



Solenoid Metering Pump SP-B

- Simple Operation
- Precise Flow Control
- IP65 Protection Degree



Solenoid Metering Pump **SP-B**

- Precise injection and flow control by the dual control of stroke length & stroke numbers
- The operation status can be checked with status lamp (LED)
- Sealing and accuracy are improved by double check valve
- Can cope with difficult environments by robust IP65 class and casing material of chemical resistance

• Applications

- Used for injection of Boiler Chemical, Chlorine Disinfectants, Food Additives and dosing chemicals in various industrial fields including physico-chemical fields, semiconductor device, water treatment, waste water treatment fields, & etc.

• Air Vent Valve



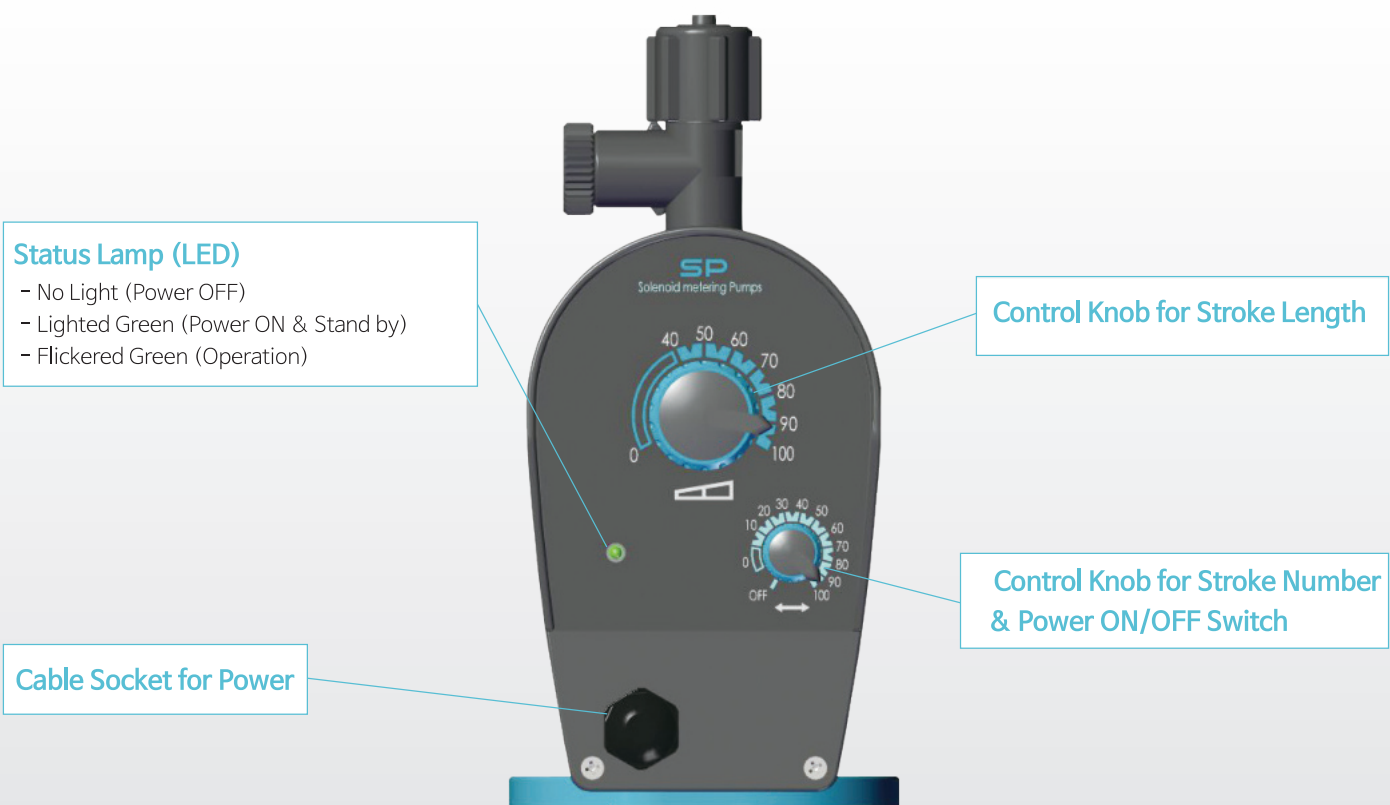
- Prevent gas lock phenomenon support priming

