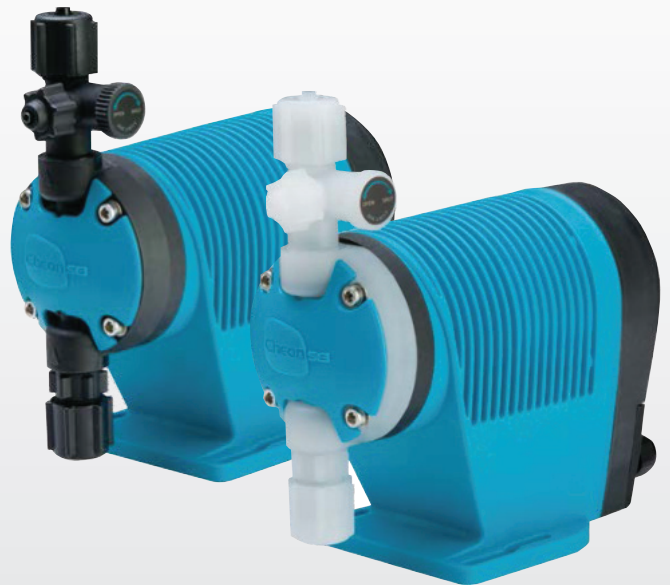




Solenoid Metering Pump SP-C

- LCD Display
- IP65 Protection Degree
- Easy & Precise Flow Control



Solenoid Metering Pump SP-C

- Easy and precise flow control with LCD display
- 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
- Various auto-control function (Option)
 - Ratio Control by input signal of PULSE
 - Multiplication & Division input signal of PULSE
 - Ratio Control by input signal of 4~20mA
 - Alarm for Low Level & Signal Error
 - Remote START & STOP

• 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

• 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.

Control Panel - Manual



Control Panel - Auto



Model Code

1 2 3a 3b 3c 4 5 6 7 8 9
SP - C 200 - P F C - 1 W S - 1 1 0

① Control Panel Type

C : Common Display

② Nominal Capacity

200 : 200mL/min

③ Liquid End Material

(a) Pump Head

P : PP

F : PVDF

(b) Ball Seat

F : FKM

E : EPDM

V : FKM(ETP)

T : PTFE

(c) Check Ball

C : Ceramic

S : STS316

④ Hose Standard

1 : Ø4XØ6

2 : Ø4XØ9 (Braided PVC)

3 : Ø6XØ8

4 : Ø6XØ11(Braided PVC)

5 : Ø5Ø8

⑤ Valve Structure

W : Standard (0~70mPa·s) V : High Viscosity(70~700mPa·s)

※ In case of the valve for high viscosity, spring is installed in the valve

⑥ General Specification

S : Standard B : Boiler F : Relief Valve G : B+F

※ In case of Boiler type, discharge hose is nylon and the body of Anti-siphon Check Valve is PPS

※ Relief Valve is not applied to SP-C200

⑦ Control Specification

1 : Manual 3 : PULSE(or 4~20mA)+Add. Func. (1)

4 : PULSE(or 4~20mA)+Add. Func. (2)

※ Add. Func. (1) : Input of Level Switch(or REMOTE START/STOP)

※ Add. Func. (2) : Input of Level Switch, REMOTE START/STOP, Output of Alarm

⑧ Power Supply

1 : AC220 (198~242V)

2 : AC240V (216~264V)

3 : AC115V (104~127V)

