

Ambu ACTION™ Pain Pumps: CLINICAL TRAINING GUIDE

Ambu

Ambu Regulator

How to set the ACTION Pain Pump Flow Rate



Remove blue lock guard.



The white dial is sitting in the dial base. Hold the blue reservoir with white dial base in your non-dominant hand and gently pinch the center white dial between your thumb and pointing finger. Gently pick the dial center up and adjust accordingly.



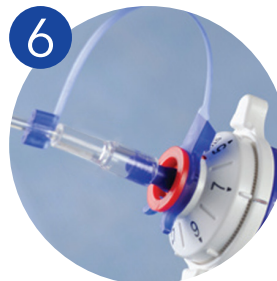
Please notice, the regulator is supplied in its maximum flow rate setting from the manufacturer. Please dial clockwise to select the desired flow rate. Rotate the white dial and align with the black position indicator. Numbers on dial represent mL/hr.



Caution: Regulator is equipped with a positive stop at max and min flow rates. Do not use force to go past the positive stop, as this may damage the regulator.



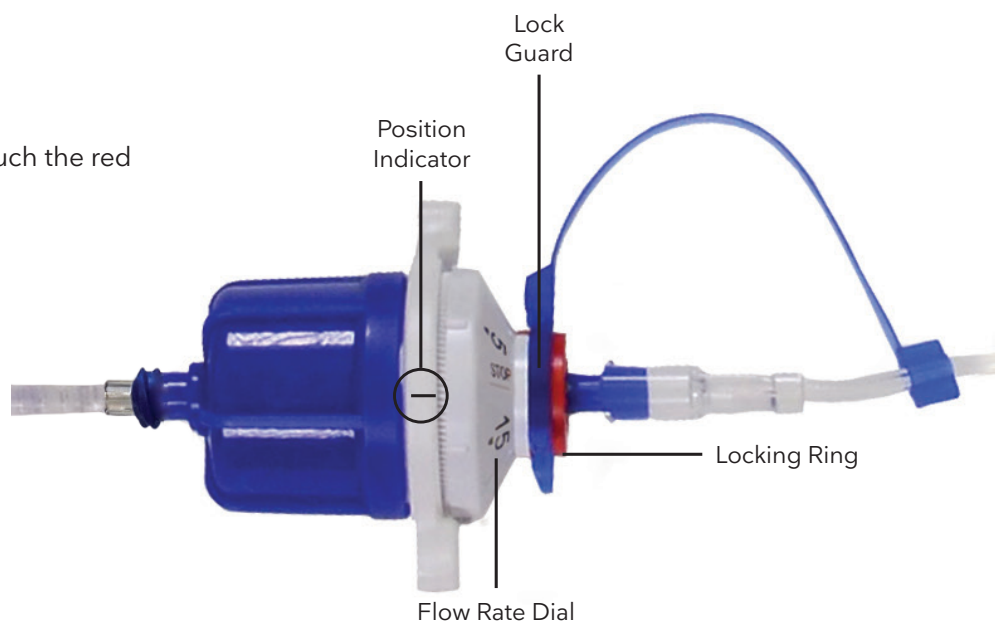
Push the white dial back in place to set flow rate. Avoid pressing the red ring at all times.



To secure flow rate temporarily, insert blue lock guard between the red ring and the white dial.



Please **DO NOT** touch the red locking ring



For questions regarding the Ambu ACTION Pain Pump, please call our 24 hour clinical hotline: (800) 395-2890

Ambu Regulator

Locking the Regulator



1 Remove blue lock guard.



2 The white dial is sitting in the dial base. Hold the blue reservoir with white dial base in your non-dominant hand and gently pinch the center white dial between your thumb and pointing finger. Gently pick the dial center up and adjust accordingly.



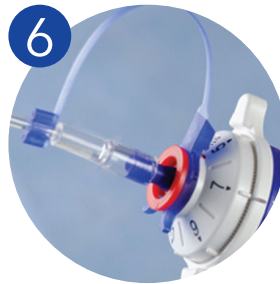
3 Please notice, the regulator is supplied in its maximum flow rate setting from the manufacturer. Please dial clockwise to select the desired flow rate. Rotate the white dial and align with the black position indicator. Numbers on dial represent mL/hr.



