

Check the pump totals

The totals are set to zero when the pump is switched on, but can be recalled, for example if the pump is being used on the same patient.

TVD - total volume delivered - accumulates from one infusion to another

PVD - program volume delivered, or

PDD - program dose delivered - shows the dose delivered with the current programmed infusion settings since the pump was switched on

Check/change the occlusion limit setting

You can change the occlusion limit setting before starting the infusion or if you pause the infusion and press **OPTIONS**.

- To check the setting, press **OPTIONS** to display the Options menu
- Press a number to choose **VERRIDE OCCL LIMIT**. The screen shows the current occlusion limit setting
- If the setting is correct for the infusion, press **BACK**. To change the occlusion limit, press a number to select low, normal or high, then press **ENTER** to continue.

Start the infusion

- The screen displays all the programmed settings. Verify that these are correct.

- Press **START** to start the infusion

PRESS <START> TO BEGIN INFUSION	
PVD	0.00 ML
RATE	5.2 ML/HR
MAIN MENU	CHG RATE OPTIONS CLEAR TOTALS

- The running screen displays the occlusion trend graph

B-D	60ML	TVD	0.020 ML
		PVD	0.020 ML
		RATE	5.2 ML/HR
LOCK	CHG RATE	TITRATE	CLEAR TVD

- Observe the pressure on the occlusion trend graph and watch for any changes

Administering a bolus

The pump can deliver a preset amount as a bolus, at the fastest rate for the syringe, or at a rate you enter. The values for bolus dose and bolus time can be entered as part of the programming sequence; or from the Options menu; or entered when you administer the bolus.

Deliver a bolus while the pump is infusing

- Press **BOLUS**, if a dose has been set up, it is displayed

BEGIN BOLUS DELIVERY?		
BOLUS	2.5 ML	
TIME	00:10 MM : SS	
	RATE	900 ML/HR
YES	CHG BOLUS	NO

- Press **YES** to start delivering the bolus dose as displayed, or press **CHG BOLUS** to change the dose or time

Set up or change a bolus dose

If no bolus has been set up, or if you press **CHG BOLUS**, the pump displays the bolus dose and time screens, so you can enter the required dose.

ENTER BOLUS DOSE - PRESS ENTER TO CONTINUE			
MAX:	60		
MIN:	0.1	2.5	ML
DISABLE	CLEAR	BACKSPACE	ENTER

ENTER BOLUS TIME - PRESS ENTER TO CONTINUE			
		00:30	CURRENT SETTING
MAX:	15:00		
MIN:	00:30	00:30	MIN :SEC
	CLEAR	BACKSPACE	ENTER

To see these bolus screens before starting the infusion, press **OPTIONS** to display the Options menu, then press the number for **BOLUS DOSE**.

smiths medical

Smiths Medical ASD, Inc.
St. Paul, MN 55112, USA
Phone: 1-214-618-0218
Toll-Free USA: 1-800-258-5361

www.smiths-medical.com

Smiths Medical is part of the global technology business Smiths Group plc.



EC Authorized Representative
Smiths Medical International Ltd.
WD24 4LG, UK
Phone: +44 (0) 1923 246434

Medfusion and the Smiths Medical design mark are trademarks of the Smiths Medical family of companies. The symbol © indicates the trademark is registered in the U.S. Patent and Trademark Office and certain other countries. ©2009 Smiths Medical family of companies. All rights reserved. 8/09 193815-SP

smiths medical

bringing technology to life

Medfusion™ Syringe Pump

Model 3500 Version 3.0.6

Quick Reference Guide

For complete instructions, warnings and cautions please refer to the Operation Manual



Switching on

- Connect the pump to the power source
- Press **POWER** to switch on the pump, then observe the self-test. When this is complete the pump displays the main menu - the Delivery Mode screen:

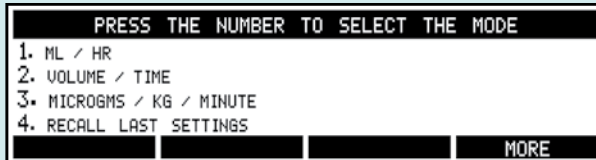
PRESS THE NUMBER TO SELECT THE MODE			
1.	ML / HR		
2.	VOLUME / TIME		
3.	MICROGMS / KG / MINUTE		
4.	RECALL LAST SETTINGS		
			MORE

If the pump does not turn on with a successful completion of self-tests, remove it from service.

medfusion™

Select the delivery mode

The main menu displays the delivery modes and any custom configurations on the pump. This is an example of the main menu:



1. Press a number on the keypad to select a mode. For example, on the screen above, press 1 to select the ML / HR mode, for continuous infusion.

