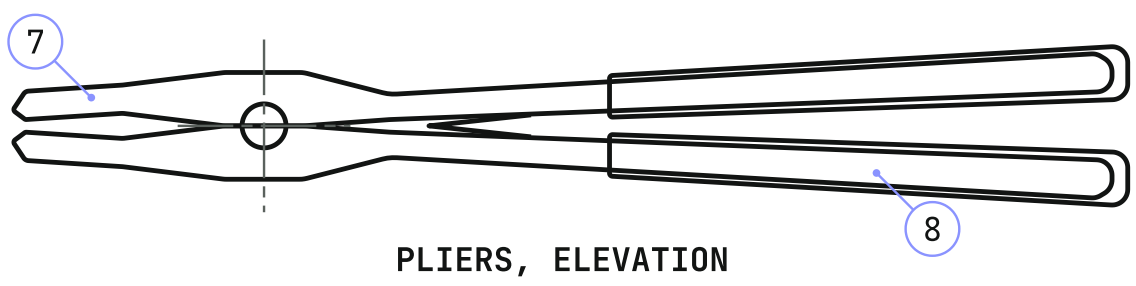
Temporary Sheet Fasteners: Sizes, Types and Pliers

A temporary sheet fastener holds drilled parts together, hole for hole, until the rivets go in.



INSTALLED, SECTION
SCALE 2:1

PLUNGER PRESSED
SCALE 2:1



PLIERS, ELEVATION
SCALE 1:2

COMMON COLOR CODE	
SIZE (DRILL)	**COLOR**
3/32 (#40)	SILVER
1/8 (#30)	COPPER
5/32 (#21)	BLACK
3/16 (#11)	BRASS
READ THE STAMPED SIZE	

NOTES

1. SIZE = RIVET DIAMETER, STAMPED ON THE BODY.
2. PRESS THE PLUNGER: THE LOCKS CLOSE AND PASS THE HOLE.
3. RELEASE: THE SPREADER OPENS THE LOCKS, THE SPRING PULLS THE SHEETS TOGETHER.
4. ONE PLIERS FITS ALL SPRING SIZES.
5. KEEP THE PLIERS SQUARE TO THE HOLE.

ITEM	DESCRIPTION
8	PLIERS, HANDLE
7	PLIERS, JAW
6	SHEET STACK (REF)
5	SPREADER
4	LOCK, STEPPED (2)
3	SPRING
2	PLUNGER
1	BODY

FASTENER, TEMPORARY SHEET, SPRING	
SHEET 1 OF 1	
DWG TAP-TG-024	REV A
SCALE 1:1	

Types and sizes

Type	Sizes	Use
Spring type	3/32 to 3/8 in, by rivet diameter; some lists add 1/16 in	Holds drilled sheets aligned, hole for hole, while you drill and rivet.
Spring type, long grip	The same diameters; grip range marked by the maker	Thick stacks past the grip of the standard body.
Hex nut type	By diameter and grip range	More clamp-up; turned with a hex nut runner or a wrench.
Wing nut type	By diameter and grip range	Clamp-up by hand, no tool.
Side-grip clamp	By jaw depth	Holds an edge or a flange where there is no hole.
Pliers	One pair for every spring size	Install and remove spring types and side-grip clamps.
Pneumatic installer	Air tool	The same job as the pliers, for jobs with large counts.

What to check when buying

Check	What to look for
Size	The rivet sizes of your work, with the size stamped on each body.
Grip	A grip range for the thickest stack you join.
Spring	Firm, so the sheets are pulled tight; even from one fastener to the next.
Locks	Straight steps that close fully when the plunger is pressed.
Finish	Corrosion-resistant body, plunger and locks.
Pliers	Tips that hold the body and press the plunger square, for every spring size; a latching jaw holds the plunger pressed.
Quantity	Enough of each size to fill the largest part you drill, plus spares.

Educational reference only, not approved data. Always consult the applicable SRM, AMM, or AC 43.13-1B and your certifying authority.

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Accessories

Item	What it is for
Storage rack or board	Fasteners kept by size and counted.
Side-grip clamps	Edges and flanges without a hole.
Hex nut runner	Turning hex nut types.
Deburring tool	Clean holes; a burr holds the sheets apart.
Spare springs and locks	Where the maker sells them, to rebuild worn fasteners.

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