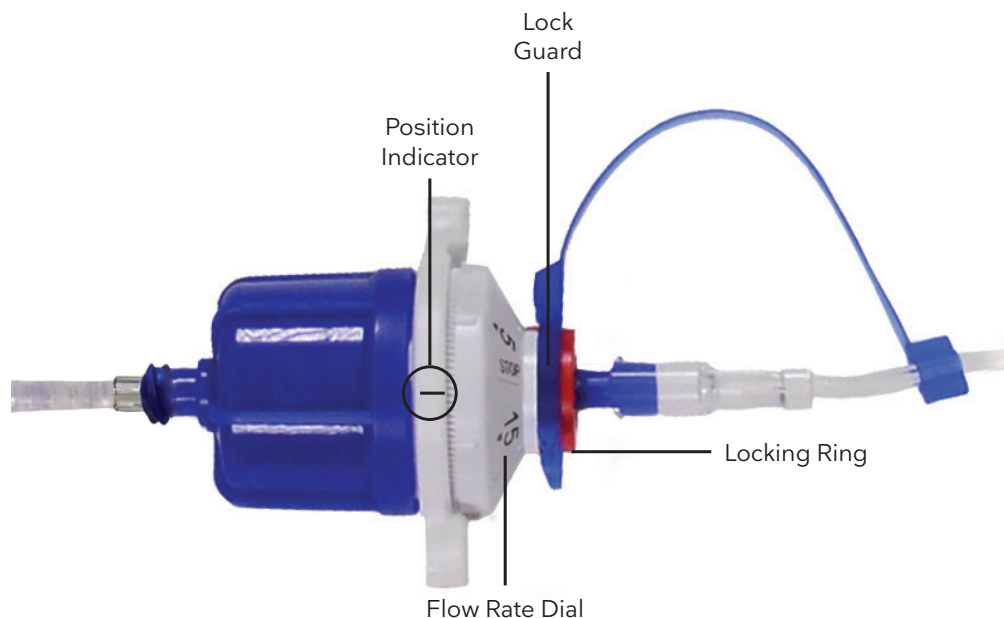
Caution: Regulator is equipped with a positive stop at max and min flow rates. Do not use force to go past the positive stop, as this may damage the regulator.



5 Push the white dial back in place to set flow rate. Avoid pressing the red ring at all times.



6 To permanently lock flow rate, remove Lock Guard and press ring down. There will be a tactile and audible response. The regulator can not be unlocked.



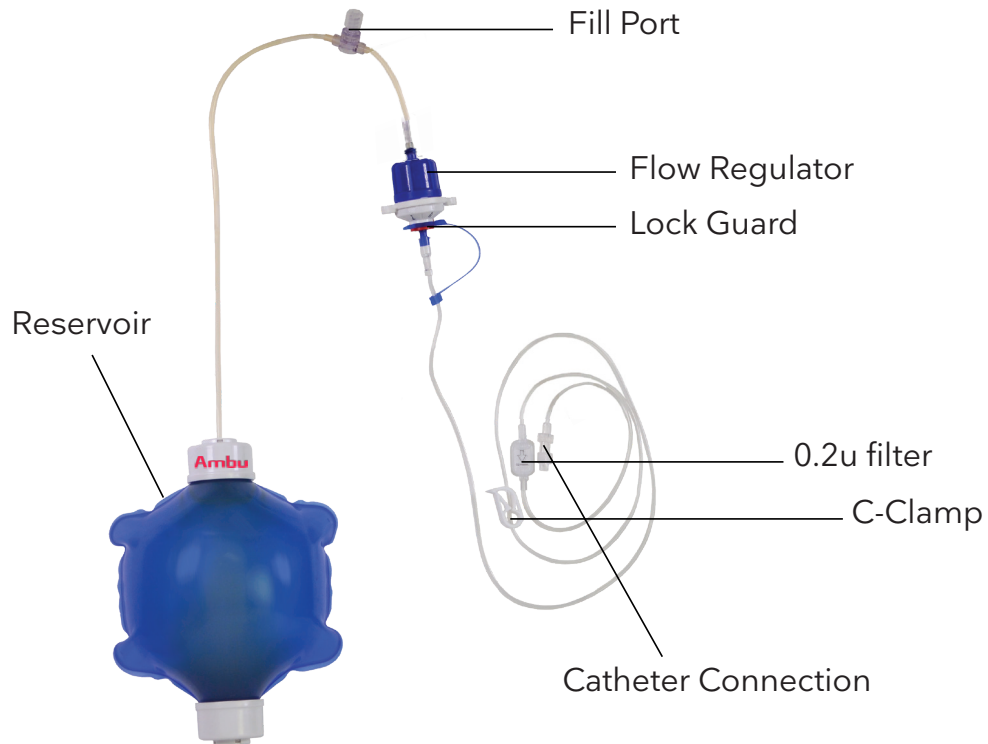
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Ambu ACTION Pain Pump Packaging

