



| LOW FLOW SIZE MS PART NUMBER | TUBE O.D. | THREAD S (REF) | THREAD T (REF) | A (REF.) | B | C ± .002 | D + .000 - .015 | E ± .002 | F ± .003 | H MAX |
|---------------------------------|--------------|-------------------|-------------------|-------------|-------|-------------|-----------------------|-------------|-------------|---------------|
| MS 21951 - 3L | 3/16 | 3/8-24 UNF-3A | 7/16-20 UNF-3A | 2.551 | 2.322 | ----- | .621 | 2.625 | .125 | .621 1.628 |
| MS 21951 - 4L | 1/4 | 7/16-20 UNF-3A | 7/16-20 UNF-3A | 2.521 | 2.425 | ----- | .684 | 2.750 | .172 | .684 1.691 |
| MS 21951 - 5L | 5/16 | 1/2-20 UNF-3A | 7/16-20 UNF-3A | 2.521 | 2.487 | .750 | .744 | 2.812 | .203 | .746 1.753 |
| MS 21951 - 6L | 3/8 | 9/16-18 UNF-3A | 7/16-20 UNF-3A | 2.521 | 2.524 | .750 | .871 | 2.812 | .203 | .871 1.878 |
| MS 21951 - 8L | 1/2 | 3/4-13 UNF-3A | 7/16-20 UNF-3A | 2.521 | 2.625 | .750 | .996 | 2.875 | .203 | .996 1.003 |

| HIGH FLOW SIZE MS PART NUMBER | TUBE O.D. | THREAD S (REF) | THREAD T (REF) | A (REF.) | B | C ± .002 | D + .000 - .015 | E ± .002 | F ± .003 | H MAX |
|----------------------------------|--------------|-------------------|-------------------|-------------|-------|-------------|-----------------------|-------------|-------------|----------------|
| MS 21951 - 6H | 3/8 | 9/16-18 UNF-3A | 9/16-18 UNF-3A | 2.960 | 2.962 | ----- | .871 | 3.187 | .397 | .871 1.878 |
| MS 21951 - 8H | 1/2 | 3/4-13 UNF-3A | 9/16-18 UNF-3A | 2.960 | 4.063 | ----- | .996 | 3.312 | .391 | .996 1.003 |
| MS 21951 - 10H | 5/8 | 7/8-14 UNF-3A | 9/16-18 UNF-3A | 2.960 | 4.166 | .937 | 1.121 | 3.375 | .422 | 1.121 1.128 |

MATERIAL: ALUMINUM ALLOY BAR 268 SPECIFICATION QQ-A-268 TEMPER T6 OR TEMPER T4 ARTIFICIALLY AGED.
FINISH: SEE PROCUREMENT SPECIFICATION.
 ALL OUTSIDE MACHINED SURFACES 125 MICROINCHES R.M.S. MAX. ALL INSIDE 250 MAX. UNLESS OTHERWISE NOTED.
 FITTINGS SHALL BE FREE FROM ALL HANGING BURRS AND SLIVERS WHICH MIGHT BECOME DISLOOED UNDER USAGE.
 DIMENSIONS IN INCHES: UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS ± .010; ANGLES ± 1/2°.
 INSTALL PER MS 21931

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CUSTODIANS
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MILITARY STANDARD

PROCUREMENT SPECIFICATION
MIL-P-6509

BOLT-CLUSTER FITTING DOUBLE PORT-FLARE

MS 21951 (AER)

SHEET 1 OF 1

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APPROVED 15 FEB 1956 REVISED