※ Common data : 1 Ø 50/60Hz

⑨ Power Cord

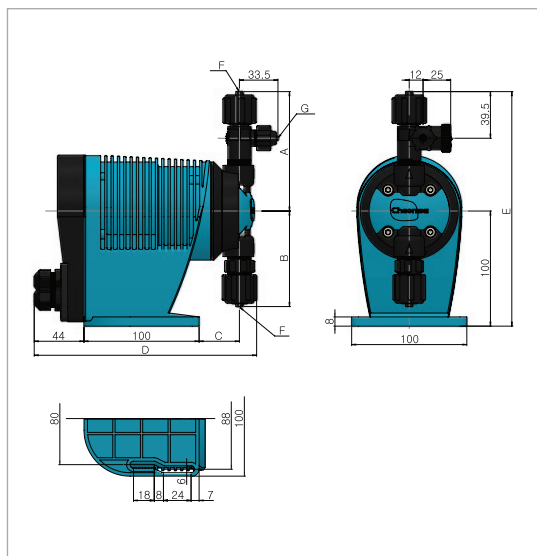
0 : 2m of power cord with out Plug

1 : 2m of power cord & Plug

Specification

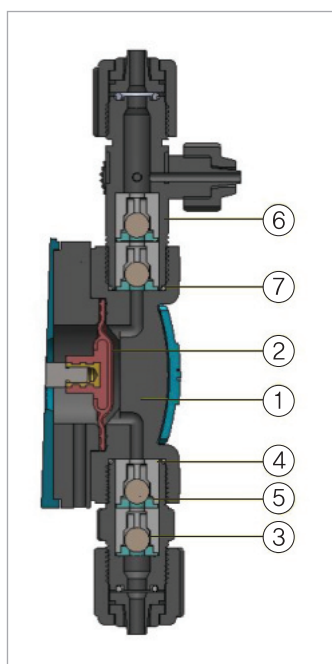
SPEC.		SP-C30	SP-C50	SP-C70	SP-C100	SP-C200
Max. Capacity (mL/min)		25	55	75	140	200
Max. Discharge Pressure(bar)		16	12	9	5.5	3
Stroke Rate (SPM)		1~240				
Hose	Suction・Discharge	Ø4XØ6, Ø4XØ9		Ø6XØ8, Ø6XØ11, Ø5XØ8		
	Air Vent	Ø4XØ6				
Self-priming (m)		1	1.5			2
Viscosity Limit (mPa・s)	Standard	50		70		
	High Viscosity	300		700	600	400
Weight (kg)	PP Material	2	2.4			
	PVDF Material	2.1	2.4		2.5	
Operation temperature		Ambient Temperature 0~40℃ / Liquid Temperature 0~50℃				
Electrical Data	Average Power Consumption(W)	15	17			
	Rated Current(A)	0.4	0.5			
	Protection & Insulation Class	IP65 F				

Dimension



Model SPEC.	SP-C30	SP-C50	SP-C70	SP-C100	SP-C200
A	96.5	99	101	102.5	107.5
B	76.5	79	81	82.5	87.5
C	33.5	33.5	33.5	35	35
D	192.5	192.5	192.5	194	194
E	196.5	199	201	202.5	207.5
F	Ø4XØ6, Ø4XØ9		Ø6XØ8, Ø6XØ11, Ø5XØ8		
G	Ø4XØ6				

Liquid End Material

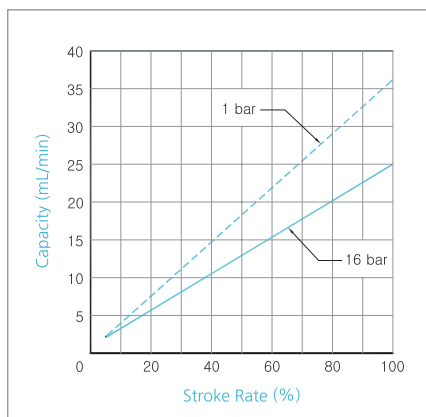


		PFC	PFS	PEC	FVC	FTC
① Head		PP			PVDF	
② Diaphragm		PTFE				
③ Check ball		CERAMIC	STS316	CERAMIC		
④ Ball guide		PP			PVDF	
⑤ Ball seat		FKM		EPDM	FKM(ETP)	PTFE
⑥ Joint		PP			PVDF	
⑦ O-ring		FKM		EPDM	FKM(ETP)	FKM(ETP)
Hose	Standard	Discharge: PE Suction: Transparent PVC			PTFE	
		Braided PVC			PTFE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

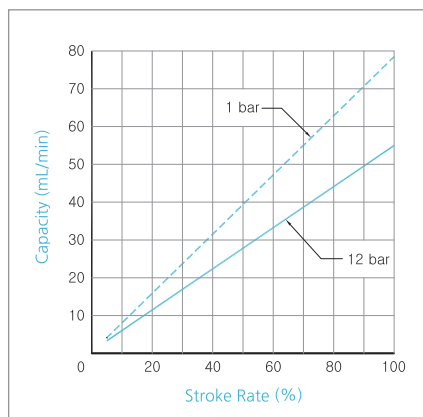
EPDM : Ethylene propylene diene monomer rubber FKM(ETP) : Fluoro rubber of ETP type PPS : Polyphenylene sulfide
 PVC : Polyvinyl chloride FKM : Fluoro rubber PE : Polyethylene
 PTFE : Polytetrafluoroethylene PVDF : Polyvinylidene fluoride PP : Polypropylene

