



Document: **ISO/TC 30/SC 7 N 422**

Secretariat of ISO/TC 30/SC 7
Flow measurement in closed conduits
- Volume methods including water meters

Date: 29 February 2012

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To the Members of ISO/TC 30/SC 7

Dear Member,

ISO/CD 4064-3 - OIML R 49-3 Water meters intended for the metering of cold potable water and hot water — Part 3: Test report format (N 406)

- Resolution of comments

Further to document N 413, in which the result of voting and comments on the above document were presented, please find attached the compilation of comments with the responses of the Joint Working Group following its meeting in Gaithersburg in November 2011.

The draft has been duly revised and will now proceed to issue as ISO/DIS 4064-3 for enquiry. Corresponding ballots will take place in OIML and CEN.

Yours sincerely,

D J Michael
for the Secretariat of ISO/TC 30/SC 7

Template for comments and secretariat observations

Date: 29/02/12

Document: ISO CD 4064-3 – OIML R 49-3 – Comments and responses

1	2	(3)	4	5	(6)	(7)
MB ¹	Clause No./ Subclause No./ Annex/Figure/Table (e.g. 3.1, Table 2)	Paragraph/ List item/ Note (e.g. Note 2)	Type of comment ²	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
ID	General		TE	The writing of reference to OIML R 49-1, R 49-2 should be changed as this standards have been adopted to be ISO DIS 4064-1 and ISO DIS 4064-2.	ISO DIS 4064-1, ISO DIS 4064-2	Agreed in general. Through the drafting stages, ISO 4064 and R 49 s should both be referred to. Sections such as, e.g. the Introduction may need further work before publication.
ID	General		TE	The unit used for pressure is “bar”	International unit for pressure is “MPa”, while “bar” is used for national regulations which allow the use of “bar” unit	Agreed
JP			ge	We cannot accept CD 4064-3 as it is because there are a lot of uses of non-SI units only and inconsistencies with DIS 4064-2.		Non-SI units will be addressed, as will inconsistencies with DIS 4064-2.
JP	General and editorial		ge	The document numbers “ R 49-1 ” and “ R 49-2 ” appeared in this draft document are ideally expressed as “ ISO 40064-1 / OIML R 49-1 ” and “ ISO 40064-2 / OIML R 49-2 ,” respectively. If all of these corrections are made, however, it would be space-consuming since there are too many such expressions. We therefore propose using the full expression only for the first time and using an abbreviation for the rest of the document as shown in the example opposite.	<i>Example: “.....ISO 40064-X/OIML R 49-X (abbreviated as ‘R49-X’ hereafter).....”</i>	Agreed
PL	ii and all even pages		ed	At the top of the pages appear sentence: "Error! Reference source not found".		Problem to be resolved in OIML draft.
PL	vi		ed	Section, which starts with the words "This publication - reference OIML R 49-3, Edition 2006..." - The years of edition and the year of		Agreed

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				approval are wrong. Now we have edition 2011 and the withdrawn edition is 2006.		
GB	Introduction	symbols	ed	It is not usual practice in a standard to list the symbols and abbreviations used in a standard in the Introduction. It is customary to give them in a separate clause, after the normative references, sometimes combined with the terms and definitions clause.	Move the symbols into Clause 3, with terms and definitions in 3.1 and symbols in 3.2.	Agreed.
GB	Introduction	Last para	ed	The last paragraph of the Introduction contains a requirement. The ISO/IEC Directives, Part 2, 6.1.4 specifies that the Introduction ‘shall not contain requirements’.	As the requirement and accompanying example are specific to Clause 4, move them to appear at the beginning of Clause 4.	Agreed. New 4.1 needed for this. To avoid extensive renumbering later in the text, existing 4.1 and 4.2 to be combined.
GB	Introduction	1 st para	ed	The word ‘mandatory’ implies that the OIML Certificate System for Measuring Instruments is a legislative requirement. If this is not the case and the intended meaning is that ISO 4064-3 is simply an essential part of the OIML Certificate System, i.e. its provisions have to be met in order for a certificate to be awarded, then ‘mandatory’ is an unsuitable word.	If the OIML Certificate System for Measuring Instruments is not a legislative requirement, replace ‘mandatory’ with ‘required’ or ‘essential’.	Agreed. ‘mandatory’ has been changed to ‘required’.
PE	header		ed	The headline is indicated: “ISO/CD 4064-3:2008” is it correct?		Will be corrected in DIS.
PE	Contents		ed	The word "page" is not aligned.		Agreed
JP	Contents	5.2 [5.3]	ed	R 49-2 should be corrected to ISO 4064-2/OIML R 49-2.		Agreed. See also General comment above.
JP	Contents	Annex A	ed	R 49-1 should be corrected to ISO 4064-1/OIML R		Agreed. See also General comment

