PW Series

Metering Pump for Chemical Fluid Injection



High discharge accuracy All wetted parts are made of fluorocarbon polymers









Features

Achieved repeatability ±1%

Quantitative accuracy has been improved by structurally resolving dripping after discharge.

Adopting a new valve mechanism

We have adopted a valve mechanism that stops the siphon phenomenon.

Variable stroke speed

As a pump for chemical fluid injection, this product can control its stroke speed between 4 and 40 spm, making wide-range concentration control possible.

Specifications

Model		PW-5MA	PW-10MA		
Pump connection size	mm	φ6×φ4 φ10×φ8			
Pump connectors *1		Super Type Pillar Fitting™ or Super 300 Type Pillar Fitting™			
Discharge capacity	mL/shot	5 ^{*2}	10*2		
Operating temperature range	°C	10 to 100			
Discharge accuracy (Repeatability)		Within 1.0%*3			
Air inlet ports		2-Rc 1/8			
Supply air pressure	MPaG	0.2 to 0.25			
Max discharge pressure	MPaG	0.05			
Max suction height	m	3.5 (when pure water is suctioned at 40 spm)			
Stroke speed	spm	4 to 40*4			
Weight	kg	1.3	1.5		

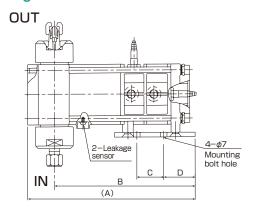
^{*1:} The pump connector model differs according to the fitting type. Therefore, be sure to indicate the fitting type when placing an order.

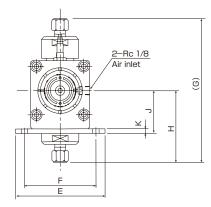
^{*2:} These values are applicable when 25°C pure water is discharged.
*3: This value is applicable only when the temperature, supply air pressure, and stroke speed are constant.

^{*4:} Do not use this product outside the specified range (4 to 40 spm).

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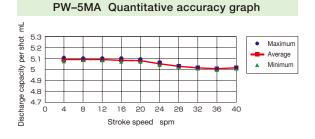
Structural drawings and size table

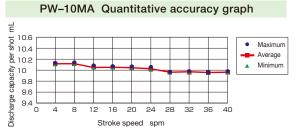




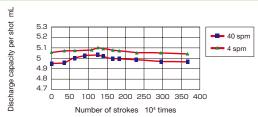
												Unit: mm
								(G)		(H)		
Model	(A)	В	С	D	E	F	Super Type	Super 300 Type P-series	Super Type	Super 300 Type P-series	J	K
								F-561165		F-561165		
PW-5MA	185	155	30	35	100	80	158	156	79	78	47	5
PW-10MA	185	155	30	35	100	80	178	187	89	93.5	47	5

Performance

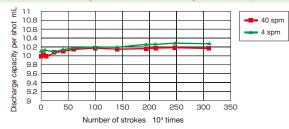




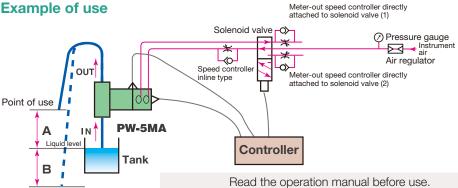
PW-5MA Results of long-term continuous testing at room temperature



PW-10MA Results of long-term continuous testing at room temperature



■ Example of use



Note:

- "A" indicates the length when the point of use is above the liquid level.
- "B" indicates the length when the point of use is

Relationship between the liquid level and the height of point of use

		OTHE HITT
Model	А	В
PW-5MA	1000	1000
PW-10MA	1000	500

Linit: mm

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Point of use

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precaution

When using this product, please use correctly and pay sufficient attention to safety.

- * Please understand that this catalog may change without prior notice.
- *The values shown on this catalog are reference values, not guaranteed values.