

PENTAIR HYGIENIC PROCESS VALVES (FORMERLY KEYSTONE) F257 PNEUMATIC QUARTER TURN ACTUATOR ATEX – OPERATING AND SAFETY INSTRUCTIONS

ADDITIONAL SAFETY INSTRUCTIONS FOR ACTUATORS USED IN POTENTIALLY EXPLOSIVE ATMOSPHERE UNDER ATEX 94/9

MARKING

- ATEX 94/9/EC, Group II, category 2, GD.

Note: Recapitulation of the information with which the equipment is marked.

REFERENCE

These are additional safety instructions to IOM document number:

PHOBE-0046

See also: www.pentair.com/valves

SELECTION

- Ensure that the equipment is marked with the correct equipment group, category and type of atmosphere for the application and that the safety instructions are followed for each item of the equipment.
- In particular, all items included in an actuator package, including valve, actuator and all accessories should be CE marked to ATEX in the appropriate and / or requested category.
- The temperature classification of actuators is entirely dependent on the process fluid passing through the valve. If relevant, this must be established by the end user and must not exceed the maximum temperature rating of the actuator rating of the valve, marked on the actuators identification label.

INSTALLATION

- The operator must ensure that only personnel qualified to work in a potentially hazardous area are allowed to carry out maintenance appropriate to the category of the equipment in use.
- If required personnel need to have authorization for working in hazardous area, and wear appropriate clothes.
- The installer must only use tooling appropriate to the working area, see EN 1127-1 Annex A.
- Installation has to be carried out at ambient temperature.
- During installation ensure that no metallic shocks / impacts are made to the equipment or the adjacent pipework.
- Ensure that the equipment is suitably earthed, through the pipe or individually.
- The installer should thoroughly follow the operating and safety instructions provided for each individual item of equipment.
- When the valve is to handle hot fluids or fluids where exothermic reactions may take place, the end user must take all the necessary measures to ensure that the hot surface of the valve cannot provide a source of ignition to the surrounding gas, vapor, mist or dust atmosphere. A possible temperature elevation in case of high cycling frequency must also be considered.
- Before putting into use or during operation with a dangerous fluid, ensure that no release of the fluid to atmosphere can take place.

- In case of actuated valves, ensure no brittle materials are used for the bracket & coupling.
- The risk assessment of the actuated packages has been performed supposing the maximum tangential velocity of the moving parts is less than 1m/s. If the actual velocity exceeds 1m/s, a new conformity assessment is required.
- Electric connections must be tightened correctly.

MAINTENANCE

- The operator must ensure that only personnel qualified to work in a potentially hazardous area are allowed to carry out maintenance appropriate to the category of the equipment in use.
- If required personnel need to have authorization for working in hazardous area, and wear appropriate clothes.
- The end user must ensure that only tooling appropriate to the working area is used, see EN 1127-1 Annex A.
- All equipment must only be fitted with manufacturer's original spare parts.
- Maintenance has to be carried out at ambient temperature (also for internal parts, allow required cooling down)
- Ensure maintenance of painting without creating electric discontinuity.
- Prevent dust accumulation.

PENTAIR FLOW CONTROL PACIFIC PTY LTD

12-14 KAIMIRO STREET, PUKETE INDUSTRIAL ESTATE, HAMILTON, 3200, NEW ZEALAND PACIFICNZHYGIENICSALES@PENTAIR.COM WWW.PENTAIR.COM

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