

INCH-POUND

MIL-F-24402/4

3 April 1990

MILITARY SPECIFICATION SHEET

FILTER ELEMENTS, HYDRAULIC, DISPOSABLE

This specification is approved for use by the Naval Sea Systems Command, Department of the Navy, and is available 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 the issue of the following specification listed in that issue of the Department of Defense Index of Specifications and Standards (DODISS) specified in the solicitation: MIL-F-24402.

CLASSIFICATION. Filter elements covered by this specification sheet shall be designated using part or identifying numbers (PIN) as follows:

<u>M</u>	<u>24402</u>	<u>/4</u>	<u>Size A</u>
Prefix to indicate an item identified by inch-pound units	Specification number	Applicable specification sheet	Element size

ELEMENT SIZE. The filter elements shall be designated by one of the following:

- Size A - (see figure 1)
- Size B - (see figure 2)
- Size C - (see figure 3)
- Size D - (see figure 4)

REQUIREMENTS

- (a) Configuration. Filter elements shall meet the dimensional requirements shown on the applicable figure.
- (b) Performance requirements. Performance requirements shall be as specified in table I when tested in accordance with the requirements of the general specification.

AMSC N/A

FSC 4330

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

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TABLE I. Element performance requirements.

	Size A element	Size B element	Size C element	Size D element
Rated flow with MIL-L-17731 fluid at 40°C temperature (gallons per minute)	50	50	50	20
Minimum filtration efficiency (percent by weight)	97	97	97	97
Holding capacity of air clean fine test dust (ACFTD) at rated flow and 90 lb/in ² terminal pressure drop (grams)	21	50	15	15
Clean element pressure drop at rated flow and 100 ctk (min) fluid viscosity (lb/in ²) (maximum)	40	35	40	40
Collapse pressure (lb/in ²)	4,000	4,000	4,000	4,000
Reverse flow pressure (lb/in ²)	20	20	20	20
Flow fatigue cycles	50,000	50,000	50,000	50,000

- (1) Contaminant add rates and capacity. Contaminant add rates and dust capacity shall be shown in table II.

TABLE II. Amount of contaminants for pressure build-up
and efficiency tests.

Element size	Test flow (gallons per minute)	Pressure build-up		Efficiency
		Contaminant added (A-C dust) (grams)	Min weight of dust at 90 lb/in ²	APM F-9 glass beads (grams)
A	50	3.5	21	3.5
B	50	5.0	50	4.0
C	50	2.5	15	2.5
D	20	2.5	15	2.5

Preparing activity:
Navy - SH
(Project 4330-N057-04)