The other options on this example screen are:

VOLUME / TIME - enter the volume and time, the pump calculates the rate

MICROGMS / KG / MINUTE - enter the rate based on the mcg / kg of patient's weight / minute

RECALL LAST SETTINGS - use the program settings and recall the totals from the previous infusion

Note: If delivery protocols are programmed into the pump, the libraries are displayed in addition to the delivery modes

Select syringe type

The syringe manufacturers on this screen were setup in Custom Configuration.

If only one manufacturer / type has been custom configured on the pump, you do not see this screen.

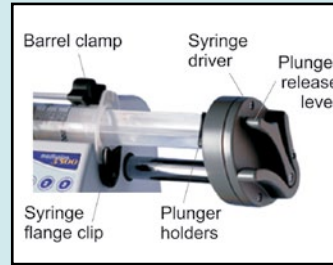
1. Once you have chosen the delivery mode, the screen displays the syringe manufacturers available on the pump
2. Press a number on the keypad to select the syringe type



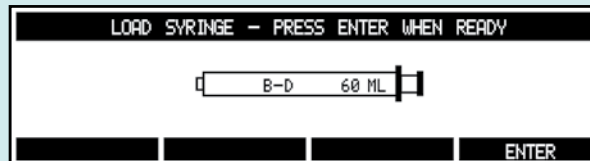
Load syringe

Follow your standard protocol for preparing the syringe and tubing and filling the syringe. Clamp the tubing before you start to load the syringe into the pump.

1. Lift the barrel clamp and swivel it away from the syringe trough - rest it on the handle



2. Squeeze the plunger release lever and pull it gently to extend the syringe driver
3. Place the syringe into the trough so that the syringe flange is held between the clip and the side of the pump
4. Squeeze the plunger release lever again and slide the syringe driver to touch the syringe plunger
5. Release the lever, so that the plunger holders close around the syringe plunger
6. Turn the barrel clamp and lower it onto the syringe
7. Check that the correct size is displayed on the screen

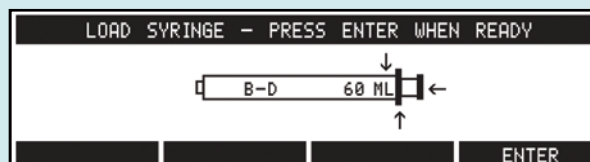


8. Thread the tubing through the strain relief hooks and select **ENTER** to continue

Syringe loading - troubleshooting

If the syringe is incorrectly loaded, the pump displays arrows to show the problem:

- ↑ check flange clip
- ← check plunger
- ↓ check barrel clamp



Enter the rate for a continuous infusion


If you select ML / HR as the delivery mode, you must enter the infusion rate once you have loaded the syringe.

1. Enter the rate using the numeric keypad





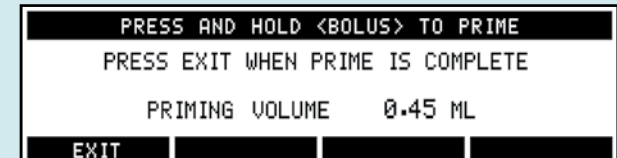
2. Use **CLEAR** or **BACKSPACE** to change the value. The **MAX** and **MIN** values show the programming limits. When the rate is correctly displayed, press **ENTER**. The limits are calculated by the pump.

Prime the system

Before you connect to the patient, always use the  button to prime the system:

- To remove all air from the tubing
- To remove the mechanical slack in the pump and syringe, which significantly reduces the start-up time

1. Ensure that the tubing is disconnected from the patient and open the clamps
2. Press  to display the Priming screen
3. Press and hold  to start the flow of fluid



4. Observe the patient's end of the system - a steady drip shows that all air has been expelled. Release the button when priming is complete.
5. Select **EXIT** to leave the Priming screen