

INCH-POUND

MS28052C
14 October 2011
SUPERSEDING
MS28052B
29 November 1956

DETAIL SPECIFICATION SHEET

VALVE, CHECK, PRESSURE GAGE LINES BLEEDER AND FILLER

Inactive for new design after 10 May 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.

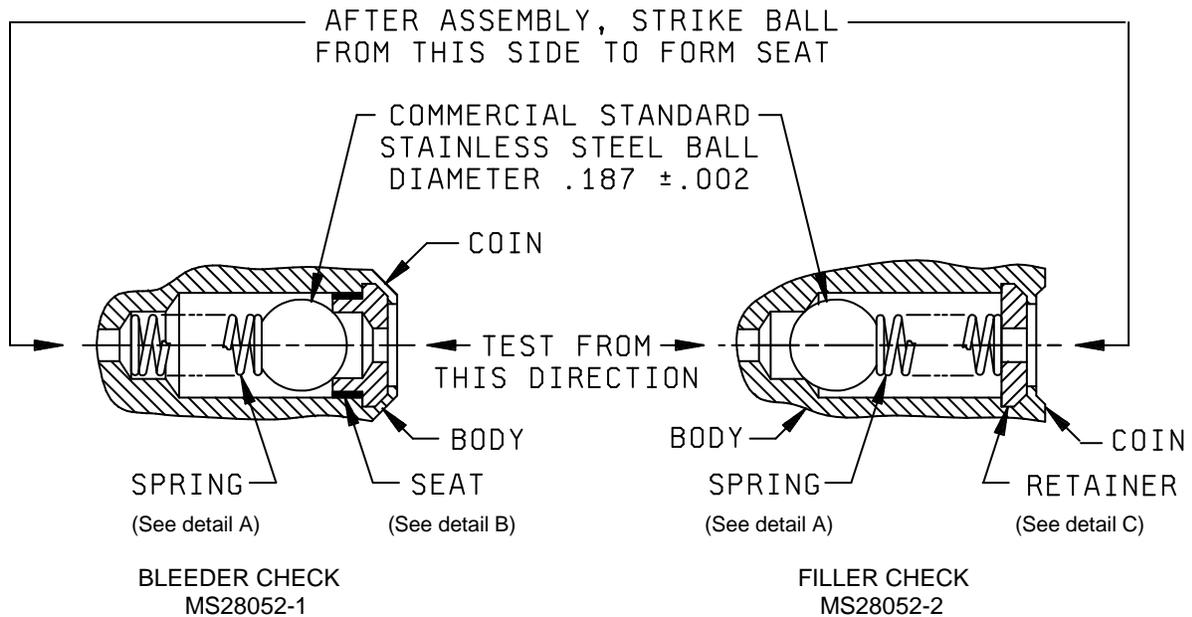
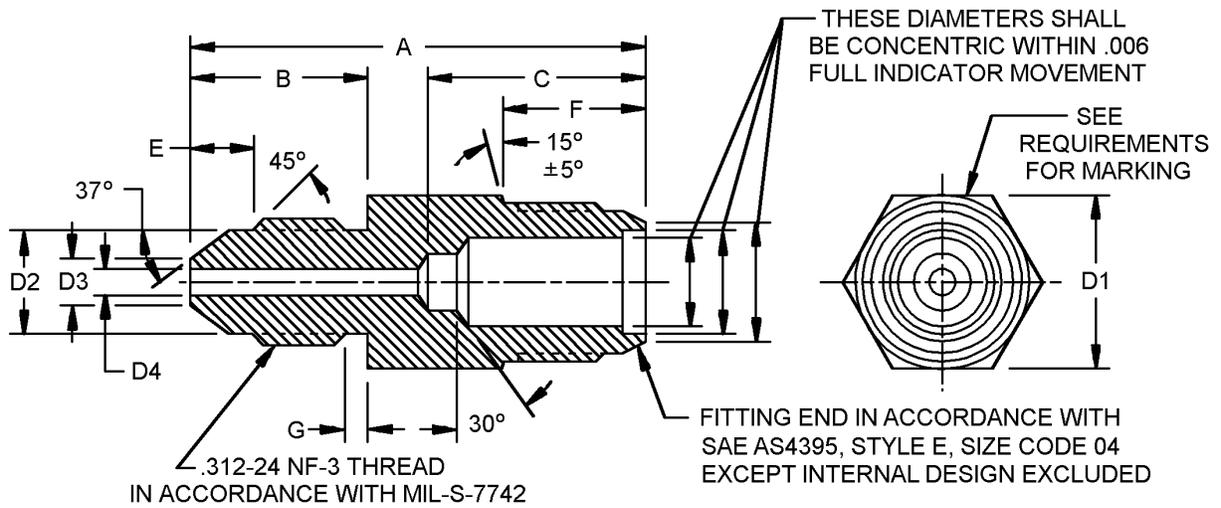
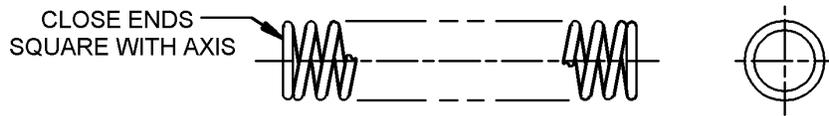
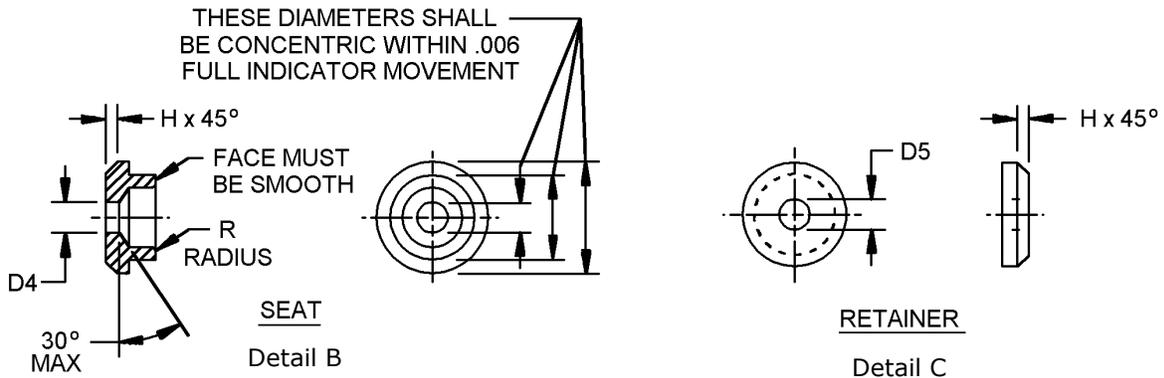


