

Installation Instructions

NABIC

SAFETY VALVES

1. Clean and blow through all pipework before installing the valve.
2. Protective caps should not be removed from the safety until immediately prior to installation.
3. Care should be taken to avoid excessive use PTFE tape or sealing compounds.
4. Check that the diameter of the inlet pipe is not less than the valve bore.
5. Attach the valve inlet to the vessel or pipeline by means of the shortest possible length of pipe with no intervening valve or fitting.
6. Mount the valve vertically with the test lever uppermost.
7. Where the valve inlet is flanged, check the mating flange is flat and use a full face joint.
8. Outlet pipework should be as short as possible adequately supported and directed to a safe visible point of discharge.
9. Outlet piping shall be of equal or larger size than the valve outlet. There should be no valve or flow restriction fitted.
10. Where outlet pipework is directed upward, an open drain must be provided at its lowest point. Larger valves have a body tapping for this purpose. On liquid relief applications, discharge pipework shall have a continuous downward gradient to assist drainage.

TESTING

The mechanical operation of safety valves should be checked at least every 3 months by manually operating the test lever. To avoid unnecessary strain on the easing gear, the valve should be under a pressure of not less than 75% of its set pressure. Safety precautions should be taken to protect personnel while testing is being carried out. Where arduous service conditions exist, more frequent testing may be required. It is the users responsibility to establish the required frequency of testing.

The set pressure of safety valves should be checked every 12 months. Additional accumulation tests may also be requested by the inspection authority certifying the safety of the plant.

If a safety valve malfunctions during testing, it must be replaced with an identical valve immediately, or action taken to ensure the safe working condition of the system.

MAINTENANCE

The internal condition of safety valves should be checked at least every 12 months. Most NABIC safety valves have been designed to permit internal examination and cleaning without alteration to set pressure or removal of the valve from line.

Steps should be taken to ensure the system has been depressurised before removing or dismantling the valve. Replacement of component parts or alteration to set pressure requires special purpose tools. We therefore recommend it should be returned for repair or recalibration.

For Technical Advice

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