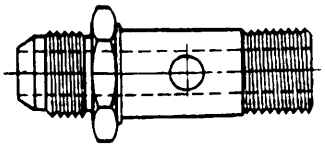
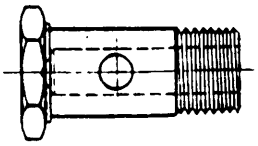
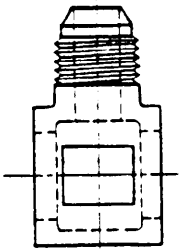


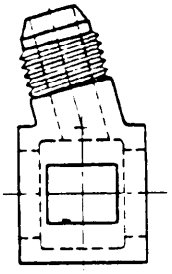
AN774 BOLT -
FLARED TUBE FITTING END UNIVERSAL
(3) (MS 24387)



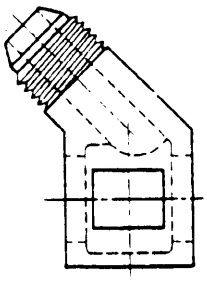
AN775 BOLT -
UNIVERSAL FITTING



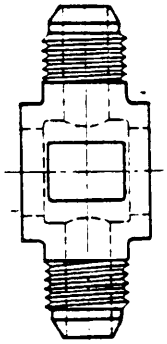
AN776 ELBOW -
UNIVERSAL 90°



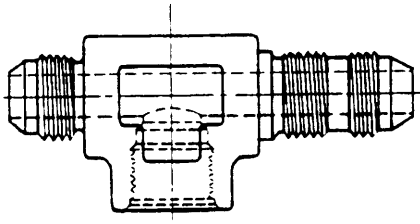
AN777 ELBOW -
UNIVERSAL 75°



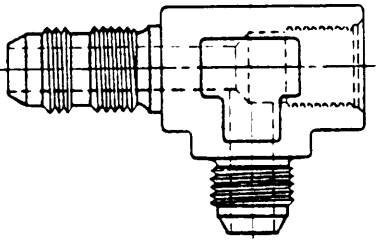
AN778 ELBOW -
UNIVERSAL 45°



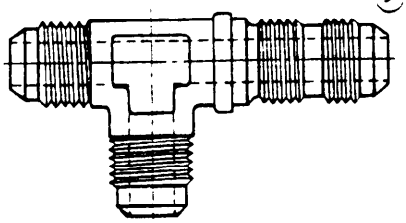
AN779 TEE -
UNIVERSAL FITTING



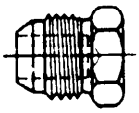
AN783 TEE-FLARED TUBE,
INTERNAL THREAD ON SIDE
(3) (MS24388)



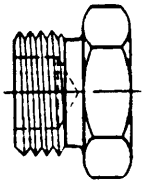
AN784 TEE-FLARED TUBE,
INTERNAL THREAD ON RUN
(MS24389) (3)



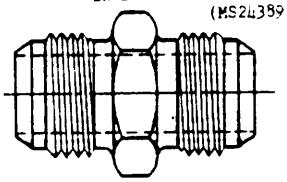
AN804 TEE-FLARED TUBE
WITH BULKHEAD ON RUN
(3) (MS24390)



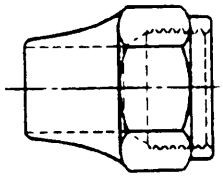
AN806 PLUG -
FLARED TUBE
(3) (MS24404)



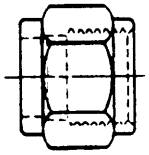
AN814 PLUG AND
BLEEDER-SCREW
THREAD
(3) (MS24391)



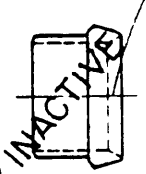
AN815 UNION -
FLARED TUBE
(2) (MS24392)



AN817 NUT -
SLEEVE COUPLING

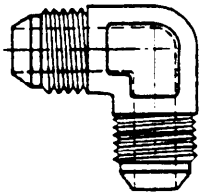


AN818 NUT -
COUPLING

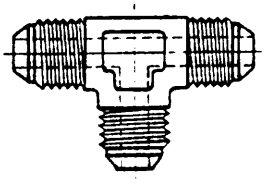


(e)

