

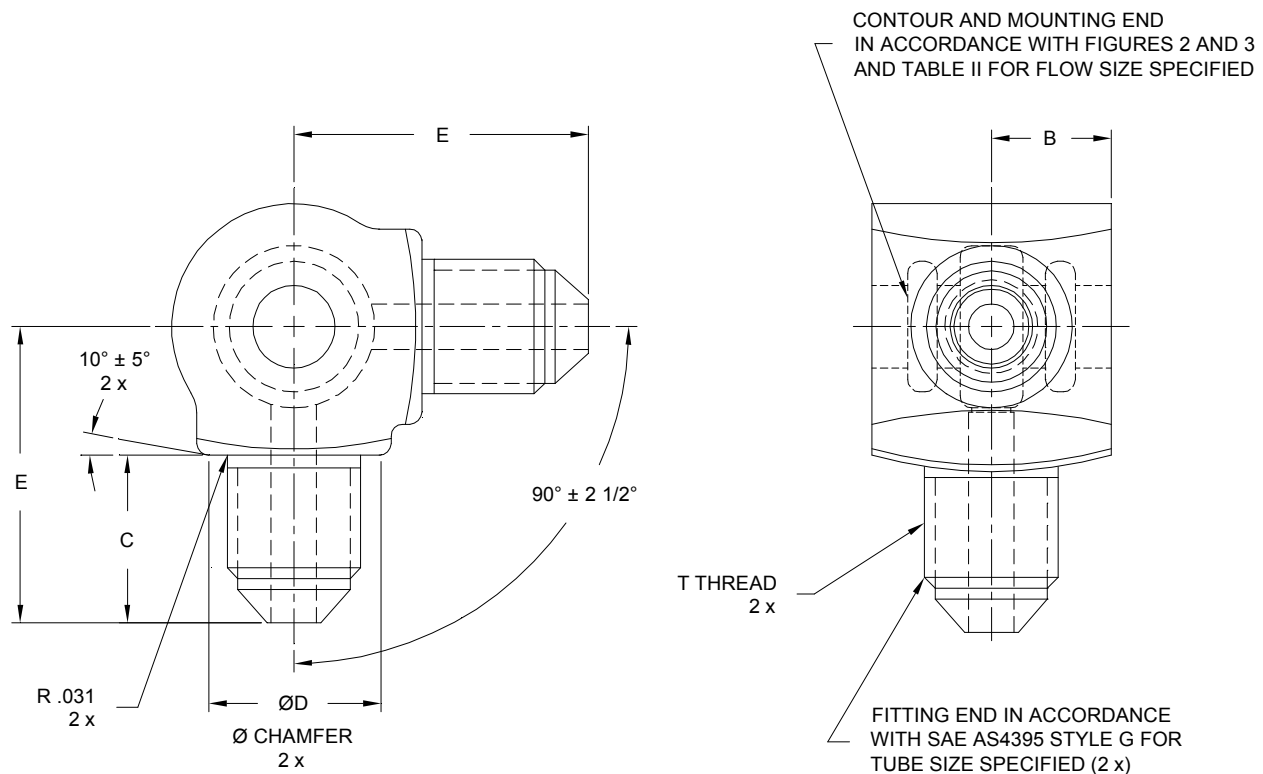
INCH-POUND

MS21954B
 15 June 2000
 SUPERSEDING
 MS21954A
 16 May 1975

DETAIL SPECIFICATION SHEET

BODY, CLUSTER FITTING, TWO-WAY, 90°, FLARE

This specification is approved for use by all Departments and Agencies
 of the Department of Defense .

FIGURE 1. Body, cluster fitting.

1 of 6

AMSC N/A

FSC 4730

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

MS21954B

TABLE IA. Dimensions for low flow sizes.

| Low Flow Size | | Tube OD | Thread T SAE AS8879 | B | C | D | E |
|------------------|--------------------------|------------|------------------------|------|------|------|-------|
| Al Alloy 7075 | Al Alloy 1/ 2014/2024 | | | | | | |
| W3L | -3L | .187 | .375-24UNJF-3A | .500 | .540 | .710 | 1.109 |
| W4L | -4L | .250 | .4375-20UNJF-3A | .500 | .625 | .710 | 1.187 |
| W5L | -5L | .312 | .500-20UNJF-3A | .500 | .625 | .710 | 1.187 |
| W6L | -6L | .375 | .5625-18UNJF-3A | .500 | .640 | .710 | 1.203 |

1/ Aluminum alloy 2014 and 2024 parts are cancelled. Use Aluminum alloy 7075 parts for new design.
Cancelled parts may be used till stock is exhausted.

