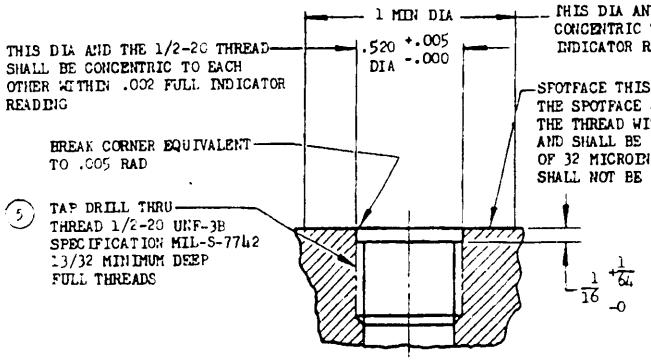
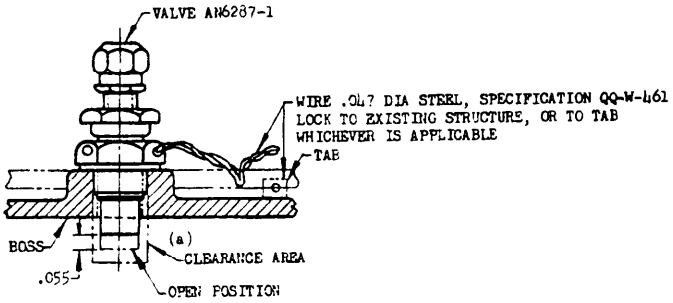
User activities: Army - ME

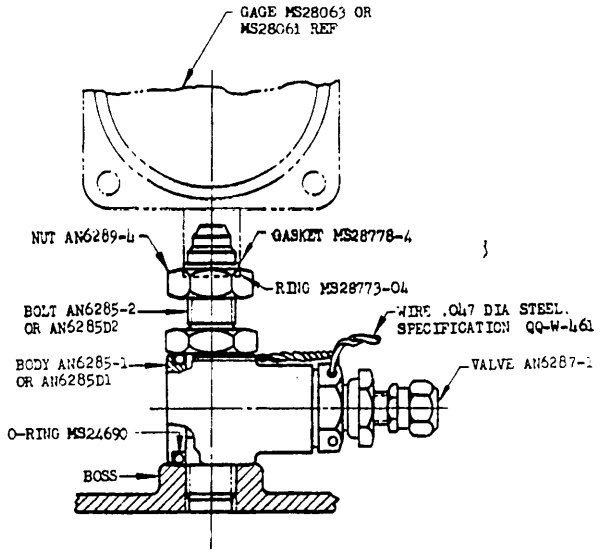
Review activities: Navy - AS USAF - 11



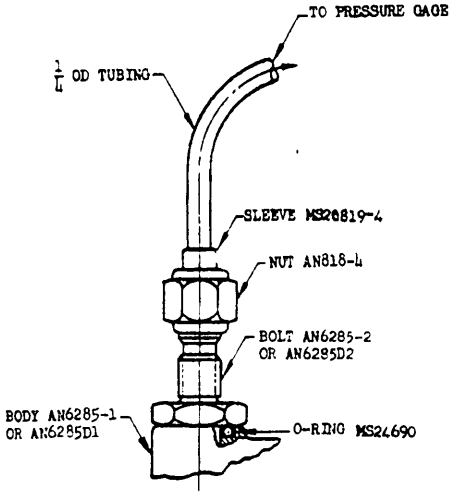
CROSS SECTION OF BOSS ENLARGED



DIRECT AIR BODY CONNECTION



TYPICAL DIRECT GAGE CONNECTION



TYPICAL REMOTE GAGE CONNECTION

(a) THE VALVE ASSEMBLY SHALL NOT CONTACT ANY INTERNAL PARTS OF THE UNIT IN WHICH IT IS USED.
AN ADDITIONAL AREA OF 1/16 MINIMUM CLEARANCE SHALL BE PROVIDED FOR OPENING VALVE.
STEEL BODY SHALL BE USED WITH STEEL BOLT, AND ALUMINUM ALLOY BODY SHALL BE USED WITH ALUMINUM ALLOY BOLT.
PROVIDE SPACE AROUND VALVE AN6287-1 TO PERMIT USE OF OPEN END WRENCH ON THE 5/8 HEX AND THE 3/4 HEX AND TO PERMIT CONNECTION OF MIL-G- 8348 GAGE ASSEMBLIES.

