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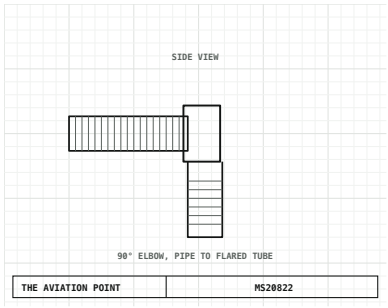


# MS20822 — 90° elbow, pipe to flared tube

Elbow, 90°, Pipe to 37° Flared Tube: dimensions by dash size and part numbers, as listed in a distributor catalogue.



MS20822




Engineering drawing · dimensions in inches

## Specification

| Item | Value |
|---|---|
| Type | Fitting, elbow 90°, pipe to flared tube |
| Status | Check the current issue of the standard before design use. |

## Dimensions by size

| Dimension, in | -2 | -3 | -4 | -4-4 | -5 | -5-4 | -6-2 | -6 | -6-6 | -6-8 | -8 | -10 | -10-12 | -12-8 | -12 | -12-16 | -16-12 | -16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T — Thread T (ref.) | .312-24 | .375-24 | .437-20 | .437-20 | .500-20 | .500-20 | .562-18 | .562-18 | .562-18 | .562-18 | .750-16 | .875-14 | .875-14 | 1.062-12 | 1.062-12 | 1.062-12 | 1.312-12 | 1.312-12 |
| OD — Tube O.D. | 1/8 | 3/16 | 1/4 | 1/4 | 5/16 | 5/16 | 3/8 | 3/8 | 3/8 | 3/8 | 1/2 | 5/8 | 5/8 | 3/4 | 3/4 | 3/4 | 1 | 1 |
| P — Pipe thread P (ANPT) | 1/8 | 1/8 | 1/8 | 1/4 | 1/8 | 1/4 | 1/8 | 1/4 | 3/8 | 1/2 | 3/8 | 1/2 | 3/4 | 1/2 | 3/4 | 1 | 3/4 | 1 |
| Q — Q (+.047/-.000) | .766 | .828 | .891 | 1.031 | .953 | 1.031 | 1.031 | 1.062 | 1.188 | 1.312 | 1.250 | 1.453 | 1.625 | 1.625 | 1.656 | 1.781 | 1.812 | 1.812 |
| S — S (+.047/-.000) | .719 | .719 | .781 | 1.062 | .781 | 1.062 | .875 | 1.094 | 1.188 | 1.438 | 1.219 | 1.469 | 1.562 | 1.562 | 1.594 | 1.938 | 1.719 | 1.969 |
| V — V | .312 | .375 | .438 | .562 | .500 | .562 | .562 | .562 | .750 | .875 | .750 | .875 | 1.062 | 1.062 | 1.062 | 1.312 | 1.312 | 1.312 |

Dimensions in inches as tabulated in the catalogue listing; the standard governs. Blank cells: not stated in the listing.

## Part numbers

**1/8** 1 part number

| Part no. | Tube O.D. | Pipe thread P |
|---|---|---|
| MS20822-2 | 1/8 | 1/8 |

**3/16** 1 part number

| Part no. | Tube O.D. | Pipe thread P |
|---|---|---|
| MS20822-3 | 3/16 | 1/8 |

**1/4** 2 part numbers

| Part no. | Tube O.D. | Pipe thread P |
|---|---|---|
| MS20822-4 | 1/4 | 1/8 |
| MS20822-4-4 | 1/4 | 1/4 |

**5/16** 2 part numbers

| Part no. | Tube O.D. | Pipe thread P |
|---|---|---|
| MS20822-5 | 5/16 | 1/8 |
| MS20822-5-4 | 5/16 | 1/4 |

**3/8** 4 part numbers

| Part no. | Tube O.D. | Pipe thread P |
|---|---|---|
| MS20822-6-2 | 3/8 | 1/8 |
| MS20822-6 | 3/8 | 1/4 |
| MS20822-6-6 | 3/8 | 3/8 |
| MS20822-6-8 | 3/8 | 1/2 |

**1/2** 1 part number

| Part no. | Tube O.D. | Pipe thread P |
|---|---|---|
| MS20822-8 | 1/2 | 3/8 |

**5/8** 2 part numbers

| Part no. | Tube O.D. | Pipe thread P |
|---|---|---|
| MS20822-10 | 5/8 | 1/2 |
| MS20822-10-12 | 5/8 | 3/4 |

**3/4** 3 part numbers

| Part no. | Tube O.D. | Pipe thread P |
|---|---|---|
| MS20822-12-8 | 3/4 | 1/2 |
| MS20822-12 | 3/4 | 3/4 |
| MS20822-12-16 | 3/4 | 1 |

**1** 2 part numbers

| Part no. | Tube O.D. | Pipe thread P |
|---|---|---|
| MS20822-16-12 | 1 | 3/4 |
| MS20822-16 | 1 | 1 |

## How to read the part number

| Part | Meaning |
|---|---|
| Format | MS20822-<dash><material> |
| D | Material: Aluminum |
| (none) | Material: Steel |
| J | Material: Corrosion resistant steel |
| Example | MS20822-4 — Steel, 1/4 in tube, 1/8 pipe thread |

## Notes

- Dash number: tube size alone, or tube size then pipe size in sixteenths where it differs.
- Cells printed once across several rows in the listing are repeated on each row they span.
- Q and S carry the printed tolerance +.047/-.000.
- Q, S and V cells printed across several rows were assigned by the dash logic and the cell positions in the image; To confirm: Q for -5-4/-6-2 (1.031) and S/V for -6-2.

**SOURCES** · MS20822 — Elbow, 90°, Pipe to 37° Flared Tube

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/fittings/ms20822/



Reference data. The aircraft manufacturer's documentation (SRM / IPC) takes precedence.

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