

### Wade Safety Valves



These instructions cover the Wade 6000, 6100, 6200, 6300 and 6500 range of valves. It is important that the valve is selected, in all respects, for the application: material, type, size and set pressure. It is recommended that there is a margin of at least 10% between the operating pressure and the set pressure. When a side outlet type valve is used it is essential that the back pressure created at full flow does not exceed 10% of the set pressure. Installation must be carried out to good engineering practise; it must be ensured that the Health and Safety at Work Act is not contravened.

#### INSTALLATION

Care must be taken to ensure that valves are stored in a clean and moderate temperature environment. If covers are fitted to the inlet they should not be removed until just prior to fitting, if covers are not fitted the inside of the valve must be cleared of any foreign matter. Always use the hexagon part of the valve base when screwing the valve into its operating position. Inlet pipe work should be capable of supporting the valve in its operating condition and not transmitting unacceptable vibration or strain to the valve.

CONTINUED OVERLEAF

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## INSTALLATION (continued)

Cleanliness of all pipework or units upstream of the valve is essential as foreign matter introduced into the valve can damage seating and operating mechanisms. Sealing compounds and PTFE tape must be used in such a way that they cannot be carried into the valve. Atmospheric discharge holes must not be blocked in anyway either through installation or operating conditions. Initial sitting of the valve should be such that atmospheric discharge will not cause a hazard to personnel. Outlet pipework screwed into side outlet type valves must not come into contact with any internal components of the valve and must be open to atmosphere without restriction.

It is recommended that Wade Safety Valves are mounted vertically. However, whilst the valves will work satisfactorily in the horizontal position, the wear on the valve mechanism could be impaired and so we would recommend shorter periods between checking and testing in this situation. In all cases the key factor is that the outlet holes or discharge port must not be blocked or restricted due to the mounting position. In the case of side outlet valves in particular, the side outlet port must be positioned horizontally or preferably vertically downwards to prevent debris lodging in the port and keep the outlet path clear. Care must also be taken to ensure that any possible discharge from the valve could not cause injury to operatives or others in the area.

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## MAINTENANCE

Regular inspection of valves is essential to maintain operational efficiency. It is recommended that free movement of the mechanism on valves fitted with easing gear be checked every twelve months by raising the valve lifting ring or knob. During this test, the valve should be under a pressure of at least 75% of the set pressure. The easing gear is not designed to lift the valve when it is not under pressure. Check that the atmospheric discharge valve holes are free of any foreign matter. When apparatus associated with the valve has safety checks the opportunity should be taken to check the set pressure, resetting pressure, and discharge flow of the valve. Safety valves supplied without easing gear should be checked every 12 months for correct function and test of set pressure, full flow and re-seat pressures. Ideally the valve should be removed from the system and tested on specific test equipment.

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- Designed and manufactured under quality management systems in accordance with BS EN ISO 9001:2008

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