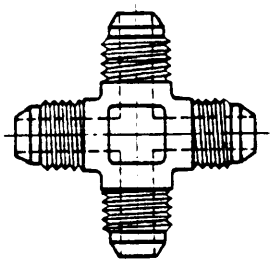
AN819 SLEEVE -
COUPLING
(3) (MS20819)



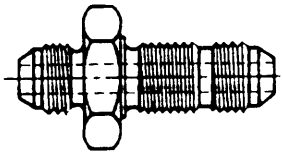
AN821 ELBOW -
FLARED TUBE 90°
(3) (MS24401)



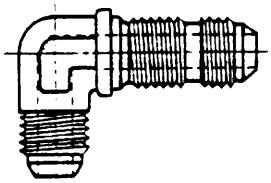
AN824 TEE -
FLARED TUBE
(3) (MS24402)



AN827 CROSS -
FLARED TUBE
(3) (MS24403)



AN832 UNION -
FLARED TUBE
BULKHEAD AND UNIVERSAL
(3) (MS24393)



AN833 ELBOW -
FLARED TUBE AND BULK-
HEAD UNIVERSAL 90°
(3) (MS24394)

(3)

(e) INACTIVE FOR DESIGN AFTER 26 AUG 57. USE MS20819.
STRAIGHT THREADED FITTINGS-FLARED TUBE TYPE. SEE SHEET 3 FOR PIPE THREADED FITTINGS, AND SHEET 4 FOR HOSE CLAMP TYPE FITTINGS.
MS STANDARDS SHOWN IN PARENTHESIS ARE PRECISION TYPE FITTINGS. (3) FOR CHANGES SEE SHEETS 2, 3, AND 4.

APPROVED 22 Dec 42 REVISED (1) 22 Dec 48 (2) 22 JUN 54 (3) 9 Jan 64

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 aeronautical supplies, or for use in new designs, not later than 6 months after the latest date of approval shown.

NOTICE: When Government drawings, specifications, or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the United States Government thereby incurs no responsibility, nor any obligation whatsoever; and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.

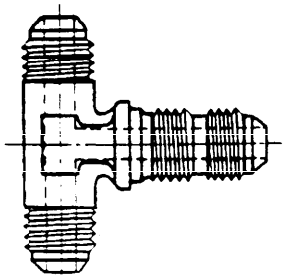
AIR FORCE-NAVY AERONAUTICAL DESIGN STANDARD

FITTINGS-STYLES OF PIPE THREADED, FLARED TUBE AND HOSE

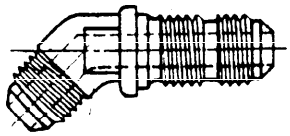
AND10059

SHEET 1 OF 4

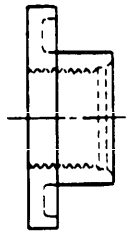
NOT A PART NUMBER



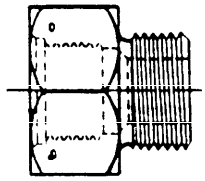
AN834 TEE - BULKHEAD AND UNIVERSAL FLARED TUBE (3) (MS24395)



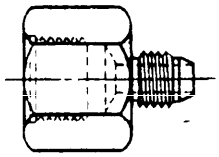
AN837 ELBOW - FLARED TUBE AND UNIVERSAL, 45° (3) (MS24396)



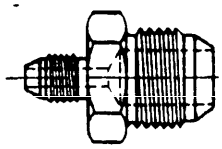
AN871 FLANGE - STRAIGHT THREAD BOSS WELDING



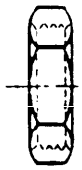
AN893 BUSHING - SCREW THREAD REDUCER (3) (MS24397)



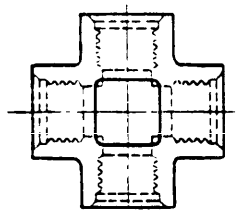
AN894 BUSHING - SCREW THREAD EXPANDER (3) (MS24398)



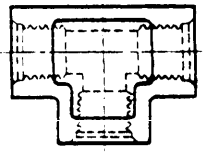
AN919 REDUCER - EXTERNAL THREAD FLARED TUBE (3) (MS24399)



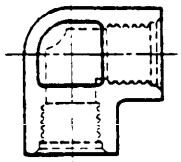
AN924 NUT - FLARED TUBE, BULKHEAD AND UNIVERSAL FITTING (3) (MS24400)