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				49-1.		above.
GB	Clause 1	–	ed	‘Standard/Recommendation’ implies that ‘Recommendation’ is a type of document published by ISO. This is not the case. Types of documents published by ISO are defined in the ISO/IEC Directives, Part 2. Only ‘Standard’ is correct, as a type of document.	Delete ‘/Recommendation’.	Standard/Recommendation recognises that the document will be for both ISO and OIML. However, it will be changed to 'Part of ISO 4064/OIML R 49' for the Enquiry stage.
GB	Clause 2	–	ed	The second of the two standards is given as ISO 4064-1, when it should be ISO 4064-2.	Amend the second identifier to ISO 4064-2.	Agreed
DE	2		ed	The second document shall read "ISO 4064-2 – OIML R 49-2..."		Agreed
ID	2		ED	There is a miswriting of standard referred	ISO 4064-2 – OIML R 49-2 <i>Water meters intended for the metering of cold potable water and hot water— Part 2: Specification of test methods</i>	Agreed
JP	2 (p.1)	Paragraph 3	ed	"ISO 4064-1 – OIML R 49-1" should be corrected to "ISO 4064-2 – OIML R 49-2".		Agreed
ID	3	Para 2	ED	The term "Type evaluation report" is not included in the "Contents" and has no clear meaning	The sentence" I. Type evaluation report " should be deleted	Agreed
GB	4.1	Table 1	ed	In the penultimate row of Table 1, the word ‘temporary’ is grammatically incorrect and should read ‘temporarily’.	Replace ‘temporary’ with ‘temporarily’.	Agreed
PE	4.1.5 ; 4.1.6 ; 4.4.1 ; 4.4.2.1 ; 4.5.9.2 ; 4.5.9.3		ed	The symbol "<" has been omitted	Use the symbol: <	This problem has arisen with the pdf conversion. Future conversions will be checked.

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JP	4.1.3 (p.4)		ed	<p>“R 49-2” should be corrected to “ISO 4064-2/OIML R 49-2”.</p> <p>This comment is commonly applied to a lot of R 49-1 and R 49-2 on almost all pages from p.5 through p.67. On p.25, for example, there are 7 corresponding items in only 10 lines.</p> <p>Propose to discuss the necessity of such precise descriptions in each corresponding item applied to Part 2 and Part 3.</p>		Agreed
JP	4.1.4 (p.5); 4.1.5 (p.6); 4.1.8 (p.8); 4.1.11 (p.9)		ed	Volt is not a symbol of unit. It should be replaced with V.	Change Volt to V.	Agreed
JP	4.1.4 - 4.1.11		ed	In the item “Power supply”, the unit “ <u>Volt</u> ” should be replaced with “ <u>V</u> ”, which is the symbol of SI unit. The same replacement is requested for all “ <u>Volt</u> ” in pp. 5-9.		Agreed
GB	4.2	–	ed	<p>The ISO/IEC Directives, Part 2, 6.3.8 specify that ‘An annex’s normative status shall be made clear by the way in which it is referred to in the text’.</p> <p>In 4.2, the reference to Annex A is written in an informative way.</p>	Amend the sentence so that Annex A’s normative status is made clear. An example of a correct, normative reference to an annex is given in 4.3.	Agreed
GB	4.3	–	ed	The form in Annex B does not have a column to indicate the manufacturer.	Either delete ‘Manufacturer’ from the list in 4.3 or amend the form in Annex B to include a column for it.	Agreed. Annex B has been amended
GB	4.4.1	5.1.3	ed	‘non – resettable’ should be ‘non-resettable’, i.e. hyphenated. An en dash with a space either side has been given in place of a hyphen, which is incorrect.	Correct to: ‘non-resettable’.	Agreed

