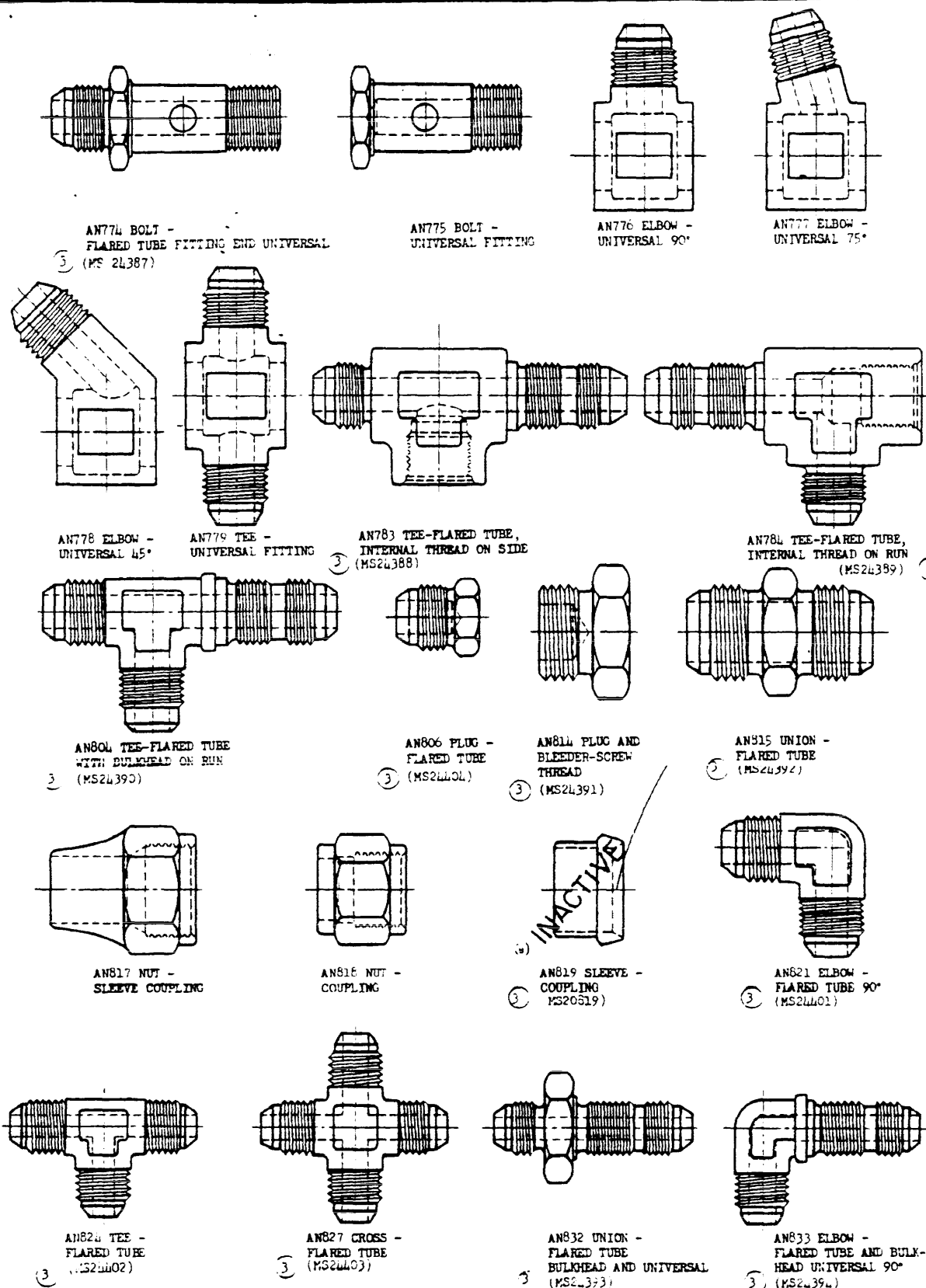


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(e) INACTIVE FOR DESIGN AFTER 26 AUG 57. USE MS20319.
STRAIGHT THREADED FITTINGS-FLARED TUBE TYPE. SEE SHEET 3 FOR PIPE THREADED FITTINGS, AND SHEET 4 FOR HOSE CLAMP TYPE FITTINGS.
MS STANDARDS SHOWN IN PARENTHESIS ARE PRECISION TYPE FITTINGS.
3 FOR CHANGES SEE SHEETS 2, 3, AND 4.