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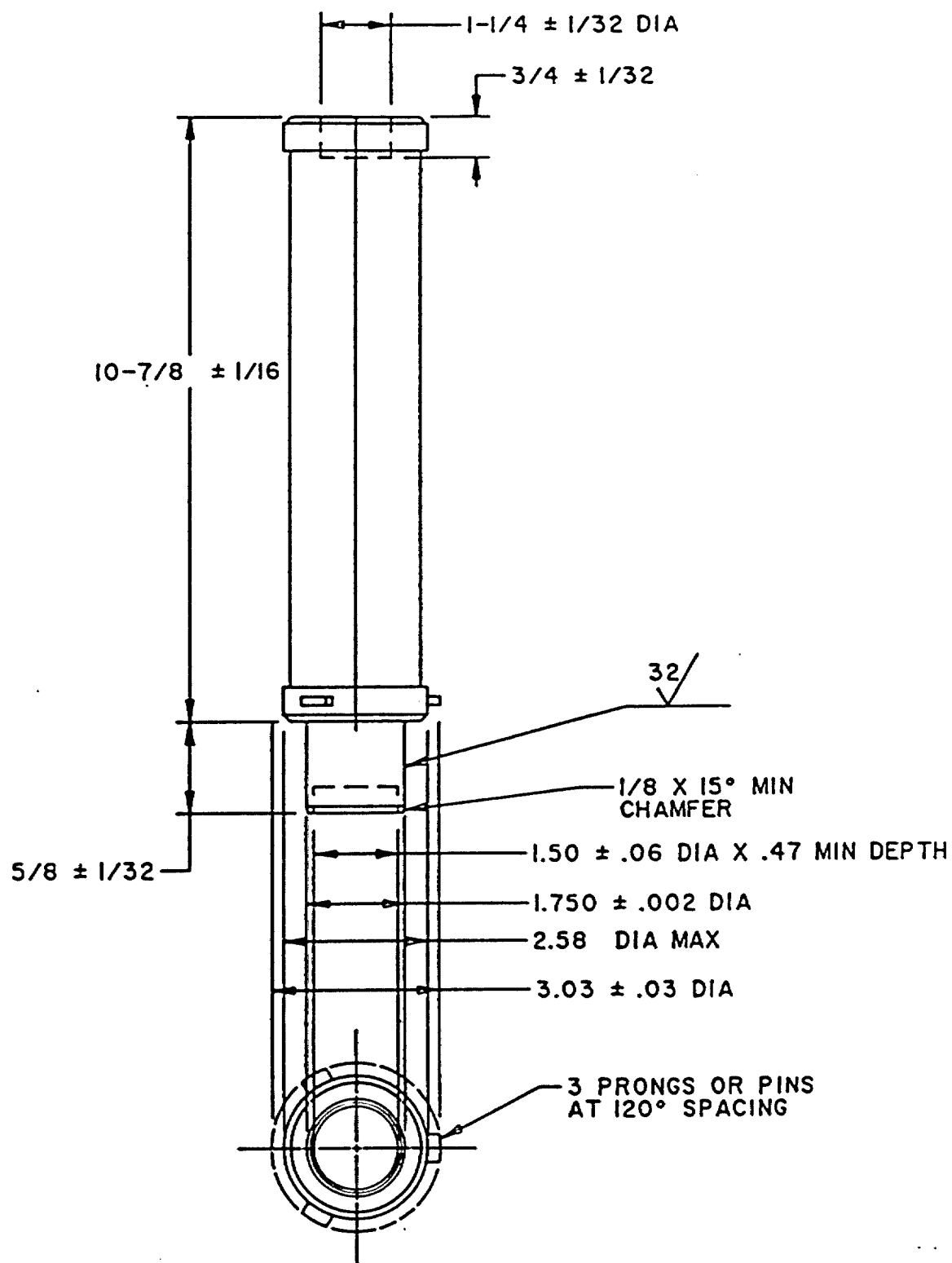
