Control Valve Type

PC12236—UN—10SEP09

A—Control Valve Type Drop-Down Menu

4. Select the Control Valve Type from the drop-down menu (A).

   Select None for systems that do not have a control valve. Dragline manure applications that do not have a control valve are an example.

PC12237—UN—10SEP09

PC20337—UN—25NOV14
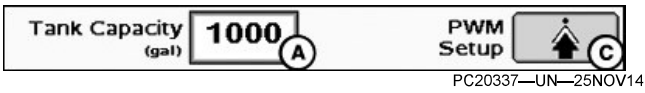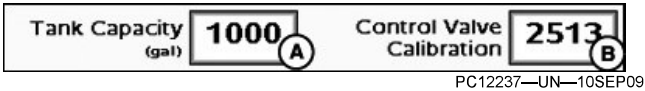
A—Tank Capacity Input Box
B—Control Valve Calibration Input Box
C—PWM Setup Button

5. Enter maximum volume in the Tank Capacity input box (A). Tank capacity range is 0–17,000, and it defaults to 3785 L (1000 gal).

6. For Standard, Fast, and Fast Close control valves:

   a. Enter the Valve Calibration Number (B).

   b. Continue to step 7.

   For PWM and PWM Close control valves:

   a. Select the PWM Setup button (C).

PC25297—UN—01FEB18

A—Control Valve Calibration Input Box
B—Coil Frequency Input Box
C—High Limit Input Box
D—Low Limit Input Box
E—Calibrate PWM Limits Button
F—Pump Standby Duty Cycle Checkbox

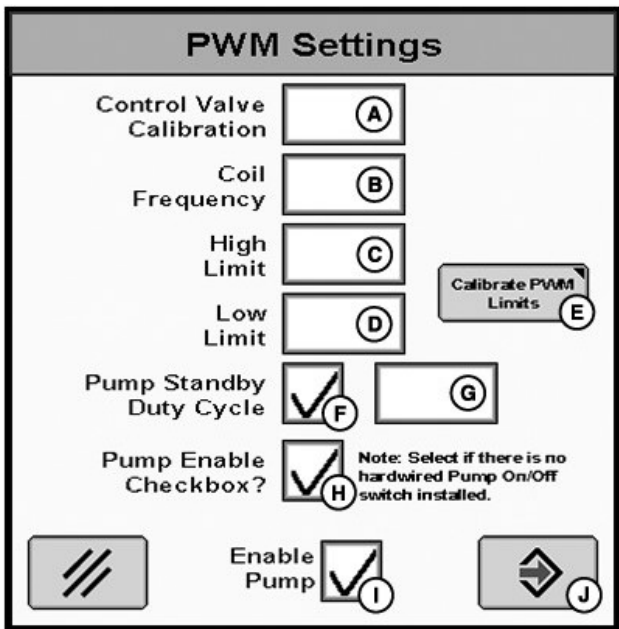**G—Duty Cycle Input Box**
H—Pump Enable Checkbox
I—Enable Pump Checkbox
J—Accept Button

   b. Enter Valve Calibration Number (A).

   NOTE: Table shows recommended values. Fine-tune control valve calibration valve for optimal performance.

   (Reference fine-tuning procedure in Troubleshooting for more information.)

Standard Valve Type	Valve Calibration Number (XXYZ)
Raven 165	2513
Raven 894	2513
Raven 125	2513
TeeJet®	1003
HARDI®	7051

TeeJet is a trademark of Spraying Systems Company
HARDI is a trademark of HARDI Midwest Incorporated

Fast-Close Valve Type	Valve Calibration Number (XXYZ)
Raven 177	0753
HINIKER™ Servo Valve (8160 Monitor Compatible)	0433
KZCO® Servo Valve (John Deere 2510 Liquid Fertilizer system)	1031

HINIKER is a trademark of Hiniker Company
KZCO is a trademark of KZCO Incorporated

PWM-Close Valve Type	Valve Calibration Number (XXYZ)
Sauer-Danfoss™ Hagie MFG T540	1533
Command Controls Corporation FV1501	1411

Sauer-Danfoss is a trademark of Sauer-Danfoss Incorporated

   c. Enter the Coil Frequency (B) for PWM and PWM Close valve. Coil Frequency default value is 122.

   (Refer to control valve manufacturer Operator's Manual for proper coil frequency value.)

   d. Define PWM Limits to control minimum and maximum desired flow, or control pressure. This is to prevent machine damage and ensure quick system response.

   Define limits manually by entering high and low limits into input boxes (C and D). High and low limit ranges are 0–255.

   Otherwise, select Calibrate PWM Limits button (E), and follow on-screen steps to perform