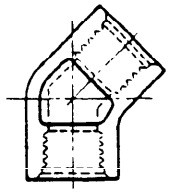
AN937 CROSS - INTERNAL SCREW THREAD



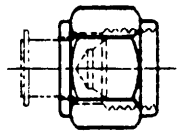
AN938 TEE - INTERNAL SCREW THREAD



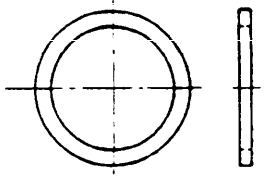
AN939 ELBOW - INTERNAL SCREW THREAD 90°



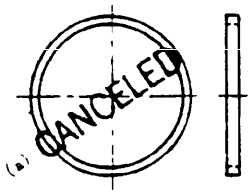
AN941 ELBOW - INTERNAL SCREW THREAD 45°



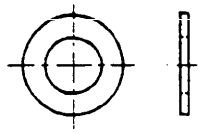
AN929 CAP - PRESSURE SEAL FLARED TUBE FITTING



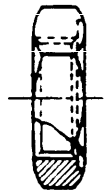
AN901 GASKET - METAL TUBE CONNECTION SEAL



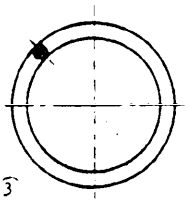
(a) AN902 GASKET - FLARED TUBE UNIVERSAL FITTING



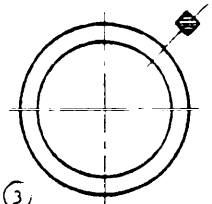
AN960 WASHER - PLAIN



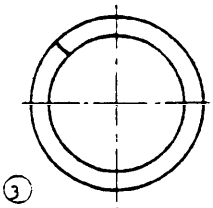
AN6289 NUT - FLARED TUBE, BULKHEAD AND UNIVERSAL FITTING



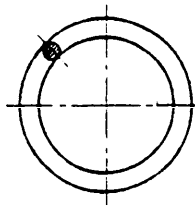
(3) MS28778 GASKET - STRAIGHT THREAD TUBE FITTING BOSS



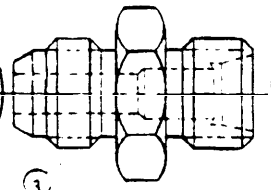
(3) MS28777 RING - HYDRAULIC FITTING GASKET BACK-UP



(3) MS9058 RING - BACK-UP BOSS CONNECTION



MS29512 GASKET - FUEL RESISTANT STRAIGHT THREAD TUBE FITTING, BOSS



(3) MS21900 ADAPTER FLARELESS TUBE TO AN FLARED TUBE (MS24405)

(a) AN902 CANCELED 22 JUNE 1954.

STRAIGHT THREADED FITTINGS - FLARED TUBE TYPE. SEE SHEET 3 FOR PIPE THREADED FITTINGS, AND SHEET 4 FOR HOSE CLAMP TYPE FITTINGS.

APPROVED 19 Dec 42 REVISED (1) 22 Dec 48 (2) 22 Jun 54 (3) FOR CHANGES SEE SHEETS 1, 2, 3, AND 4

AIR FORCE-NAVY AERONAUTICAL DESIGN STANDARD

FITTINGS - STYLES OF PIPE THREADED, FLARED TUBE AND HOSE

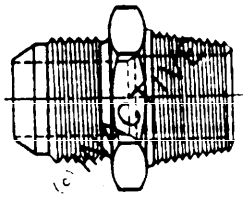
ANDI0059

SHEET 2

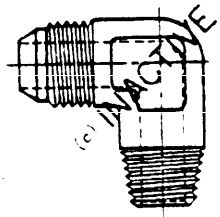
NOT A PART NUMBER

NOTICE: When Government drawings, specifications, or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the United States Government thereby incurs no responsibility, nor any obligation whatsoever; and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.

