

Hy-Pro 9910-GS40GI

Hy-Pro 9910-GS40GI Pressure Regulator Repair Kit Instruction Manual

INTRODUCTION

This instruction manual provides detailed guidance for the installation and replacement of components within the Hy-Pro 9910-GS40GI Pressure Regulator using the Hy-Pro Repair Kit. This kit is designed to restore optimal performance to your pressure regulator, specifically addressing issues such as reduced pressure and flow often caused by a worn relief valve seat.

Proper installation of these components will help ensure the efficient operation of your spraying system by preventing flow bypass back to the tank.

SAFETY INFORMATION

- Always observe the following safety precautions when working with pressure systems:
- **Depressurize System:** Ensure the entire system is completely depressurized and all power sources are disconnected before attempting any repairs or maintenance.
 - **Wear Protective Gear:** Always wear appropriate personal protective equipment, including safety glasses and gloves.
 - **Consult Regulator Manual:** Refer to the original Hy-Pro 9910-GS40GI Pressure Regulator manual for specific disassembly and reassembly procedures if available.
 - **Use Correct Tools:** Use only the appropriate tools for disassembly and reassembly to prevent damage to components.
 - **Professional Assistance:** If you are unsure about any step, consult a qualified technician.

KIT CONTENTS

Each Hy-Pro Repair Kit for the 9910-GS40GI Pressure Regulator includes the following components:

- 1 x Relief Valve Seat (Part # 9910-110121)
- 1 x Tension Spring (Part # 9910-320420)
- 1 x Relief Valve Poppet Retainer (Part # 9910-320433)
- 1 x Gasket Seal O-Ring (Part # 9910-320511)
- 1 x Tension Spring Guide (Part # 9910-390140)



Image: Contents of the Hy-Pro 9910-GS40GI Pressure Regulator Repair Kit, showing the relief valve seat, tension spring, poppet retainer, gasket seal O-ring, and tension spring guide.

REPAIR INSTRUCTIONS

Follow these steps to replace the worn components in your Hy-Pro 9910-GS40GI Pressure Regulator:

1. **Prepare the Regulator:** Ensure the pressure regulator is isolated from the system and completely depressurized. Disconnect any hoses or lines connected to the regulator.
2. **Disassemble the Relief Valve Section:** Carefully locate and disassemble the section of the regulator that houses the relief valve. This typically involves removing a cap or housing that retains the internal components. Refer to your regulator's original manual for precise disassembly steps.
3. **Remove Old Components:** Once the relief valve section is open, remove the old relief valve seat, tension spring, relief valve poppet retainer, gasket seal O-ring, and tension spring guide. Inspect these parts for wear and tear.
4. **Clean the Housing:** Thoroughly clean the internal housing of the relief valve section to remove any debris or residue.
5. **Install New Gasket Seal O-Ring:** Place the new Gasket Seal O-Ring (Part # 9910-320511) into its designated groove. Ensure it is seated correctly and evenly.

6. **Install New Relief Valve Seat:** Insert the new Relief Valve Seat (Part # 9910-110121) into its position. This is a critical component for sealing and pressure regulation.
7. **Install New Tension Spring Guide and Poppet Retainer:**Place the new Tension Spring Guide (Part # 9910-390140) and then the new Relief Valve Poppet Retainer (Part # 9910-320433) into their respective positions.
8. **Install New Tension Spring:** Position the new Tension Spring (Part # 9910-320420) over the spring guide and poppet retainer.
9. **Reassemble the Regulator:** Carefully reassemble the relief valve section, ensuring all components are aligned correctly. Tighten any caps or housings according to the manufacturer's specifications, being careful not to overtighten.
10. **Test the System:** Reconnect the regulator to the system and slowly repressurize. Check for leaks and verify that the pressure regulation is functioning correctly. Adjust the regulator handle as needed to achieve the desired pressure.

TROUBLESHOOTING

If you experience continued issues after installing the repair kit, consider the following:

- **Reduced Pressure/Flow Persists:**
 - Ensure all new components are seated correctly and not damaged during installation.
 - Verify that the regulator housing is properly sealed and there are no external leaks.
 - Check other parts of your spraying system (pump, hoses, nozzles) for blockages or wear that might be contributing to low pressure.
 - Confirm that the regulator handle is adjusted correctly.
- **Leaks After Installation:**
 - Ensure the Gasket Seal O-Ring is correctly positioned and not pinched.
 - Check that all connections are tightened appropriately, but do not overtighten.
 - Inspect the regulator body for cracks or damage that might not have been addressed by the repair kit.

If problems persist, it may indicate issues beyond the scope of this repair kit, and further professional diagnosis may be required.

SPECIFICATIONS

This repair kit is specifically designed for the Hy-Pro 9910-GS40GI Pressure Regulator.

Repair Kit Components

Component	Part Number	Quantity per Kit
Relief Valve Seat	9910-110121	1
Tension Spring	9910-320420	1
Relief Valve Poppet Retainer	9910-320433	1

Component	Part Number	Quantity per Kit
Gasket Seal O-Ring	9910-320511	1
Tension Spring Guide	9910-390140	1

Material: Other (as per product specifications)
Item Package Quantity: 2 (Each package contains two complete repair kits)

© 2023 Hy-Pro. All rights reserved. For technical support, please refer to the official Hy-Pro website or contact your distributor.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question