

INCH-POUND

MS27388C

24 September 2003

SUPERSEDING

MS27388B

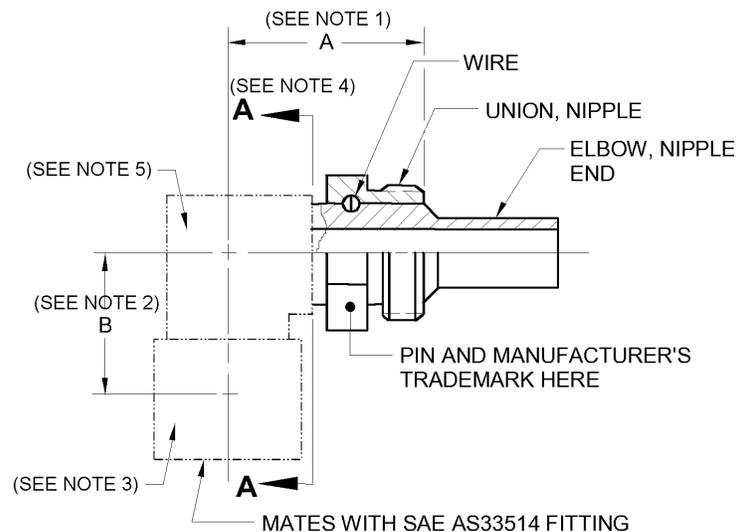
30 June 1972

DETAIL SPECIFICATION SHEET

ELBOW SUBASSEMBLY, FLARELESS, 90°, SWIVEL NUT

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

The requirements for acquiring the product described herein shall consist of this specification and MIL-DTL-27272.



NOTES:

1. Dimension A is measured between the hose end of the threaded section of the union and the centerline of the insert.
2. Dimension B is measured between the centerline of the elbow and the free end of the insert at its centerline.
3. If required, lockwire holes to be drilled in accordance with SAE AS1043 and suffix L added to the Part or Identifying Number (PIN) (e.g., MS27388-10CL).
4. Any bent tube design of adapter components to the left of plane A-A is acceptable provided the dimensions A and B and the requirements of this specification sheet and the procurement specification are met.
5. The inside diameter (ID) of the elbow shall not be less than the ID of the nipple. Ovality shall not exceed 7.5 percent of the nominal tubing outside diameter. The minimum wall thickness at the elbow bend shall not be less than .034 inch for the -10 through -20 sizes, and .044 inch for the -24 size.

FIGURE 1. Elbow subassembly illustration.

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REQUIREMENTS

Intended use. This part is a component of MS27383.

Identification of product. The PIN and the manufacturer's trademark shall be permanently marked on the part. The PIN for this subassembly shall be as specified in table I (e.g., MS27388-10C).

Dimensions. Dimensions are in inches.

Material. PIN suffix C, corrosion-resistant steel.

PIN suffix D. Aluminum alloy.

No PIN suffix. Combination of aluminum alloy and corrosion-resistant steel.

See applicable specification sheet for other components identified in table I for their material requirements.

Finish. Corrosion-resistant steel, do not passivate.

Aluminum alloy. Anodize in accordance with MIL-A-8625, type II, dye yellow.

Order of precedence. This specification takes precedence over the documents referenced herein. Unless otherwise specified, referenced documents shall be of the issue in effect on the date of solicitation.

Elbow subassembly illustration. See figure 1.

TABLE I. Elbow subassembly composition.

PIN ^{1/}	Wire PIN	Union, nipple PIN	Elbow, nipple end PIN	A ^{2/} ±.035	B ^{3/} ±.035
MS27388	MS27072	MS27071	MS27394		
-10C	-10C	-10C	-10C	1.315	1.392
-10		-10D	-10D		
-12C	-12C	-12C	-12C	1.808	1.626
-12		-12D	-12D		
-16C	-16C	-16C	-16C	1.901	1.776
-16		-16D	-16D		
-20C	-20C	-20C	-20C	2.180	2.056
-20		-20D	-20D		
-24C	-24C	-24C	-24C	2.500	2.438
-24		-24D	-24D		

^{1/} If required, lockwire holes to be drilled in accordance with SAE AS1043 and suffix L added to the PIN (e.g., MS27388-10CL).

^{2/} A is measured between the hose end of the threaded section of the union and the centerline of the insert.

^{3/} B is measured between the centerline of the elbow and the free end of the insert at its centerline.

Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue, due to the extent of the changes.

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CONCLUDING MATERIAL

Custodians:

Army - AV
Navy - AS
Air Force - 99
DLA - CC

Preparing activity:

DLA - CC

(Project 4730-0868-067)

Review activities:

Army - AT, MI
Navy - MC, SA, SH
Air Force -71