### OPTIONS

**NOTE:** Press YES at each field to advance to the next field. Pressing YES to ACCEPT OPT at the end of the menu is mandatory to confirm all changes made in the OPTIONS menu.

- **Lock:** This is the security level setting. Press YES to accept or NO to change Lock Setting. Enter access code if prompted. Press YES to accept new setting.

- **HRLY TOT:** This is the hourly infusion totals. Press YES to leave the screen off or NO to change to ON, then press YES to ON to view. Use the UP/DOWN ARROW keys to view the previous 24 hour totals. Press NO to exit the screen.

- **CLR HRLY:** Press YES to leave the screen off or NO to change to ON, then press YES to ON to view. At the ACCEPT?/YES/NO field, press YES to clear or NO to retain the Hourly Totals and exit the screen.

- **DN Occl:** This is the downstream occlusion sensitivity setting (default setting is LOW). Press YES to accept or NO to change then press YES to accept.

- **AIR SENS:** This is the air-in-line sensitivity setting (default setting is 0.5 mL). Press YES to accept or NO to change then press YES to accept.

- **POWER CK:** This is the power source with power graph. Press YES to leave the screen off or NO to change to ON, then press YES to ON to view the power graph. Screen automatically returns to OPTIONS menu after several seconds.

- **ACCEPT OPT:** Press YES to accept any changes made. Pressing NO will cancel any setting changes.

### CHANGING THE SOLUTION CONTAINER

1. Press the PAUSE key.
2. Change the solution container.
3. Highlight REPEAT RX, then press YES.
4. Highlight correct therapy if requested, then press YES.
5. If any on-screen alerts appear, press the YES key.
6. Note any on-screen ADVISORY and press YES to continue.
7. The program will auto-scroll (or confirm each field by pressing YES).
8. Press RUN to start the infusion.

### CHANGING THE RX

- **(BAG VOL, # DOSES, KVO, Amt TBI, RATE, TIME)**

1. Press the PAUSE key.
2. Press YES to RESUME.
3. Press NO to review.
4. Press YES to each field until the value to change is reached.
5. At the desired field(s), enter the new program parameters (enter access code if prompted). If no access code was needed, enter the new parameters again. Press YES to confirm.
6. Press YES to all other highlighted areas if no other changes are to be made.
7. At DONE? press YES.
8. Press RUN to start the infusion.

### TROUBLESHOOTING:

**NOTE:** For all alarms except “INFUSION COMPLETE,” follow these instructions before proceeding to the RESOLUTION section below. To silence and exit Alarm/Alert screens, press the PAUSE key, press YES to RESUME, then resolve the alarm. When ready to resume the infusion, press RUN to start the infusion.

#### LCD DISPLAY/RESOLUTION/POSSIBLE CAUSES

- **INFUSION COMPLETE**
  - Press PAUSE, attach new solution container, highlight REPEAT RX and press YES. The program will auto-scroll (or confirm each field by pressing YES). If therapy is complete, turn pump off.

- **AIR-IN-LINE**
  - Press the PRIME key, then follow on-screen instructions to remove air from the tubing and IV bag. CAUTION: Disconnect set from patient's access site before priming. Sets with in-line AVSs must be primed on the pump.

- **ALARM DOWN OCCLUSION**
  - Down occlusions auto-correct when occlusion is resolved without the need to press PAUSE. Check the tubing from pump to patient’s IV site for cause, then correct obstruction per protocol. Consider changing the DN Occl setting from LOW to HIGH (See OPTIONS section). Possible causes: kinked or clamped line, infiltrated/positional IV site, viscous solution, small gauge catheter.

- **ALARM UP OCCLUSION**
  - Check tubing from pump to IV bag for cause, then correct obstruction per protocol. Possible causes: glass container without vented spike adapter, line kinked in pump door, bag empty, bag not spiked properly.

- **ALARM HIGH UP PRESSURE**
  - Check for excessive pressure on IV bag. Causes: uneven fluid distribution within lockbox or carrying pouch, object pressing on solution container.

