

## **PRECAUTIONS (DO'S & DONT'S)**

During various stages, from the time of dispatch till final commissioning & operating period of actuator valve, the guidelines given here if followed diligently will result into trouble free service from the same throughout its useful life.

### **Pre-commissioning:**

1. Follow all recommendations in section transport, storage & handling.

**CAUTION:** AUMA CANNOT BE HELD RESPONSIBLE FOR DELETERIOUS EFFECTS ON OUR PRODUCTS DUE TO ADVERSE ENVIORNMENTAL CONDITIONS SUCH AS RAIN & HEAT DURING TRANSIT & STORAGE AND UNTIL INSTALLED PROPERLY.

### **Erection & Installation:**

1. Packing boxes containing actuators & gearboxes should be lowered & raised carefully avoiding impact on the floor. Bad handling will result into breaking of projected parts and main castings.
2. Please guard against interchanging of actuators from one valve to the other as each combination has been carefully chosen & fitted by valve manufacturer. Otherwise

- undersizing or oversizing will take place being detrimental to actuator & valve respectively.
3. Ref.storage and handling section of manual for safety of equipment & personnel.

**Commissioning:**

1. Use proper size cables. Cable entry should be sealed with rubber compound to prevent water & foreign objects into the terminal compartment.
2. Crimp incoming power & control cables with suitable lugs for firm terminal connections. Tighten all terminal connections before switching on the power supply. Check and ensure that connections are as per terminal diagram supplied along with actuator.
3. Follow the steps outlined in operating instructions.
4. Do not use pipe or extension bar on hand lever or hand wheel in manual operation. This will cause serious damage to the internal mechanical parts of actuator.
5. Manual operation is only a one-man effort unless otherwise necessitated during such operation after torque tripping of actuator occasionally.
6. Actuator is not meant to bear the dead weight of valve. This should be borne in mind while handling actuator valve assembly on the shop floor.
7. Isolate 3-phase power supply before opening terminal & limit switch compartment covers.

8. Clean & lubricate valve spindle before mounting actuator.
9. Retain ' O rings safely while working on actuator with covers removed. Remember to place the O - rings back in their seats properly. Tighten the cover screws fully.

**Operation:**

1. Limit switch & terminal compartment should be kept clean & dry.
2. Torque seating of plug valves & butterfly valves should be done: recommended by valve manufacturer.
3. Do not alter the torque setting of valve without consulting valve manufacturer.

**Maintenance:**

1. Area of repairs & maintenance of actuator should be kept clean dirt free. Clean all parts with flint free cloth before assembly.
2. Dispose off grease drained from actuator/gearbox. Fill with clean & fresh grease of recommended grade.
3. Reset limit switches before electrical operation if actuator has been removed from valve for maintenance.
4. Do not attempt field repairs on counter gear assembly, reduction gear unit, torque switch drive assembly & worm shaft assembly of actuator as they are factory set.

5. Replace respective wiring ferrules if found missing / damaged during repairs for future reference of all concerned.

**Spare parts ordering:**

Refer parts list for ordering spare parts. Give the following details:

1. Description
2. Part No.

Give the following details from nameplate:

1. Commission No. (Sl. No.)
2. Type