



ISO Central Secretariat editorial comments*
Commentaires rédactionnels du Secrétariat central de l'ISO**

ISO/DIS 21049

ISO/TC 115/SC 3

* To be taken into consideration when preparing the revised draft.

** À prendre en considération lors de la préparation du projet révisé.

This document has been accepted for the 5-month DIS vote, but it has a several significant editorial problems and a lot of minor ones. These problems must be addressed and corrected in the FDIS text which will be submitted by you in due course, or the FDIS text will be refused at ISO/CS. The listing below is not exhaustive, and the problems pointed out should be corrected throughout the document.

1) The template used should be the TC 67 "bullets" template which can be downloaded off the TC 67 teched website. With the version you have used, many of the template styles have not been applied and the formatting is incorrect, particularly for lists.

2) In the Introduction, what is meant by "...which can be referenced by the current edition of..."? These docs. are already published and cannot reference ISO 21049-- so the previous phrase is unclear. Please rewrite for clarification.

3) The scope is too long and contains non-scope material. Please consult Part 2 of the ISO/IEC Directives 2001, subclause 6.2.1. The scope should be succinct and describe what is covered in the standard. It should not give details or requirements. Please use the wording provided in 6.2.1. Subclauses 1.2, 1.3 and 1.4 should be placed elsewhere in the doc. along with Figures 2-6. In any case, the scope may be used as an abstract and when used for such purposes maximum length is 500 words and all figures and tables are removed. I don't see where Fig. 1 explains the seal Category differences, contrary to what the Note says.

4) Please use "this International Standard" throughout rather than "this Standard".

5) A **major problem** was seen in that many Notes contain requirements, instructions or recommendations. Such notes should be converted to full text (size 10). This is ISO style (see ISO Directives Part 2, 6.5.1). For example, see 6.1.1.1, Note 2 in 6.1.1.5, in 9.2.2, 9.3 and many more.

6) Clause numbering: it is not permitted to have XX.1 without XX.2. Pls delete 7.3.2.1, 7.3.4.1.1 and elsewhere as necessary. In addition, it is not necessary to number every sentence, as it is not reader-friendly, unless that information is cross-referenced elsewhere in the text.

7) Throughout the text, citing of ISO references shall precede that of national standards. (Note that ISO standards are NOT European standards, but are International Standards). Throughout the text, information in SI units shall precede information in USC units.

8) Notes in tables and figures, as in text, cannot contain requirements. Such requirements should be placed in a paragraph preceding any notes or footnotes. See ISO Directives Part 2, 6.6.5 and 6.6.6. There is room for improvement in the formatting and borders of tables. See ISO Directives Part 2, 6.6.6 for examples.

9) In 6.1.2.20 first mention of numbered flush "Plans" was found. This needs some explanation here, and reference to the description in the annex.

10) Please write all test procedures in the imperative, i.e. as instructions, as was done in 10.3.1.3.4 but not throughout.

Technical Editor(s) Rédacteur(s) technique(s)	Hornfeld Carolyn (E-mail:)	Date 2002-03-07
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11) Figures 22 and 26 show an unexplained arrow. Figures should provide stand-alone information unless text is directly referred to in the figure. Please clarify the meaning of these arrows.

12) Another major checking and correction will be needed to ensure that SI units are provided in all cases. Please note that "bar", although permitted, is NOT an SI unit; the SI unit of pressure is the pascal (or multiples thereof) and should be provided throughout the doc. Table 4 also is missing some SI units. Please provide DN as well as NPS data throughout.

13) Many figures need correction. Remove all language-dependent text from drawing (NOT including graph axes). Use numbers, NOT language-dependent letters, to refer to physical elements in the drawing (e.g. use 3 for "vent", not V), use footnote letters to give descriptive information. Explain numbers in a Key; give footnotes after any figure Notes. See Directives 6.6.5 for further explanation. Figs. 28 to 32: should give symbol plus units on graph axis, not in Key. Note that Pa units must precede bar equivalents.

Figures 33, 34, 35, D.26, D.27, D.28 remove text from figures, abbreviate units.

Figs. D.14, D.15 - the explanations "by purchaser" and "by vendor" were not understood for the arrows in the drawing; please clarify. In any case this is footnote (descriptive) information and not a physical (numbered) element.

The SI abbreviation for revolutions per minute is r/min, not rpm; please correct throughout.

14) Annex A needs some reorganization and headings/Table numbers added. It is very inaccessible to the user as it is. There is NO NEED to have two sets of sheets for SI and USC. Entire sheets have no units anyway. Please combine into one set, with SI preceding USC as was done in the body of the document. Sheet 2 would more logically be Sheet one. Please number as Tables and as Figures (flow charts are figures, not tables) and the whole annex will be much more understandable. Additional subclause titles may also help.

15) Please avoid the use of trade names (e.g. Viton) and if necessary use the ISO disclaimer (Directives 6.6.3).

16) Annex B and symbols:

The SI symbol for pressure is p not P ; please correct throughout the document.

The SI symbol for volume flowrate is q_V not Q ; please correct throughout the annex.

The operator d in dT should be upright, not italics.

Do not use abbreviations as symbols, but use a one-letter symbol which can be subscripted as necessary (e.g. T for torque).

Do not italicize units (e.g. kW should be upright not italics), and do not put in equations.

Traditionally in piping standards D is outside diameter, d is inside diameter.

ISO style uses a centred dot for multiplication of symbols, an \times for multiplication of numbers.

17) Annex C: In C.2.2 please note you can't have two series of a), b), c) as it is then impossible to refer to only one.

C.4 - Polymers should be identified by their ISO designation, not their ASTM designation. See ISO TC 61 standards.

18) Annex F: Don't use the word "alternate" when you mean "alternative". Don't write "SIC" instead of "SiC".

19) Annex G: Misleading to enter "Category III Seals" better to put "Category Seals" All-caps listing hard to read; we favor initial cap plus lower case.

20) Annex I: Shading in tables not accepted unless valid justification given; Use SI units pascals, kilowatts, cm³. What is GPM? Why give API Code, API Plan when this standard provides others? These tables obviously taken direct from API doc and need correction.

21) Annex J: Change notes to full text-- otherwise "empty" clauses.

We look forward to receiving the revised text in due course, incorporating the above corrections. Thank you for your kind cooperation.