INCH-POUND

MS28767B
8 August 2006
SUPERSEDING
MS28767A
30 April 1957

DETAIL SPECIFICATION SHEET

VALVE, SHUTTLE, HYDRAULIC, INTERNAL THREAD, TUBE FITTING OUTLET, 3000 PSI, TYPE II SYSTEMS

INACTIVE FOR NEW DESIGN AFTER 30 April 1999

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 sheet and MIL-DTL-19068.

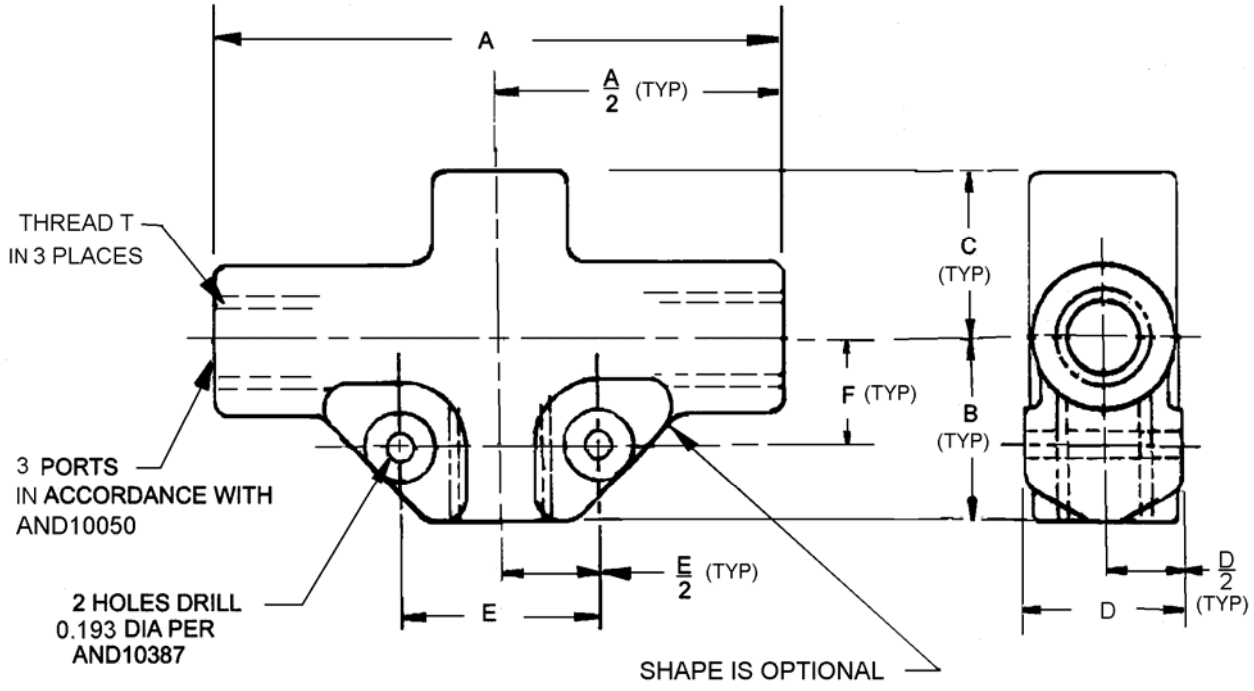


FIGURE 1. Valve design and mounting dimensions.

AMSC N/A FSC 4820

TABLE I. Valve dimensions.

Dash No	Tube OD	Thread T MIL-S-7742	A ± .031	B ± .031	C Max	D + .000 - .250
-4	.2500	.4375-20 UNF-3B	3.750	1.000	.938	1.000
-5	.3125	.5000-20 UNF-3B	3.750	1.000	.938	1.000
-6	.3750	.5625-18 UNF-3B	3.875	1.000	1.000	1.250
-8	.5000	.7500-16 UNF-3B	4.188	1.156	1.062	1.500
-10	.6750	.8750-14 UNF-3B	4.750	1.312	1.250	1.750

TABLE I. Valve dimensions - Continued.

