



Certificate of Conformity

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Product designation

Mack, V842 Series, angle seated, roll grooved ends, combination deluge/pressure reducing valves

(Refer to the Schedule/enclosures for further specified details)

Agent/distributor

Mack Valves Pty Ltd
30 Burgess Road, BAYSWATER, VIC, AUSTRALIA, 3153

Registrant

Mack Valves Pty Ltd
30 Burgess Road, BAYSWATER, VIC, AUSTRALIA, 3153

Producer

Mack Valves Pty Ltd
30 Burgess Road, BAYSWATER, VIC, AUSTRALIA, 3153

Conformance criteria and evaluation

The Mack, V842 Series, angle seated, roll grooved ends, combination deluge/pressure reducing valves has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 4118.1.5-1996, 'Fire sprinkler systems - Components - Deluge and pre-action valves'.
2. Australian Standard AS 4118.1.8-1999, 'Fire sprinkler systems - Components - Pressure-reducing valves'.

Limitations/conditions of conformance

Limitations/conditions of conformance, where identified on this certificate, are derived from qualifications from evaluation(s) for conformity and/or other related technical documentation. All details with respect to design, assembly and installation instructions and restrictions should be checked against the producer's current technical manual/data sheets and the requirements of the Authority having Jurisdiction.

Specified limitations/conditions, determined from the evaluation for conformity, include the following.

- i. To be installed in accordance with the manufacturer's instructions, and appropriate building regulations and standards, to the satisfaction of the relevant Authority having Jurisdiction.
- ii. The maximum allowable inlet pressure of the valve assemblies is 1600 kPa (232 psi).

Issued by

David Whittaker
Executive Officer – ActivFire Scheme



This certification is issued within the scope of CSIRO Verification Services – Rules governing ActivFire Scheme and is valid only for the product(s) as submitted for evaluation and verification of conformity, subject to the following conditions.

- Reference to details, limitations and requirements, where documented as a schedule/enclosure with this certificate.
- The Registrant is responsible for their attestation of conformity and ensuring that on-going production complies with the conformance criteria defined in this certificate.
- This certificate will not be valid if any changes or modifications are made to the product which have not been notified and validated by CSIRO Verification Services.
- This certificate is subject to periodical re-validation upon verification that all requirements, as determined by the conformity assessment body, continue to be satisfactorily met by the Registrant.
- This certificate may only be reproduced in its published form, without modification and inclusive of all schedules/enclosures.
- Any changes, errors or omissions, must be submitted in writing and if necessary or requested, substantiated with relevant evidence.
- Any representations, such as advertising or other marketing related activities or articles shall reflect the correct contents of this certificate and conform with all relevant trade practices and consumer protection legislation and regulations.
- Any terms or conditions of use as applicable to content and documentation as published or accessed through web sites administered by the CSIRO Verification Services.

Schedule to Certificate of Conformity

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Producer's description

The Mack, V842 Series, angle seated, roll grooved ends, combination deluge/pressure reducing valves consist of diaphragm-actuated angle seated ductile iron main valve with a pilot circuit that includes a solenoid valve and a field-adjustable pressure-reducing valve. The deluge operation occurs when the solenoid is energised, and ceases when it is de-energised. The pilot circuit pressure-reducing valve functions to maintain a steady pressure at the outlet of the main valve in accordance with the chosen adjusted outlet pressure of the pilot reducing valve. The opening and closing rate of the main valve are factory-determined by means of a fixed restrictor orifice that is sized to suit the individual customers' required opening/closing rates. The pilot circuit is fitted with a lockable ball-valve for inhibiting deluge operation when deluge system maintenance is being undertaken, and a non-lockable ball valve that by-passes the solenoid valve, thus providing a manually opening deluge valve. The model range includes the following.

Model	Size, mm
V842-080	80
V842-100	100
V842-150	150

Technical specification

The following details are a representative extract of the technical specification for the Mack, V842 Series, angle seated, roll grooved ends, combination deluge/pressure reducing valves and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Main Valve:

Valve model: Mack, 1327RG1-22-080 (80 mm), 1327RG1-22-100 (100 mm), 1327RG1-22-150 (150 mm) diaphragm-actuated angle-seated globe valves.

Connection details: 80 mm, 100 mm, 150 mm roll-grooved ends for pipe O.D. conforming to AS 1074.

Trim components:

Pilot pressure-reducing valve: Mack, Figure 7838X-A9-008 (nominal 8 mm orifice size). Suitable for use with either straight or angle seated Mack main valves sized in the range of 80 mm to 150 mm for use in fire-protection deluge systems.

Pilot solenoid valve: Asco Model SCE238A001 or SCXE238C001 (LED Incorporated in DIN plug) 24DC (24 Vdc coil).
The maximum working static pressure of the solenoid valve is 1600 kPa (232 psi). Suitable for use with either straight or angle seated Mack main valves sized in the range of 80 mm to 150 mm for use in fire-protection deluge systems.

Pilot system ball valves: Mack, Figure V716, Figure V717 and Figure V801, 10 mm brass ball valves.
The maximum working static pressure rating of the body to 3000 kPa (434 psi). Suitable for use with either straight or angle seated Mack main valves sized in the range of 80 mm to 150 mm for use in fire-protection deluge systems.

Pilot system strainer: Mack, Figure 416-1-010, 10 mm self-cleaning finger strainer.
Suitable for use with either straight or angle seated Mack main valves sized in the range of 80 mm to 150 mm for use in fire-protection deluge systems.

The designated models under this series include the following.

Model	Size, mm
V842-080	80
V842-100	100
V842-150	150

Note: This certification is subject to use of appropriate trim components, including those nominated above and used for the specified function.