



High pressure water jetting systems

Part 2: Construction and performance



This Australian Standard® was prepared by Committee SF-043, High Pressure Water Safety. It was approved on behalf of the Council of Standards Australia on 11 October 2013. This Standard was published on 12 December 2013.

The following are represented on Committee SF-043:

- Australasian High Pressure Water Jetting Association, Australia
 - Australasian High Pressure Water Jetting Association, New Zealand
 - Australian Chamber of Commerce and Industry
 - Australian Industry Group
 - Bureau of Steel Manufacturers of Australia
 - New Zealand Council of Trade Unions
 - Royal Australian Chemical Institute
 - Safe Work Australia
 - WorkCover New South Wales
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This Standard was issued in draft form for comment as DR AS/NZS 4233.2.

Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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Australian Standard®

High pressure water jetting systems

Part 2: Construction and performance

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Standards Committee SF-043, High Pressure Water Safety, to supersede AS/NZS 4233.2:1999, *High pressure water (hydro) jetting systems, Part 2: Construction and performance*.

This Standard incorporates Amendment No. 1 (September 2020). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

A1 | Amendment No. 1 to this Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee SF-043, High Pressure Water Safety. As a consequence of Amendment No. 1, which is published as an Australian-only amendment, this Standard will be redesignated from AS/NZS 4233.22 to AS 4233.2.

The objective of this revision is to reflect current industry best practice and the technological advances since the publication of the previous edition. The revision broadly aligns with, but is not equivalent to EN 1829-1:2010, *High pressure water jet machines—Safety requirements, Part 1: Machines* and EN 1829-2:2008, *High-pressure water jet machines—Safety requirements, Part 2: Hoses, hose lines and connectors*.

The principal differences between this and the previous edition are as follows:

- (a) Changes in technology including personal protective equipment, electronic control systems and hold-to-active devices.
- (b) Machinery including remote and automated.
- (c) Training including new units of competencies for high pressure water jetting.
- (d) Systems of work including maximum reaction force and mechanically held devices.

Additionally, much of the informative text has been made normative.

This Standard is the second of a series of standards applicable to high pressure water jetting.

A1 | This series comprises the following:

AS 4233.1, *High pressure water jetting systems, Part 1: Safe operation and maintenance*

AS 4233.2, *High pressure water jetting systems, Part 2: Construction and performance*
(this Standard)

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STANDARDS AUSTRALIA

Australian Standard

High pressure water jetting systems

Part 2: Construction and performance

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard sets out requirements for the design, construction testing, inspection and safeguarding of high pressure water jetting systems.

This Standard applies to high pressure water jetting systems with an output capability greater than 800 bar litres per minute and less than 5600 bar litres per minute (identified as Class A) and systems with an output capability in excess of 5600 bar litres per minute (identified as Class B).

A1 | NOTE: Safe operation and maintenance of high pressure water jetting systems is not covered by this Standard but is given in AS 4233.1.

1.2 OBJECTIVE

The objective of this Standard is to provide manufacturers and suppliers with the minimum requirements for equipment and associated components for high pressure water jetting systems.

1.3 APPLICATION

A1 | This Standard shall be read in conjunction with AS 4233.1.

1.4 NORMATIVE REFERENCES

The following are the normative documents referenced in this Standard:

NOTE: Documents referenced for informative purposes are listed in the Bibliography.

AS

2845 Water supply—Backflow prevention devices
 2845.2 Part 2: Registered air gaps and registered break tanks
 2845.3 Part 3: Field testing and maintenance of testable devices

4024 Safeguarding of machinery (series)

A1 | 4233 High pressure water jetting systems
 4233.1 Part 1: Safe operation and maintenance

60529 Degrees of protection provided by enclosures (IP Code)

AS/NZS

1200 Pressure equipment

2845 Water supply—Backflow prevention devices
 2845.1 Part 1: Materials, design and performance requirements

3000 Electrical installations (known as the Australian/New Zealand Wiring Rules)

3100 Approval and test specification—General requirements for electrical equipment