- **ALARM SET NOT INSTALLED**
  - Use only Curlin administration sets. Check that set is installed properly. Refer to Instructions for Use in set package or Installing Administration Set section in this guide. Possible causes: tab not removed from yellow Flow-Stop, blue guide pin or yellow Flow-Stop not properly seated in receptacles, no set installed.

- **ALARM UNATTENDED**
  - The pump will alarm when left idle for 2 minutes. Press RUN to start the infusion or press OFF to power down the pump.

- **ALARM REPLACE SET 3**
  - Replace set and prime if necessary. Possible causes: flattening of the soft pumping segment of the set due to overuse, use of a glass container without a vented spike adapter, excessive plunger stiction with syringe use.

- **ALARM REPLACE SET 4**
  - Equalize the pressure in the set by priming (disconnect from the patient). Turn pump OFF then ON to reset the sensor prior to resuming the infusion.

- **ALARM DOOR OPEN**
  - Check placement of the administration set and close pump door properly. See User’s Manual for instructions.

- **ALARM EMPTY BATTERY**
  - Turn pump off by pressing the OFF key. Install 2 new batteries and turn pump back on.

- **ERROR CODE**
  - If an error code occurs, turn pump off and consult provider or manufacturer.
INSTALLING/CHANGING THE BATTERIES
1. PAUSE the pump.
2. Turn the pump OFF.
3. Open the battery door by sliding the gray “slider” to the right to the “UNLOCK” position and slide the door down to remove.
4. Remove old batteries from the top first. Insert new batteries bottom or flat side against the coins first, then push the top side into place.
5. Replace door and return slider to “LOCK” position and turn pump ON.
6. Press YES to PROGRAM (or LIBRARY if using the protocol LIBRARY).
7. Press YES to RESUME (or YES to Repeat RX if current container has not begun or if changing the container).
8. Press RUN to start.

INSTALLING THE ADMINISTRATION SET
1. Open pump door.
2. Remove the old tubing.
3. Remove the new administration set from the package.
4. Twist and remove breakaway tab from YELLOW Flow-Stop.
5. Locate the BLUE and YELLOW arrows inside the pump as a reference point.
6. Insert the tubing using the reference points.
7. Ensure the tubing passes through the notch in front of the door hinge.
8. Center tubing over pumping fingers.
9. Close the door securely. Be sure top of door is flush with top of the pump.

PRIMING THE SET
NOTE: Review program settings prior to priming.
NOTE: Filters must be primed in the upright position (do not invert). Refer to Instructions for Use in set package.

BY GRAVITY:
NOTE: To remove air from IV bag, turn bag upside down after attaching the set and gently squeeze bag while priming until air is eliminated from the bag.
1. Twist and remove breakaway tab from YELLOW Flow-Stop prior to connecting to solution container.
2. Squeeze YELLOW Flow-Stop between thumb and forefinger to allow fluid to flow through tubing.

BY PUMP:
NOTE: Therapy must be programmed and administration set must be installed into the pump prior to pump priming. Sets with in-line ASV must be primed on the pump.
1. Release any clamps on the administration set.
2. Press the PRIME key from the “RUN TO START” screen.
3. Press and hold the PRIME key until set is free of air; release PRIME key to stop (each prime cycle allows up to 6 mL of fluid).
4. Press the YES key to exit priming.

