

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Amendment No. 1
to
AS/NZS 3499:2006
Water supply—Flexible hose assemblies
REVISED TEXT

The 2006 edition of AS/NZS 3499 is amended as follows; the amendments should be inserted in the appropriate places.

SUMMARY: This Amendment applies to the Preface, Clauses 1, 4.1, 4.2, 4.3, 5.1, 5.2, 5.3, 6.1, 6.2, 6.2.1, 6.3.3, 8.1, 8.3, 8.4, 8.5, 8.6, 8.7, 8.8, 8.9, Tables 1, 8.10, 9, 10.1 and 10.2 and Appendices A, C and D.

Published on 24 July 2009.

Approved for publication in New Zealand on behalf of the Standards Council of New Zealand on 12 June 2009.

Preface

- 1 Last line, second paragraph, *delete* '1.4 MPa' and *replace* with '1400 kPa'.
 - 2 Third paragraph, *delete* the last sentence.
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Clause 1

Delete the existing scope and *replace* with the following:

This Standard specifies requirements for flexible hose assemblies for use with both heated water at 70°C at 1000 kPa maximum and cold-water supplies at 1200 kPa maximum used for applications above ground, accessible and not submerged. Nominal sizes range up to DN 20, a maximum length of 2 m and with a working pressure not exceeding 1400 kPa.

NOTE: Certification under the Plumbing Code of Australia is mandatory in Australia but not in New Zealand.

Clause 4.1

Delete 'moved' in the second line and *replace* with 'adapted'.

Clause 4.2

Delete Clause 4.2.

Clause 4.3

Third line, after the words 'water temperature', *delete* the existing text and *replace* with 'repetitive movement or flexation after installation; or any other operational circumstances'.

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Clause 5

Delete the existing text and *replace* with the following:

5.1 Tube

The size, by which a flexible hose is designated, shall be related to the size of its internal diameter.

5.2 End connectors

The size and type of end connectors assembled to the tube shall be included in the product description.

5.3 Hose assembly

The size designation of the hose assembly shall include the tube DN, the end fitting type and DN and the effective overall length.

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Clause 6.1

- 1 First paragraph, first line, *add* the word 'drinking' before the word 'water'; *delete* 'suitable for use in contact with drinking water' and *replace* with 'comply with AS/NZS 4020'.
- 2 *Add* the following new second paragraph:

'All tube reinforcement, such as metallic braiding and crimp fittings, shall be corrosion resistant.'

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Clause 6.2

Delete Clause title and *replace* with '**Plastic and elastomeric material**'.

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Clause 6.2.1

- 1 After the word 'Plastic', *insert* 'and elastomeric'.
- 2 In the NOTE, *add* the words 'and elastomers' after the word 'plastics'.

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Clause 6.3.3

Delete Clause text and *replace* with following;

Stainless steel composition shall comply with the following:

- (a) Stainless steel in contact with drinking water shall be a minimum of 316/316L grade and comply with the following:
 - (i) Wrought components—ASTM A276, UNS S31600 and S31603.
 - (ii) Tubular components—ASTM A269, UNS S31600 and S31603.
 - (b) Stainless steel braid and ferrules shall be a minimum 304/304L grade and comply with the following:
 - (i) Wire braiding—ASTM A478, UNS S30400 and S30403.
 - (ii) Tubular components—ASTM A269, UNS S30400 and S30403.
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Clause 8.1

Delete Clause text and *replace* with the following:

‘Three flexible hose assemblies, complete with end connections, shall pass all the performance tests in accordance with this Standard’.

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Clause 8.3

1 *Delete* Clause title and *replace* with ‘**Heat-aging sample preparation**’.

2 In the text, *delete* the reference to ‘Paragraph D3’ and *replace* with ‘Paragraph D4’.

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Clause 8.4

In the text, *delete* reference to ‘Paragraph D4’ and *replace* with ‘Paragraph D5’.

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Clause 8.5

Delete Clause 8.5.

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Clause 8.6

Delete Clause text and *replace* with the following:

‘Hose assemblies shall be tested in accordance with Paragraph D7, Appendix D, and AS/NZS 3707. At the start and the completion of this test, the sample shall be tested in accordance with Appendix C and shall show no signs of cracks, leakage or other failures’.

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Clause 8.7

1 *Delete* Clause title and *replace* with ‘**Burst pressure test**’.

2 In the text, *delete* the word ‘assembly’ and *replace* with ‘assemblies’ (in both instances).

3 *Delete* the reference to ‘Paragraph D7’ and *replace* with ‘Paragraph D8’.

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Clause 8.8

1 *Delete* Clause title and *replace* with ‘**Thermal cycling test**’.

2 In the text, *delete* the word ‘assembly’ and *replace* with ‘assemblies’ (in both instances).

3 *Delete* reference to ‘Paragraph D8’ and *replace* with ‘Paragraph D9’.

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Clause 8.9

1 First line, *add* the word ‘assemblies’ after ‘Flexible hoses’.

2 *Delete* reference to ‘Paragraph D9’ and *replace* with ‘Paragraph D10’.

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Table 1, Column 1

1 *Delete* column title and *replace* with ‘**Nominal size of tube**’.

2 In the first row, *add* the words ‘Up to and including’ above ‘DN 6’.
