

# Quick Start Precifill™ Pump



**Filling Oral Dispensers**

### **Possible Consumables Needed**

1. Tubing set (see below)
2. Block holder (ORAL)
3. Oral Adaptor – luer/slip for oral liquids
4. Master IV Syringe (see below)

1. Pump set choice for production requirements.

Cat BX-3051	Precifill™ pump set (large bore) volumes over 5ml/any viscous
Cat BX-3052	Precifill™ pump set (small bore) volumes under 5ml/ any IV drugs

2. Choose the Master Syringe to be used for this production.

\*Master Syringe must be BD luer lock IV Syringe

Volume to be Filled	Size of Master Syringe	Port #
0.1 mL to 2.7 mL	3 cc	1
2.7 mL to 9.5 mL	10 cc	3
9.5 mL to 999 mL	30 cc	2

3. Assemble tubing set: attach Master Syringe (remove white cap), oral adaptor (remove green cap) and anchor (remove red cap). Discard all caps and white paper wrap.



#### Prime the tubing

4. Place long tubing end into the bottom of liquid container. Point oral adaptor end of tubing into the liquid container and draw back plunger on master syringe to expel air. Repeat until tubing is filled with liquid and liquid is flowing out of the adaptor into the solution container. Fully compress master syringe.

Note: BX-3051 Tubing Set Prime Volume = 31mL  
BX-3052 Tubing Set Prime Volume = 8mL

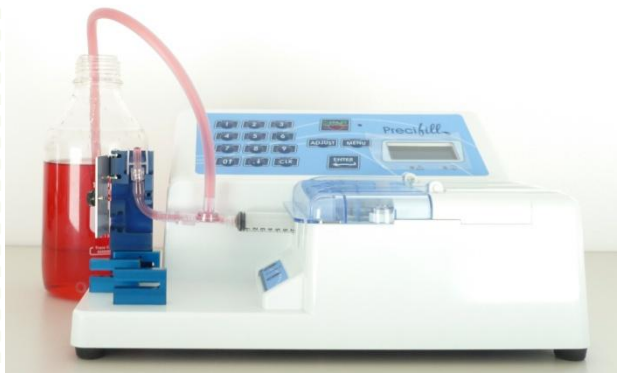


5. Turn pump power "On" (back plate).

#### Install tube assembly in pump

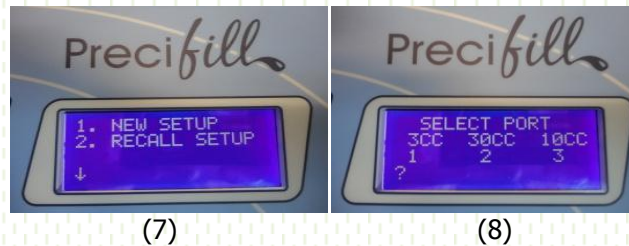
6. Raise blue cover and install master syringe into selected port (table 2 above). Syringe plunger and finger flanges on barrel must be inserted flat side down and securely into grooves. Close cover.

Slide Block Holder onto appropriate post opposite the active port and thread the tubing with oral adaptor into grooves on Block Holder (as shown below). Set Block Holder away from the Master Syringe to remove stress on tubing and tighten the finger screws on the Block Holder and metal door until firm. \*\*Do not over tighten\*\*

