

Australian/New Zealand Standard™

High pressure water jetting systems

Part 2: Construction and performance



AS/NZS 4233.2:2013

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee SF-043, High Pressure Water Safety. It was approved on behalf of the Council of Standards Australia on 11 October 2013 and on behalf of the Council of Standards New Zealand on 17 October 2013.

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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.

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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*.

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.

This series comprises the following:

AS/NZS	
4233	High pressure jetting systems
4233.1	Part 1: Safe operation and maintenance
4233.2	Part 2: Construction and performance (this Standard)

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Australian/New Zealand 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).

NOTE: Safe operation and maintenance of high pressure water jetting systems is not covered by this Standard but is given in AS/NZS 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

This Standard shall be read in conjunction with AS/NZS 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)
- 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
- 3350 Safety of household and similar electrical appliances
- 3350.1 Part 1: General requirements (IEC 60335-1:1991, MOD)