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GB	4.4.1	6.6.2 (k)	ed	Is ‘?P’ correct for pressure loss class? It occurs in various places throughout the rest of the standard but the use of a question mark suggests that part of the symbol may have corrupted.	Check and, if necessary, amend the symbol throughout the standard, as appropriate.	pdf conversion problem. Future conversions to be checked.
GB	4.4.1	6.8.2.2	ed	The ISO/IEC Directives, Part 2, Annex H specify that the word ‘may’ is to be used in standards to express permissibility rather than possibility. For the most part, ‘may’ would appear to have been used correctly in this standard but in the row for 6.8.2.2 b), ‘may’ has been used, incorrectly, in the sense of possibility.	Replace ‘may’ with ‘can’ wherever it has been incorrectly used to express possibility rather than permission.	Agreed and changed here.
ID	4.4.1	<i>Function of the indicating device</i> (all rows of 6.7.1.1)	TE	It will be difficult to justify whether the examination result is positive or negative as there is no parameter regarding it.	There is no need of justification	No change agreed.
ID	4.4.1	<i>Indicating range</i> (6.7.1.3 row 2)	TE	The writing should be consistent with ISO DIS 4064-1 Section 6.7.1.3 Indicating range, Table 5 — Indicating range of a water meter	For $Q3 \leq 6.3 \text{ m}^3/\text{h}$, minimum indicating range = 9 999 m ³	It is now consistent with Part 1.
ID	4.4.1	<i>Indicating range</i> (6.7.1.3 row 3)	TE	The writing should be consistent with ISO DIS 4064-1 Section 6.7.1.3 Indicating range, Table 5 — Indicating range of a water meter	$6.3 \text{ m}^3/\text{h} < Q3 \leq 63 \text{ m}^3/\text{h}$, minimum indicating range= 99 999 m ³	It is now consistent with Part 1.

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ID	4.4.1	<i>Indicating range</i> (6.7.1.3 row 4)	TE	The writing should be consistent with ISO DIS 4064-1 Section 6.7.1.3 Indicating range, Table 5 — Indicating range of a water meter	63 m3/h < Q3 ≤ 630 m3/h, minimum indicating range = 999 999 m3	It is now consistent with Part 1.
ID	4.4.1	<i>Indicating range</i> (6.7.1.3 row 5)	TE	The writing should be consistent with ISO DIS 4064-1 Section 6.7.1.3 Indicating range, Table 5 — Indicating range of a water meter	630 m3/h < Q3 ≤ 6300 m3/h, minimum indicating range = 9 999 999 m3	It is now consistent with Part 1.
ID	4.4.1	6.6.2 (k)	ED	There is miswriting of “? P63”	It should be changed to ? P 63	pdf conversion problem. Future conversions to be checked.
ID	4.4.1	6.6.2 (h)	TE	The nominal diameter is not = 500 mm	The sentence should be changed into : “The maximum admissible pressure (MAP) if it exceeds 1 MPa (10 bar) or 0.6 MPa (6 bar) for nominal diameter DN ≥ 500 mm.”	pdf conversion problem. Future conversions to be checked.
GB	4.4.1, 4.4.2	—	ed	There are rows in the forms given in 4.4.1–4.4.2 that contain detailed requirements, some of them lists (e.g. 4.4.2, 7.2.3.1). With multiple sub-requirements in one row, it is unclear how the form should be completed – should one cross be placed in the third or fourth column if all the sub-requirements are met or is the user expected to place a cross against each sub-requirement, as appropriate?	If the user is expected to place a cross against each sub-requirement in rows containing multiple requirements, it would be better to split these rows into multiple rows within each numbered section, one row for each ‘sub’ requirement, from the second to the fifth columns. This would make the form more intuitive and easier to complete. If the intention is that just one cross shall be placed against each row, this should be explained at the beginning of Clause	No change agreed