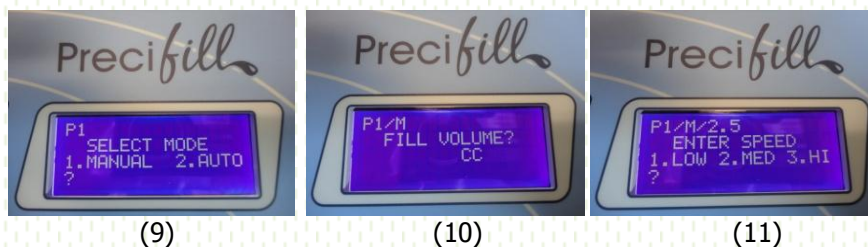


### Set Operating Parameters

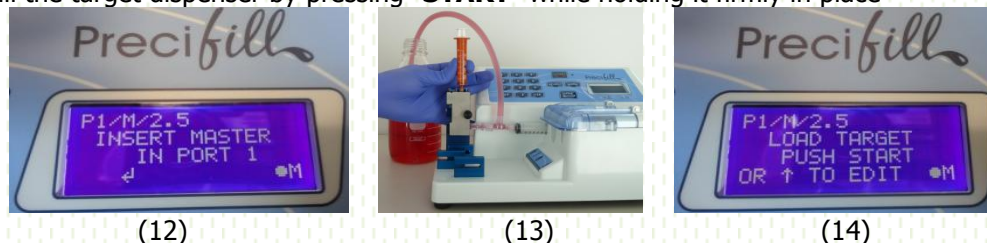
7. Select No. **1** "NEW SETUP"
8. Select the port being used (table 2 above);  
**1** (3mL), **2** (30mL) or **3** for (10mL) + "Enter"



9. Select the operating mode **1** "MANUAL" + "Enter"
10. Enter the drug volume required in cc. + "Enter"
11. Select the speed; "LOW", "MED" or "HI". (Low for viscous liquids, Med or High for non-viscous liquids) + "Enter"

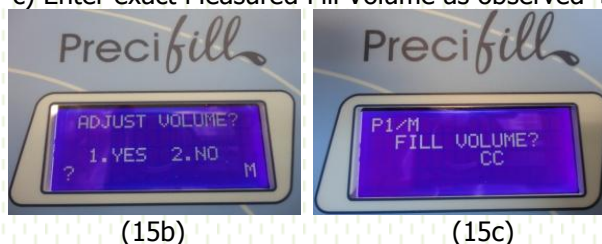


12. Confirm master syringe is placed in correct port. Press "Enter"
13. Place target oral dispenser into adaptor tip and hold firmly in place
14. Fill the target dispenser by pressing "START" while holding it firmly in place



### Calibrate Pump

15. Verify volume and adjust (only) if necessary – otherwise continue to (16) below.
  - a) Press "Adjust" button
  - b) "ADJUST VOLUME". Press **1** (YES) + "Enter"
  - c) Enter exact Measured Fill Volume as observed + "Enter"



Fill an **unused target oral dispenser** with a production dose (14 above). Confirm correct volume is achieved (normally only one adjustment needed) or redo "Adjust" calibration until correct.

d) Next Screen is STORE SETUP? 1. YES or 2. NO > Press **2** "NO" + "Enter" (Calibration is stored automatically; choosing store setup is for the overall program not the calibration).

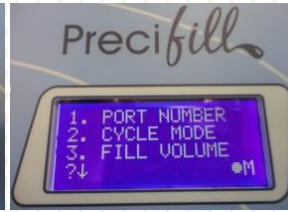
**YOUR PUMP IS NOW PRIMED, CALIBRATED AND READY FOR REPEATED FILLING.**

### Auto Filling Settings

16. a) Press **↑** to EDIT
- b) Select **"2"** (CYCLE MODE)
- c) "SELECT MODE". Press **"2"** (AUTO) + **"Enter"**



(16a)



(16b)

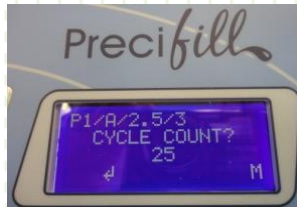


(16c)

- d) "IDLE TIME". Enter delay (sec) between fills + **"Enter"** (choice of 1 to 99 seconds)
- e) "CYCLE COUNT". Enter number of production fills + **"Enter"**
- f) "EXIT". Press **"9"** (EXIT) to exit EDIT function (or **↓** and then **"9"**)



(16d)



(16e)



(16f)

### 17. Start production

Place unused target oral dispenser in oral adaptor and hold firmly in place.

Press **"START/STOP"** to begin the filling process.

When the target oral dispenser is filled (the cycle is completed), remove it from the oral adaptor, replace it with another unused target oral dispenser and hold firmly as the next cycle begins. Verify the fill volume of the filled oral dispenser and place a cap on it. Repeat for all cycles.

To halt production at any time press **"START/STOP"**.

18. After production is complete, remove tubing set from pump, remove anchor (NOT DISPOSABLE), discard used tubing assembly and clean pump and block holder thoroughly.