PROGRAMMING A VARIABLE THERAPY USING MANUAL PROGRAM MODE
NOTE: When operating the pump on battery power, the LCD screen dims after a period of time to conserve battery power. Any keypress will illuminate the screen.
NOTE: Use the UP/DOWN ARROW keys to move highlighter. Use the numeric keys for data entry.
1. Turn the pump ON and wait for the self-test to complete.
2. Highlight PROGRAM from the select menu and press YES.
3. Highlight NEW PROGRAM and press YES. Enter access code, if prompted.
4. Highlight VARIABLE from the therapy selection menu and press YES. If any on-screen alerts appear, press the YES key.
6. Select units: Press YES if units desired is indicated (choices are mg, mcg or mL). To change units press NO until desired unit is reached, then press YES to confirm. If mg or mcg is selected, enter the concentration and press YES.
7. Press YES to leave the Delayed Start Off, or press NO to set a delay and refer to the Delayed Start section.
8. At Next? Press YES to continue.
9. Enter Bag Volume, press YES.
10. Enter # DOSES, press YES (# DOSES is the number of rate changes or “steps” for the therapy).
NOTE: If a KVO rate of 0.1 to 10 mL is entered, the pump will give audible alerts every 20 minutes at the end of the infusion. Whereas if zero KVO is entered the pump will alarm every 3 seconds at the end of the infusion.
11. Enter KVO rate (if any), press YES.
13. Enter Amt (if known), press YES.
14. Enter RATE (if known), press YES.
15. Enter TIME (if known), press YES.
16. Continue pressing YES if needed until the NEXT? field is highlighted.
17. At Next? Press YES to continue.
18. Continue to enter Amt, RATE and TIME for each of the subsequent doses, pressing YES to confirm each.
NOTE: If the remaining bag volume is to be infused on the final dose, enter the entire bag volume in the Amt TBI field. An Alert will appear on the screen, alerting the user the MAX amount that can be entered. When the final dose screen returns, enter the maximum amount listed into the Amt TBI field and press YES to confirm. Continue entering the RATE and TIME, pressing YES to confirm each.
19. At Next? Press YES to continue.
20. The last screen is the Summary screen. Press YES after TOT DOSES, TOT TIME and REQ VOL to confirm each value.
21. Press YES at DONE?

PROGRAMMING A VARIABLE THERAPY USING PROTOCOL LIBRARY MODE
NOTE: When operating the pump on battery power, the LCD screen dims after a period of time to conserve battery power. Any keypress will illuminate the screen.
NOTE: Use the UP/DOWN ARROW keys to move highlighter. Use the numeric keys for data entry.
1. Turn the pump ON and wait for the self-test to complete.
2. Highlight LIBRARY from the select menu and press YES.
3. Highlight NEW PROGRAM and press YES. Enter access code, if prompted.
NOTE: While YES is highlighted in the Page Down field, press YES to move to the next page while in the CAT (category) and DRG (drug) menus.
4. Highlight the desired CAT, press YES.
5. Highlight the desired DRG, press YES.
6. Press YES to ACCEPT?
7. If any on-screen alerts appear, press the YES key.
8. Note any on-screen ADVISORY and press YES to continue.
9. Press YES to confirm the dosing UNIT.
10. If a concentration is present, ensure the concentration matches the medication container. If correct, press YES to confirm.
11. Press YES to leave the Delayed Start Off, or press NO to set a delay and refer to the Delayed Start section.
13. Accept pre-programmed values for BAG VOL, # DOSES and KVO if they are correct, by pressing YES to each field.
14. If changes are needed to the pre-programmed values, highlight the desired field and press NO. Enter the correct value and press YES.
15. Continue as above until NEXT? is highlighted.
17. Accept pre-programmed values for Amt TBI, RATE and TIME for each dose if they are correct, by pressing YES to each field.
18. If changes are needed to the pre-programmed values, highlight the desired field and press NO. Enter the correct value and press YES.
19. At the NEXT? field in each dose, press YES to continue.
20. Press YES to each value in the summary screen: TOT DOSES, TOT TIME, REQ VOL.
21. Press YES at DONE?

“RUN TO START” SCREEN
1. Press the NO key to review the program and/or change the RX (see CHANGING THE RX section for instructions).
2. Press the OPTIONS Key to review or change desired pump settings (see OPTIONS section for instructions).
3. Press the PRIME Key to prime the set (see Priming section for instructions).
4. Press RUN to start the infusion.

SETTING A DELAYED START
1. At the Delay field, press NO to OFF, then press YES to ON.
2. Enter Time infusion should begin (HH:MM), press YES.
3. Enter Date infusion should begin (MM/DD/YY), press YES.
4. Press YES to ACCEPT.