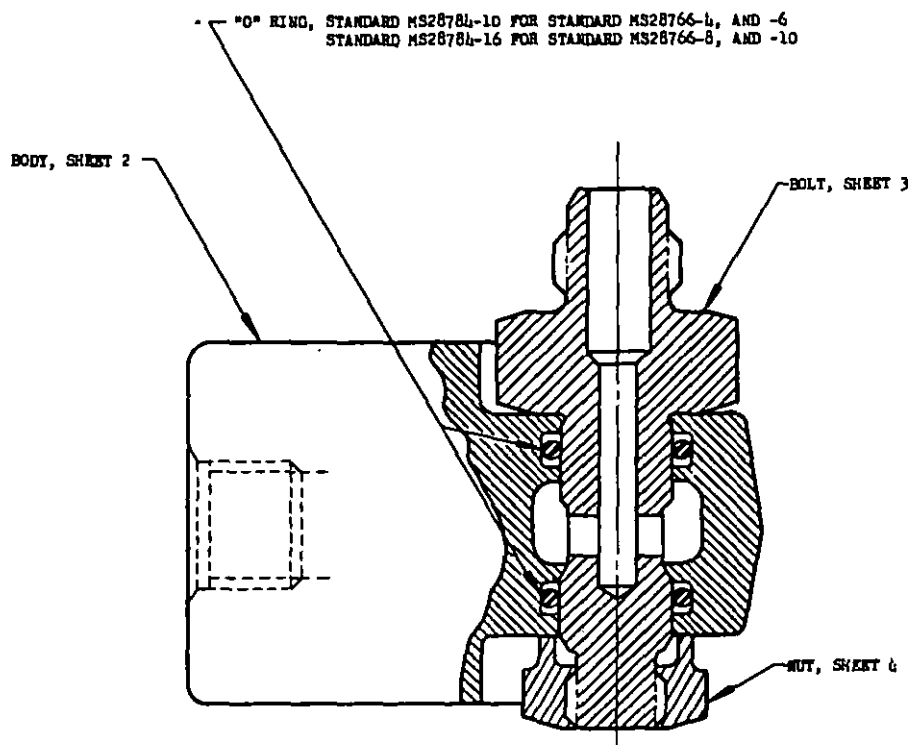


FED. SUP CLASS.
4820

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 hereby disclaims any responsibility, and the fact that the Government may have furnished, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded as an implication or otherwise, or 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.