• Relief Valve (Option)

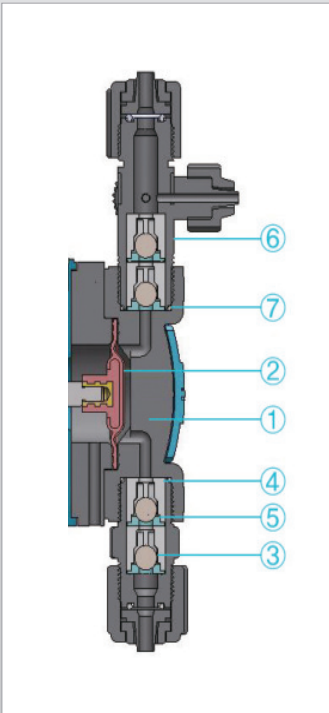


- When over pressure, valve is automatically opened and pump & piping can be protected.
- Function of Air Vent Valve is included

Control Panel - Manual



Liquid End Material



		PFC	PFS	PEC	FVC	FTC
① Head		PP			PVDF	
② Diaphragm		PTFE				
③ Check ball		CERAMIC	STS316	CERAMIC		
④ Ball guide		PP			PVDF	
⑤ Ball seat		FKM		EPDM	FKM(ETP)	PTFE
⑥ Joint		PP			PVDF	
⑦ O-ring		FKM		EPDM	FKM(ETP)	
Hose	Standard	Discharge: PE Suction: Transparent PVC			PTFE	
		Braided PVC				
	Boiler	Discharge: NYLON Suction: Transparent PVC				

- EPDM : Ethylene propylene diene monomer rubber
 PVC : Polyvinyl chloride
 PTFE : Polytetrafluoroethylene
- FKM(ETP) : Fluoro rubber of ETP type
 FKM : Fluoro rubber
 PVDF : Polyvinylidene fluoride
- PPS : Polyphenylene sulfide
 PE : Polyethylene
 PP : Polypropylene

Specification

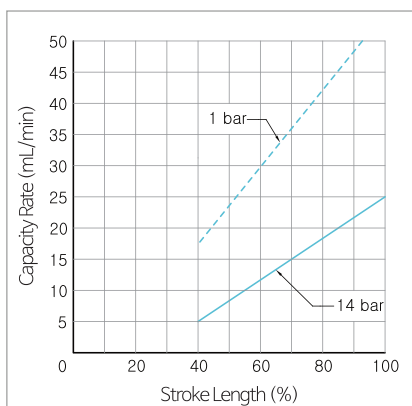
사양		SP-B30	SP-B50	SP-B70	SP-B100	SP-B200
Max. Capacity (mL/min)		25	55	70	135	240
Max. Discharge Pressure(bar)		14	8	6	3.5	2
Stroke Rate (SPM)		1 ~ 240				
Stroke Length (mm)		1.0 (40 ~ 100%)				
Hose	Suction·Discharge	Ø4XØ6, Ø4XØ9		Ø6XØ8, Ø6XØ11, Ø5XØ8		
	Air Vent	Ø4XØ6				
Self-priming (m)		1	1.5			2
Visocity Limit (mPa·s)	Standard	50		70		
	High Viscosity	300		700	600	400
Weight (kg)	PP Material	2.1				
	PVDF Material	2.2				
Operation temperature		Ambient Temperature 0~40℃ / Liquid Temperature 0~50℃				
Electrical Data		Average Power Consumption(W)	Rated Current(A)	Protection		Insulation Class
		15	0.4 / 0.7 (115V)	IP65		F