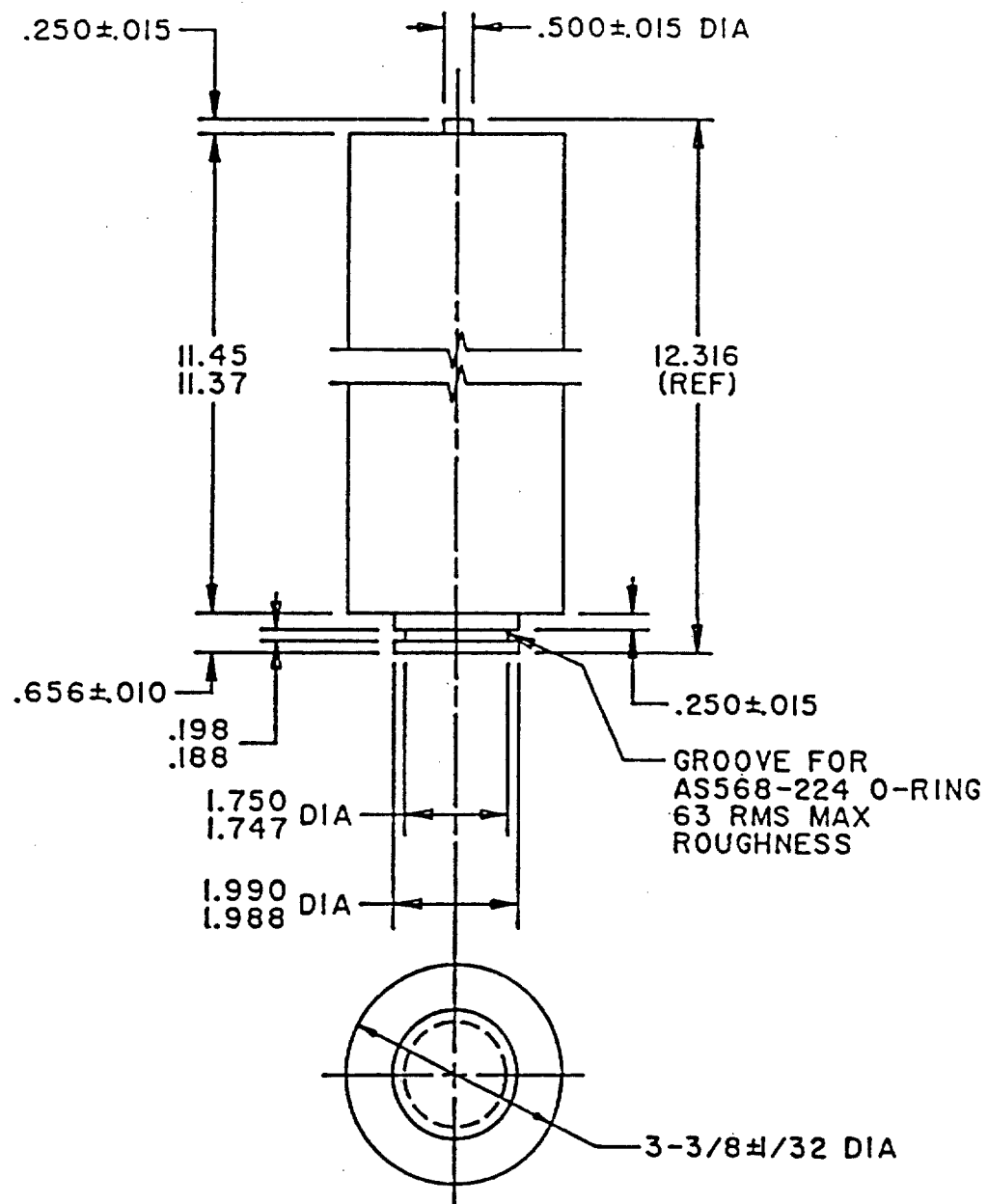
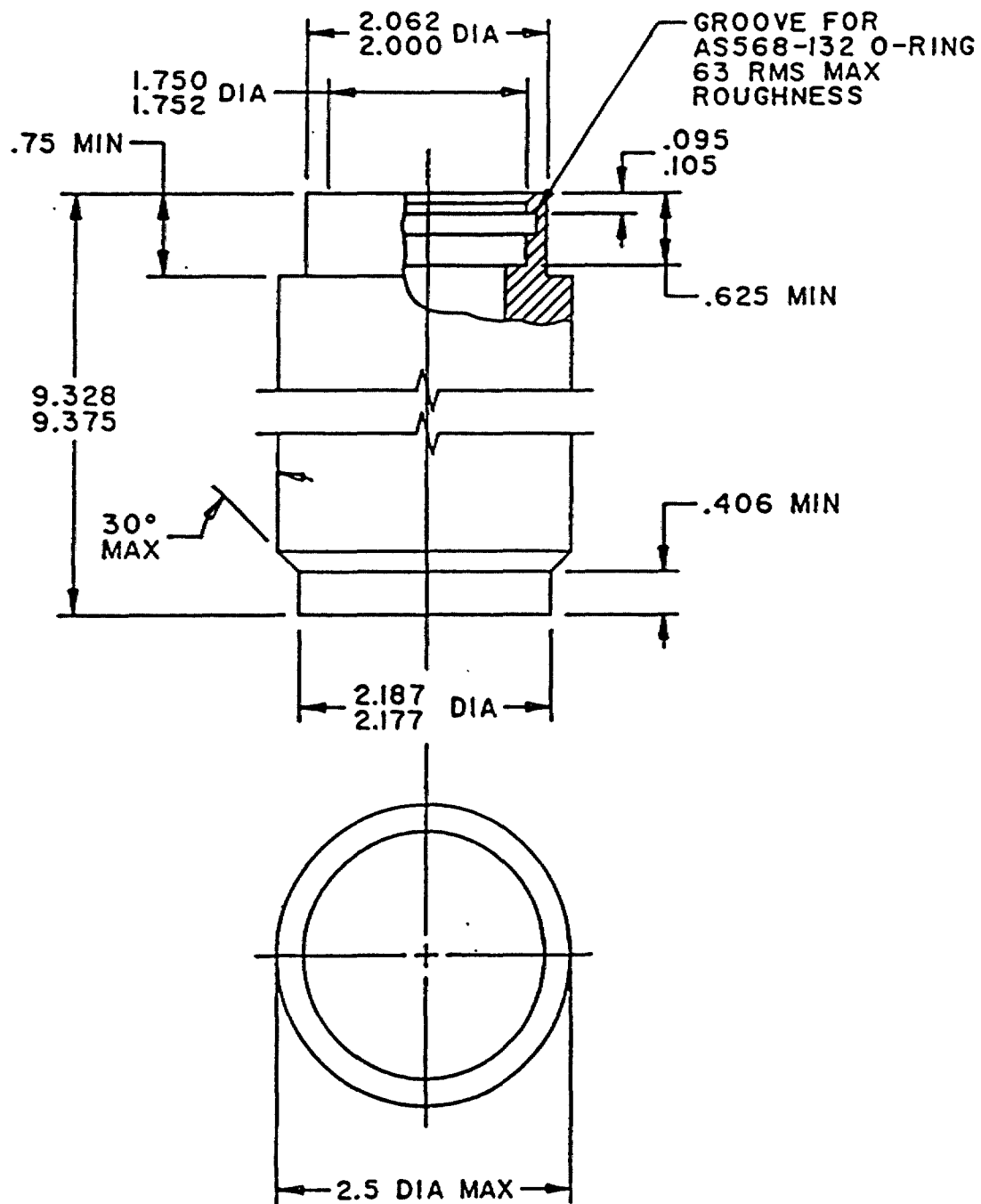


