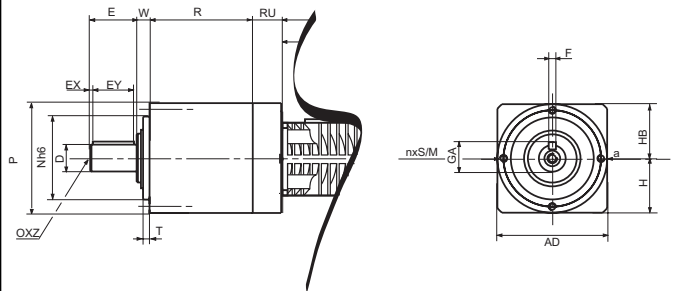




# 36

en

This manual is to be given  
to the end user



## Pj1

### Servo gearboxes

#### Installation and maintenance

**Pjl**  
**Servo gearboxes**  
 NOTE - CAUTION - CONTENTS

**NOTE**

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**CAUTION**



Throughout the manual, this symbol warns of consequences which may arise from inappropriate use of the servo gearbox Pjl since risks may lead to material or physical damage.

Despite all the care taken in the manufacture and checking of this equipment, LEROY-SOMER cannot guarantee that lubricant will not escape during the product's lifetime. If slight leaks could have serious consequences for the safety of people and property, the installer and user should take all necessary precautions to avoid such consequences.

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# Pjl Servo gearboxes

STORAGE- RECOMMENDATIONS - LUBRICATION - CHARACTERISTICS - INSTRUCTIONS

## 1 - STORAGE

Pjl servo gearboxes can be stored horizontally in a dry place at a temperature between 0° and 30°C in their original packaging (for a maximum of one year).

## 2 - INSTALLATION RECOMMENDATIONS

For the installation of Pjl servo gearbox, follow the "Recommendations" chapter in the general manual (ref. 2557).

### 2.1 - Description

Pjl servo gearboxes have one or two planetary gearboxes. Unpainted machined parts are protected.

### 2.2 - Installation

For the connection of the servo gearbox unit, follow the instructions in the servo gearbox and servo motor (and brake) manuals supplied with the package. Unpack the unit, remove the protection devices and clean the shaft. The servo gearbox must be assembled on its holder without placing stress upon the housing. 12.9 screws must be used to secure the servo gearbox to the machine. Pinions or pulleys must be mounted without any impact on the output shaft. Only use appropriate tools. Pjl servo gearboxes can be mounted in any position.

## 3 - LUBRICATION

Maintenance-free Pjl servo gearboxes are permanently lubricated with synthetic grease.

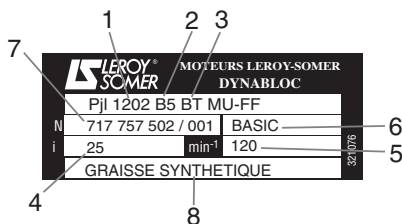
**Servicing: None**

## 4 - TECHNICAL CHARACTERISTICS

Necessary information

**a) from the servo gearbox nameplate :**

- 1- servo gearbox model and size ;
- 2- operating position
- 3- fixing form : BT
- 4- exact reduction
- 5- output speed (min<sup>-1</sup>)
- 6- backlash : BASIC
- 7- serial number
- 8- lubrication



**b) Where a servo motor is fitted to the servo gearbox, from the servo motor nameplate :**

(for the servo motor : see the corresponding manual)

- servo motor type, example : **95UMB300CACAA**

## 5 - INSTRUCTIONS FOR DISMANTLING AND REBUILDING



Only use appropriate tools (screwdriver, adequately-sized torque wrenches) or contact a service centre (see back of servo motor manual) or a Leroy-Somer approved centre. Contact one of the centres to ensure the original standard of the product is maintained.

### 5.1 - Dismantling

- Uncouple the servo gearbox from the machine.
- Servo gearboxes have a radial screw coupling.
- If possible, uncouple the servo motor in a vertical position with the servo gearbox below.

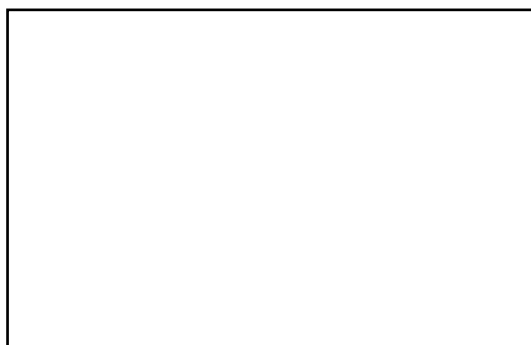
### 5.2 - Rebuilding

- Proceed in the reverse order to dismantling.
  - Servo gearboxes have a radial screw coupling.
  - The diameter of the servo motor shaft can be adapted using a slotted ring.
  - The servo motor is positioned in relation to the servo gearbox by the shaft and not by the centring of the flange.
  - Servo motor shafts have a key, which is to be removed
- 1) Mount the groove opposite the ring slot.
  - 2) Clean the servo motor shaft, the bore and the mating surfaces.
  - 3) Position the ring slot at a 90° angle in relation to the locking screw.
  - 4) Position the coupling screw so as to enable it to be accessed via the relevant opening in the housing.
  - 5) Assemble the servo motor (in a vertical position, if possible) on the servo gearbox and the intermediate flange.
  - 6) Tighten the coupling screw until the tightening torques specified in the table below are reached.
  - 7) Prevent access to the screw using a plastic plug.

Type Pjl	Locking screw (12.9)	Dimensions when flat (mm)	Tightening torque (N.m)	Diameter Access to locking screw
0501, 0502	M 06	3	5,6	6
0701, 0702	M 08	4	9,5	8
0901, 0902	M 10	5	23	15
1201, 1202	M 12	6	45	18
1551	M 16	8	78	20
1552	M 12	6	45	18

**Pjl**  
**Servo gearboxes**  
NOTES





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