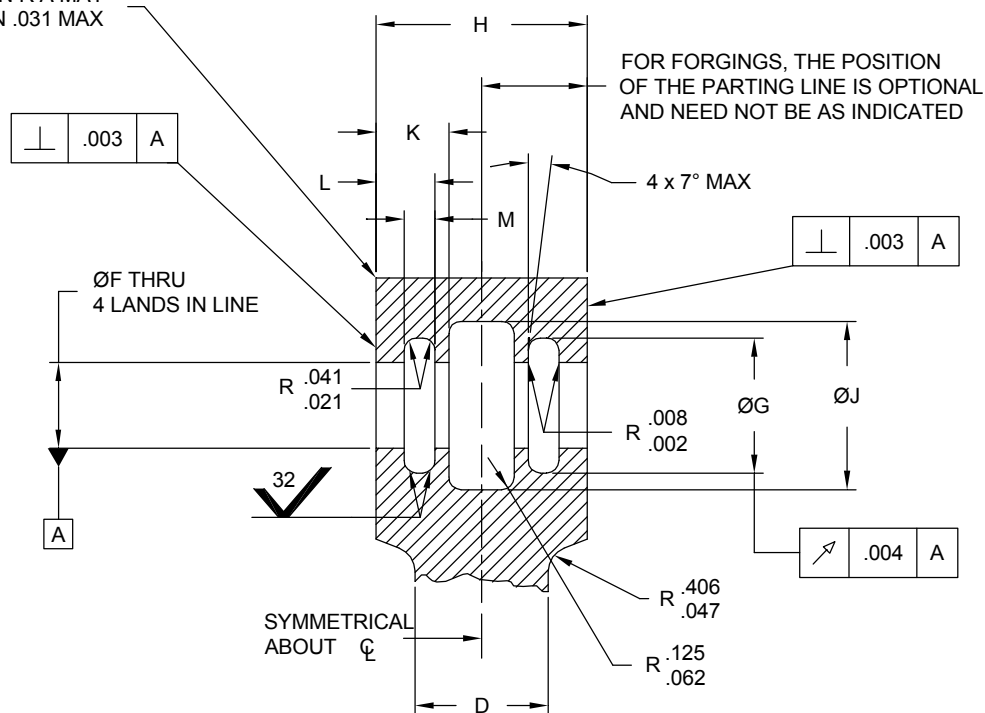
TABLE IB. Dimensions for high flow sizes.

| High Flow Size | | Tube OD | Thread T SAE AS8879 | B | C | D | E |
|------------------|--------------------------|------------|------------------------|------|------|------|-------|
| Al Alloy 7075 | Al Alloy 1/ 2014/2024 | | | | | | |
| W4H | -4H | .250 | .4375-20UNJF-3A | .594 | .625 | .710 | 1.438 |
| W5H | -5H | .312 | .500-20UNJF-3A | .594 | .625 | .710 | 1.438 |
| W6H | -6H | .375 | .5625-18UNJF-3A | .594 | .648 | .710 | 1.460 |
| W8H | -8H | .500 | .750-16UNJF-3A | .594 | .750 | .750 | 1.562 |

1/ Aluminum alloy 2014 and 2024 parts are cancelled. Use Aluminum alloy 7075 parts for new design.
Cancelled parts may be used till stock is exhausted.