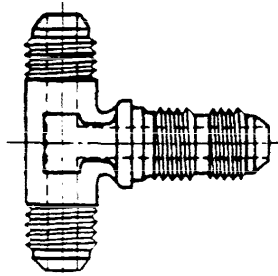
AIR FORCE-NAVY AERONAUTICAL DESIGN STANDARD FITTINGS-STYLES OF PIPE THREADED, FLARED TUBE AND HOSE AND10059 SHEET 1 OF 1

NOT A PART NUMBER

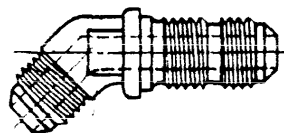
APPROVED 22 Dec 42 REVISED 1 22 Dec 48 2 22 JUN 49 3 9 Jan 64

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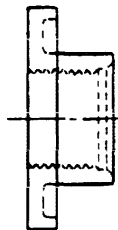
NOTE: This drawing was approved by joint action of the Air Force and Navy Departments as the Air Force-Navy standard for the product. This drawing supersedes all antecedent standard drawings for the same product and shall become effective for the procurement of aeronautical supplies, or for use in new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



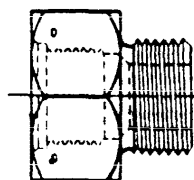
AN83L TEE -
BULKHEAD AND UNIVERSAL
FLARED TUBE
(MS24395)



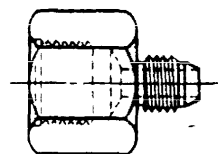
AN83T ELBOW -
FLARED TUBE AND
UNIVERSAL, 45°
(MS24396)



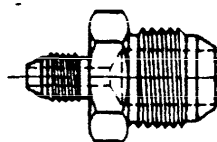
AN871 FLANGE -
STRAIGHT THREAD
BOSS WELDING



AN893 BUSHING -
SCREW THREAD
REDUCER
(MS24397)



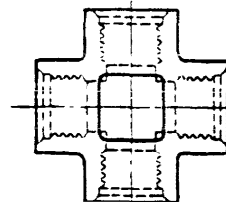
AN89L BUSHING -
SCREW THREAD
EXPANDER
(MS24398)



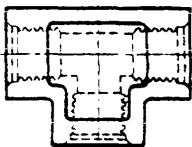
AN919 REDUCER -
EXTERNAL THREAD
FLARED TUBE
(MS24399)



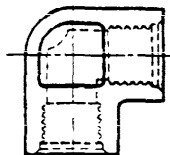
AN92L NUT -
FLARED TUBE, BULKHEAD
AND UNIVERSAL FITTING
(MS24400)



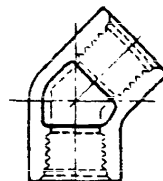
AN937 CROSS -
INTERNAL SCREW
THREAD



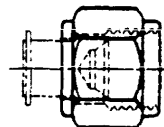
AN936 TEE -
INTERNAL SCREW
THREAD



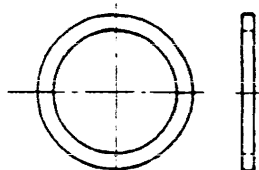
AN939 ELBOW -
INTERNAL SCREW
THREAD 90°



AN94L ELBOW -
INTERNAL SCREW
THREAD 45°



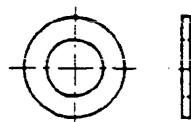
AN929 CAP -
PRESSURE SEAL
FLARED TUBE FITTING



AN901 GASKET -
METAL TUBE
CONNECTION SEAL



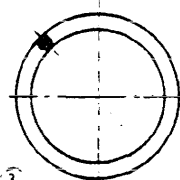
AN902 GASKET -
FLARED TUBE
UNIVERSAL FITTING



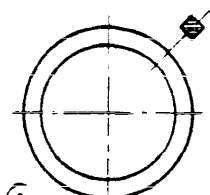
AN960 WASHER -
PLAIN



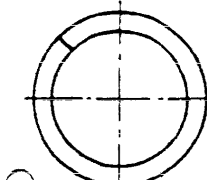
AN626 NUT -
FLARED TUBE, BULKHEAD
AND UNIVERSAL FITTING