Single Patient use pain pump management

- What's included

3



The Ambu ACTION Pain Pump kit is composed of:

1. Assembled pain pump (Reservoir with integrated Regulating Set)
2. 60 mL syringe and medication labels
3. Carrying pouch and lock
4. Catheter For Wound Infiltration (Only included in Ambu ACTION Fuser Pumps)

The Ambu ACTION Pain Pump is NOT intended for:

Intravenous, intra-arterial delivery of blood, blood products or lipids

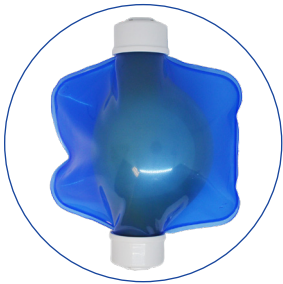
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Single patient use pain pump management system

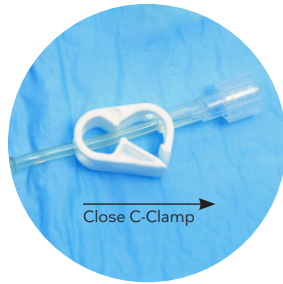
The Ambu ACTION Pain Pump allows the physician to customize the post-operative pain management therapy for the patient. The intended use of the Ambu ACTION Pain Pump is to deliver pain relief for continuous peripheral nerve blocks (Ambu ACTION Block Pain Pumps) and wound infiltration (Ambu ACTION Fuser Pain Pump).

Filling And Priming Ambu ACTION Block Pain Pump

Filling the pump



Remove the Ambu Pain Pump from the sterile package



Close the C-Clamp positioned at the distal end.



Remove the cap and fill the reservoir through the check valve using the 50/60 mL syringe included in the set.



Place the cap back on the inlet port of the check valve.

Priming



Remove cap in distal end of tubing.

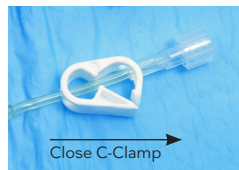
Reminder

Block & Fuser Pumps: Once the pain pump has been primed, set the Regulator dial to the prescribed flow rate and close the C-Clamp when there are no visual air bubbles in the tubing.

MultiBolus II: There is no need to make any additional priming of the Bolus device and its tubing. Please note, that the actual volume of the first activated bolus will be about 1 mL less than normal.



For priming purposes, the regulator is set to the highest setting out of the package with the Lock Guard engaged. For example, on the 1-6 mL/hr regulator use the 6 mL/hr setting. For the 5-15 mL/hr regulator use the 15 mL/hr setting. Confirm flow rate is set to the highest setting.



Once the medication has passed through the 0.2 micron filter and the fluid has reached the catheter connection port, visually confirm there are no air bubbles left in the tubing and then close the C-Clamp.



