

	SURFACE VEHICLE RECOMMENDED PRACTICE	SAE J363 MAY2012
		Issued 1968-10 Stabilized 2012-05
		Superseding J363 SEP1994
Filter-Base Mounting		

RATIONALE

This document has been determined to contain basic and stable technology which will not be changing in the foreseeable future.

STABILIZED NOTICE

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Foreword—This reaffirmed document has been changed only to reflect the new SAE Technical Standards Board Format.

1. Scope—This SAE Recommended Practice identifies the necessary dimensional characteristics of filter-base mounting configurations to accept the more commonly used lubricating oil and diesel fuel spin-on filters. This SAE document is basically equivalent to the ISO 6415-1981 and ISO 7654-1983 except for differences detailed in the Rationale.

2. References

2.1 Applicable Publications—The following publications form a part of this specification to the extent specified herein.

2.1.1 ISO PUBLICATIONS—Available from ANSI, 11 West 42nd Street, New York, NY 10036-8002.

ISO 6415-1981—Internal combustion engines—Spin-on filters for lubricating oil—Dimensions

ISO 7654-1983—Compression ignition engines—Spin-on fuel filters—Mounting and connecting dimensions

3. General Information

3.1 Lubricating Oil Spin-On Filter-Base Mounting—Figure 1 is a composite drawing which outlines the base mounting and clearance requirements for spin-on oil filters.

Table 1 lists the insert thread size and gasket seal diameters of the base mounts for the more commonly used spin-on oil filters.

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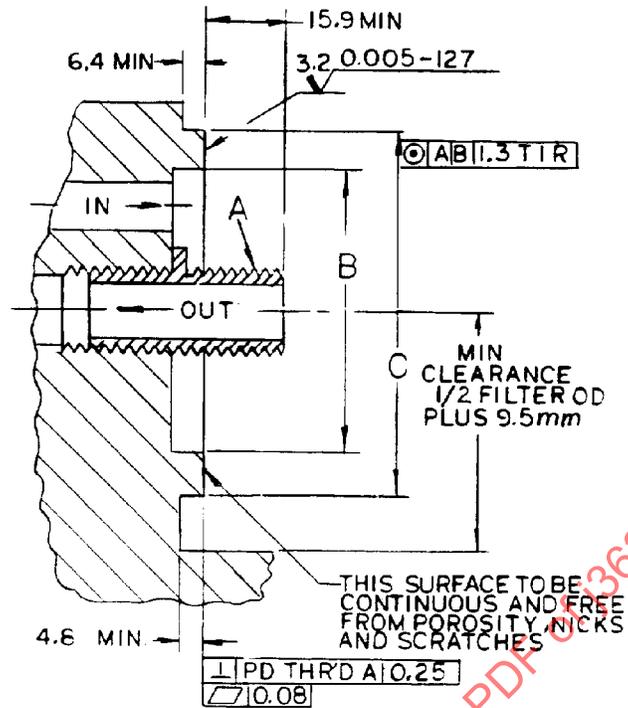


FIGURE 1—LUBRICATING OIL SPIN-ON FILTER-BASE MOUNTING

TABLE 1—LUBRICATING OIL FILTER-BASE MOUNTING DIMENSIONS

A Insert Thread Sizes	B ID mm	C OD mm
* 5/8-18 UNF2A	59.0 ± 1.0	79.0 ± 1.0
* 3/4-16 UNF2A	59.0 ± 1.0	79.0 ± 1.0
* 13/16-16 UN2A	59.0 ± 1.0	79.0 ± 1.0
13/16-16 UN2A	75.0 ± 1.0	93.0 ± 1.0
* 7/8-16 UNF2A	59.0 ± 1.0	79.0 ± 1.0
1-12 UNF2A	59.0 ± 1.0	79.0 ± 1.0
* 1/16 UN2A	59.0 ± 1.0	79.0 ± 1.0
* 1 1/8-16 UN2A	87.0 ± 1.0	113.0 ± 1.0
1 1/2-12 UNF2A	87.0 ± 1.0	113.0 ± 1.0
* 1 1/2-16 UN2A	87.0 ± 1.0	113.0 ± 1.0
M-18 X 1.5-6H	59.0 ± 1.0	79.0 ± 1.0
* M-20 X 1.5-6H	59.0 ± 1.0	79.0 ± 1.0
M-20 X 1.5-6H	75.0 ± 1.0	93.0 ± 1.0

For equipment protection, a bypass valve or equivalent device must be incorporated into the full flow lubricating oil system. If a bypass valve is to be located into the filter-mounting base, it should operate at one of the following recommended pressures.

- 60 kPa \pm 10 kPa
- 90 kPa \pm 10 kPa
- 140 kPa \pm 15 kPa
- 200 kPa \pm 20 kPa
- 250 kPa \pm 20 kPa

3.2 Diesel Fuel Spin-On Filter-Base Mounting—Figure 2 is a composite drawing which outlines the base mounting and clearance requirements for spin-on fuel filters. Optional methods of preventing fuel leakage by the insert threads may be provided by means of a radial seal boss Type E or a compression seal member type D as shown, respectively, in the upper and lower halves of the drawing. The insert is to be threaded full distance F plus at least one full thread.

Table 2 lists the insert thread size and gasket seal diameters of the base mounts for the more commonly used spin-on fuel filters.

NOTE— The insert thread sizes listed in Tables 1 and 2 which are recommended for use are those designated by an asterisk. Others listed are available but not recommended as standard.

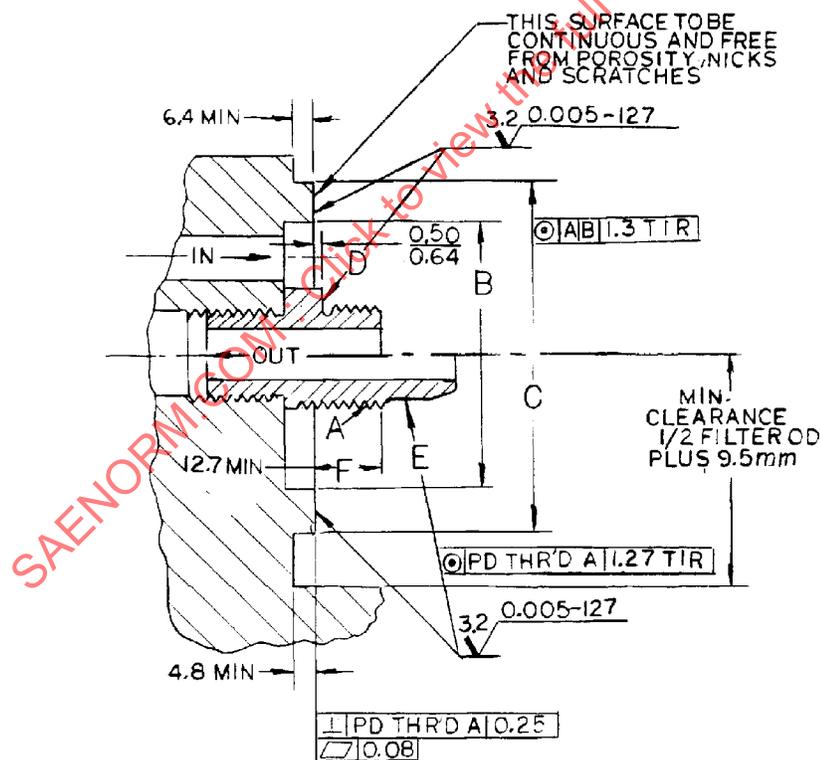


FIGURE 2—DIESEL FUEL SPIN-ON FILTER-BASE MOUNTING