

# BeneFusion SP3 Vet

## Syringe Pump

### Quick guidance, training-free operation

The Mindray BeneFusion SP3 Vet is a 2<sup>nd</sup> generation veterinary syringe pump that is accurate, safe, and easy to use. Its precise algorithm allows for high infusion accuracy. Featuring a graphic alarm with animation display, the BeneFusion SP3 Vet makes it easy to identify and locate issues.

#### FEATURES

- Precise algorithm allows for high infusion accuracy.
- Margin of error of  $\leq \pm 2\%$  or  $\pm 0.005\text{ml/h}$ .
- Fast start function: First drop delivered within 2-3 seconds, ensuring immediate therapy for even the lowest rates.
- Intelligent Occlusion Management System: Dynamic Pressure System and anti-bolus; 5 levels of pressure adjustment, starting at 75mmHg.
- Meet EN1789 standard, supporting use in vet ambulance.
- Quick guidance, training-free operation.
- Graphic alarm with animation display, easy to identify and locate issues.
- Universal pole clamp for cage mounting (optional).
- Brand management function (Pre-configured syringes: Add/Modify).
- Unique volume collection function in 4 methods for animal angiographic operation, endovascular therapy and postoperative observation.



#### SPECIFICATIONS



**Weight:**  
< 4 lbs



**Size:**  
13.4" x 4.9" x 5.3"

**Screen:**  
3.0" LCD monochrome screen  
240 x 128 pixels



**Voltage:**  
100 240 V~

**Frequency:**  
50/60Hz

**Current:**  
0.4 0.14A



**Display:**  
Infusion rate, VTBI, total volume, pressure limit & status, drug name, remaining time, alarm status battery status, size of syringe, brand of syringe

**Brightness:**  
1-8 levels, adjustable

**Battery Operating Time:**  
 $\geq 6$  hours at 5ml/h (standard),  
 $\geq 12$  hours at 5ml/h(optional)

**Battery Charging Time:**  
 $\leq 5$  hours to full capacity

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## Parameter Specifications

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<b>Accuracy:</b> ≤±2%	<b>Occlusion Detection:</b> 5 levels selectable: 75/150/300/525/900mmHg, default is 525 mmHg; 4 units of pressure selectable: mmHg/kPa/ bar/psi, default is mmHg
<b>Mode:</b> rate mode, time mode, body weight mode, intermittent mode	<b>Anti-Bolus:</b> unexpected bolus reduced when the occlusion occurs
<b>Flow Rate:</b> 0.1-2000ml/h	<b>Dose Rate Units:</b> ng/kg/min, µg/kg/h, ug/kg/min, ug/kg/h, ug/kg/24h, mg/kg/min, mg/kg/h, mg/kg/24h, g/kg/min, g/kg/h, mU/kg/min, m U/kg/h, U/kg/min, U/kg/h, U/kg/24h, kU/ kg/h, EU/kg/h, mmol/kg/h, mol/ kg/h, kcal/kg/h, kcal/kg/24h, mEq/kg/min, mEq/kg/h
<b>Increment:</b> 0.1ml(0.1 999.9ml/h); 1ml(1000 2000ml/h)	<b>Auto-lock Time:</b> 1-5 minutes selectable; ON/OFF switchable
<b>Preset Volume(VTBI):</b> 0. 1 9999ml (increment: 0.1ml)	<b>Drug Library:</b> up to 200 drugs; ON/OFF switchable
<b>Preset Time:</b> 00:00:01 99:59:59, adjustable	<b>History Log:</b> up to 1500 records
<b>Accumulated Volume:</b> 0.1-9999 ml	<b>Volume Collection:</b> available in 4 methods: 24H Total, Current Total, Period, Timing
<b>KVO:</b> 0.1 5.0ml/h adjustable, step 0.1ml/h, default is 0.5 ml/h	
<b>Preset volume(VTBI):</b> 0. 1 9999ml (increment: 0.1ml)	
<b>Purge Rate:</b> 150-800ml/h	
<b>Bolus Rate:</b> 0.1 2000ml/h (automatic or manual)	

## Interface

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RS232; nurse call connector; DC adapter

## Syringes

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**Compatibility:**  
5/10/20/30/50/60ml;  
automatic recognition of syringe  
size

## Alarms

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<b>Type:</b> audible and visual alarm	<b>Sound Volume:</b> 1-8 levels selectable, default is level 4
<b>3 Levels:</b> High: occlusion / no power / VTBI complete / syringe empty / no syringe / KVO finished / system error; Medium: abnormal system/ standby times expired Low: reminder/ low battery/ Syringe near empty/Time near end/ No AC power	<b>Reminder:</b> 1-5 minutes selectable; ON/OFF switchable

## Work Environment

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<b>Temperature:</b> 5-40°C for operating; 20-60 °C for storage	<b>Atmosphere Pressure:</b> 57 106 kPa for operating; 50 106 kPa for storage
<b>Relative Humidity:</b> 15-95% for operating; 10-95% for storage	<b>Level of Resistance to Water and Dust:</b> IP34