



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

APPROVED 9 JANUARY 1961 REVISED (A) 18 OCTOBER 1966 (B) 25 NOV 83

Review activity:
DLA-CS

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.