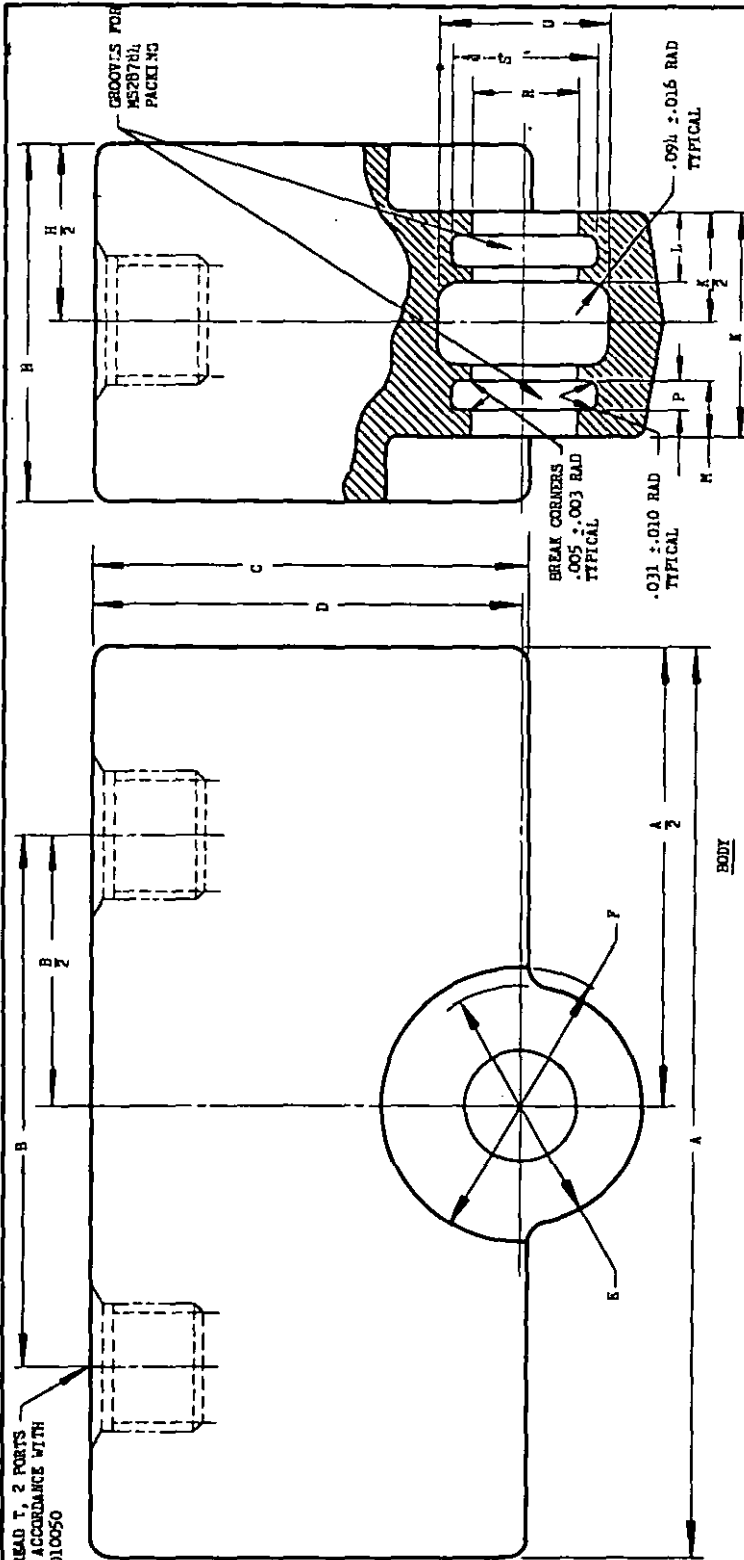


THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
 REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.
 THIS DOCUMENT HAS BEEN PROMULGATED BY THE DEPARTMENT OF DEFENSE AS THE MILITARY STANDARD TO LIMIT THE SELECTION OF THE ITEM, PRODUCT, OR DESIGN COVERED HEREIN IN ENGINEERING, DESIGN, AND PROCUREMENT. THIS STANDARD SHALL BECOME EFFECTIVE NOT LATER THAN 90 DAYS AFTER THE LATEST DATE OF APPROVAL SHOWN.

APPROVED 13 Sep 55 REVISED 30 Apr 57

CUSTODIANS Navy - BuAer Air Force	OTHER INT. A - N - AF -	MILITARY STANDARD	MS28766 (ASG)
		VALVE, SHUTTLE, HYDRAULIC, DIRECT MOUNTING, 3,000 PSI, TYPE II SYSTEMS	
PROCUREMENT SPECIFICATION MIL-V-19068	SUPERSEDES:	SHEET 1 OF 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 furnished, 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.



DASH NO.	FLTN	TUBE OD	THREAD T	A MAX	B MAX	C MAX	D	E DIA	F SF DIA	H MAX	K	L TYP	M TYP	P TYP	R DIA	S DIA	U DIA	RATED FLOW CAPACITY GPM
-4		3/4	7/16-20 UNF-2B	4.000	2.375	1.812	1.812	1.125	1.188	1.438	1.000	.312	.249	.113	.5000	.664	.797	1.22
-6		3/8	9/16-18 UNF-2B	4.188	2.438	1.969	1.937	1.125	1.250	1.525	1.000	.312	.249	.113	.5000	.664	.797	3.5
-8		1/2	3/4-15 UNF-2B	5.525	3.375	2.531	2.437	1.525	1.750	2.000	1.187	.375	.283	.175	.8125	1.045	1.078	6.0
-10		5/8	7/8-14 UNF-2B	5.625	3.375	2.531	2.437	1.625	1.750	2.000	1.187	.375	.283	.175	.8125	1.045	1.078	10.5

PROVIDE A LOCKWIRE HOLE CLEAR OF THE F DIA AND BOSS SURFACES.

OUTLINE AS SHOWN IS MAX AND NOT RESTRICTIVE AS TO DESIGN BUT LOCATION OF PORTS MUST BE MAINTAINED.

DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS ± .005.

THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.

REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.