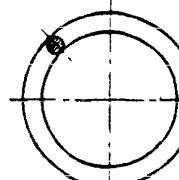
MS28775 GASKET -
STRAIGHT THREAD TUBE
FITTING BOSS



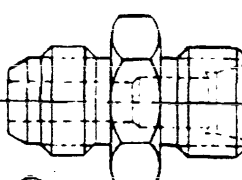
MS28777 RING -
HYDRAULIC FITTING
GASKET BACK-UP



MS9058 RING -
BACK-UP BOSS
CONNECTION



MS29512 GASKET -
FUEL RESISTANT STRAIGHT
THREAD TUBE FITTING, BOSS



MS21900 ADAPTER
FLARELESS TUBE
TO AN FLARED TUBE
(MS24405)

(a) AN902 CANCELED 22 JUNE 1951.

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

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

AND10059

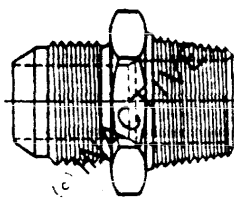
SHEET 2

NOT A PART NUMBER

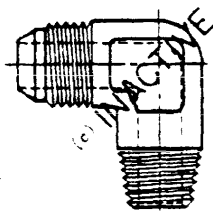
APPROVED 19 Dec 42 REVISED 1 22 Dec 48 2 22 Jun 51 3 FOR CHANGES SEE SHEETS 1, 2, 3, AND 4

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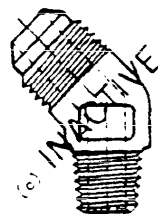
NOTE: This drawing was approved by joint action of the AIR FORCE and Navy Departments as the AIR FORCE-Navy standard for this product. This drawing supersedes all antecedent standard drawings for the same product and shall become effective for the procurement of aeronautical supplies, or for use in new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



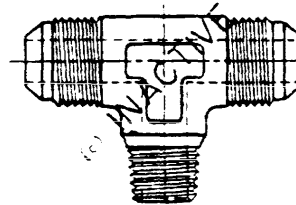
③ AN616 NIPPLE -
FLARED TUBE AND
PIPE THREAD



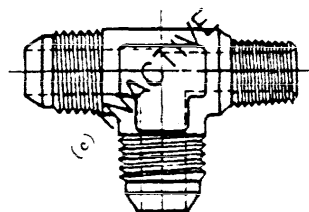
③ MS20922 ELBOW -
FLARED TUBE AND
PIPE THREAD, 90°



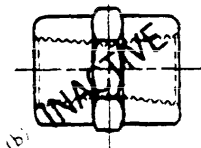
③ MS20921 ELBOW -
FLARED TUBE AND
PIPE THREAD, 45°



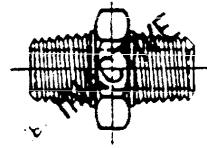
③ MS20901 TEE - FLARED
TUBE WITH PIPE
THREAD ON SIDE



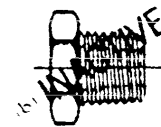
③ MS20902 TEE - FLARED
TUBE WITH PIPE
THREAD ON RUN



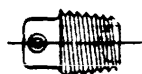
AN910 COUPLING -
PIPE THREAD



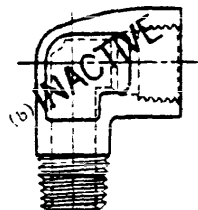
AN911 NIPPLE -
PIPE THREAD



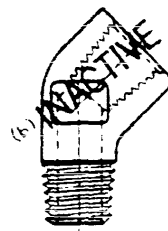
AN912 BUSHING -
REDUCER



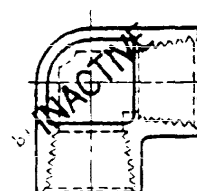
③ MS20912 PLUG
SQUARE HEAD
PIPE THREAD



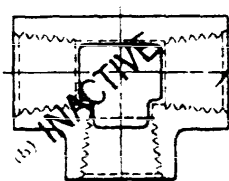
AN914 ELBOW -
INTERNAL AND EXTERNAL
PIPE THREAD 90°



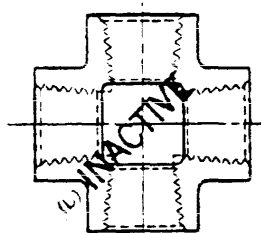
AN915 ELBOW -
INTERNAL AND EXTERNAL
PIPE THREAD 45°



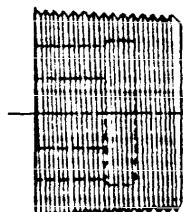
AN916 ELBOW -
INTERNAL PIPE
THREAD 90°



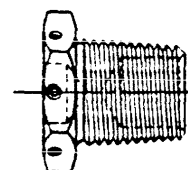
AN917 TEE -
INTERNAL PIPE THREAD



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 27 JUNE 1951, EXCEPT IN OXYGEN SYSTEMS AND GROUND SERVICE EQUIPMENT.

