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DATASHEET
Doc. DS-0006 · Rev. A

KEY FIGURES

520–2150 mL/min
Max. Capacity

5–10 bar
Max. Discharge Pressure

116 SPM
Stroke Number

IP54
Protection Class

LIQUID END MATERIAL

- PTC (PE6)
- FTC
- ST6 (6T6)

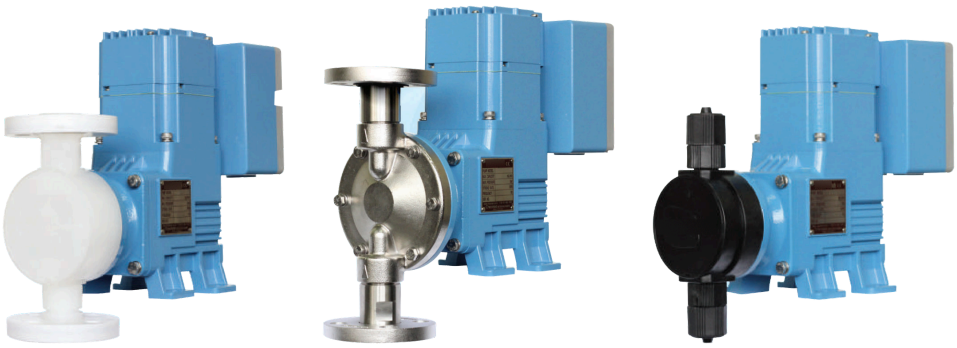
CONNECTION TYPE

- Flange
- Hose

AUTOMATIC CONTROL METERING PUMPS

KA Series

For Chemical Dosing



Automatic Control Metering Pumps KA

- High Efficiency BLDC Motor
- Oilless Structure
- Automatic stop when overpressure occurs
- As Lightweight & Compact design, easy installation and maintenance
- Various Liquid End Materials and connection type
- Simple operation and easy wiring
- Small noise by the helical gear



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KA Series
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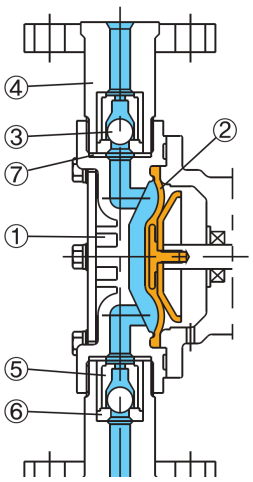
1 Overview
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4 Performance Curves
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Model Code

①		②a	②b	②c		③a	③b	③c		④	⑤	⑥
KA	–	5	2	1	–	P	T	C	–	F	W	S

① **Series Name**	KA : KA Series (Automatic Control Metering Pumps)					
② **Nominal Capacity**	ab×10^{c} → 52×10^{1} =520(mL/min)					
③ **Option**	a. Head	P : PP(PVC)	F : PVDF	S : SS304	6 : SS316	X : Special
	b. Diaphragm	T : PTFE	E : EPDM	X : Special		
	c. Check Ball	C : CERAMIC	6 : SS316	X : Special		
④ **Connection Type**	F : Flange	H : Hose	X : Special			
⑤ **Viscosity Limit**	W : Standard(0~100CP)		V : High Viscosity(100~2,000CP)			
⑥ **Power Supply**	S : 1Ø AC200~240V 50/60Hz					

Liquid End Material



Materials / Part name / Capacity	PTC (PE6)		FTC	ST6 (6T6)	
	521~102	212	521~212	521~102	212
① Head	PP	PVC	PVDF	SSC13(14)	
② Diaphragm	PTFE(EPDM)		PTFE	PTFE	
③ Check Ball	CERAMIC(STS316)		CERAMIC	STS316	
④ Joint	PP	PVC	PVDF	STS304(316)	
⑤ Ball Guide	PP	PVC	PVDF	PVDF	SSC13(14)
⑥ Ball Seat	FKM(EPDM)	PVC	PTFE	PTFE	STS304(316)
⑦ O-ring	FKM(EPDM)		PTFE	PTFE	

※ Material other than standard can be used for special purpose pump.
Please contact us or distributor in your area.

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Specifications

Spec. / Model	Max. Capacity (mL/min)	Max. Discharge Pressure (bar)	Stroke Number (SPM)	Stroke length (mm)	Diameter of diaphragm (mm)	Connection			Motor	Weight (kg)
						Hose		Flange		
						PVC	PTFE			
KA-521	520	10	116	6	55	Ø12×Ø18	Ø10×Ø12	KS10K 15A	120W	7.8
KA-102	1025	7	116	6	68					7.9
KA-212	2150	5	116	7	90		Ø12×Ø14			8.8

※ 1. Max. capacity is tested under the standard status (room temperature, clean water) and Max.discharge pressure.

2. Effective control range of flow rate is 10~100%.

3. PVC hose is only applicable for PTC&PE6 Liquid End Type, and PTFE hose is only applicable for FTC, ST6&6T6 Liquid End Type.

4. The limits of liquid temperature are 0~50°C for PTC&FTC Liquid End Type and 0~80°C for STS&6T6 Liquid End Type.

5. Ambient temperature limit is 0~40°C.

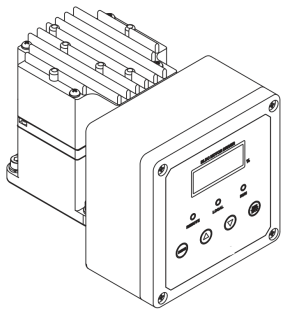
6. Self-priming capacity: 2 meters.