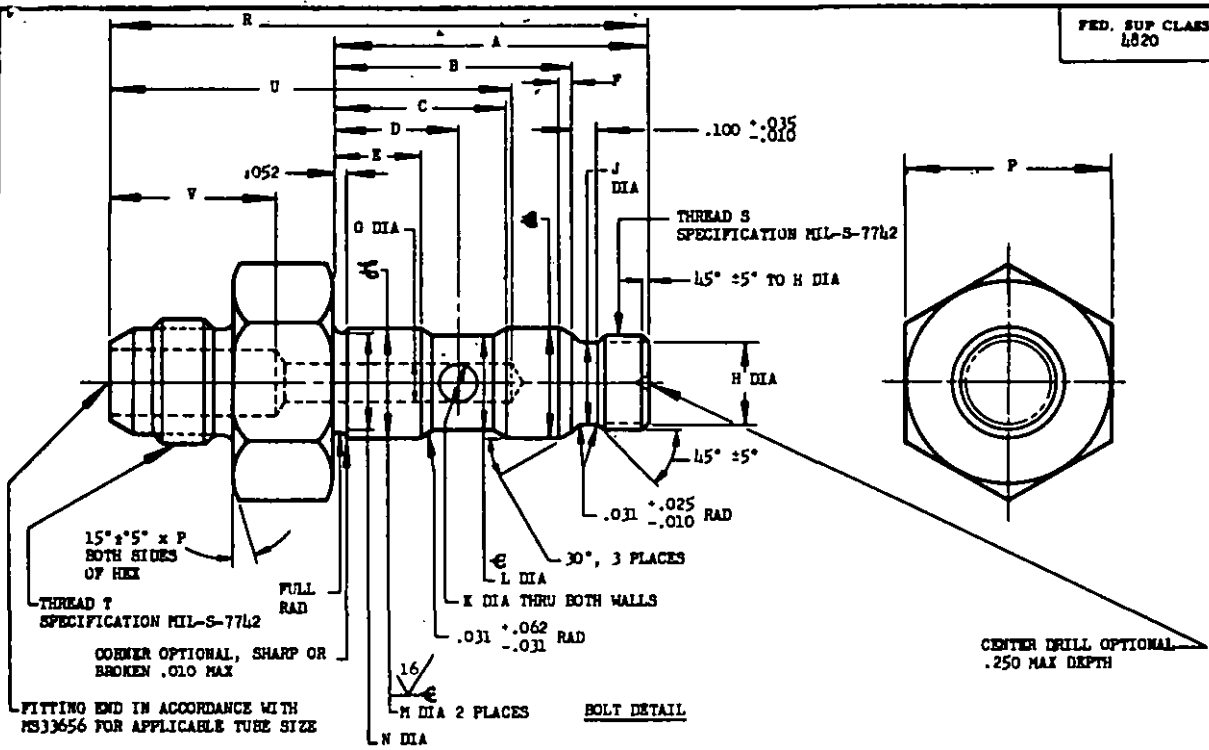
FED. SUP CLASS. 1620

THIS DOCUMENT HAS BEEN PROMULGATED BY THE DEPARTMENT OF DEFENSE AS THE MILITARY STANDARD TO LIMIT THE SELECTION OF THE ITEM, PRODUCT, OR DESIGN COVERED HEREIN IN ENGINEERING, DESIGN, AND PROCUREMENT. THIS STANDARD SHALL BECOME EFFECTIVE NOT LATER THAN 90 DAYS AFTER THE LATEST DATE OF APPROVAL SHOWN.

CUSTODIANS Navy - BuAer Air Force	OTHER INT. A - N - AF -	MILITARY STANDARD VALVE, SHUTTLE, HYDRAULIC, DIRECT MOUNTING, 3,000 PSI, TYPE 11 SYSTEMS	MS28766 (ASG)
	PROCUREMENT SPECIFICATION MIL-V-19068		

APPROVED 13 Sep 55 REVISED (A) 30 Apr 57

FED. SUP CLAS.
4820



FITTING END IN ACCORDANCE WITH
MS33656 FOR APPLICABLE TUBE SIZE

BOLT DETAIL

DASH NO.	FINN	TUBE OD	THREAD S	THREAD T	A ±.031	B	C	D	E	F ±.010	G ±.003
-4		1/4	7/16-20 UNF-3A	7/16-20 UNF-3A	1.438	1.087	.726	.510	.354	.060	.172
-6		3/8		9/16-18 UNF-3A							.203
-8		1/2	9/16-18 UNF-3A	3/4-16 UNF-3A	1.688	1.274	.891	.634	.377	.065	.391
-10		5/8		7/8-14 UNF-3A							.422

DASH NO.	H ±.005	J ±.005	K ±.003	L ±.005	M ±.0004	N	P ±.031	R	U ±.062	V ±.062
-4							.688	2.332	1.750	—
-6	.365	.363	.189	.433	.4989	.425	.875	2.431	1.812	.750
-8	.480	.480	.300	.740	.8114	.738	1.000	2.782	2.125	—
-10							1.125	2.883	2.188	.938