DIMENSIONS IN INCHES.

5) REVISED TO UPDATE REFERENCES

5) FOR CHANGES SEE SHEETS 1 AND 2.

FSC 4730

APPROVED 15 Jan 44 REVISED (1) 3 Sep 48 (2) 25 Nov 49 (3) 1 Jun 54 (4) 24 Jun 55 (5) 14 DEC 1966

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.

AIR FORCE-NAVY AERONAUTICAL DESIGN STANDARD

BOSS AND INSTALLATIONS - AIR CONNECTION(AN6287)

AND10071

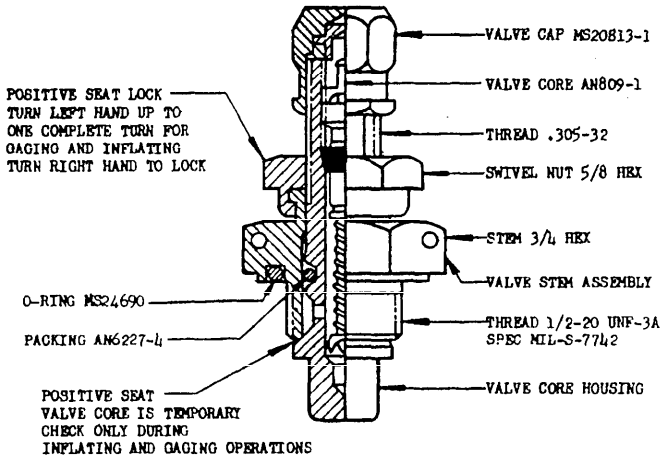
SHEET 1 OF 2 SHEETS

NOT A PART NUMBER

User activities: Army - MS

Review activities: Navy - AS USAF - 11

FSC 4730



AN6287-1 HIGH PRESSURE AIR VALVE ASSEMBLY

(5) LUBRICATE O-RING MS24690 WITH GREASE, SPECIFICATION MIL-L-4343 PRIOR TO INSTALLATION IN BOSS. THIS AIR VALVE SHOULD NOT BE USED IN ANY BOSS HAVING A DIAMETER OF LESS THAN 13/16 INCH. BOSS, MUST BE CLEAN, SMOOTH, AND SQUARE WITH 1/2-20 THREAD CENTERLINE.

CAUTION: CLEAN TOP SURFACE OF BOSS AND INSURE THAT IT IS FREE OF NICKS AND SCRATCHES BEFORE INSTALLING AIR VALVE. BOTTOM 3/4 HEX STEM AGAINST TOP SURFACE OF BOSS AND TIGHTEN TO 100-110 IN. LB TORQUE. NEVER LOOSEN 3/4 HEX STEM TO DISCHARGE AIR PRESSURE. THIS HEX SHOULD REMAIN TIGHT AGAINST THE BOSS AT ALL TIMES.

THIS AIR VALVE REPLACES AN812-1 ON SHOCK STRUTS, AIR BOTTLE, AND ACCUMULATORS AND IS SUITABLE FOR ALL OPERATING PRESSURES UP TO 3000 PSI. USE O-RING MS24690 TO SEAL VALVE AT THE BOSS. USE VALVE CORE AN809-1 INSIDE THE VALVE. THIS CORE FUNCTIONS AS A CHECK VALVE FOR FILLING AND GAGING PROCEDURE ONLY, AND DOES NOT SEAL DURING OPERATION. USE VALVE CAP MS20813-1 AS A DUST SEAL DURING OPERATION. LOCK WIRE VALVE TO UNIT AFTER INSTALLATION IN BOSS, USING HOLES PROVIDED IN 3/4 HEX. USE AS A COMPLETE ASSEMBLY. DO NOT INTERCHANGE PARTS.

OPERATING INSTRUCTIONS

A. USING GAGE ASSEMBLY MIL-G-8348

1. TO CHARGE WITH OR DISCHARGE AIR:

a. REMOVE VALVE CAP MS20813-1.
b. ATTACH AIR FILLING CHUCK TO VALVE BY MEANS OF GAGE ASSEMBLY.
c. LOOSEN 5/8 HEX SWIVEL NUT TO A MAXIMUM OF 3/4 OF A COMPLETE TURN. TURN LEFT HAND, COUNTERCLOCKWISE TO LOOSEN.

