

QuickStart setup instructions for JDRC 2000 and Dual-Product Gen3 LiquiShift

7. The SureFire pressure sensor will be set up as a **Custom** sensor. Calibration will be done later.

Setup Pressure Sensors

Pressure Sensor 1: Custom

Pressure Sensor 2: Custom

Pressure Sensor 3: None

Setup Sensor Assignment

Pressure Sensor 1

Product 1

Setup Sensor Assignment

Pressure Sensor 2

Product 1

Product 2

Setup Pressure Alarms

	Minimum	Maximum	Alarm
Pressure 1 (psi)	0	85	<input checked="" type="checkbox"/>
Pressure 2 (psi)	0	85	<input checked="" type="checkbox"/>

Checking the Alarm box will keep the system from going above 85 PSI. The system would work fine up to 95 PSI, but if it is running this high, check for restriction on the outlet side of the system and check to see if a larger diameter (or shorter) metering tube pair is needed.

8. Optional Aux Functions—RPM Sensors

Setup Aux Functions

RPM 1 Calibration Pulses/Rev: 15

RPM 1 Low Limit (rpm): 0 Alarm

RPM 1 High Limit (rpm): 500

RPM 2 Calibration Pulses/Rev: 15

RPM 2 Low Limit (rpm): 0 Alarm

RPM 2 High Limit (rpm): 500

Setup RPM Sensor Assignment

RPM Sensor 1

Product 1

Setup RPM Sensor Assignment

RPM Sensor 2

Product 1

Product 2

The QuickStart Card is a supplement to the full system manual (396-3583Y1) and the Gen3 LiquiShift Manual (396-4608Y1). This card and those manuals and other troubleshooting guides are available at www.surefireag.com/support.

⚠ WARNING

The operator is responsible for the safe operation of this equipment. Systems with hydraulic equipment require additional safety precautions to prevent serious injury and/or death.

9. Control Valve Setup

Valve Response Rate: (Adjust as needed)

PumpRight (hydraulic)	R1-90	
PR30-70	PR40-60	250-30
Tower (electric)	100	
Spartan	5-15	

If pump is slow responding to rate or speed changes, increase **Valve Response Rate** at a time. If product oscillates around rate going across the field, reduce **Valve Response Rate**.

Setup Control Valve

Product 1 Liquid

Control Valve Type: PWM Close

See Valve Response Rate (1-100) Above

Control Deadband (%): 2

Low Limit (Adjust in field as needed)

PumpRight (hydraulic)	25
Tower (electric)	10
Catalyst and Spartan	5

PWM Startup (Adjust in field as needed)

PumpRight (hydraulic)	35-40
Tower (electric)	10-25
Spartan	5-10

Tip for Best Startup Performance

For best startup performance, set the **PWM Startup** at or slightly above the normal operating PWM Duty Cycle (DC%). When the pump starts, it will go immediately to that Duty Cycle and then will have just a minor adjustment to lock on to the Target Rate.

Normal Operation	PWM Startup
37.1 DC (%)	PWM Startup 40.0 (%)

If pump starts up too fast, lower the PWM Startup.

Setup PWM

Product 1 Liquid

Coil Frequency (Hz): 100

High Limit (%): 80.0

Low Limit (%): 25.0

PWM Startup (%): 40.0

High Limit may be set lower to limit speed of pump