WARNING

- Prior to connecting the regulation set exit port to the catheter verify that there is a slow drip from the exit port.

ACTIVATING THE MULTIBOLUS II

Setting and Activating the MultiBolus™ II

Bolus settings (Optional)

Select the optimal bolus volume based on the patient's individual needs. The Ambu MultiBolus II can be adjusted to 0, 3, 4, 5, or 6 mL.

1. To select the desired volume of MultiBolus II align the arrow with the digit by moving the blue adjustment ring (picture 1a and 1b).
2. Secure and lock the selected volume by turning the lock 180° clockwise (picture 2).
3. To permanently lock the MultiBolus II volume, push the lock inward (picture 3).
4. Once locking pin is engaged, MultiBolus II volume is permanently set.



Activating the MultiBolus™ II

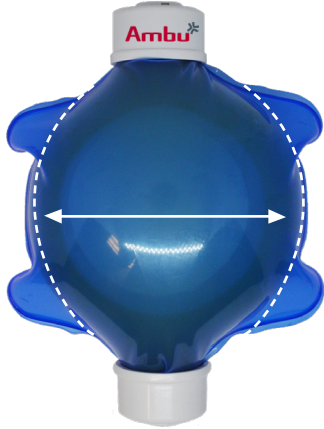
1. The Ambu MultiBolus II can deliver up to a 6 mL bolus in less than one minute.
2. To fully activate MultiBolus II, completely grip and squeeze the blue activating lever until you hear an audible click. Next, release blue activating lever.
3. Once the bolus has been completely evacuated from the MultiBolus II, you will hear a second click, which will signal the refilling of the MultiBolus II.



* MultiBolus II has a max refill rate of 6 mL per hour.

* MultiBolus II volume can only be adjusted before filling or immediately following delivery of a bolus.

Ambu ACTION Pain Pump Reservoir Guide



Full Reservoir



The reservoir shape may vary depending on time and flow rate.



Empty Reservoir

5 Ambu ACTION Pain Pump Configurations

Examples of ACTION Pump and Accessories

Basic Pump Set

- Single regulating set



Dual Catheter Set

- Basic Pump Set
- 1 Flow Splitter



Basic Pump Set with MultiBolus II

- Basic Pump Set
- MultiBolus II Set



Dual Flow Rates Set

- Basic Pump Set
- Y-Tubing Set
- Additional Regulating Set



6 Ambu ACTION Components



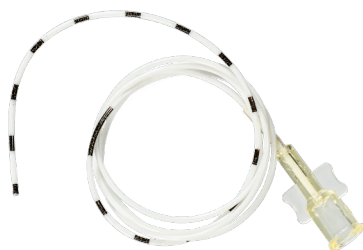
Flow Splitter



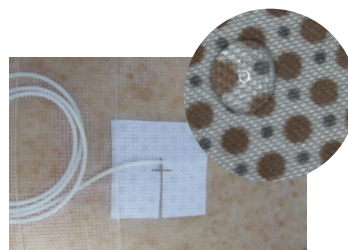
Y-Tubing



MultiBolus™ II



Catheter for Wound Infiltration



Procellera Antimicrobial Wound Dressing



Regulator

Troubleshooting - In case of breakthrough pain or the surgical area is not numb

1 Ensure the C-Clamp is open.

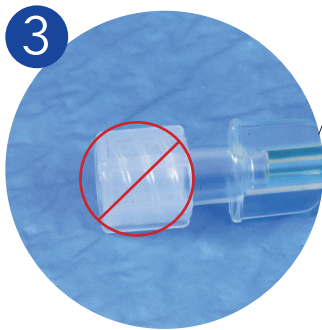
7 Occasionally, it may appear the medication is not flowing through the tube as intended. This is normal given the very slow flow of medication. Please contact your doctor or the Ambu 24 Hour Hotline (800) 395-2890 in case of pain.



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The Reservoir with medication may not appear to reduce in size during the first 24 to 48 hours. If you follow the inspection above the infusion pump should be delivering the volume as prescribed.

