Before starting any maintenance work, carefully check if the rod or the body of the cylinder are damaged or wear. If yes, it is recommended to replace the cylinder immediately and do not proceed with the maintenance.

Before starting any maintenance work carefully check the maintenance kit to correspond to the model of cylinder for which is required.

Before starting any maintenance work carefully check this step-by-step manual to correspond to the model of cylinder which is required.

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The complete assembled kit along with this step-by-step service manual is result of Special Springs research for the most useful maintenance operation for Special Springs nitrogen gas cylinders. Few minutes and the Special Springs nitrogen gas cylinders are regenerated as new one.

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I. SKUDO REMOVAL.

1. Manually remove the protective cap SKUDO. Do not use force. Fragile cap! Once removed, keep the cap securely in the body, do not substitute SKUDO to further reassembly.

2. Remove the protective screw cap from the charging hole by using the appropriate tool and remove the SKUDO screw. SKUDO screw can be removed by using KE12000 A compass wrench.

3. Thread the CCS discharge device into the charging port from the outside and remove the skudo screw. CCS screws are provided with the kit.

4. Hang and release the cover while using the special key to open the safety device OSPAS. High risk of damage

5. Remove the safety device OSPAS from the safety device from the charging hole.

6. Position the retaining C-ring into the control panel for charging.

II. DISCHARGING + VALVE REMOVAL for self-contained cylinders.

1. Open up the safety device by V.

2. Remove the protective screw cap from the charging port for the V-G port.

3. Thread the CCS discharge device into the charging port from the inside and remove the skudo screw. CCS screws are provided with the kit.

4. Hang and release the cover while using the special key to open the safety device OSPAS. High risk of damage

5. Remove the safety device OSPAS from the safety device from the charging hole.

6. Position the retaining C-ring into the control panel for charging.

III. OSPAS REMOVAL.

1. To remove the safety device OSPAS, a rework is required to remove the aluminium seal from the hole base of the safety device OSPAS. Then using a special tool as shown on the drawing, take off the safety device

2. The hole into which the new guide and the inner cover will be mounted is a small hard task.

3. To improve the new guide and the inner cover, the hole into which the new guide and the inner cover will be mounted is a small hard task.

4. Remove the safety device OSPAS from the safety device from the charging hole.

V. UPPER RING NOT REMOVAL.

1. Quickly unfasten the OSPAS from the upper ring nut on the inner guide and check if it is properly fitted into the hole and into the body when the safety device OSPAS is positioned

2. Pay the best attention to the right orientation of the cartridge.

3. When directly charging throught the O ring to the body, the gas tap. For an easy and safety charging operation it is recommended to double check the gas tap. The gas tap is the hole to the body when the safety device OSPAS is positioned.

4. Thread the upper ring nut onto the new guide and the new piston rod/cartridge completely into the tube and mount it into the body when the safety device OSPAS is positioned

VI. RETAINING RING REMOVAL.

1. Position and thread the upper ring nut onto the new guide and the new piston rod/cartridge completely into the tube and mount it into the body when the safety device OSPAS is positioned

2. Check the correct assembly of the retaining C-ring into the control panel for charging.

3. Adjust the required maximum pressure through the bleed valve on the bottle. The gauge on the right will indicate the desired, allowed pressure to charge the cylinder.

VII. PISTON ROD + CARTRIDGE REMOVAL.

1. Thread the protective screw into the pusher for opening the cartridge. For an easy and safety operation it is recommended to double check the gas tap. The gas tap is the hole to the body when the safety device OSPAS is positioned

2. Position and thread the upper ring nut onto the new guide and the new piston rod/cartridge completely into the tube and mount it into the body when the safety device OSPAS is positioned

3. Check the correct assembly of the retaining C-ring into the control panel for charging.

4. Adjust the required maximum pressure through the bleed valve on the bottle. The gauge on the right will indicate the desired, allowed pressure to charge the cylinder.

VIII. CLEANING AND INSPECTION.

1. Carefully clean the lodging hole of the safety device OSPAS has been removed the piston and cartridge from the cylinder body before removing the safety device OSPAS. High risk of damage

2. Grease all over around the cartridge by using the special grease detector. For an easy and safety operation it is recommended to double check the gas tap. The gas tap is the hole to the body when the safety device OSPAS is positioned

3. Grease all over inside the cartridge by using the special grease detector. For an easy and safety operation it is recommended to double check the gas tap. The gas tap is the hole to the body when the safety device OSPAS is positioned

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6. Check the correct assembly of the retaining C-ring into the control panel for charging. For an easy and safety operation it is recommended to double check the gas tap. The gas tap is the hole to the body when the safety device OSPAS is positioned

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