

NOT A PART NUMBER

A schematic diagram of a bent pipe. The pipe has a vertical section on the left and a horizontal section on the right, connected by a 90-degree elbow. The angle between the vertical section and the horizontal section is labeled α° . A vertical dimension line on the left indicates the height from the base of the horizontal section to the top of the vertical section.

A technical drawing of a stepped shaft. The shaft has a total length of 100 units. It features a step where the diameter changes from 1.5 units to 1.0 unit. The length of the 1.5 unit diameter section is 40 units, and the length of the 1.0 unit diameter section is 60 units. The drawing includes dimension lines and arrows indicating these measurements.

- ## L SYMMETRICAL SECTIONS

M GENERAL NOTES ON DRAWING

CORNER AND FILLET RADII MAY BE SPECIFIED IN THE FORM OF A GENERAL NOTE ON THE DRAWING.

N REFERENCE DIMENSIONS

- 1 THE TERM "REFERENCE" (REF) IS USED TO RECORD A USEFUL MEAN DIMENSION APPROXIMATE IN THE SENSE THAT WITHOUT THE SUFFIX
IT MIGHT CONFLICT WITH ACCUMULATED TOLERANCES. IT DOES NOT CARRY A TOLERANCE AND IT IS NOT A WORKING DIMENSION.
- 2 REFERENCE DIMENSIONS SHALL BE SHOWN ON EXTENDED SECTION DRAWINGS ONLY WHEN REQUIRED FOR CLARIFICATION. IN NO CASE
SHALL A WORKING DIMENSION BE LABELED AS "REFERENCE" BECAUSE OF DIFFICULTY IN INSPECTION WITH ORDINARY GAGING EQUIPMENT.

0 MATING SECTIONS

WHEN EXTRUSIONS ARE DESIGNED AND DIMENSIONED TO MATE WITH OTHERS, THE MANNER OF ASSEMBLY SHOULD BE SHOWN IN PHANTOM. WHENEVER PRACTICAL THE DIMENSIONS THAT CONTROL THE ASSEMBLY SHOULD BE SPECIFIED.

NOTES

- 1 STANDARD INSPECTION EQUIPMENT CONSISTS OF:

- | | | | |
|---|--------------------|----|------------------|
| 1 | OUTSIDE MICROMETER | 6 | PROTRACTOR |
| 2 | INSIDE MICROMETER | 7 | OUTSIDE CALIPERS |
| 3 | DEPTH GAGE | 8 | INSIDE CALIPERS |
| 4 | FLATNESS GAGE | 9 | RADIUS GAGE |
| 5 | SQUARE | 10 | PLUG GAGE |

- 2 SPECIAL INSPECTION EQUIPMENT CONSISTS OF ANY TOOL CONSTRUCTED TO SPECIFICALLY INSPECT A PORTION OF A PARTICULAR EXTRUSION. EXAMPLES:

- 1 MAXIMUM AND MINIMUM TEMPLATES.
2 GO AND NO-GO GAGES.

- 3 THE EXTRUSION PURCHASER'S DRAWINGS SHALL BE THE ONLY AUTHORITY FOR ACCEPTANCE OF EXTRUSIONS IN THE PURCHASER'S PLANT. CHANGES MAY BE NEGOTIATED BETWEEN THE EXTRUSION PRODUCER AND THE PURCHASER ON THE PURCHASER'S DRAWING OR MARKED-UP PHOTOSTATIC PRINTS OF IT.

NOTE: This drawing was approved by joint action of the Air Force and Navy Departments as the Air Force-Navy standard for this product. This drawing supersedes all antecedent standard drawings for the same product and shall become effective for the procurement of conventional supplies, or for use in new designs, not later than 6 months after the latest date of approval above.

APPROVED 18 Oct 50 REVISED (A) FOR CHANGES SEE SHEET 1

AIR FORCE-NAVY AERONAUTICAL DESIGN STANDARD

STANDARD DIMENSIONING SYSTEM FOR EXTRUDED SECTIONS

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