MS21954B

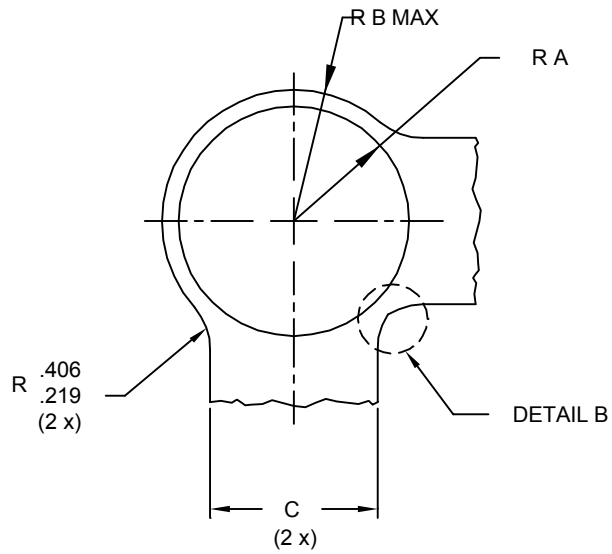
CORNER ON R A MAY
BE BROKEN .031 MAX



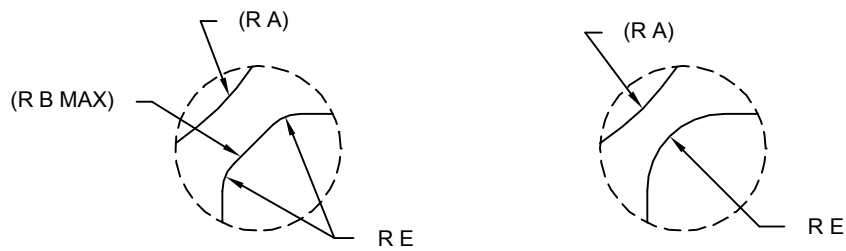
MOUNTING END DIMENSIONS

FIGURE 2. Mounting end.

MS21954B



CONTOUR DIMENSIONS EXTERNAL



DETAIL B ENLARGED

DETAIL B SHOWS SINGLE OR DOUBLE FILLET,
WHICHEVER IS APPLICABLE TO TABLE II, FOOTNOTE 3/
FOR ALL FILLETS BETWEEN LEGS.

FIGURE 3. External contour.

MS21954B

TABLE II. Dimensions for contour and mounting end.

| Type Fitting | A ± .031 | B Max 1/ | C Max 2/ | D Max 2/ | E ± .031 3/ | F ± .0005 | G ± .004 | H ± .005 | J ± .010 | K ± .010 | L ± .004 | M ± .005 |
|--------------|-------------|----------------|----------------|----------------|-------------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Low Flow | .562 | .636 | .844 | .995 | .125 | .5000 | .664 | 1.000 | .797 | .312 | .249 | .143 |
| High Flow | .812 | .909 | .844 | 1.188 | .375 | .8125 | 1.045 | 1.188 | 1.078 | .375 | .283 | .175 |

1/ B radius is the max envelope dimension for forging draft, flash, and other projections on A radius.

2/ Dimensions C and D represent the max envelope which shall be large enough to meet final part dimensions.

3/ Fillet radius E between legs shall not intersect A radius.

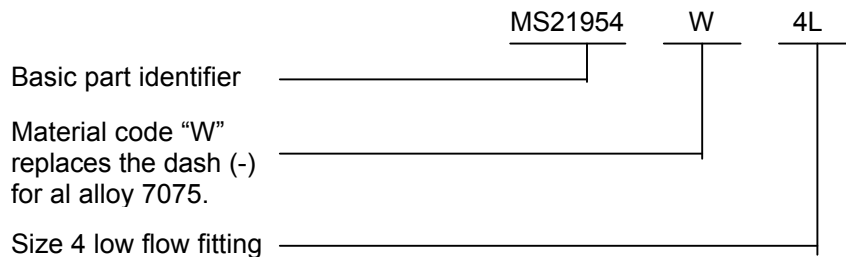
REQUIREMENTS:

1. The requirements for acquiring the product described herein shall consist of this specification sheet and SAE AS4875/1.
2. Material: Aluminum alloy 7075-T73 per AMS-QQ-A-225/9. Aluminum alloy forging, 7075-T73 per AMS-QQ-A-367.
3. Finish: See acquisition standard SAE AS4875/1. Aluminum alloy 7075 fittings shall be dyed brown.
4. All machined surfaces shall be finished to 250 μ in R_a , unless otherwise specified. Surface finish shall be in accordance with ASME B46.1.
5. Fittings shall be free of all burrs and slivers.

NOTES:

1. Dimensions in inches. Unless otherwise specified, tolerances: decimals $\pm .010$, angles $\pm 1/2^\circ$.
2. Dimensioning and tolerancing per ASME Y14.5.
3. Part Identification number (PIN)

Example of PIN: MS21954W4L



MS21954B

Custodians:
Air Force - 99
Navy - AS
DLA - CC

Preparing activity:
DLA - CC

(Project 4730-0818)

Review activities:
Air Force - 82
Navy - SA