**Note: Please see "PreciFill™ Pump Operating Manual for more detailed instructions.**



# Quick Start Precifill™ Pump



**Filling Oral Unit Dose Vials**

### **Possible Consumables Needed**

1. Tubing set (see below)
2. Extension set – Special bore tubing
3. Master IV Syringe (see below)

1. Pump set choice for production requirements.

Cat BX-3051	Precifill™ pump set (large bore) volumes over 5ml/any viscous
Cat BX-3052	Precifill™ pump set (small bore) volumes under 5ml/ any IV drugs

2. Choose the Master Syringe to be used for this production.

\*Master Syringe must be BD luer lock IV Syringe

Volume to be Filled	Size of Master Syringe	Port #
0.1 mL to 2.7 mL	3 cc	1
2.7 mL to 9.5 mL	10 cc	3
9.5 mL to 999 mL	30 cc	2

3. Assemble tubing set: attach Master Syringe (remove white cap), extension set (remove green cap) and anchor (remove red cap). Discard all caps and white paper wrap.



#### Prime the tubing

4. Place long tubing end into the bottom of liquid container. Point extension end of tubing into the liquid container and draw back plunger on master syringe to expel air. Repeat until tubing is filled with liquid and liquid is flowing out of the extension set into the solution container. Fully compress master syringe.

Note: BX-3051 Tubing Set Prime Volume = 31mL  
BX-3052 Tubing Set Prime Volume = 8mL



5. Turn pump power "On" (back plate).

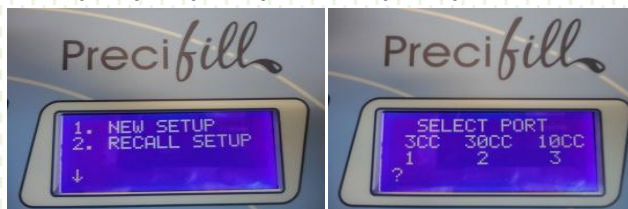
#### Install tube assembly in pump

6. Raise blue cover and install master syringe into selected port (table 2 above). Syringe plunger and finger flanges on barrel must be inserted flat side down and securely into grooves. Close cover.



### Set Operating Parameters

7. Select No. **1** "NEW SETUP"
8. Select the port being used (table 2 above);  
**1** (3mL), **2** (30mL) or **3** for (10mL) + "**Enter**"



(7)

(8)

9. Select the operating mode **1** "MANUAL" + "**Enter**"
10. Enter the drug volume required in cc. + "**Enter**"
11. Select the speed; "LOW", "MED" or "HI". (Low for viscous liquids, Med or High for non-viscous liquids) + "**Enter**"

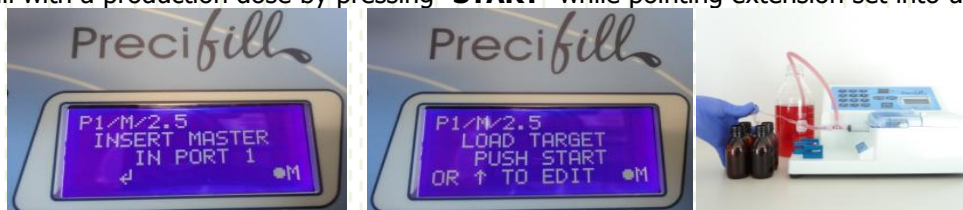


(9)

(10)

(11)

12. Confirm master syringe is placed in correct port. Press "**Enter**"
13. Secure target unit dose vial and point extension set into it
14. Fill with a production dose by pressing "**START**" while pointing extension set into unit dose vial



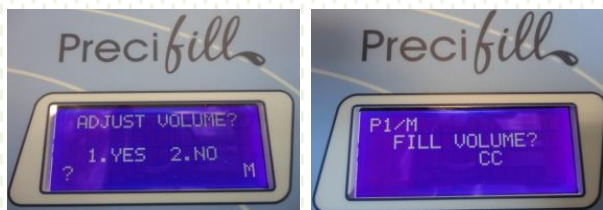
(12)

(13)

(14)