2 Confirm that the filter is not taped to the patient's skin.



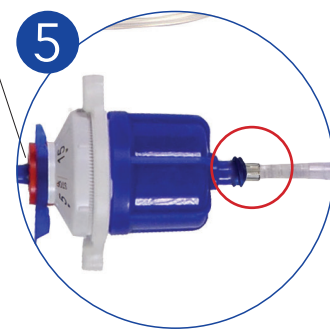
3

Ensure cap is removed before connecting to catheter.



4

Confirm regulator is dialed to the correct flow rate.



5

Verify infusion tubing doesn't kink.

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Key Features

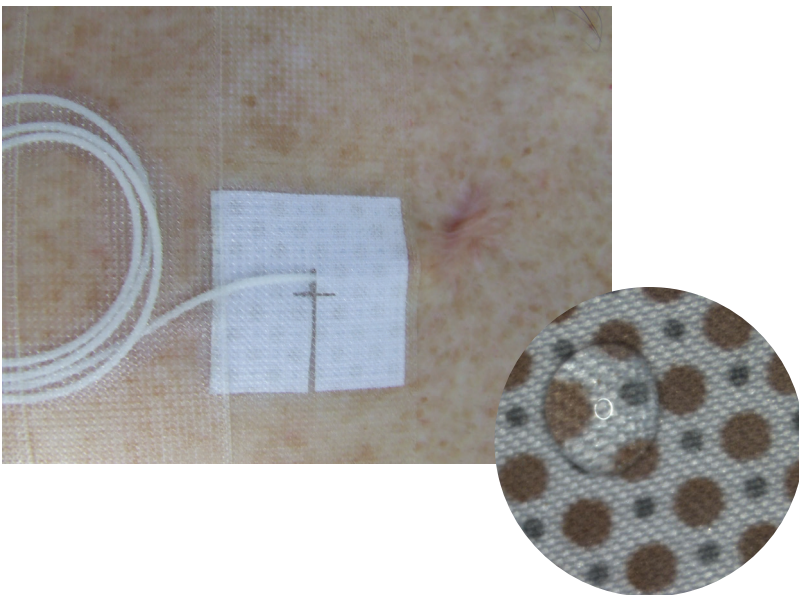
The Procellera is an absorbent polyester containing silver and zinc that provides an effective microbial barrier.

The Procellera has been proven effective against various bacterial and microbial species at the catheter site including MRSA.

Instructions for Use

To activate: Moisten with a sterile agent such as saline solution or water.

Placement: Apply with the dotted side against and directly contacting the skin surface.



ACTION® Pain Pump Nursing Skills Checklist



ACTION Pain Pump Infusion Status	Met	Not Met
1. Identifies ACTION Pain Pump Components		
<ul style="list-style-type: none"> • Tubing Clamp-Open/Closed 		
<ul style="list-style-type: none"> • 0.2 Micron filter - do not cover and do not tape to skin 		
<ul style="list-style-type: none"> • Locking mechanisms on regulator: Red Ring and LockGuard 		
<ul style="list-style-type: none"> • Adjustable flow rate-Setting rate, positive stop, locking methods 		
<ul style="list-style-type: none"> • Adjustable Bolus-Optional (N/A Section if no Bolus is used) 		
<ul style="list-style-type: none"> • Catheter-occlusive dressing intact (only relevant for Ambu Fuser Pain Pump) 		
2. Verify proper connection with catheter		
3. Checks medication label		
4. Verbalizes when a change in the size and appearance of the pump is noticeable (24-30 hours after surgery)		
5. Identifies at least 3 symptoms of local anesthetic toxicity (blurred vision, dizziness, ringing/buzzing in ears, metallic taste, numbness around mouth, fingers, toes, drowsiness, confusion)		
6. Describes intervention, if patient exhibits symptoms of local anesthetic toxicity (close pump tubing clamp and immediately notify physician)		
<ul style="list-style-type: none"> • Lipid Rescue Protocol in Place 		
7. Patient complains of pain: Multimodal Approach		
<ul style="list-style-type: none"> • Describes how to assess patients pain 		
<ul style="list-style-type: none"> • Identifies how to troubleshoot to ensure pump is infusing: clamp open, no kinks in tubing, filter not taped or covered 		
8. Ensure patients are aware of the following at discharge:		
<ul style="list-style-type: none"> • Do not open the carrying pouch (unless being instructed) 		
<ul style="list-style-type: none"> • Verify the clamp is not closed (can be slide over the tube) 		
<ul style="list-style-type: none"> • Not to manipulate any tube connection 		
<ul style="list-style-type: none"> • Do not attempt to push catheter back into its site 		
9. Ambu 24 hour clinical hotline (800) 395-2890		

