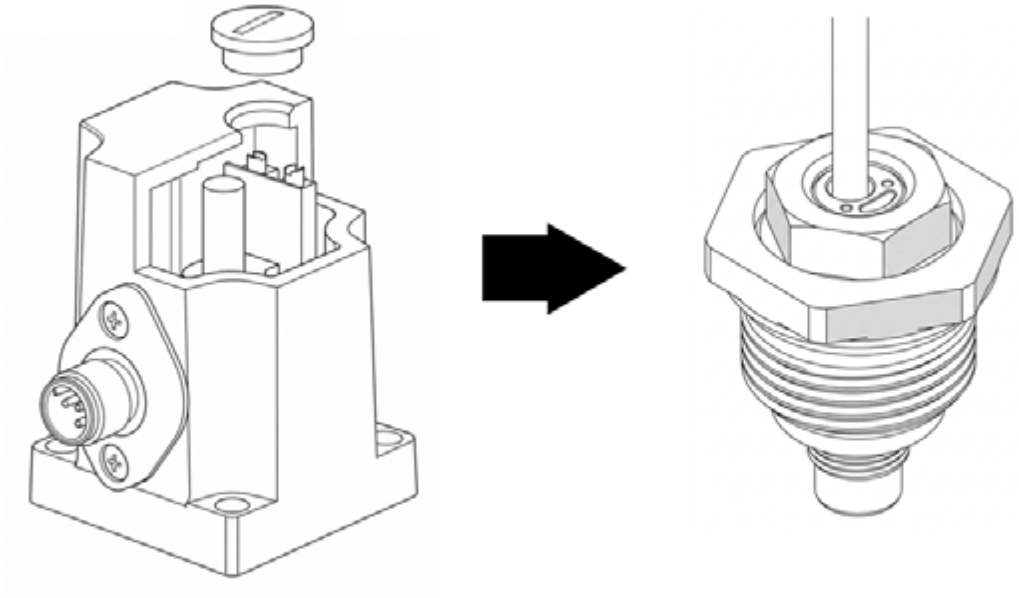
LIFCO HYDRAULICS INC

TECHNICAL ARTICLE
TA-LIF-004

LVDT TO CIP UPGRADE FOR PARKER PVPLUS

Identification, Correction and Acceptance Criteria



lifcohydraulics.com
1-800-895-4326

Lifco Hydraulics
149 Bud Mil Drive
Buffalo, NY 14206
United States

© 2026 All Rights Reserved.

Document no: TA-LIF-004
Product: Parker PVplus
Author: Andres Sabino
Date: 09/29/2026
Department: Engineering

1) Document Summary:

This article identifies the steps involved to upgrade to the CIP sensor on all Parker PVplus units.

2) The Problem:

The PV+ Design 47 introduces a new CIP sensor for electronic control. When upgrading from an earlier design to Design 47, there are changes in the sensor, counter sleeve, control module and a teach process for the right set up.

3) Control Module:

You will need the newest Control Module PQDXXA-Z10 which is compatible with the CIP. See figure 1 below.

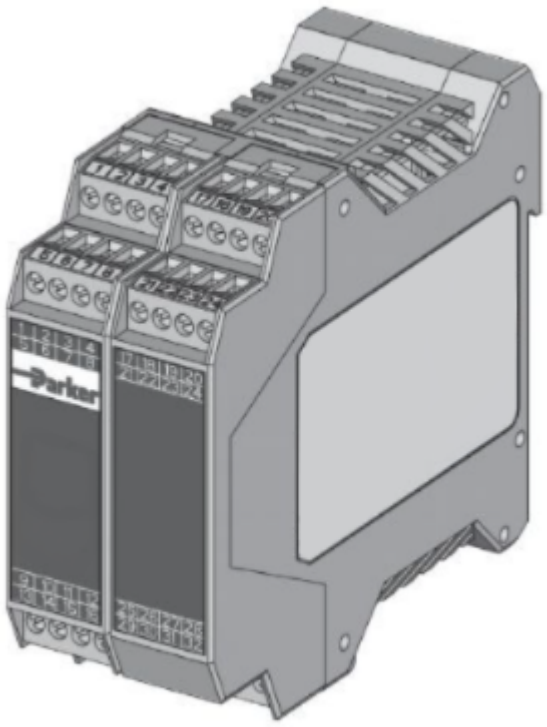


Figure 1: Control Module PQDXXA-Z10

4) CIP Sensor:

The new CIP sensor is RK-PV000CIP47 for all sizes and all electronic control options. The same cable and connector used with the LVDT can be used with the CIP sensor.

PUMP SIZE	FEEDBACK SLEEVE
PV016 - PV028	RK-PVBG1KH047
PV032 - PV046	RK-PVBG2KH047
PV063 - PV092	RK-PVBG3KH047
PV140 - PV180	RK-PVBG4KH047
PV270	RK-PVBG5KH047
PV360	RK-PVBG6KH047

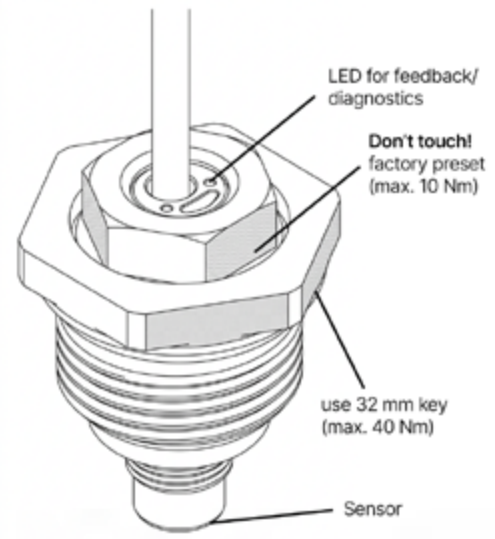


Figure 2: CIP Sensor RK-PV000CIP47

5) Calibrate the CIP Sensor:

Once the electronics module and pump are set up, the new CIP sensor has to be teach/ calibrated before operation. The teach adapter (RK-PV000CIPTEACH47) needs to be connected with CIP sensor.

6) Calibration Steps:

The following process can not take more than 2 minutes, otherwise the sensor will reset to the previous setting.

a) TYPE = S in the ProPVplus software.
b) Run the pump and WQ has to be set to 0%
c) When the pump is running, the test rig must be set to a pressure = 25 bar
d) Reset the CIP sensor by holding the button on the teach adapter for 8 seconds.
e) WQ is to be set at 0% and push the button for 3 seconds and the light in the CIP will flash one time per second.
f) With no displacement command push the button for 1 seconds and the LED in the CIP will flash 4 times per second.
g) At 100% command signal and push the button on the teach adapter for 1 second, Max displacement is defined and the LED on the sensor emits a permanent light.

7) When to contact Lifco Hydraulics:

If you still have questions or concerns about this upgrade or anything else on your unit.