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Third edition  
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## **Measurement of fluid flow in closed conduits — Guidelines on the effects of flow pulsations on flow-measurement instruments**

*Mesure de débit des fluides dans les conduites fermées — Lignes directrices relatives aux effets de pulsations d'écoulement sur les instruments de mesure de débit*



Reference number  
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## Contents

	Page
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative reference</b> .....	<b>1</b>
<b>3 Definitions</b> .....	<b>1</b>
<b>4 Symbols and subscripts</b> .....	<b>2</b>
<b>4.1 Symbols</b> .....	<b>2</b>
<b>4.2 Subscripts</b> .....	<b>4</b>
<b>5 Description and detection of pulsating flow</b> .....	<b>4</b>
<b>5.1 Nature of pipe flows</b> .....	<b>4</b>
<b>5.2 Threshold between steady and pulsating flow</b> .....	<b>4</b>
<b>5.3 Causes of pulsation</b> .....	<b>6</b>
<b>5.4 Occurrence of pulsating flow conditions in industrial and laboratory flowmeter installations</b> .....	<b>6</b>
<b>5.5 Detection of pulsation and determination of frequency, amplitude and waveform</b> .....	<b>6</b>
<b>6 Measurement of the mean flowrate of a pulsating flow</b> .....	<b>9</b>
<b>6.1 Orifice plate, nozzle, and Venturi tube</b> .....	<b>9</b>
<b>6.2 Turbine flowmeters</b> .....	<b>19</b>
<b>6.3 Vortex flowmeters</b> .....	<b>23</b>
<b>Annex A (informative) Orifice plates, nozzles and Venturis — Theoretical considerations</b> .....	<b>25</b>
<b>Annex B (informative) Orifice plates, nozzles and Venturis — Pulsation damping criteria</b> .....	<b>31</b>
<b>Annex C (informative) Turbine flowmeters — Theoretical background and experimental data</b> .....	<b>36</b>
<b>Annex D (informative) Bibliography</b> .....	<b>39</b>

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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.

The main task of technical committees is to prepare International Standards, but in exceptional circumstances a technical committee may propose the publication of a Technical Report of one of the following types:

- type 1, when the required support cannot be obtained for the publication of an International Standard, despite repeated efforts;
- type 2, when the subject is still under technical development or where for any other reason there is the future but not immediate possibility of an agreement on an International Standard;
- type 3, when a technical committee has collected data of a different kind from that which is normally published as an International Standard ("state of the art", for example).

Technical Reports of types 1 and 2 are subject to review within three years of publication to decide whether they can be transformed into International Standards. Technical Reports of type 3 do not necessarily have to be reviewed until the data they provide are considered to be no longer valid or useful.

ISO/TR 3313, which is a Technical Report of type 2, was prepared by Technical Committee ISO/TC 30, *Measurement of fluid flow in closed conduits*, Subcommittee SC 2, *Pressure differential devices*.

This document is being issued in the Technical Report (type 2) series of publications (according to subclause G.3.2.2 of part 1 of ISO/IEC Directives, 1995) as a "prospective standard for provisional application" in the field of fluid flow in closed conduits because there is an urgent need for guidance on how standards in this field should be used to meet an identified need.

This document is not regarded as an "International Standard". It is proposed for provisional application so that information and experience of its use in practice may be gathered. Comments on the content of this document should be sent to the ISO Central Secretariat.

A review of this Technical Report (type 2) will be carried out not later than three years after its publication with the options of: extension for another three years; conversion into an International Standard; or withdrawal.

This third edition cancels and replaces the second edition (ISO/TR 3313:1992), of which it constitutes a technical revision.

Annexes A to D of this Technical Report are for information only.