		SP-B30H	SP-B50H	SP-B70H	SP-B100H
Max. Capacity (mL/min)		30	55	75	130
Max. Discharge Pressure(bar)		16	12	8	5
Stroke Rate (SPM)		1 ~ 240			
Stroke Length (mm)		1.0 (40 ~ 100%)			
Hose	Suction・Discharge	Ø4XØ6, Ø4XØ9		Ø6XØ8, Ø6XØ11, Ø5XØ8	
	Air Vent	Ø4XØ6			
Self-priming (m)		1	1.5		
Visocity Limit (mPa・s)	Standard	50		70	
	High Viscosity	300		700	600
Weight (kg)	PP Material	2.4			2.5
	PVDF Material	2.5			
Operation temperature		Ambient Temperature 0~40℃ / Liquid Temperature 0~50℃			
Electrical Data		Average Power Consumption(W)	Rated Current(A)	Protection	Insulation Class
		17	0.5 / 0.8 (115V)	IP65	F

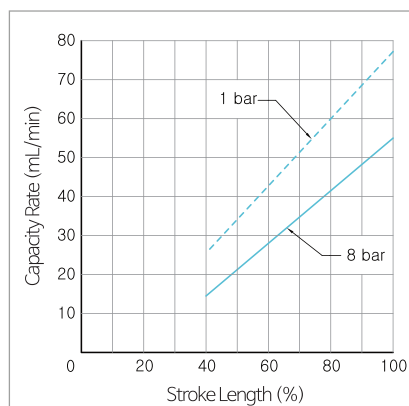
Note 1. Repeatability is within $\pm 2\%$ FS and noise within 70dB.
 2. Setting pressure of Relief Valve is $\pm 10\%$ of max. discharge pressure.
 3. Specifications can be changed for improvement without prior notice.