End of Infusion	Met	Not Met
10. Describes appearance of pump when infusion is complete		
11. If removing catheter, identifies steps to remove		
<ul style="list-style-type: none"> • Grasp close to skin and gently pull 		
<ul style="list-style-type: none"> • Check distal end of catheter for black marking 		
<ul style="list-style-type: none"> • Appropriate dressing to the site 		
<ul style="list-style-type: none"> • If patient is going home, patient discharge instructions provided 		
12. Reviewed Patient and Physician IFU versions		

*The undersigned agrees that you have been trained on the operation, connection, warnings, and cautions outlined in the IFU.

Performance Evaluated by: _____

Date: _____

Nurse Education Aware: _____

Date: _____

ACTION Pain Pump Components	Met	Not Met
1. Identifies ACTION Pain Pump components and packaging		
<ul style="list-style-type: none"> • Pain Pump, catheter (only included in Ambu Fuser Pain Pumps), syringe, medication labels and patient labels 		
<ul style="list-style-type: none"> • Filling port-down line, one way valve, keep filling port cap 		
<ul style="list-style-type: none"> • How to properly connect the filling syringe or electric pump 		
<ul style="list-style-type: none"> • 0.2 Micron filter- do not cover the filter 		
<ul style="list-style-type: none"> • Locking mechanisms on regulator: Red Ring and LockGuard 		
<ul style="list-style-type: none"> • Adjustable flow-rate: Setting rate, positive stop, locking methods 		
2. Verbalizes where to locate flow rate and fill volume on pump		
3. Checks medication label		
4. Verbalizes fill capacity of the reservoir on 200 mL, 400 mL, 650 mL, and 1000 mL sizes		

ACTION Block Priming Status	Met	Not Met
5. Identifies the location of the C-Clamp and confirms it is open		
6. Identifies priming times per the IFU		
<ul style="list-style-type: none"> • Describes how to identify when the pump is primed 		
<ul style="list-style-type: none"> • Identifies what the troubleshoot to ensure pump is infused: (clamp open, no kinks in tubing, filter not taped or covered) 		
7. Ambu 24 hour clinical hotline		

End of Infusion	Met	Not Met
8. Identifies closing the C-Clamp		
<ul style="list-style-type: none"> • Identifies to replace the fill port cap and place tape over port if necessary 		
9. Pump is removed from the lamier hood (if filled in pharmacy)		
10. If filled in pharmacy, they are aware of USP 797 protocol for filling and storage of Pain Pumps		
11. Lipid Rescue kit/protocol is established		

*The undersigned agrees that you have been trained on the operation, connection, warnings, and cautions outlined in the IFU.

Performance Evaluated by: _____

Date: _____

Nurse Education Aware: _____

Date: _____

7 ACTION® Pain Pump Physician Skills Checklist

Identifies ACTION Pain Pump Components:	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Trained on Regulator Features and Advantages:	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Trained on Flow Rate and Volume Options:	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Regulator	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Bolus	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Lipid Rescue Protocol in Place:	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Awareness of 24 Hour Clinical Hotline:	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Locking Mechanism and Outlined Defined:	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Reviewed both Physician and Patient IFU versions:	<input type="checkbox"/> Yes	<input type="checkbox"/> No

Facility Name: _____

Physician Name: _____

Date: _____

Physician Signature: _____

Trained By: _____

Date: _____



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