PROFORMA FOR ADOPTION OF DRAFT INDIAN STANDARD **BUREAU OF INDIAN STANDARDS**

Subject: Approval of Draft Indian Standard

SI. No.	Doc. No.	IS No.	TITLE	
1	WRD/01/20347	IS 14973 : 2024 ISO 3966 : 2020	Measurement of Fluid Flow in Closed Conduits — Velocity Area Method Using Pitot Static Tube (Second Revision)	
2	WRD/01/22080	IS 14615 (Part 2) : 2024 ISO 5167-2 : 2022	Measurement of Fluid Flow by Means of Pressure Differential Devices Inserted in Circular Cross Section Conduits Running Full Part 2 Orifice Plates (First Revision)	
3	WRD/01/22063	IS 14615 (Part 1) : 2024 ISO 5167-1 : 2022	Measurement of Fluid Flow by Means of Pressure Differential Devices Inserted in Circular Cross Section Conduits Running Part 1 General Principles and Requirements (Second Revision)	

In accordance with Part II, sub-rule (2) of rule 22 of BIS Rules 2018, I enclose a copy of the draft Indian Standard mentioned above finalized by the Sectional Committee WRD 01 and its Chairperson, in the light of comments received from important stake holders.

It is requested that this note and its enclosures may be returned to this office as early as possible recording your approval of the above draft Indian Standard.

Encl.: As above.

Chairperson, Water Resources Division Council BIS U.O. No. WRD 01/T-40, T-87 and T-37 Dated:

APPROVED

Dashyant Prajapati Scientist E/ Director and Head (Water Resources Department)

प्रवादान भुजमाला PUSHYANTPRAJAPATI वैज्ञानिक 'इं / निदेशक एवं प्रमुख (जल संसाधन विभाग) Sc. 'E' Director & Head (Water Resources Deptt.) ज्यान्य स्थानिक प्रवादानिक विवादण मंत्रालय स्थानिक विवादण मंत्रालय स्थानिक विवादण मंत्रालय Ministry of Consumer Affairs, Food & Public Distribution भारत सरकार/Government of India 9, बहातुस्थाह जफर मार्ग, नई दिल्ली-110002 9, Bahadur Shah Zafar Marg, Now Delhi-110002

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IS 14615 (Part 1): 2024 ISO 5167-1: 2022

पूर्ण भरे बहाव वाली वृत्ताकार अनुप्रस्थ काट की वाहिकाओं में विभेदक दबाव उपकरणों के माध्यम से द्रव प्रवाह मापन

भाग 1 सिद्धांत एवं अपेक्षाएं

(दूसरा पुनरीक्षण)

Measurement of Fluid Flow by Means of Pressure Differential Devices Inserted in Circular Cross Section Conduits Running

Part 1 General Principles and Requirements

(Second Revision)

ICS 17.120.10

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भारतीय मानक ब्यूरो

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NATIONAL FOREWORD

This standard (Part 1) (Second Revision) which is identical to ISO 5167-1: 2022 'Measurement of fluid flow by means of pressure differential devices inserted in circular cross-section conduits running full — Part 1: General principles and requirements (Second Revision)' issued by the International Organization for Standardization (ISO). This standard was adopted by the Bureau of Indian Standards on the recommendation of the Hydrometry Sectional Committee and was approved by the Water Resources Division Council.

This standard was first published in 1999, based on ISO 5167-1: 1991. The first revision was brought out in 2018 to align it with the latest version of ISO 5167-1: 2003. This second revision has been undertaken to align it with the latest version of ISO 5167-1: 2022.

This standard is published in five parts. Other parts in this series are:

Part 2 Orifice plates

Part 3 Nozzle and venturi nozzles

Part 4 Venturi tubes

Part 5 Cone meters

The text of ISO standard has been approved as suitable for publication as an Indian Standard without deviations. Certain conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard; and
- b) Comma (,) has been used as a decimal marker, while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference to certain International Standards appears for which Indian Standards also exist. The corresponding Indian Standards, which are to be substituted in their respective places, are listed below along with their degree of equivalence for the editions indicated:

International Standard	Corresponding Indian Standard	Degree of Equivalence
ISO 5167-2 Measurement of fluid flow by means of pressure differential devices inserted in circular cross-section conduits running full — Part 2: Orifice plates	IS 14615 (Part 2): 2018/ISO 5167-2: 2003 Measurement of fluid flow by means of pressure differential devices inserted in circular cross section conduits running full: Part 2 Orifice plates	Identical
ISO 5167-3 Measurement of fluid flow by means of pressure differential devices inserted in circular cross-section conduits running full — Part 3: Nozzles and venturi nozzles	IS 14615 (Part 3): 2024/ISO 5167-3: 2022 Measurement of fluid flow by means of pressure differential devices inserted in circular cross section conduits running full: Part 3 Nozzles and venturi nozzles	Identical
ISO 5167-4 Measurement of fluid flow by means of pressure differential devices inserted in circular cross-section conduits running full — Part 4: Venturi tubes	IS 14615 (Part 4): 2018/ISO 5167-4: 2003 Measurement of fluid flow by means of pressure differential devices inserted in circular cross section conduits running full: Part 4 Venturi tubes	Identical

(Continued from second cover)

International Standard

Corresponding Indian Standard

Degree of Equivalence

ISO 5168 : 2005 Measurement of fluid flow — Procedures for the evaluation of uncertainties

IS 17288 : 2021 Measurement of Fluid flow — Procedures for evaluation of uncertainties

Identical

The Committee responsible for the preparation of this standard has reviewed the provisions of the following ISO/IEC standard and has decided that they are acceptable for use in conjunction with this standard:

International Standard

Title

ISO 4006: 1991

Measurement of fluid flow in closed conduits - Vocabulary and

symbols

ISO/IEC Guide 98-3

Uncertainty of measurement — Part 3: Guide to the expression of

uncertainty in measurement (GUM: 1995)

For the purpose of determining whether a particular requirement of this standard is complied with the final value, observed or calculated expressing the result of a test or analysis shall be rounded off in accordance with IS 2: 2022 'Rules for rounding off numerical values (second revision)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.