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

Moteurs à combustion interne — Filtres à huiles vissés — Dimensions

Preview



Reference number
ISO 6415:1990(E)

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Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 6415 was prepared by Technical Committee ISO/TC 22, *Road vehicles*.

This second edition cancels and replaces the first edition (ISO 6415:1981), of which it constitutes a technical revision.

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

1 Scope

This International Standard specifies the essential dimensions necessary for interchangeability of spin-on filters of the full flow type for the filtration of lubricating oil for internal combustion engines. It also gives the designation and marking of these filters.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 68:1973, *ISO general purpose screw threads — Basic profile*.

ISO 261:1973, *ISO general purpose metric screw threads — General plan*.

ISO 965-1:1980, *ISO general purpose metric screw threads — Tolerances — Part 1: Principles and basic data*.

ISO 965-3:1980, *ISO general purpose metric screw threads — Tolerances — Part 3: Deviations for constructional threads*.

3 Requirements

3.1 Connection thread and sealing surface

NOTE 1 The use of filters with unified threads is discouraged to avoid the danger of mis-matching.

The dimensions of the male and female connection threads and of the sealing surface are specified in figure 1 and table 1. The thread shall conform to ISO 68, ISO 261, ISO 965-1 and ISO 965-3.

The sealing surface shall be continuous and free from porosity, scratches and nicks.

Dimensions in millimetres unless specified otherwise

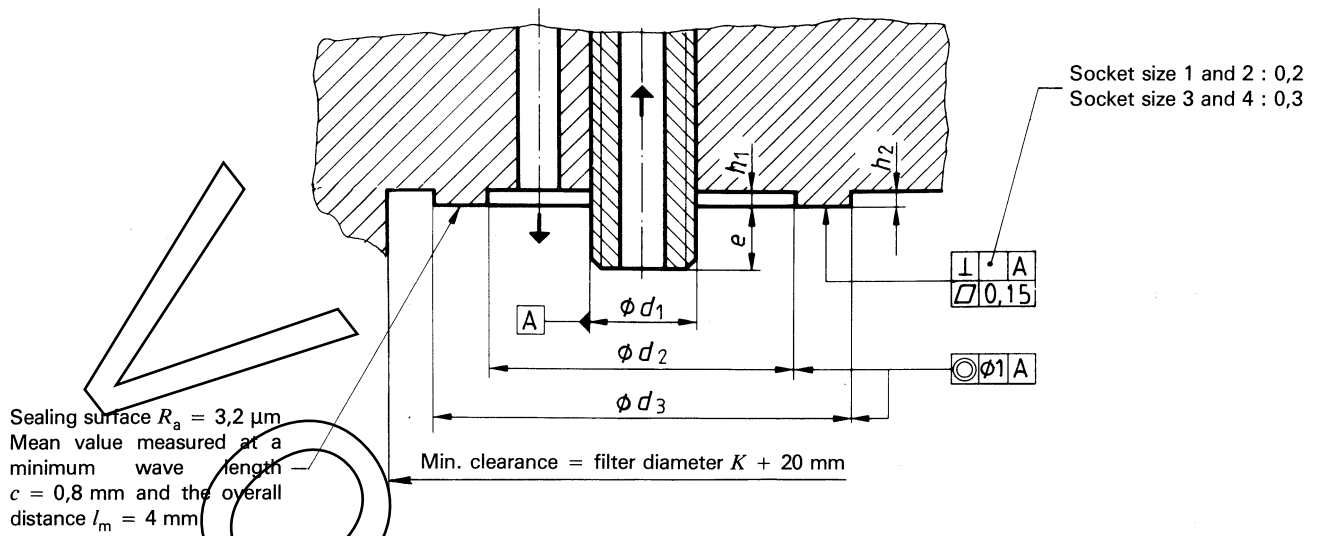


Table 1 — Dimensions of connection threads and sealing surface

Values in millimetres

Socket size	Connection thread				Sealing surface			
	d_1	Tolerance stud thread	filter thread	e min. max.	d_2 max.	d_3 min.	h_1 min.	h_2 min.
1	M20 × 1,5	6g	6H	14 20	58	76	2	2
2	M26 × 2	6g	6H	14 20	58	76	2	2
3	M30 × 2	6g	6H	16 22	90	113	4	2
4	M38 × 2	6g	6H	16 22	90	113	4	2

NOTE — M16 × 1,5 and M24 × 1,5 have been reserved for spin-on fuel filters.

1) The stud shall be threaded over the full distance e . When the filter has been tightened, at least three full threads shall be in contact.

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