

<b>EDMAYR</b> ANTRIEBSTECHNIK	<b>Installations and Operating Instructions for Failsafe Units</b>			<b>E 09.601 e</b> (replaced E 01.602 e)	
	issue: 06.05.2010	version: 01	drawn: Ma	checked: Su	pages: 3   page: 1

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## IMPORTANT

Please read these instructions carefully before installing and operating the product. Your particular attention is drawn to the notes on safety.

These installation and operating instructions are valid on condition that the product meets the selection criteria for its proper use. Selection and design of the product is not the subject of these installation and operating instructions.

Disregarding or misinterpreting these installation and operating instructions invalidates any product liability or warranty; the same applies if the product is taken apart or changed.

These installation and operating instructions should be kept in a safe place and should accompany the product if it is passed on to others – either on its own or as part of a machine – to make it accessible to the user.

This device fulfils the requirements of the EG Standards 89/336/EWG and 73/023/EWG

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## SAFETY NOTICE

- Installation and operation of this product should only be carried out by skilled personnel.
- Repairs may only be carried out by the manufacturer or accredited agents.
- If a malfunction is indicated, the product or the machine into which it is installed, should be stopped immediately and either we or an accredited agent should be informed.
- Switch off the power supply before commencing work on electrical components.
- Rotating machine elements must be protected by the purchaser to prevent accidental contact.
- Supplies abroad are subject to the safety laws prevailing in those countries.

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**EDMAYR**  
 ANTRIEBSTECHNIK

<b>EDMAYR</b> ANTRIEBSTECHNIK	<b>Installations and Operating Instructions          for Failsafe Units</b>			<b>E 09.601 e</b> (replaced E 01.602 e)	
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Failsafe units are delivered completely assembled.

They are to actuate with the hydraulic oil mentioned in the maintenance instruction of the system, wherein the unit is used. Other kinds of hydraulic oil could reduce the safety regarding operation.

### Mounting

- Fit flexible pipe at connection P and apply release pressure in equivalent to the type plate (if the hydraulic system is not in use at this time, there could be used a hand pump to apply release pressure. A qualified pump can be ordered under ordering no. 4534.000.000).
- Push the failsafe unit onto piston rod.
- Apply screws or nuts for connection of the failsafe unit, but do not tighten.
- Shut-off the release pressure (failsafe unit is clamping) and tighten screws resp. nuts (by this sequence the failsafe unit is centralizing itself within the clearance against the piston rod and undesirable bracings between failsafe unit, piston rod and connected machine will be avoided.
- Fit failsafe unit finally at the pressure oil pipe and at the leakage oil pipe. The leakage oil pipe must allow free way for the leakage oil by gravity.

### Commencement of Operation

- Apply a few drops of oil onto the piston rod in fully pulled out situation.
 

**Attention: There should not be used oil or grease at the piston rod, which contains friction reducing additives like MoS<sub>2</sub>, graphite or Teflon.**
- Move piston rod three times in end position and clamp by shutting-off the release pressure.

Now, the failsafe unit is ready for operation !

### Maintenance

Under usual working conditions (no corrosion, no overload) inspection of the unit should be done only once a year.

If there are more than 100.000 actuations per year the units are to be maintained after every 100.000 actuations.

### Contents of Maintenance

Visible inspection of the units (f.e. scratch marks at the piston rod, corrosion, leakage)

Wear control by measuring the depth of the measuring holes as follows:

- Shut-off release pressure if necessary, remove pressure oil connections
- Remove yellow marked screws resp. plugs at the measuring holes; number of the measuring points see type plate.
- Measure depth of measuring holes resp. thread holes with calliper square.
- Compare the sum of the measured hole depth with the figure at the type plate.

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- If the inspection dimension reached an inadmissible area (see type plate) the unit should be returned to us.

### **Transportation and Storage**

#### Land transport and storage up to 6 months:

Failsafe units will be delivered filled with hydraulic oil and slightly oiled outside. They have to be sealed against moisture while transport and storage.

#### Transport by ship and/or storage more than 6 months:

Hydraulic oil filling and proper sealing of the connection holes are to be checked. All blank parts (not painted) are to be oiled.

All parts should be packed into oil resistant paper resp. packed into a box protected against oil and moisture.

After storage and before instalment the failsafe units should be checked regarding leakage by pressurizing by 90 to 120 bars hydraulic pressure.

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