



### 特點

結構簡潔，重量輕，便於攜帶和安裝

直觀的操作介面

大容量鋰電池，便於緊急轉運

### 安全

高精度高達2%，滿足小動物使用

快速啟動功能可在極低速率下啟動延遲

動態壓力顯示，防止小動物運動造成的阻塞

高靈敏度氣泡檢測高達50ul for (VP1)

### 連接

提供WiFi連接



**BeneFusion VP1  
Vet Volumetric Pump**



**BeneFusion SP1  
Vet Syringe pump**

**mindray**  
healthcare within reach

# BeneFusion SP1 / VP1

Specifications	SP1	VP1
infusion set	5, 10, 20, 30, 50/60ml	diameters $\Phi$ 3.5-4.5mm, thickness 0.8-1.2mm
Infusion mode	Rate mode	Rate mode, Drop rate mode
Flow rate range	5ml syringe : (0.1~150) ml/h 10ml syringe : (0.1~300) ml/h 20ml syringe : (0.1~600) ml/h 30ml syringe : (0.1~900) ml/h 50ml/60ml syringe : (0.1~1500) ml/h	0.1-1500 ml/h , the increment is 0.1 ml/h
Drip range		10-60 drop/ml, the increment is 1 drop/ml
Accumulated volume	0.1~9999 ml, increment is 0.1 ml	0.1~9999 ml, increment is 0.1 ml
VTBI	0.1~9999 ml, increment is 0.1 ml	0.1~9999 ml, increment is 0.1 ml
Increment	0.1~999.9 ml/h, increment is 0.1 ml/h 1000~1500 ml/h, increment is 1 ml/h	0.1 ml/h
Accuracy	Flow rate $\geq$ 1 ml/h: Accuracy $\leq$ $\pm$ 2% Flow rate < 1 ml/h: Accuracy $\leq$ $\pm$ 3%	$\leq$ $\pm$ 5%
KVO rate	0.5 ml/h	0.5 ml/h
Bolus rate	5ml syringe: 0.1-150ml/h 10ml syringe: 0.1-300ml/h 20ml syringe: 0.1-600ml/h 30ml syringe: 0.1-900ml/h 50ml/60ml syringe: 0.1-1500ml/h Note: Bolus accuracy is not declared.	0.1-1500ml/h Note: Bolus accuracy is not declared.
Purge rate	5ml syringe: 150ml/h 10ml syringe: 300ml/h 20ml syringe: 600ml/h 30ml/50ml/60ml syringe:800ml/h	600ml/h, unadjustable
Occlusion	Low 300 $\pm$ 125mmHg ( 40kPa ) Medium 525 $\pm$ 125mmHg ( 70kPa ) High 900 $\pm$ 180mmHg ( 120kPa )	Low 150 $\pm$ 113 mmHg (20kPa) Medium 525 $\pm$ 113 mmHg (70kPa) High 900 $\pm$ 180 mmHg (120kPa)
Near end	Off, 1- 30 min when the time is <10min, step for 1min, and step for 5 min when the time is $\geq$ 10 min	Off, 1- 30 min when the time is <10min, step for 1min, and step for 5 min when the time is $\geq$ 10 min
Bubble size		1 - 5, respectively are ( 50ul, 100ul, 250ul, 500ul, 800ul ) Sensitivity of single bubble is 50ul
Accum. Bubble		0.1-4.0ml/h
Time display range		00:00:01-99:59:59( h:m:s) adjustable
Standby time range	00:01-99:59 hh:mm	00:01-99:59 hh:mm
Screen	2.5" LCD monochrome screen	2.5" LCD monochrome screen
Alarm Volume	1-8 levels selectable	1-8 levels selectable
Dimension	330 x 126 x 110mm	250 x 90 x 150mm
Weight	<1.8kg (including clamp)	<1.45kg
Power Supply		
AC power	100-240V (50/60Hz)	100-240V (50/60Hz)
Battery type	Lithium	Lithium
Battery operation time	Standard : 6h@ 5ml/h ; Optional : 12h@ 5ml/h	Standard: 4h @25ml/h ; Optional : 8h @25ml/h
Charging time	<5 hours	<6 hours
Safety Requirement		
Classification	CF, Class I	
IP Grade	IP 34	
Temperature	0~40°C for operating, -40~70°C for storage	
Humidity	15~95% for operating, 10~95% for storage	
Air pressure	57~106kPa for operating, 50~106kPa for storage	
Dose of single fault	About 3.5ml	About 0.8ml

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