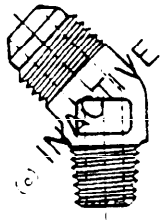
NOTE: This drawing was approved by joint action of the Air Force and Navy Departments as the Air Force-Navy standard for this product. This drawing supersedes all antecedent standard drawings for the same product and shall become effective for the procurement of aeronautical supplies, or for use in new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



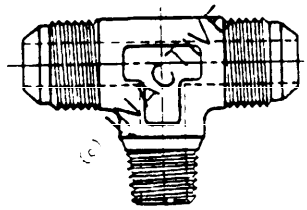
(3) AN816 NIPPLE - FLARED TUBE AND PIPE THREAD



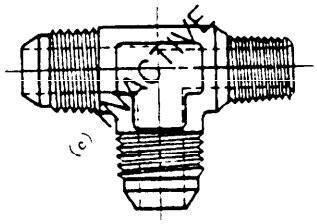
(3) MS20822 ELBOW - FLARED TUBE AND PIPE THREAD, 90°



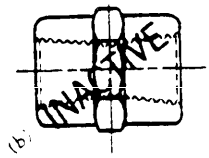
(3) [illegible] ELBOW - FLARED TUBE AND PIPE THREAD, 45°



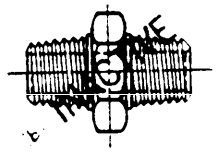
(3) [illegible] TEE - FLARED TUBE WITH PIPE THREAD ON SIDE



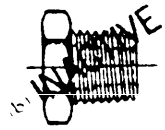
(3) MS20[illegible] TEE - FLARED TUBE WITH PIPE THREAD ON RUN



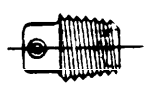
AN910 COUPLING - PIPE THREAD



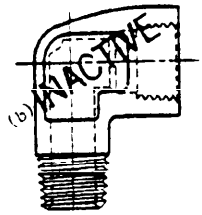
AN911 NIPPLE - PIPE THREAD



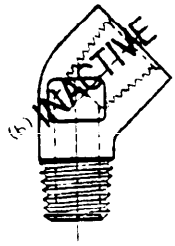
AN912 BUSHING - REDUCER



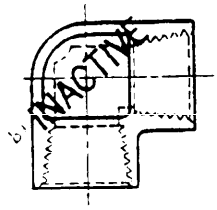
(3) MS20913 PLUG SQUARE HEAD PIPE THREAD



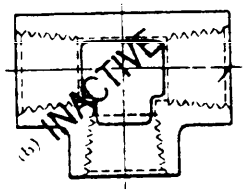
AN914 ELBOW - INTERNAL AND EXTERNAL PIPE THREAD 90°



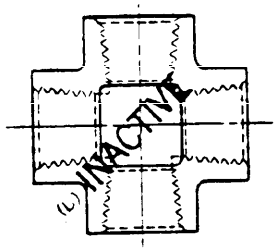
AN915 ELBOW - INTERNAL AND EXTERNAL PIPE THREAD 45°



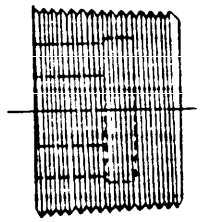
AN916 ELBOW - INTERNAL PIPE THREAD 90°



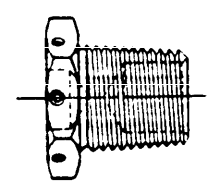
AN917 TEE - INTERNAL PIPE THREAD



AN918 CROSS - INTERNAL PIPE THREAD



AN932 PLUG - COUNTERSUNK HEX HEAD PIPE



AN933 PLUG - PIPE, HEX HEAD

PIPE THREADED FITTINGS. SEE SHEETS 1 AND 2 FOR STRAIGHT THREADED FITTINGS, AND SHEET 4 FOR HOSE CLAMP TYPE FITTINGS.

(b) AN910, AN911, AN912, AN914, AN915, AN916, AN917 AND AN918 INACTIVE FOR DESIGN AFTER 22 JUNE 1954, EXCEPT IN OXYGEN SYSTEMS AND GROUND SERVICE EQUIPMENT.

(3) (c) AN816, MS20822, MS20823, MS20825 AND MS20824 INACTIVE FOR DESIGN AFTER 9 JANUARY 1964 EXCEPT IN OXYGEN SYSTEMS AND GROUND SERVICE EQUIPMENT.

APPROVED 22 Dec 48 REVISED (3) FOR [illegible] SEE SHEETS 1, 2, 3, AND 4.