### Calibrate Pump

15. Verify volume and adjust (only) if necessary – otherwise continue to (16) below.
  - a) Press "**Adjust**" button
  - b) "ADJUST VOLUME". Press **1** (YES) + "**Enter**"
  - c) Enter exact Measured Fill Volume as observed + "**Enter**"



(15b)

(15c)

To validate accuracy fill a graduated cylinder with a production dose (14 above). Confirm correct volume is achieved (normally only one adjustment needed) or redo "Adjust" calibration until correct.

d) Next Screen is STORE SETUP? 1. YES or 2. NO > Press **2** "NO" + "**Enter**" (Calibration is stored automatically; choosing store setup is for the overall program not the calibration).

**YOUR PUMP IS NOW PRIMED, CALIBRATED AND READY FOR REPEATED FILLING.**

#### Auto Filling Settings

16. a) Press **↑** to EDIT  
b) Select **"2"** (CYCLE MODE)  
c) "SELECT MODE". Press **"2"** (AUTO) + **"Enter"**



(16a)

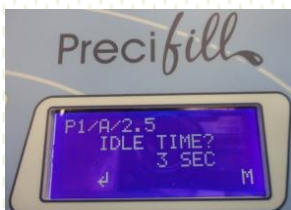


(16b)

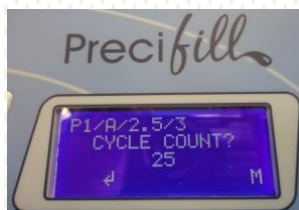


(16c)

- d) "IDLE TIME". Enter delay (sec) between fills + **"Enter"** (choice of 1 – 99 seconds)
- e) "CYCLE COUNT". Enter number of production fills + **"Enter"**
- f) "EXIT". Press **"9"** (EXIT) to exit EDIT function (or **↓** and then **"9"**)



(16d)



(16e)



(16f)

#### 17. Start production

Point extension set into unit dose vial.

Press **"START/STOP"** to begin the filling process.

When the unit dose vial is filled (the cycle is completed), point the extension set into a new empty unit dose vial and wait for the next cycle to begin. Verify the fill volume of the filled vial and place a cap on it. Repeat for all cycles.

To halt production at any time press **"START/STOP"**.

18. After production is complete, remove tubing set from pump, remove anchor (NOT DISPOSABLE), discard used tubing assembly and clean pump thoroughly.

**Note: Please see "PreciFill™ Pump Operating Manual for more detailed instructions.**



# Quick Start

## Precifill™ Pump



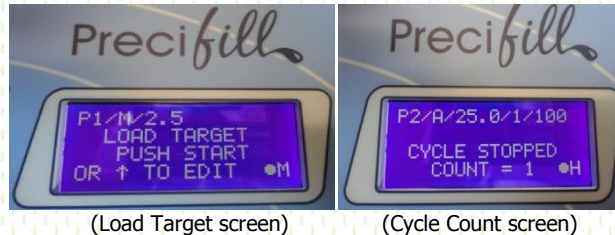
**Using the Recall Setup Function**

**THE RECALL SETUP FUNCTION IS INTENDED FOR USE ONLY AFTER AN INITIAL SETUP HAS BEEN COMPLETED; PLEASE REFER TO THE APPROPRIATE QUICK START OR USER MANUAL FOR INSTRUCTIONS.**

**PLEASE VERIFY THE FILL VOLUME AT THE START OF ANY PRODUCTION RUN.**

### Store Operating Parameters

- After Setup & Calibration are complete (see Quick Start guides or User Manual) access the Edit Menu.
  - \* At the LOAD TARGET screen, press "↑".
  - \* In Automatic mode, at the CYCLE COUNT SCREEN, press "**Menu**" followed by **2** "MODIFY".



(Load Target screen)

(Cycle Count screen)

- Scroll through the screens & select "**SAVE**". Confirm selection; press **1** "YES".
- A Store location (a #) is automatically generated.
  - \* To Store at that location press "**Enter**".
  - \* To Store at a different location press "**Clear**" so that the store location no longer appears, press "**Enter**", then repeat the Store process.



