

Australian Standard™

**Hydraulic fluid power—General  
requirements for systems  
(ISO 4413:1998, MOD)**

This Australian Standard was prepared by Committee ME-035, Fluid Power Systems and Components. It was approved on behalf of the Council of Standards Australia on 31 July 2002 and published on 5 August 2002.

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## PREFACE

This Standard was prepared by the Standards Australia Committee ME-035, Fluid Power Systems and Components to supersede AS 2671—1983, *Fluid power—Hydraulic systems and components*.

The objective of this Standard is to provide designers and operators of fluid power systems with the general requirements relating to the safety, reliability and maintainability of hydraulic fluid power systems.

This Standard is adopted with Australian modifications and has been reproduced from ISO 4413:1998, *Hydraulic fluid power—General rules relating to systems*.

The Australian modifications are listed in Appendix ZZ and are indicated by margin bars in the text of the Standard.

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| <i>Reference to International Standard</i> |   | <i>Australian Standard</i> |  |
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| ISO  |   | AS                         |  |
| 1219                                       | Fluid power systems and components—Graphic symbols and circuit  | 1101                       | Graphic symbols for general engineering                      |
| 1219-1                                     | Part 1: Graphic symbols   | 1101.1                     | Part 1: Hydraulic and pneumatic systems                      |
| 1219-2                                     | Part 2: Circuit diagrams  | —                          | —  |
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|  |   | 4002.2                     | Part 2: Extraction of fluid samples from an operating system |
| 4400                                       | Fluid power systems and components—Three-pin electrical plug connectors with earth contact—Characteristics and requirements | —                          | —  |
| 4401                                       | Hydraulic fluid power—Four-port directional control valves—Mounting surfaces  | —                          | —  |
| 4406                                       | Hydraulic fluid power—Fluids—Method for coding level of contamination of solid particles                                    | 4002                       | Hydraulic fluid power—Particulate contamination of systems   |
|  |   | 4002.1                     | Part 1: Method for coding the level of contamination         |
| 5598                                       | Fluid power systems and components—Vocabulary   | 4061                       | Fluid power systems and components—Vocabulary                |

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| ISO    |   | AS |
|--------|---|----|
| 5781   | Hydraulic fluid power—Pressure-control valves (excluding pressure-relief valves), sequence valves, unloading valves, throttle valves and check valves—Mounting surfaces | —  |
| 6149   | Connections for fluid power and general use—Parts and stud ends with ISO 261 threads and O-ring sealing   | —  |
| 6149-1 | Part 1: Ports with O-ring seal in truncated housing   | —  |
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| 6263   | Hydraulic fluid power—Compensated flow-control valves—Mounting surfaces   | —  |
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| 7368   | Hydraulic fluid power—Two-port slip-in cartridge valves—Cavities  | —  |
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| 8434-4 | Part 4: 24° cone connectors with O-ring weld-on nipples   | —  |
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| 10763  | Hydraulic fluid power—Plain-end, seamless and welded precision steel tubes—Dimensions and nominal working pressures   | —  |

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