



Certificate of Conformity

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Product designation

Mack, P93X-A7 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, P93X-A7 Series, Angle Seated, Roll Grooved Ends, Combination Deluge/Pressure Reducing Valves have 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'.
3. SSL Test Specification 103-91, Version E:March-1993, 'Relief, reducing deluge and pre-action valves for fire protection service'.

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 1400 kPa (203 psi).

Issued by

David Whittaker
Executive Officer – ActivFire Scheme



Schedule to Certificate of Conformity

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Producer's description

The Mack, P93X-A7 Series, Angle Seated, Roll Grooved Ends, Combination Deluge/Pressure Reducing Valves consist of diaphragm-actuated angle seated cast 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 |
|-------------|----------|
| P93X-A7-080 | 80 |
| P93X-A7-100 | 100 |
| P93X-A7-150 | 150 |

Technical specification

The following details are a representative extract of the technical specification for the Mack, P93X-A7 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, 1312RG-22-080 (80 mm), 1312RG-22-100 (100 mm), 1312RG-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 200 mm for use in fire-protection deluge systems.

Pilot solenoid valve: Asco Model SC E238A001 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 200 mm for use in fire-protection deluge systems.

Pilot system ball valves: Mack, Figure B85, 10 mm brass ball valve. 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 200 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 200 mm for use in fire-protection deluge systems.

The designated models under this series include the following.

| Model | Size, mm |
|-------------|----------|
| P93X-A7-080 | 80 |
| P93X-A7-100 | 100 |
| P93X-A7-150 | 150 |

Note: This listing is not valid if trim components, other than those nominated above, are used for the specified function.