SERVICE BULLETIN

Subject: D91 Parker Electro-Hydraulic Valve Retrofit

To Whom It May Concern:

Erie Strayer Company is proud to offer a replacement hydraulic four-way valve for our Parker Hannifin hydraulic systems. Parker hydraulics can be found on Erie mixers that were manufactured since 1991 and that have a contract number greater than 6370.

This new valve represents cutting edge technology in the hydraulic industry and will help modernize hydraulic systems on central mix batch plants. The technology in the new proportional valve lies in an integral electronic driver which combines all necessary electro-hydraulic control functions for optimal operation of the hydraulic system inside of the proportional valve.

Features of the D91 Valve

- Digital circuit design
- Four quadrant ramp functions
- Comfortable computer interface program
- Internally sealed on-board electronics
- Hydraulic settings preprogrammed from factory
- Computer interfaced diagnostics and programming

The D91 proportional valve not only replaces the D81 valve but also eliminates several other components on the hydraulic system. Items that are replaced or eliminated by the new valve include; the mixer ramp card, ramp card socket, LVDT assembly, LVDT cable, and both coil cable connectors. Reducing these additional components simplifies the hydraulic system by decreasing potential items for failure and easing the troubleshooting process. Installation will consist of removing the original valve and replacing it with the D91 unit. Wiring the proportional valve to the mixer j-box is done with a 12 conductor interface cable using 8 of the conductors. Wires on the interface cable are labeled and will need to be landed on the corresponding terminal strip in the mixer junction box. Installation can be done in less than two hours.

The following items will be needed to retrofit the D81 hydraulic system

P/N – 66071	D91 Proportional Valve, Internal Electronics
P/N – 66075	Interface Cable
P/N – 66074	Serial to USB adaptor
P/N – 66073	RS232 to mini USB cable

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Programming the maximum tilt / return speeds as well as the acceleration / deceleration function of the hydraulics will be done via laptop computer and Parker Hannifin ProPxD software which can be loaded onto any laptop that runs on the Windows XP operating system and has a USB port. This program also includes diagnostic features to help aid in the troubleshooting process. This is an optional feature for the D91 valve. All valves purchased from Erie will be pre-programmed from the factory with the appropriate settings for either a 50hp or 60hp system. If you request to program the valve on-site and access the computer diagnostic tools, we offer the following.

Optional programming accessories:

P/N – MINICPU Mini CPU with USB / valve software

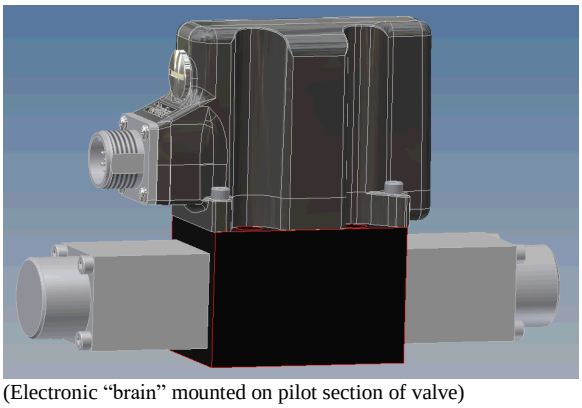
(any laptop with Windows operating system and USB port can be used)

Replacement parts for the D81 hydraulics are being discontinued by our supplier. We are being told that the P/N 60109 control card is expected to be withdrawn from the 2014 production schedule. Instead of investing in replacement parts for the D81 system, it is recommended to upgrade to the current D91 design when the opportunity is available. The above package replaces all of the below parts as well as two coil and LVDT connectors and cables.

D81 Parts Pricing

P/N – 60109	Ramp Card	Discontinued
P/N – 60700	LVDT	Discontinued
P/N – 60129	Proportional Valve	Discontinued
P/N – 60110	Ramp Card Holder	Discontinued

Feel free to call me with any questions you may have on this upgrade. I look forward to working with you.



(Electronic “brain” mounted on pilot section of valve)