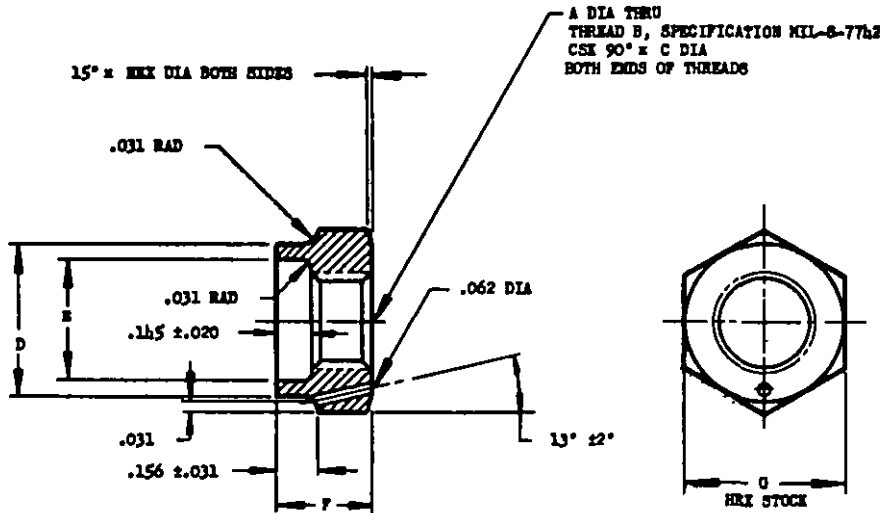
MATERIAL: ALUMINUM ALLOY, 24S-T4 OR 14S-T6.
 ALL OUTSIDE MACHINED SURFACES 125, STANDARD MIL-STD-10.
 ALL INSIDE SURFACES 250, STANDARD MIL-STD-10.
 REMOVE ALL BURRS AND SHARP EDGES.
 DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS ±.010, ANGLES ±1/2°.
 DIAMETERS MARKED ϕ MUST BE CONCENTRIC WITHIN .005 FIR.
 DIAMETERS MARKED ϕ MUST BE CONCENTRIC WITHIN .0005 FIR.
 THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
 REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.

THIS DOCUMENT HAS BEEN PROMULGATED BY THE DEPARTMENT OF DEFENSE AS THE MILITARY STANDARD TO LIMIT THE SELECTION OF THE ITEM, PRODUCT, OR DESIGN COVERED HEREIN IN ENGINEERING, DESIGN, AND PROCUREMENT. THIS STANDARD SHALL BECOME EFFECTIVE NOT LATER THAN 90 DAYS AFTER THE LATEST DATE OF APPROVAL SHOWN.

CUSTODIANS Navy - BuAer Air Force	OTHER INT. A - N - AF -	MILITARY STANDARD		MS28766 (ASG)
		VALVE, SHUTTLE, HYDRAULIC, DIRECT MOUNTING, 3,000 PSI, TYPE II SYSTEMS		
PROCUREMENT SPECIFICATION MIL-STD-15005	SUPERSEDES:	SHEET 3		OF 4

APPROVED 13 Sep 55 REVISED 30 Apr 57

NOTICE: These 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 furnished, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as an assumption of liability on the part of the Government for any damages or other loss or injury, or for any other person or corporation, or for conveying any rights or privileges to manufacture, use, or sell any patented invention that may in any way be related thereto.



MUT

DASH NO.	FIN	THREAD T	A DIA		C DIA	D DIA	E DIA	F ±.031	G ±.031
			MAX	MIN					
-4		7/16-20 UNF-3B	.3916	.3834	.437	.687	.562	.606	.688
-6									
-8		9/16-18 UNF-3B	.5106	.5024	.562	1.000	.875	.900	1.000
-10									

MATERIAL: ALUMINUM ALLOY, 24ST6 OR 14ST6.

ALL MACHINED SURFACES 125/√, STANDARD MIL-STD-10.

REMOVE ALL BURS AND SHARP EDGES.

DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS ±.010, ANGLES ±1/2°.

THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.

REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.

THIS DOCUMENT HAS BEEN PROMULGATED BY THE DEPARTMENT OF DEFENSE AS THE MILITARY STANDARD TO LIMIT THE SELECTION OF THE ITEM, PRODUCT, OR DESIGN COVERED HEREIN IN ENGINEERING, DESIGN, AND PROCUREMENT. THIS STANDARD SHALL BECOME EFFECTIVE NOT LATER THAN 90 DAYS AFTER THE LATEST DATE OF APPROVAL SHOWN.

CUSTODIANS
Navy - DaAsr
Air Force

OTHER INT.
A -
N -
AF -

MILITARY STANDARD

VALVE, SHUTTLE, HYDRAULIC, DIRECT MOUNTING, 3,000 PSI, TYPE II SYSTEMS

MS28766
(ASG)

PROCUREMENT SPECIFICATION
MIL-Y-12068

SUPERSEDES:

SHEET 4 OF 4

APPROVED 13 Sep 55
REVISED 4 30 Apr 57

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 (including any agency thereof) and the fact that the Government may have furnished, furnished, or otherwise supplied the said drawings, specifications, or other data do not to be regarded as implying an endorsement, approval, or other status by the Government or its agencies with respect to the quality or use thereof.