Performance Curve

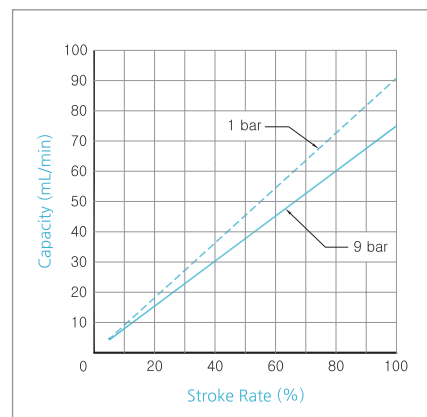
• SP-C30



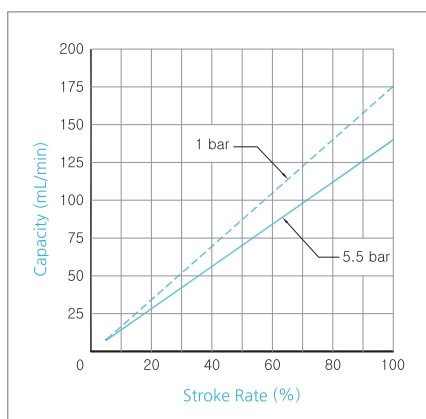
• SP-C50



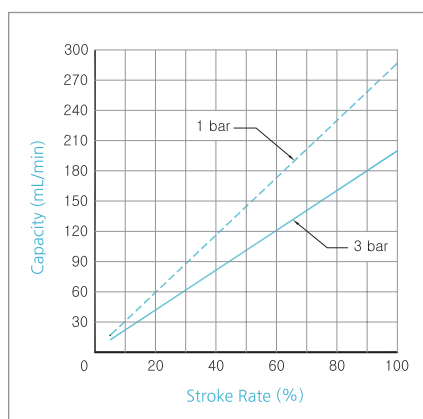
• SP-C70



• SP-C100



• SP-C200



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

When Placing Order

In order to provide the most suitable pump, please provide the following information.

1. Specification of Liquid

(1) Liquid name (2) Ingredients (3) Concentration (4) Viscosity (5) Temperature (6) Specific gravity

2. Conditions of installation

(1) Process of use (2) Required discharge volume (3) Power source
(4) Installing location & Mounting method (5) Operation condition

3. Other

(1) Desired delivery date and place (2) Any other requirements

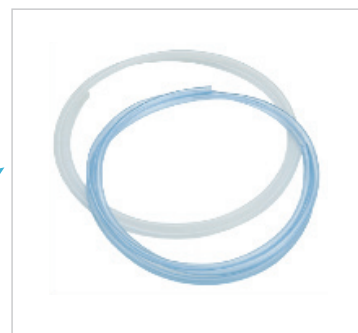
Accessories

• 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

• Level Switch (Option)



When liquid level in tank is low, It generates alarm signal

• Liquid Tank (Option)

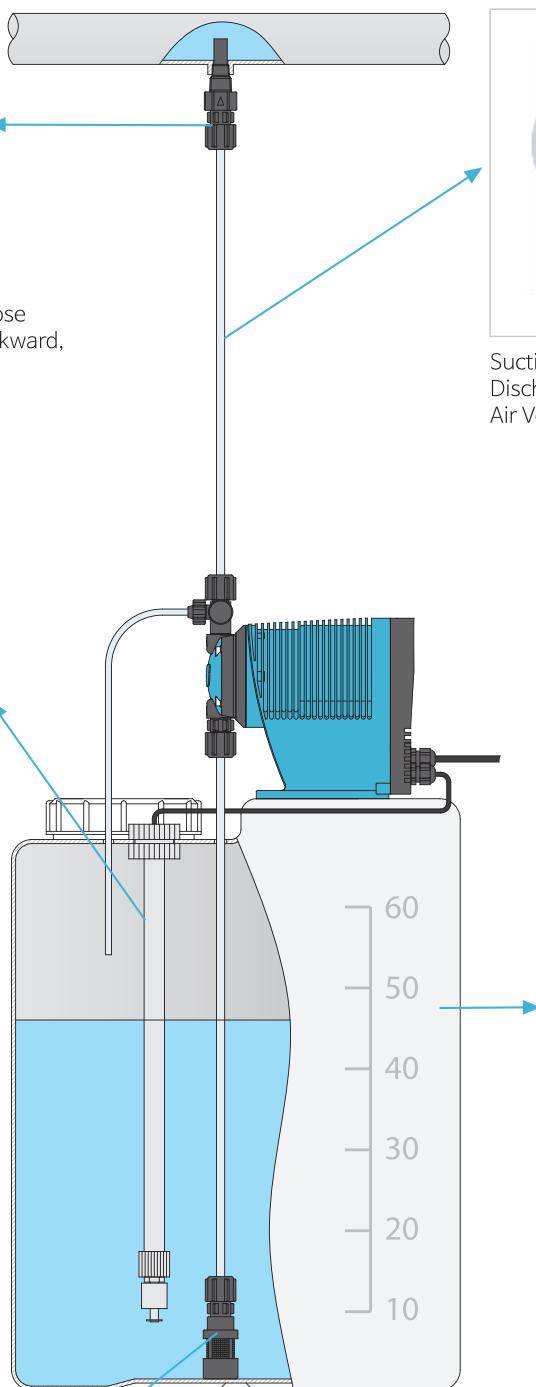


Model	Volume(L)	Diameter	Height
SPN-50L	50~65	420	580
SPN-100L	100~120	520	690
EN-200	200	590	860

• Strainer Foot Valve



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





SP-C