

WADE SAFETY VALVES



- These valves have been set using a modified air in water test method. Further details and capabilities are available upon request.
- Valve setting pressure should only be verified using the modified air in water test method.
- The tolerance on set pressure is $\pm 0.4\text{bar}$ or $\pm 8\%$, whichever is greater.
- These instructions cover the 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, set pressure and accuracy.
- These valves are suitable for air and inert gases only.
- 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 practice; 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.
- Inlet pipework should be capable of supporting the valve in its operating condition, and not transmitting unacceptable vibration to the valve. 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.
- Outlet pipework used in side outlet type valves must not touch any internal components of the valve.
- 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, through either installation or operating conditions. Initial siting of the valve should be such that atmospheric discharge will not cause a hazard to personnel.

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 three months by raising the valve lifting ring or knob. The valve should be under a pressure of at least 75% of the set 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.
- It is recommended that examination of valve seats or discs and resetting or changing the setting pressure should only be carried out at our works.
- Safety valves supplied without easing gear should be checked every three months for correct function and test of set pressure, full flow and reseal pressures. Ideally the valve should be removed from the system and tested on specific test equipment or returned to the manufacturer for checking.

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