

To: All Distributors
Regional Sales Managers and National Sales Manager

From: Nathaniel Frank, Regional Service Manager

Model: Automizer, Expert

Subject: Packer Regeneration Valve Identification and Troubleshooting

Certain Automizer and Expert bodies are equipped with an optional regeneration valve in the packer hydraulic circuit to increase the packer speed at idle.

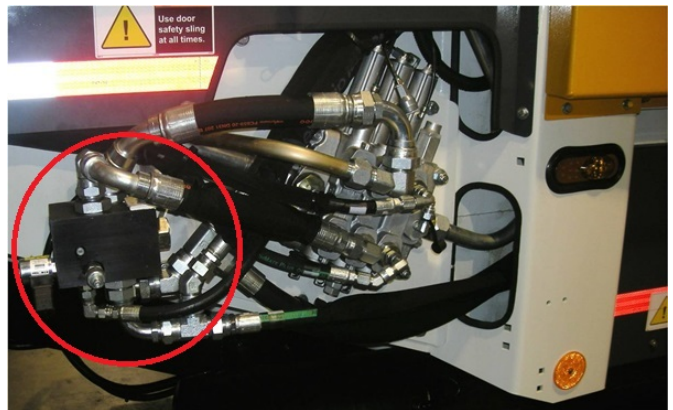
The regeneration valve accomplishes this by redirecting oil from the rod end of the packer cylinders to the head end while extending. The regeneration valve only works during compaction. It does not work when the packer retracts.

The regeneration valve is disabled when the engine speed reaches 1,000 RPM or pack pressure exceeds 2,000 PSI. How the regeneration valve is disabled depends on which version regeneration valve your unit is equipped with.

A malfunctioning regeneration valve can cause low packer pressure and reduced payload.

It is important to identify which version regeneration valve you have before troubleshooting.

To identify which version regeneration valve the body is equipped with locate the regeneration valve and record the part number.



The following describes the operation of each version regeneration valve:

- **HYV08200** uses a “normally closed” solenoid valve, when the engine speed is below 1,000 RPM the regen relay sends 12 volts to activate the solenoid valve which allows the regeneration circuit to function. When engine speed exceeds 1,000 RPM the regen relay deactivates the solenoid valve which disables the regeneration circuit. If at any time the packer extend pressure exceeds 2,000 PSI while the regeneration circuit is enabled a relief valve, located in the regeneration valve, will open and hydraulically disable the regeneration circuit until packer extend pressure falls below 2,000 PSI.
- **HYV08210** uses a “normally open” solenoid valve, when the engine speed is below 1,000 RPM there is no voltage supplied to the solenoid valve which allows the regeneration circuit to function. When engine speed exceeds 1,000 RPM the regen relay/multiplex module sends 12 volts to activate the solenoid valve which disables the regeneration circuit. If at any time the packer extend pressure exceeds 2,000 PSI while the regeneration circuit is enabled a relief valve, located in the regeneration valve, will open and hydraulically disable the regeneration circuit until packer extend pressure falls below 2,000 PSI.
- **HYV08215** operates the same as the HYV08210 except that it does not contain a relief valve. Packer pressure is monitored by the multiplex system via a pressure transducer mounted on the body main control valve. When packer pressure exceeds 2,000 PSI the multiplex module sends 12 volts to activate the solenoid valve which disables the regeneration circuit.

The following tips will help you troubleshoot a low packer pressure complaint on a unit equipped with a regeneration valve.

- Always verify pack valve main pressure first! (Reference Bulletin # 15-07)
- Perform a cylinder bypass test on both packer cylinders.
- Test the electrical response of the regeneration system: Increase the engine RPM when the packer moves forward; the packer should change speed (slowing down) when the engine reaches 1,000 RPM. If the packer does not slow down verify proper operation of the solenoid valve.
- If the packer pressure remains low contact the LabriePlus Service Department for more in-depth troubleshooting procedures.

The following replacement solenoids are available:

HYV00873 Solenoid w/ Coil	Fits HYV08200
HYV00874 Solenoid w/ Coil	Fits HYV08210 & HYV08215

Please contact the LabriePlus Service Department at (800) 231-2771 with any questions or for further information.