(c) AN616, MS20822, MS20823, MS20825 AND MS20826 INACTIVE FOR DESIGN AFTER 9 JANUARY 1961, EXCEPT IN OXYGEN SYSTEMS AND GROUND SERVICE EQUIPMENT.

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

AND10059

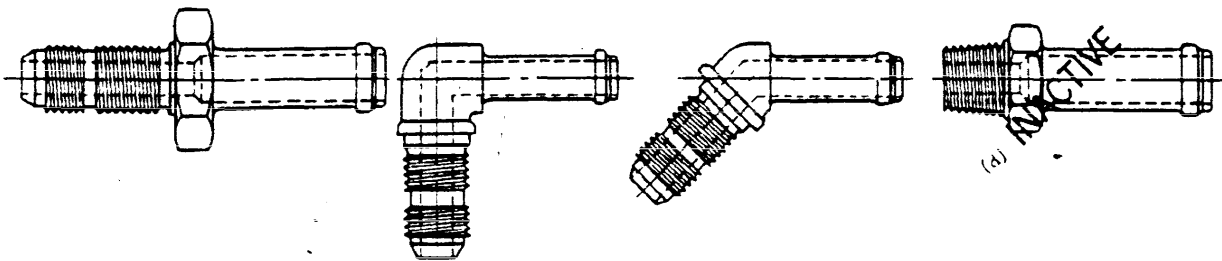
SHEET 3

NOT A PART NUMBER

APPROVED 22 Dec 48 REVISED 3 FOR A-100 SEE SHEETS 1, 2, 3, AND 4.

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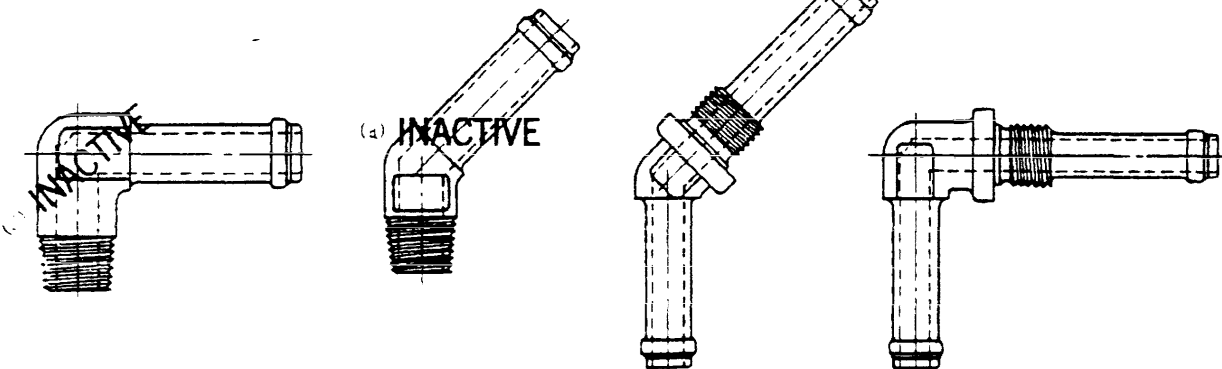


AN807 ADAPTER-
HOSE TO UNIVERSAL/L

AN836 ELBOW-
HOSE TO UNIVERSAL 90°

AN839 ELBOW-
HOSE TO UNIVERSAL 45°

AN840 ADAPTER-
HOSE TO PIPE THREAD

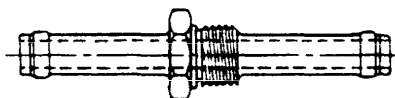


AN842 ELBOW-
PIPE THREAD, AND
HOSE 90°

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.

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

AND10059

SHEET 1

NOT A PART NUMBER

APPROVED 22 Dec 48 REVISED 3 FOR CHA CES SEE S. PETS 1, 2, 3, AND 4