FIGURE 1. Filter elements dimensions, size A.

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FIGURE 2. Filter elements dimensions, size B.

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FIGURE 3. Filter elements dimensions, size C.

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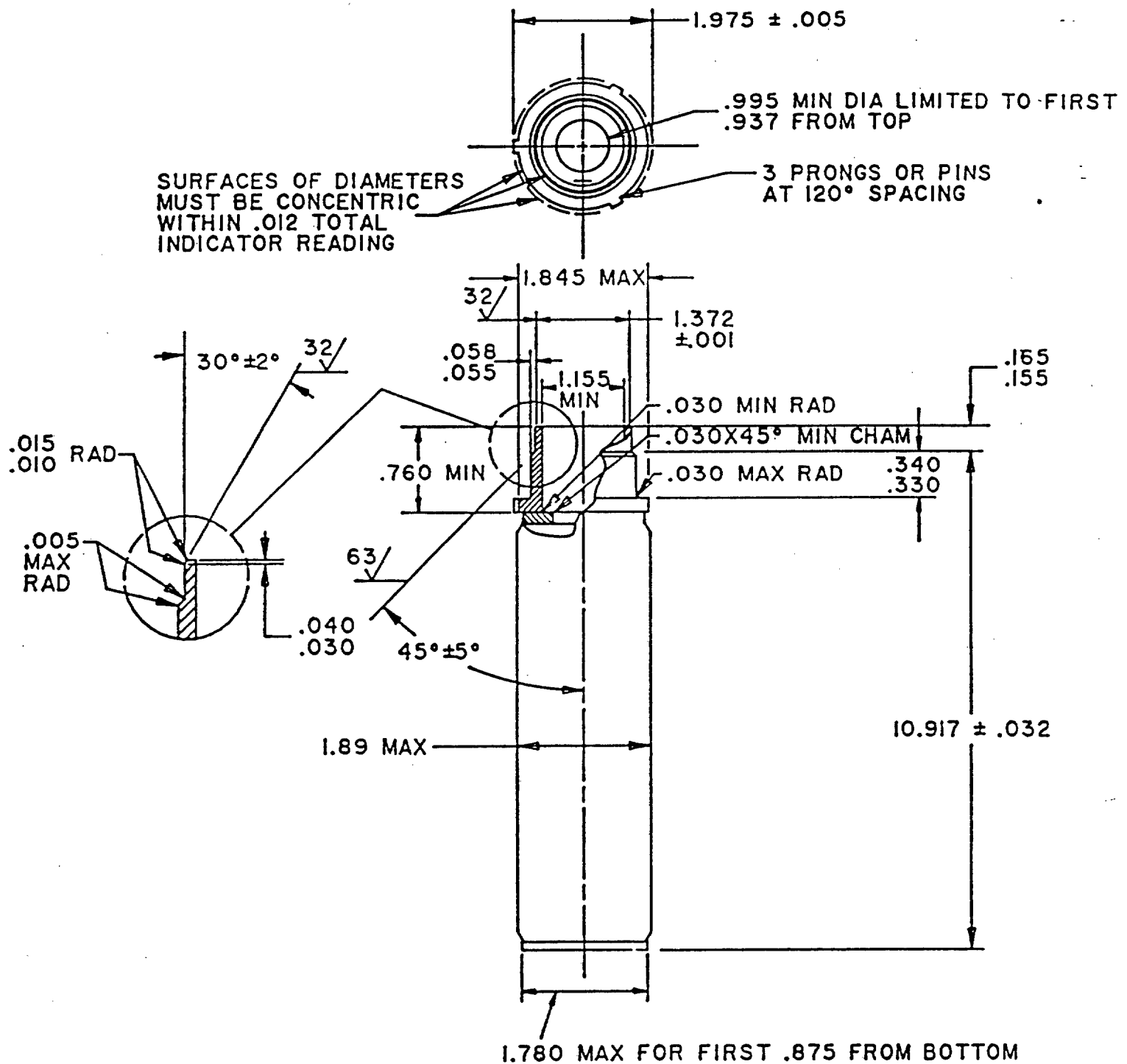


FIGURE 4. Filter elements dimensions, size D.