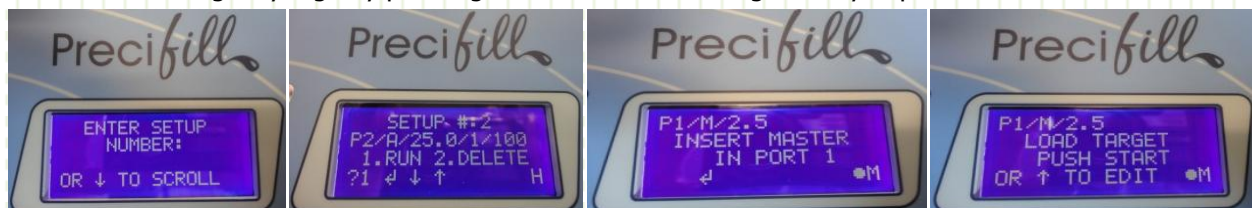
(3)

### Setup Pump

- Select Tubing set, Master Syringe, Target adaptor & liquid to fill – MUST BE THE SAME AS ORIGINAL SETUP.
- Assemble, prime and install tubing set (see Quick Start guides or User Manual).
- Turn pump power ON (switch on back plate).

### Recall Operating Parameters

- In the Main Menu, select **2** "RECALL SETUP".
- Select setup to recall. Use the **NumPad** or **Arrow keys** to scroll through Store Locations & press **1** "RUN" to select.
  - \* Settings are: Port/Mode/Fill Volume/Idle Time/Cycle Count.
- Confirm master syringe is placed in correct port. Press "**Enter**"
- Place target syringe onto adaptor tip and hold firmly in place
- Fill the target syringe by pressing "**START**" while holding it firmly in place



(8)

(8\*)

(9)

(10)

### Calibrate Pump

12. Verify volume and adjust (only) if necessary – otherwise continue to (16) below.
  - a) Press **"Adjust"** button
  - b) "ADJUST VOLUME". Press **1** (YES) + **"Enter"**
  - c) Enter exact Measured Fill Volume as observed + **"Enter"**



(10b)



(10c)

Fill an **unused target oral dispenser** with a production dose (9 above). Confirm correct volume is achieved (normally only one adjustment needed) or redo "Adjust" calibration until correct.

d) Next Screen is STORE SETUP? 1. YES or 2. NO > Press **2** "NO" + **"Enter"** (Calibration is stored automatically; choosing store setup is for the overall program not the calibration).

**YOUR PUMP IS NOW PRIMED, CALIBRATED AND READY FOR REPEATED FILLING.**

### Auto Filling Settings

13. a) Press **↑** to EDIT
- b) Select **"2"** (CYCLE MODE)
- c) "SELECT MODE". Press **"2"** (AUTO) + **"Enter"**



(16a)

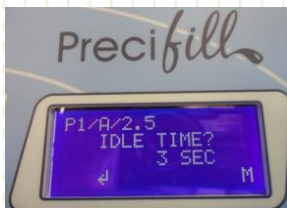


(16b)

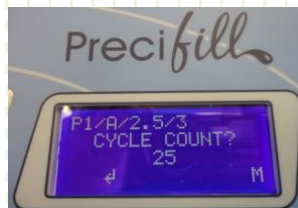


(16c)

- d) "IDLE TIME". Enter delay (sec) between fills + **"Enter"** (choice of 1 to 99 seconds)
- e) "CYCLE COUNT". Enter number of production fills + **"Enter"**
- f) "EXIT". Press **"9"** (EXIT) to exit EDIT function (or **↓** and then **"9"**)



(16d)



(16e)



(16f)

### 14. Start production

Place unused target syringe in oral adaptor and hold firmly in place.

Press **"START/STOP"** to begin the filling process.

When the target oral dispenser is filled (the cycle is completed), remove it from the adaptor, replace it with another unused target oral dispenser and hold firmly as the next cycle begins. Verify the fill volume of the filled oral dispenser and place a cap on it. Repeat for all cycles.

To halt production at any time press **"START/STOP"**.

15. After production is complete, remove tubing set from pump, remove anchor (NOT DISPOSABLE), discard used tubing assembly and clean pump and block holder thoroughly.

**Note: Please see PreciFill™ Pump Operating Manual for more detailed instructions.**