7. The Munsell No. of painting is 0.6PB 4.8/10.6

8. Specifications can be changed for improvement with out notice.

Motor Specification

Specification	
Power	120W
Voltage	1ø AC 200 ~ 240V
Type	Brushless DC Motor (Sensored SPM)
Enclosure	TENV (Totally Enclosed Non-Ventilated)
Pole	10 Class
Insulation Class	F
Protection Class	IP54



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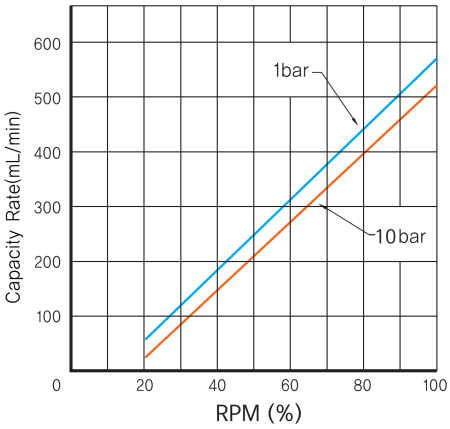
4 Performance Curves

5 Dimension

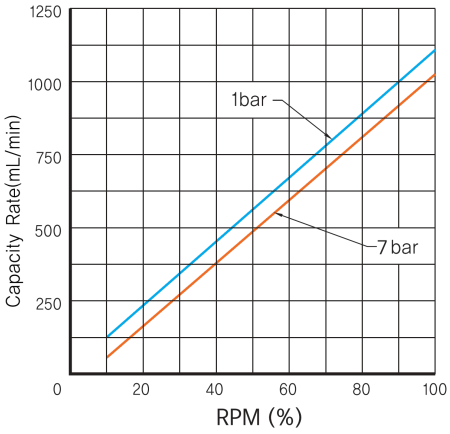
Performance Curves

60Hz 50Hz Conditions : Room Temperature, Clean water

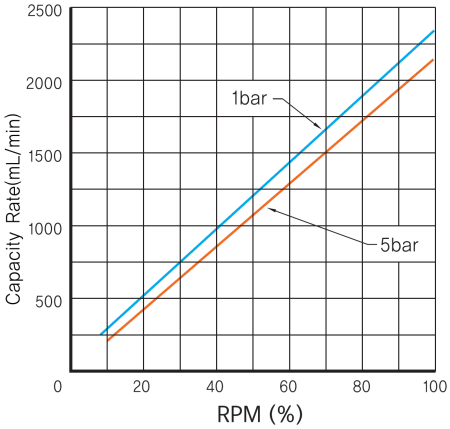
KA-521



KA-102



KA-212



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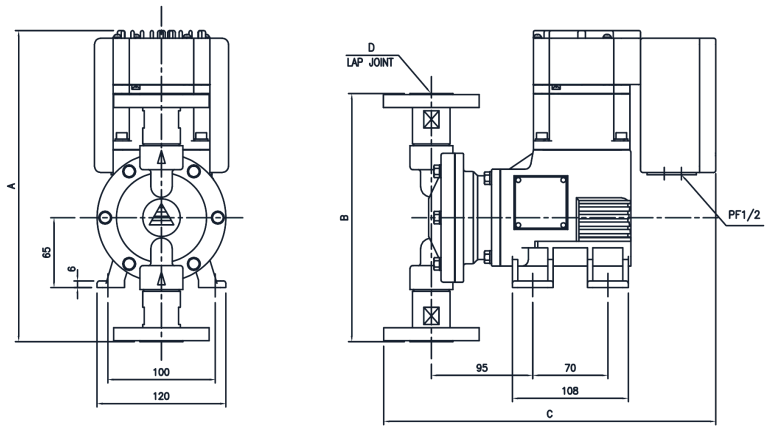
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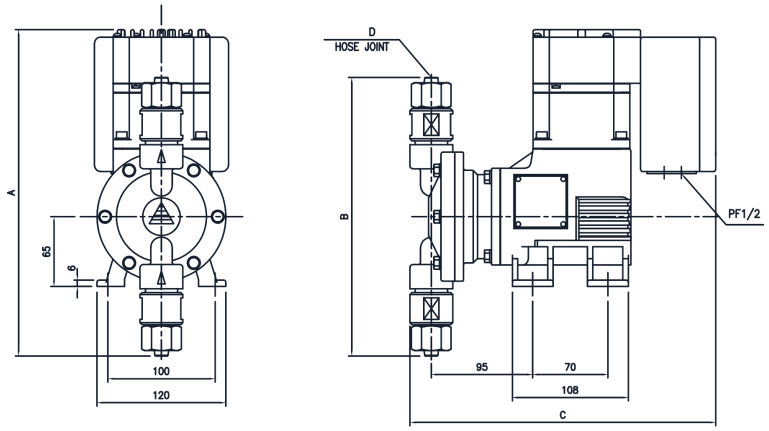
All information in this datasheet is for guidance only and subject to change without notice. Siemex accepts no liability for errors or omissions.

Dimension

(Unit:mm)



Size	Model	Flange Type		
		KA-521	KA-102	KA-212
A	PTC	267	270	294
	FTC	267	270	294
	ST6	267	270	290
B	PTC	186	192	240
	FTC	186	192	240
	ST6	186	192	231
C	PTC	313	313	314
	FTC	313	313	314
	ST6	313	313	314



Size	Model	Hose Type		
		KA-521	KA-102	KA-212
A	PTC	274	277	304
	FTC	274	277	304
	ST6	269	272	304
B	PTC	200	206	259
	FTC	200	206	259
	ST6	189	195	259
C	PTC	287	287	288
	FTC	287	287	288
	ST6	281	281	285

※The above specifications and design could be changed for improvement without prior notice.