

SX Series SuperNova™ Actuator

FCD AXENIM0113-00 – 1/06

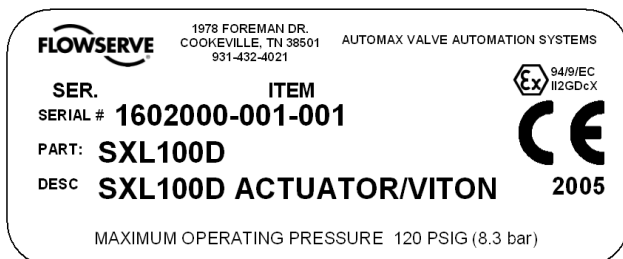
Additional Safety Information

Storage & Preservation

When dispatched, all actuators are prepared for storage. All protective packaging, end cap port plugs, pinion covers etc. should remain in position until the actuator is due to be installed.

Actuator Markings

Each actuator has the following identification information on the product label attached to the side of the body:



ATEX Directive

If the product label carries the ATEX Directive number '94/9/EC' followed by the Explosion Protection Symbol and codes identifying the equipment group and category, the zone suitability and protection type beside the CE mark, the product complies with the ATEX Directive and The Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 1996.

Definition of product label marking above

- 'II' = Equipment Group;
- '2' = Equipment Category;
- G' = Gas Zone suitability (Zones 1 & 2);
- 'D' = Dust Zone suitability (Zones 21 & 22);
- 'c' = type of protection i.e. constructional safety (prEN 13463-5).

Surface Temperature

As per EN 13463-1:2001(E) paragraph 14.2.g, the temperature class or maximum surface temperature cannot be marked on the product as it is dependant on the operating conditions.

The operational temperature range is as follows:

- (S) Standard -30°C to +80°C.
- (L) Low Temperature variant -50°C to +80°C.
- (H) High Temperature variant -30°C to +150°C.

NOTE: Under constant use the surface temperature of exposed parts may rise by a maximum 20°C above the operating media temperature.



Health & Safety

When installing or maintaining actuators:

- a) Conduct a risk assessment and eliminate or reduce hazards to an acceptable level.
- b) Work in accordance with Safe Systems of Work.
- c) Observe all site Health and Safety Rules in particular Permit to Work and Hot Work procedures.
- d) Wear all necessary Personal Protective Equipment.
- e) Never remove or maintain an actuator or joint unless the supply has been fully de-pressurised, drained and where necessary, purged of toxic/explosive/flammable media. Always operate the actuator to ensure that no trapped pressure exists.
- f) Never handle actuators that have been used on harmful substances unless they have been completely decontaminated and certified safe to handle.
- g) Never use an actuator on a duty that exceeds its prescribed operating parameters. Refer to your Flowserve Sales Representative for further information.
- h) Never modify or alter actuators unless the manufacturer has been consulted and/or recommends such changes.
- i) Due to the large physical size and weight of some sizes of this product, always use correct lifting methods and equipment when installing, removing and maintaining the product, and that it is correctly supported in its final operating location.
- j) Due to the variety of duties on which this product can be employed, it is the end users responsibility to ensure the compatibility of the product with the specific application (i.e. air supply, torque, corrosion, which may affect application suitability).
- k) Before equipment is installed in areas that may be subject to seismic activity or extreme climatic conditions, consult your Flowserve Sales Representative.
- l) If the processes or environments that the products are used in are likely to cause temperatures (high or low) that may cause injury to personnel if touched, then adequate insulation/protection must be fitted.
- m) If the equipment is to be used on unstable gas duty, ensure that the operational parameters as indicated on the product label cannot be exceeded.
- n) This equipment should be protected by other devices to prevent over-pressurisation. (i.e. caused by external fire, etc).
- o) This equipment must be installed in a system that is designed to prevent excessive forces acting on the mounting kit, switch box/positioner, connections, etc.
- p) Care must be taken when removing the actuator or accessing the valve that the actuator does not unexpectedly operate due to the stored failsafe spring torque, causing personal injury.
- q) This equipment is not a safety device and must be controlled/guarded by other devices.

Precautions For Use

Make sure air supply is clean and filtered before installation, to ANSI/ISA S7.0.01-1996 and does not exceed 8.3 bar.

All actuators are supplied with sufficient lubrication for a normal working life. For extreme high cycle applications, the use of lubricated air supply is recommended.

NOTE: For ATEX compliance, when used in explosive atmospheres Non Corrosive and/or Non Explosive gases or liquids **MUST** be used as an operating medium.

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