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					4.	
JP	4.4.1/6.7.1.4 (p.12)		ed	Title “Function of the indicating device” is wrong.	Colour coding for indicating device	Agreed.
JP	4.4.1/6.3.2.1 (p.13)		ed	The number 6.3.2.1 is wrong.	6.7.3.2.1	Agreed
GB	4.4.2	4.2.6	ed	The flowrate symbol here in the row for 4.2.6 is not presented correctly. Should this be Q_3 as in the row for 6.5?	Amend the symbol accordingly.	Correct in mine.
ID	4.4.2	Endurance tests (7.2.5.2)	TE	The notations are not in line with ISO DIS 4064-1 section 7.2.5.1 and 7.2.5.2	It should be changed to be in line with ISO DIS 4064-1 Section 7.2.5.1 dan 7.2.5.2	Not clear what the problem is.
ID	4.4.2	Endurance tests (7.2.5.1)	TE	There are miswriting which can caused in miscalculation : “variation in the error curve shall not exceed 2% for flowrates in the lower zone ($Q_1 = Q < Q_2$) and 1% for flowrates in the upper zone ($Q_2 = Q = Q_4$)”.	The sentence should be cnaged to be “The variation in the error curve shall not exceed 2% for flowrates in the lower zone ($Q_1 \leq Q < Q_2$) and 1% for flowrates in the upper zone ($Q_2 \leq Q \leq Q_4$)”.	pdf conversion problem. Future conversions to be checked.
GB	4.4.2.1	7.2.5.1	ed	Two of the ‘Q’ symbols in the row for 7.2.5.1 are not presented correctly.	Amend the symbols accordingly.	pdf conversion problem. Future conversions to be checked.
JP	4.4.2.2 (p.21)	Between A.5.5 and A.5.7	ed	Mechanical shock A.5.6 is missing.	Add as following: Mechanical shock A.5.6 To verify compliance with the provision in 5.1.1 under conditions of mechanical shocks (see ISO 4064-2/OIML R 49-2, 8.7)	Agreed
JP	4.5.1 (p.22)		te	The preferred unit of pressure should be MPa but not bar. If bar is needed, it should be in parentheses following to MPa. There are a lot of corresponding items on almost all pages from p.24 through p.65 (except for pp. 26, 34,	Change bar to MPa.	Agreed.

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				53, 55, 57, 62 and 64).		
JP	4.5.1 4.5.3 – 5.2		ge	The use of SI units is recommended in OIML documents. Therefore, “MPa” should be used as the unit of pressure. If necessary, “bar” should be in parentheses following to MPa. We strongly request to use “MPa” in pp. 24-65 (except for pp. 26, 34, 53, 55, 57, 62 and 64).		Agreed.
ID	4.5.2	All Form	TE	Volume measures/weighbridge used:..... (not followed by measurement unit)	It should be followed by measurement unit : m ³ or gram.	Agreed
ID	4.5.2 [4.5.3]	All Form	ED	The notation Q () is never been used in OIML R 49-1	We request explanation in why the notation Q () is used, and why the notation is not written in Q (m ³ /h)	Why not just Q? Change not made yet.
DE	4.5.4		te	The tables proposed for the interchange test are not satisfactory for the purpose of documenting the related test results. We need one table for the testing of a reference meter the interchange test can be compared to, plus tables for the interchange itself. As a matter of principle we would like to have more flexibility and practicability on the test report format in order to integrate it better into the test procedures. We would like to have for example an automatic calculation of the error. Word is not flexible enough in that respect, so Excel should be at least an accepted alternative.	Modified tables for the interchange test section and permission to apply Excel on the whole test report format. Examples of our proposals to be presented during the next meeting of the Joint Working Group during November 2011.	CO to provide, I think.
JP	4.5.5 (p.28)		ed	“water” is missing in the title of the latter half	Overload water temperature tests	Agreed
JP	4.5.7 (p.30)		ed	“Flow reversal test” should be corrected to “Reverse	Change Flow reversal test to Reverse flow	Agreed