Dash No	Tube OD	E ± .005	F ± .031	Rated flow (GPM)
-4	.2500	0.875	.750	1.2
-5	.3125	0.875	.750	2.3
-6	.3750	1.125	.750	3.5
-8	.5000	1.125	.813	6.0
-10	.6750	1.375	.938	10.5

Notes.

1. Dimensions are in inches. Unless otherwise specified, tolerances for linear dimensions, 3 digits ± .010, 4 digits ± .0005, and angles ± 0.5^{o}.

2. All machined surfaces shall be smooth to 125 micro inches Ra in accordance with ASME-B46.1.

3. The outline drawing as shown is maximum and not restrictive to the actual design, but location of ports and mounting holes must be maintained.

REQUIREMENTS:

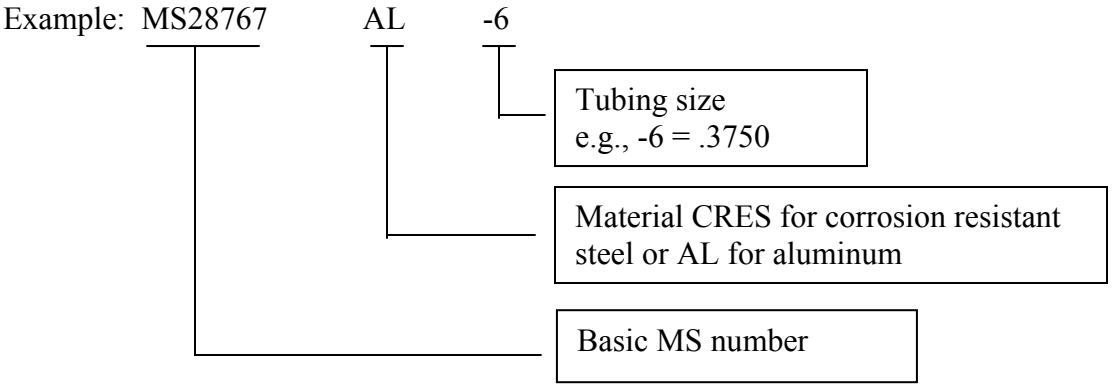
Materials. Corrosion resistant steel (CRES) type 300, Aluminum alloy type 7075-T73 or equivalent. The materials selected shall be light-weight, compatible with hydraulic fluid, fuel and oil and shall meet the requirements specified in this specification sheet and MIL-DTL-19068.

Finish: Aluminum alloy parts shall be anodized in accordance with MIL-A-8625 type I to protect from corrosion. All corrosion resistant steel (CRES) parts shall be passivated in accordance with SAE-AMS 2700. Cadmium plating shall not be used.

MARKING

Part or Identifying Number (PIN). The valve shall have a corrosion resistant identification plate permanently attached on the valve. The plate shall include the part number consisting of the following:

The basic MS number; the material; corrosion resistant steel or aluminum, and the dash number for the selected tubing size.



Product packaging. The packaging requirement shall be as specified in MIL-DTL-19068 or as specified by the acquiring activity.

Intended use: This internally threaded valve is used for mounting with hydraulic tubing. This type II valve is intended for use with the aircraft type II hydraulic systems to provide emergency fluid due to loss of pressure in the normal pressure lines. This valve is currently used in the existing military aircraft and is military unique because of specific design and dimensions which is not available for use in other commercial aircraft.

Change 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.

CONCLUDING MATERIAL

Custodians:
Army-AV
Navy-AS
Air Force-99

Preparing activity:
Navy-AS

(Project 4820-2005-004)

Review activities:
Army-AT
Navy-SA
Air Force-71
DLA- CC

Industry Association:
SAE-A6C

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at http://assist.daps.dla.mil.