FIGURE 1. Valve, check, dimensions and configuration.



BODY



SPRING

Detail A

Inches	mm
.002	.05
.006	.15
.187	4.75

FIGURE 1. Valve, check, dimensions and configuration - Continued.

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Dimension	Dimension		Tolerance	
	Inch	mm	Inch	mm
A	1.125	28.575		
B	.428	10.871	±.015	±.381
C	.600 max	15.240 max		
D1	.688 hex	17.475 hex		
D2	.251 dia	6.375 dia	±.003	±.076
D3	.078 dia	1.981 dia	±.003	±.076
D4	.062 dia	1.575 dia	±.003	±.076
D5	<u>.096 max</u> .059 min	<u>2.438 max</u> 1.499 min		
E	.157	3.988	+015 -.000	+381 -.000
F	.550	13.970		
G	.063 max	1.600 max		
H	.005	.127	+005 -.000	+127 -.000
R	.005 max	.127 max		

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise noted, tolerances are ±.016 inch (±.406 mm) and angles ± 0.5°.

FIGURE 1. Valve, check, dimensions and configuration - Continued.

REQUIREMENTS

Valve type dash number (see table I).

TABLE I. Valve type dash numbers.

Dash number	Item	Boss
-1	Bleeder check valve	AND10050-4
-2	Filler check valve	

Performance requirements. Internal designs, other than what is shown on figure 1, shall be acceptable provided external dimensions and performance requirements are met as follows:

- a. Valve to hold, with slight leakage, to 2 psi (13.8 MPa).
- b. Valve shall break open between 2 psi and 5 psi (13.8 MPa and 34.5 MPa).
- c. Maximum leakage under 2 psi (13.8 MPa) to be 3 cubic inches (50 cubic centimeters) of air per minute.

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Materials.

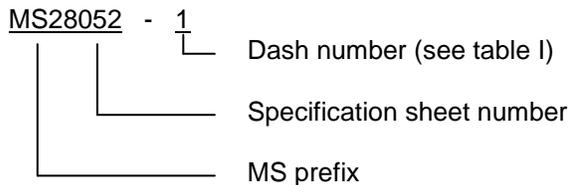
- a. Spring: phosphor bronze, in accordance with ASTM B159/B159M.
- b. Body, seat, and retainer: Brass, in accordance with ASTM B16/B16M. Composition 22 half hard.

Finish.

- a. MS28052-1, aluminum or brass.
- b. MS28052-2, any black oxidizing finish.

Valve characteristic: See figure 1.

Part or Identifying Number (PIN). The PIN is as follows:



Referenced documents shall be of the issue in effect on the date of the invitation for bid.

Marking. Letter B or F shall be stamped on three alternate hexagon flats in accordance with MPI ASM, "The Master Painter's Institute – Architectural Painting Specification Manual". Letter B shall be stamped on MS28052-1 and filled with black enamel. Letter F shall be stamped on MS28052-2 and filled with white enamel. In addition, the MS PIN shall be stamped on the flats of the hexagon. All markings shall be not less than .062 inch (1.575 mm) high by .016 inch (.406 mm) deep by .016 (.406 mm) inch line width.

For design feature purposes, this standard takes precedence over procurement documents referenced herein.

Changes 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.

Referenced documents. This document references the following:

MIL-S-7742
ASTM B16/B16M
ASTM B159/B159M
MPI ASM
SAE AS4395

CONCLUDING MATERIAL

Custodians:
Navy – AS
Air Force – 99
DLA – CC

Preparing activity:
DLA - CC

(Project 4820-2011-007)

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