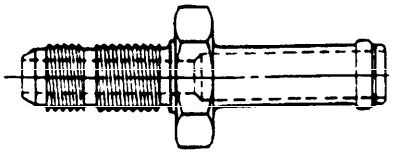
AIR FORCE-NAVY AERONAUTICAL DESIGN STANDARD	AND10059
FITTINGS-STYLES OF PIPE THREADED, FLARED TUBE AND HOSE	SHEET 3

NOT A PART NUMBER

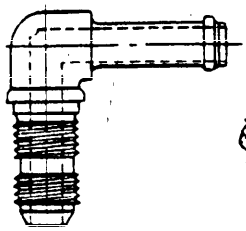
NOTICE: When Government drawings, specifications, or other data are used for any purpose other than in connection [illegible] definitely related Government procurement operation, the United States Government thereby incurs no responsibility, nor any obligation whatsoever, and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.

AIR FORCE AIR FORCE

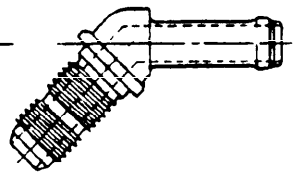
NOTE: This drawing was approved by joint action of the [redacted] and Navy Departments as the [redacted]-Navy standard for this product. This drawing supersedes all antecedent standard drawings for the same product and shall become effective for the procurement of aeronautical supplies, or for use in new design, not later than 6 months after the latest date of approval shown. It may be put into effect, however, at an earlier date after promulgation.



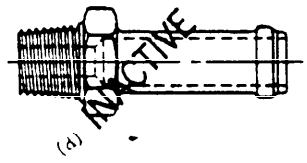
AN807 ADAPTER-
HOSE TO UNIVERSAL



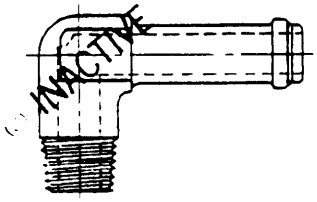
AN838 ELBOW-
HOSE TO UNIVERSAL 90°



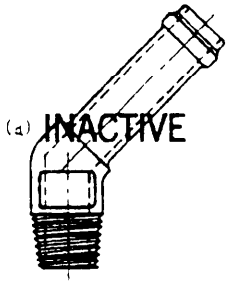
AN839 ELBOW-
HOSE TO UNIVERSAL 45°



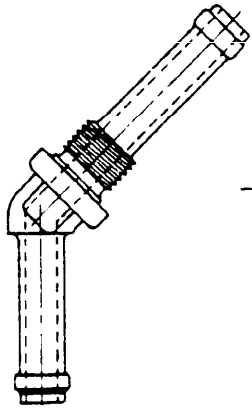
AN840 ADAPTER-
HOSE TO PIPE THREAD



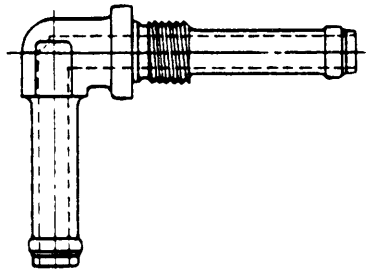
AN842 ELBOW-
PIPE THREAD, AND
HOSE 90°



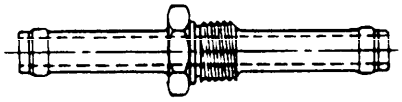
AN844 ELBOW-
PIPE THREAD, AND
HOSE 45°



AN846 ELBOW-
HOSE BULKHEAD 45°



AN848 ELBOW-
HOSE BULKHEAD 90°



AN849 CONNECTOR-
HOSE BULKHEAD

(d) AN840, AN842 AND AN844 INACTIVE FOR DESIGN AFTER 22 JUNE 1954

3 BEADED TUBE FITTINGS. SEE SHEETS 1 AND 2 FOR STRAIGHT THREADED FITTINGS, AND SHEET 3 FOR PIPE THREADED FITTINGS.

3 BEADED TUBE FITTINGS LISTED ON THIS SHEET ARE NOT PERMITTED FOR USAGE IN HYDRAULIC AND PNEUMATIC SYSTEMS.

APPROVED 22 June 48 REVISED 3 FOR CHANGES SEE SHEETS 1, 2, 3, AND 4

NOTICE: When Government drawings, specifications, or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the United States Government thereby incurs no responsibility, nor any obligation whatsoever; and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.

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 superseded standard drawings for the same product and shall become effective for the procurement of aeronautical supplies, or for use in new designs, not later than 6 months after the latest date of approval shown.

AIR FORCE-NAVY AERONAUTICAL DESIGN STANDARD

FITTINGS - STYLES OF PIPE THREADED, FLARED TUBE AND HOSE

AND10059

SHEET 4

NOT A PART NUMBER