CAUTION: EXCESSIVE LOOSENING WILL RESULT IN THE STEM ASSEMBLY DROPPING INTO THE UNIT TO WHICH THIS VALVE IS ATTACHED. FURTHERMORE, THE 5/8 HEX WILL INTERFERE WITH THE CHUCK ON GAGE ASSEMBLY AND CAUSE DAMAGE TO THE VALVE CORE HOUSING.

d. CHARGE OR DISCHARGE TO PROPER AIR PRESSURE.
e. TIGHTEN 5/8 HEX SWIVEL NUT TO 50-70 INCH-POUNDS TORQUE. TURN RIGHT HAND. CLOCKWISE TO TIGHTEN.
f. REMOVE GAGE ASSEMBLY FROM VALVE AND REPLACE AND TIGHTEN VALVE CAP MS20813-1 TO EXTREME FINGER TIGHTNESS.

B. WITHOUT USING GAGE ASSEMBLY:

1. TO CHARGE UNIT WITH AIR:

a. REMOVE VALVE CAP MS20813-1.
b. ATTACH AIR FILLING CHUCK FROM BOOSTER PUMP, AIR BOTTLE, ETC , TO VALVE STEM THREADS.
c. LOOSEN 5/8 HEX SWIVEL NUT TO A MAXIMUM OF 3/4 OF A COMPLETE TURN. TURN LEFT HAND, COUNTERCLOCKWISE TO LOOSEN.

CAUTION: EXCESSIVE LOOSENING WILL RESULT IN THE STEM ASSEMBLY DROPPING INTO THE UNIT TO WHICH THIS VALVE IS ATTACHED. FURTHERMORE, THE 5/8 HEX WILL INTERFERE WITH THE CHUCK ON GAGE ASSEMBLY AND CAUSE DAMAGE TO THE VALVE CORE HOUSING.

d. CHARGE TO PROPER AIR PRESSURE.
e. TIGHTEN 5/8 HEX SWIVEL NUT TO 50-70 INCH-POUNDS TORQUE, TURN RIGHT HAND, CLOCKWISE TO TIGHTEN.
f. REMOVE AIR FILLING CHUCK FROM VALVE AND REPLACE AND TIGHTEN VALVE CAP MS20813-1 TO EXTREME FINGER TIGHTNESS.

2. TO DISCHARGE AIR FROM UNIT:

a. REMOVE VALVE CAP MS20813-1.
b. LOOSEN 5/8 SWIVEL NUT. THE AMOUNT THE NUT IS LOOSENED UP TO ONE (1) COMPLETE TURN ONLY WILL GOVERN THE RATE OF DISCHARGE OF AIR.
c. DEPRESS VALVE CORE WITH SUITABLE TOOL COMPARABLE IN SIZE TO A MATCHSTICK OR USE BLEEDER ATTACHMENT OF THE GAGE ASSEMBLY. IF SMALL AMOUNT OF AIR ONLY IS TO BE DISCHARGED, LOOSEN 5/8 HEX SWIVEL NUT ABOUT ONE TENTH (1/10) OF A COMPLETE TURN, DEPRESS VALVE CORE,THEN RETIGHTEN SWIVEL NUT AS IN "L - c." AND REPLACE AND TIGHTEN VALVE CAP MS20813-1 TO EXTREME FINGER TIGHTNESS.

(5) NOTE: AN6287 VALVES COVERED BY AND10071 ARE INACTIVE FOR DESIGN. FOR INSTALLATION INSTRUCTIONS FOR THE SUPERSEDING MS28889 VALVES, SEE MS33651.

APPROVED 3 Sep 48 REVISED (5) FOR CHANGES SEE SHEETS 1 AND 2.

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.

AIR FORCE-NAVY AERONAUTICAL DESIGN STANDARD

BOSS AND INSTALLATIONS, AIR CONNECTION (AN6287)

AND10071

SHEET 2 OF

SUPERSEDES USAF DRAWING 47D1572 NOT A PART NUMBER

type class size and specific design