



VALVE

⑧ REQUIREMENTS:

1. MATERIAL:
  - A. STEEL CASTING, QQ-S-681, CLASS 105-85.  
OPTIONAL MATERIAL: STEEL FORGING AISI 8625, AISI 8630, AISI 4130, AISI 5130, MIL-S-46172, GRADE D.
  - B. ALUMINUM ALLOY, CASTING, SPEC. QQ-A-601, ALLOY 355 OR 356.  
OPTIONAL MATERIAL: ALUMINUM ALLOY, FORGING, SPEC. QQ-A-367, COMPOSITION 6061.
2. HEAT TREAT:
  - A. STEEL: QUENCH AND TEMPER, BRINELL 243-271 (ROCKWELL "C" 23-28).
  - B. ALUMINUM: SOLUTION TREAT AND ARTIFICIALLY AGE (T6) IN ACCORDANCE WITH MIL-H-6088.
3. FINISH:
  - A. STEEL: CADMIUM PLATE IN ACCORDANCE WITH SPEC. QQ-P-416, TYPE II, CLASS 2.
  - B. ALUMINUM: ANODIZE IN ACCORDANCE WITH MIL-A-8625.
4. UNLESS OTHERWISE SPECIFIED, ALL MACHINED SURFACES SHALL BE 125 ROOT MEAN SQUARE (rms) WHERE SHOWN WITH SURFACE ROUGHNESS SYMBOL✓: MACHINED SURFACES 250✓IN ACCORDANCE WITH MIL-STD-10.
5. UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE: MACHINED SURFACES, FRACTIONS  $\pm 1/64$ , DECIMALS  $\pm .005$ , ANGLES  $\pm 0^{\circ} 30'$ ; UNMACHINED SURFACES, FRACTIONS  $\pm 1/32$ , ANGLES  $\pm 1^{\circ}$
6. MARKING SHALL CONSIST OF THE MS PART NUMBER AND THE MAUFACTURER'S IDENTIFICATION IN ACCORDANCE WITH MIL-STD-130.

⑧ NOTES:

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

ⓑ DENOTES CHANGES

MS PART NO.	MATERIAL
MS 51343-1	STEEL
MS 51343-2	ALUMINUM

P.A. ARMY-AT Other Cust	TITLE ⓑ VALVE, POPPET, HULL DRAIN: VEHICULAR, 3 INCH	MILITARY STANDARD
		MS 51343 (AT)
PROCUREMENT SPECIFICATION NONE	SUPERSEDES:	SHEET 1 OF 1

This military standard is approved for use by the US Army Tank-Automotive Command, Department of the Army, and is available for use by all Departments and Agencies of the Department of Defense.