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				flow test" according to section 7.7 of DIS 4064-2.	test.	
PE	4.5.8		ed	In the box of pressure loss is indicated: ?P ₁	Use the symbol: Δ	pdf conversion problem. Future conversions to be checked.
PE	4.5.9	Fig. 1	ed	The figure is blurred		Improved figure to be provided.
JP	4.5.9.1 (p.35)		ed	Clause number 4.5.9.1 should be corrected to 4.5.10. Because this test is different from the form er test 4.5.9 Flow reversal test.	Change 4.5.9.1 to 4.5.10.	Agreed
JP	4.5.9.2 (p.35)		ed	Clause number 4.5.9.2 should be corrected to 4.5.10.1 by the same reason above.	Change 4.5.9.2 to 4.5.10.1.	Agreed
JP	4.5.9.3 (p.37)		ed	Clause number 4.5.9.3 should be corrected to 4.5.10.2 by the same reason above.	Change 4.5.9.3 to 4.5.10.2.	Agreed
JP	4.5.9.4 (p.39)		ed	Clause number 4.5.9.4 should be corrected to 4.5.10.3 by the same reason above.	Change 4.5.9.4 to 4.5.10.3.	Agreed
GB	4.5.10	–	ed	In the first column of the last part of the table, the word ‘optiona’ is given in brackets. It would appear that this should read ‘optional’ or, perhaps, ‘option a’.	Amend as necessary.	Agreed
JP	4.5.10 (p.41)		ed	Clause number 4.5.10 should be corrected to 4.5.11 according to the above amendments.	Change 4.5.10 to 4.5.11.	Agreed
GB	4.6.10	–	ed	In some tables, for example the last section of the form in 4.6.10, the text in the column headings is cramped, with some short words unable to fit onto one line (e.g. ‘Mode’). This is not ideal.	It might be better, where there is limited space, to turn the text in column headings on its side like this.	Consider making these tables landscape.
JP	4.6.12 (p.54)		ed	The column for “Antenna polarization” should be deleted. See our comments concerning 8.13.3 to DIS 4064-2.	Delete the column for Antenna polarization.	Agreed.

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JP	4.6.12 Conducted electromagnetic field		ed	The column for “ <i>Antenna polarization</i> ” should be deleted if the item 8.13.3 -8) “Change the polarization of the antenna” in Part 2 (p. 55) was deleted as we proposed for Part 2.		Agreed.
PL	4.6.12		te	This test is conducted without antenna, so the column "Antenna polarisation vertical/horizontal" is redundant.		Agreed.
JP	5 (p.62)	Paragraph 2	ed	Annex A should be corrected to Annex B.	Change Annex A to Annex B.	Agreed
GB	II, Clause 5	1 st para	ed	The ISO/IEC Directives, Part 2, Annex H require the following: ‘Do not use “must” as an alternative for “shall”’. The last sentence of the first paragraph and the first sentence of the second paragraph in Clause 5 does not meet this requirement.	Replace ‘must’ with ‘shall’.	Agreed.
JP			te	There is not a test report format in CD 4064-3 corresponding to the tests of 7.12 of DIS 4064-2 Test on ancillary devices of a water meter.		Morayo. Text provided still needs a comparison between ancillary and visual display results.
ID	Page 62		ED	II. Initial verification report	Should be deleted	Agreed. The hanging paragraph has also been fixed.
JP	(New test report format)		ed	Although it is stated that “ <i>Complete test report</i> ” in 7.12.3 -c) of Part 2 (p. 33) in the clause “7.12 Tests on ancillary devices of a water meter”, there is no corresponding test report format in Part 3.		See above.

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