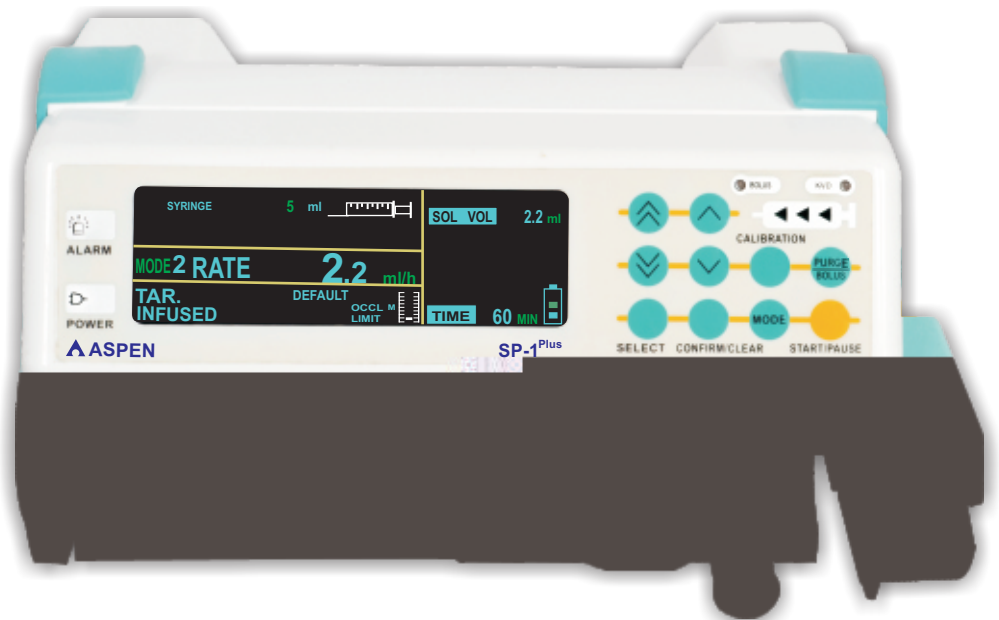


# Syringe Pump

## SP-1<sup>Plus</sup>

### Front Loader



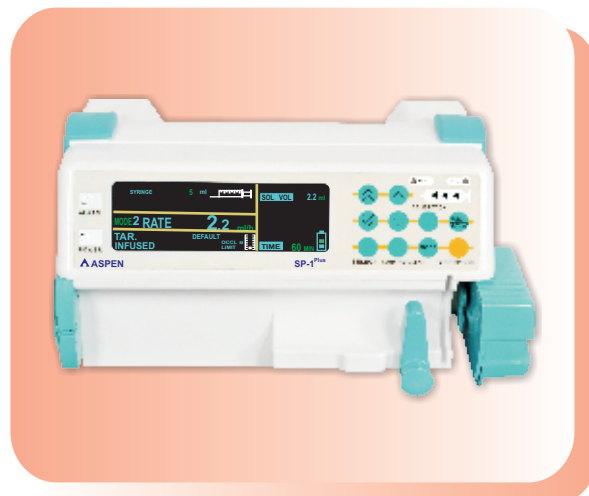
- Accurate & reliable flow rate
- Alarm for occlusion for different levels
- Easy to handle

*Stackable Syringe Pump.*

## Syringe Pump

### CHARACTERISTICS

- Compatible with any standard Syringes
- Auto Calibration of Syringes
- Three working modes: Rate control mode, Time control mode and Dose-Weight control mode
- Auto Detection of Syringe volume. Broad range in delivery rate settings
- 8 Hours internal battery life (running at 5ml/h)
- Three levels of alarm volume: high, medium and low.
- Three levels of occlusion pressure: high, medium and low.
- KVO function after infusion is complete, the pump automatically switches to the smallest flow to prevent creating the thrombus.



### Technical Specification:

**Model:** *SP-1<sup>Plus</sup>*

**Compatible Syringe:** Any standard syringe with 5ml, 10ml, 20ml(30ml) and 50ml(60ml)

**Accuracy:** ±2% (after the correct calibration)

**Flow Rate Range:**

Syringe	ml/h
50ml(60ml)	0.1 ~ 1800.0ml/h (0.1ml/h step)
20ml(30ml)	0.1 ~ 800.0ml/h (0.1ml/h step)
10ml	0.1 ~ 400.0ml/h (0.1ml/h step)
5ml	0.1 ~ 200.0ml/h (0.1ml/h step)

**Time Mode Range:**

SOL.VOL. : 0.1 ~ 999.9 (0.1ml step)

TIME : 1 ~ 1999min (1min step)

**Body Weight Mode Range:**

SOL.VOL. : 0.1 ~ 999.9(0.1ml step)  
 DRUG MASS : 0.1 ~ 999.9mg(0.1mg step)  
 DOSE : 0.01 ~ 99.99ug/kg/min(0.01 step)  
 WEIGHT : 0.1 ~ 300kg(0.1kg the least step)

**Volume Limit Range:** 0 ~ 1999.9ml (0.1 ml step)

**Total Volume Range:** 0.1 ~ 1999.9ml (0.1 ml step)

**Bolus/ Purge Rate:**  
 50ml(60ml): 1800.0ml/h  
 20ml(30ml) : 800.0ml/h  
 10ml : 400.0ml/h  
 5ml : 400.0ml/h

**KVO Rate:** 1ml/h

**Alarms:**

Near empty, Syringe empty, Volume complete, Occlusion, Syringe loose, Operation error, Low battery and other device failures.

**Power Source:**

AC power supply: AC 100 to 240V±10% , 50/60Hz ;  
 Internal Li Battery: 11.5V, 2000mAh.

**Power Consumption:** ≤25VA

**Shock Protection:** Class , Type BF

**Dimensions:** 280mm×160mm×130mm

**Net Weight:** Approximately. 3.5kg

**Operating Conditions:** Ambient temperature: 5 to 40 . Relative humidity: 20 to 90%

**Storage Condition:** Ambient temperature: -10 to 55 . Relative humidity: 10 to 90%

\* Due to continues upgradation features subject to change without prior notice.



Local Contact:

