
**Measurement of conductive liquid flow in
closed conduits — Flanged electromagnetic
flowmeters — Overall length**

*Mesurage du débit des liquides conducteurs dans les conduites fermées —
Débitmètres électromagnétiques à brides — Longueur d'installation*

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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 13359 was prepared by Technical Committee ISO/TC 30, *Measurement of fluid flow in closed conduits*, Subcommittee SC 5, *Velocity-based methods*.

Annex A of this International Standard is for information only.

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Measurement of conductive liquid flow in closed conduits — Flanged electromagnetic flowmeters — Overall length

1 Scope

This International Standard specifies overall length (laylength face to face) for flanged electromagnetic flowmeters.

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 4006:1991, *Measurement of fluid flow in closed conduits — Vocabulary and symbols*

ISO 6817:1992, *Measurement of conductive liquid flow in closed conduits — Method using electromagnetic flowmeters*

ISO 9104:1991, *Measurement of fluid flow in closed conduits — Methods of evaluating the performance of electromagnetic flow-meters for liquids*

3 Definitions and symbols

For the purposes of this International Standard, the definitions and symbols given in ISO 4006, ISO 6817 and ISO 9104 apply.

4 Installation dimensions

4.1 Meter size

Meter size is designated by the nominal diameter (DN) of the flange.

4.2 Overall length

For each meter size designation, there is a corresponding fixed overall length L (for definition see figure 1) and tolerance both as specified in table 1.

The length L includes lining if it covers the flange face but excludes accessories such as gaskets, grounding and protection rings.

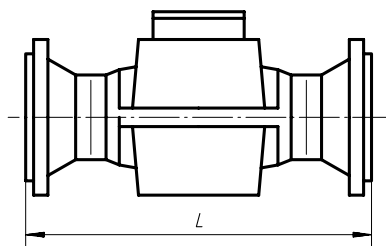


Figure 1 — Definition of *L*

Table 1

Meter size DN	Meter overall length	
	<i>L</i> mm	tolerance mm
15	200	-0 -3
20		
25		
32		
40		
50		
65		
80		
100	250	-0 -5
125		
150	300	
200	350	
250	450	
300	500	
350	550	
400	600	

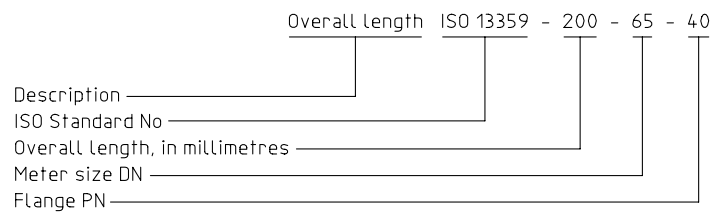
4.3 Flange connection

Preferably flange mating dimensions should comply with ISO 7005-1.

The manufacturer shall provide a reasonable clearance between the rear face of the flange and the meter housing for installation and removal.

5 Designation

The flowmeter shall be designated by the following information, in the order given.



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Annex A
(informative)

Bibliography

[1] ISO 7005-1:1992, *Metallic flanges — Part 1: Steel flanges*.

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Descriptors: liquid flow, pipe flow, flow measurement, electromagnetic equipment, flowmeters, dimensions, overall dimensions, length, designation, flange connections.

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