



# OPERATING & SAFETY INSTRUCTIONS



**BEFORE INSTALLATION THESE INSTRUCTIONS MUST BE  
FULLY READ AND UNDERSTOOD!**

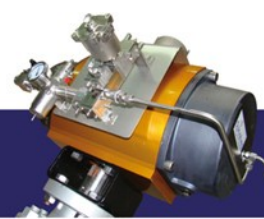
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Your partner in **valve technology**



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**READ ALL WARNING LABELS**

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## **1. Storage**

When Duxdrives are to be stored for some time before being fitted, storage should be in the original delivery crates.

Storage should be off the ground in a clean, dry, indoor area. Actuators should be stored at temperatures within the range as stated on the tagplate.

If actuators are stored for longer than 12 months they should be inspected before installation.

## **2. Protection**

Duxdrives are delivered with protection according to customer's specification, or in accordance with the Quality Assurance Manual. To protect the actuator connections from damage, wrapping and/or covers should be left in place until immediately before fitting to the valve.

## **3. Selection**

1. Ensure the actuator pressure/temperature limits shown on the identification plate are suitable for the process fluids and conditions.
2. Actuators and all accessories should be CE marked to ATEX in the appropriate and/or requested category.
3. The temperature classification of actuators is entirely dependent on the process fluid passing through the actuator.
4. Ensure actuator is used within the temperature range as stated on the tagplate.
5. If in doubt contact Duxdrives B.V.

## **4. Installation**



### **HEALTH & SAFETY WARNING**

For Health & Safety purposes, it is important to take the following precautions before you start work on or operating the actuator:

- A. Personnel making any adjustments to the actuators should utilize equipment and clothing normally used to work with the process where the actuator is installed.
- B. The pneumatic or hydraulic supply line must be depressurized, drained and vented before installing the actuator.
- C. Handling of all actuators must be carried out by personnel trained in all aspects of manual and mechanical handling techniques
- D. 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 media with the materials of construction of the product for each specific application (i.e. corrosion and erosion which may affect the integrity of the pressure containing parts).
- E. Ensure that maximum system pressure is below the MOP.
- F. Ensure the valve design temperature is within the actuator temperature range. If not precautions (mounting a bracket, etc) must be taken.
- G. If the actuators have to be lifted, the original lifting points shall be used. Don't attach bearer cables to actuator positioners or accessories. Never use the actuator lifting lugs to lift actuator including valve.
- H. The actuator must be installed in a system that is designed to prevent excessive forces acting on actuatorflange, connections etc.
- I. In case the medium for operating the pneumatic actuator and/or controls is other than clean/dry instrument air, the correct PPE's (personal protective equipment) must be used.

Also it is the user responsibility to check whether the used instrumentation is suitable for the medium used.

J. Only use compressed air with the following minimum specifications according to ISO 8573-1:2010 [6 2 3] for pneumatic actuators and/or controls.

1. Remove protective covers from actuator bottom/top face (if applicable) and any protection applied to the actuator supply ports.
2. The user shall inform Duxvalves B.V. about the correct coupling connections to any pipe system. For installation it is imperative that the correct type of coupling shall be used.
3. The installer must only use tooling appropriate to the working area, see EN 1127-1 Annex A.
4. Installation has to be carried out at ambient temperature.
5. During installation on the valve ensure that no metallic shocks/impacts are made to the equipment or the valve.
6. Ensure that the equipment is suitably earthed, through the valve or individually.
7. The installer should thoroughly follow the operating and safety instructions provided for each individual item of equipment.

## **5. Operation & Routine Maintenance**



**!! Read all warning labels fitted to the actuator  
before operation or maintenance!!**

### **Scope**

Duxdrives are operated pneumatically or hydraulically.

### **Operation**

All (standard) operated actuators, are 'clockwise to close'. Indicators (if applicable) on the actuator indicate the open and closed positions. Actuator travel switches, actuator positioners, position transmitters etc., are set at the factory prior to shipment but must be checked prior to operation.

### **Routine Maintenance**






For detailed maintenance instructions we refer to the IOM being part of the documentation package.

### **Spare Parts**

Duxdrives are identified by a Serial Number, which is stamped on the identification plate. This reference should be quoted in respect of any after sales queries, spare parts or repair enquiries/orders.

## 6. Identification

The actuator is foreseen with the below shown tagplate.

	
<b>ACTUATOR MODEL</b>	<input type="text"/>
<b>MAX. OPERATING PRESSURE</b>	<input type="text"/>
<b>TEMPERATURE RANGE</b>	<input type="text"/>
<b>ACTION</b>	<input type="text"/>
<b>YEAR OF CONSTRUCTION</b>	<input type="text"/>
<b>SERIAL NO.</b>	<input type="text"/>
	
	
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## 7. 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.
- The end user must ensure that only tooling appropriate to the working area is used, see EN 1127-1 Annex A

We reserve the right to change the contents without notice