Performance Curve

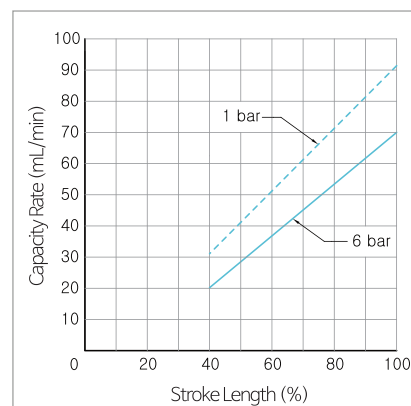
• SP-B30



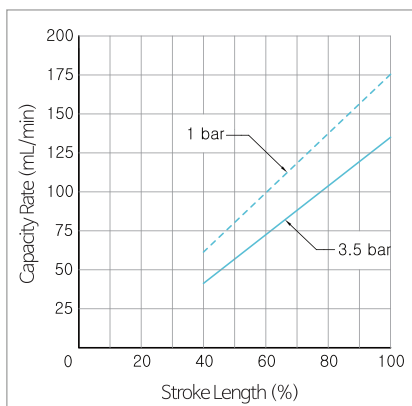
• SP-B50



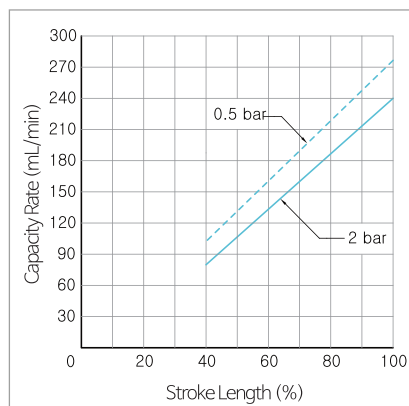
• SP-B70



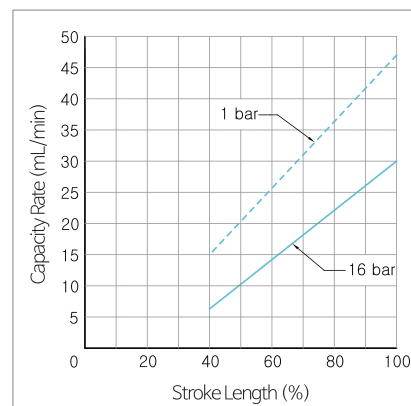
• SP-B100



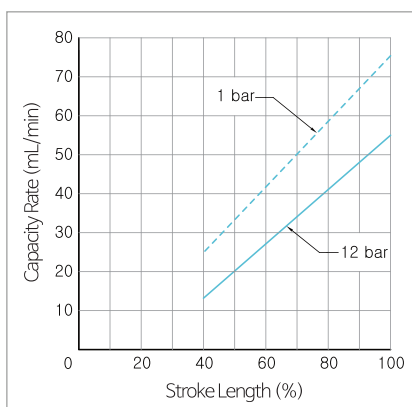
• SP-B200



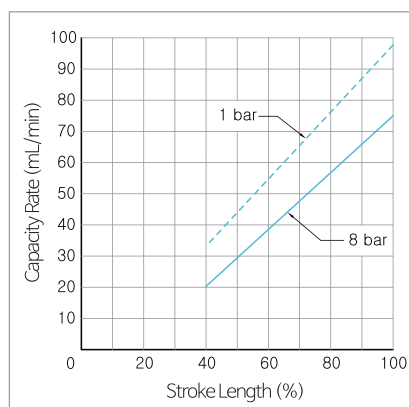
• SP-B30H



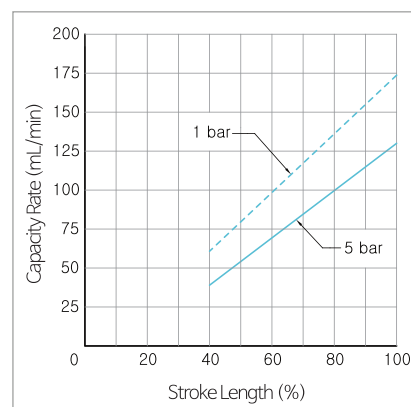
• SP-B50H



• SP-B70H



• SP-B100H



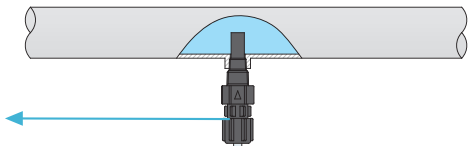
※ Condition : Clean water, Room temperature, Suction head 1m

Accessories

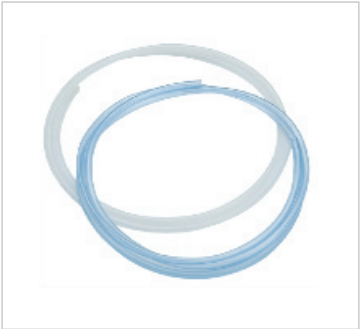
• Anti-Siphon Check Valve



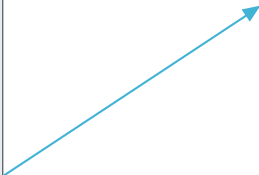
It is installed at the end of discharge hose and prevents overfeeding, flowing backward, & siphon phenomenon.



• Hose



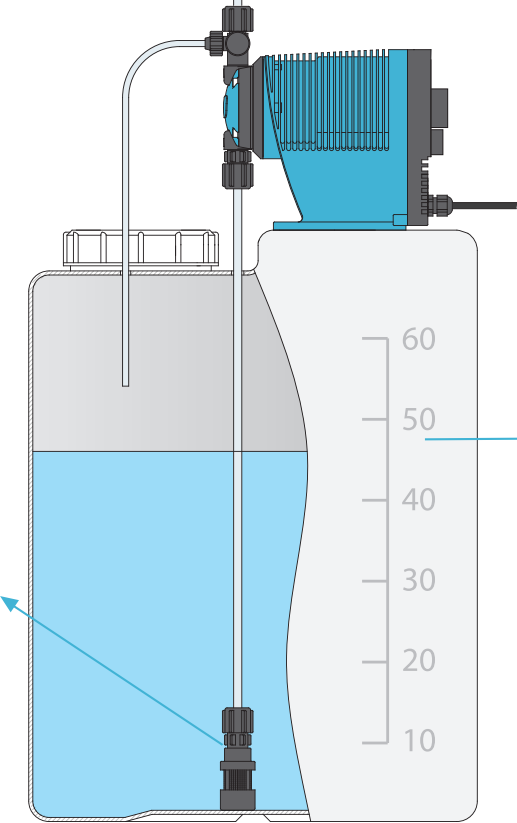
- Suction Hose 1m
- Discharge Hose 2m
- Air Vent Hose 1m



• Strainer Foot Valve



It is installed at the end of suction hose and prevents foreign substance & flow backward



• Liquid Tank (Option)



Model	Volume(L)	Diameter	Height
SPN-50L	50~65	420	580
SPN-100L	100~120	520	690
EN-200	200	590	860



SP-B