



Electromagnetic Metering Pumps High Pressure Type

- ideal for boiler chemical injection into pressurized pipelines. ^{Note}
- Max. discharge pressure: 2.0MPa (Max. 240spm)

Note: Observe the maximum discharge pressure.



Specifications

Pump

Model	EWN-B11-H2		
	PC/PH	SH	
Type			
Max. discharge capacity	mL/min	17	
	mL/shot	0.05 to 0.07	
Max. discharge pressure	MPa	2.0	
Stroke length	%	70 to 100	
Stroke rate	spm	1 to 240	
Connection (Hose dia.)	mm	Outlet: R1/4, Inlet/Air vent: $\varnothing 4 \times \varnothing 6$	Outlet/Inlet/Air vent: Rc1/4
Power voltage	V	AC100 to 240 50/60Hz single phase	
Current	A	0.8	
Average power consumption	W	20	
Accessory		Check valve CS-1E-27	

• Operating condition: Liquid temperature range is -10 to 60 °C, Ambient temperature range is 0 to 40 °C
 • Max. discharge capacity represents the figure when pumping clear water at ambient temperature at max. discharge pressure. Pump discharges more liquid than shown above if it runs at lower discharge pressure. If discharge pressure is 0.12MPa or lower, be sure to use check valve to avoid over-feeding.

Controller

Operation mode	MAN	0.1 to 100% stroke rate	
	EXT	DIV (Dividing)	/1 to 9999
		MULT (Multiply)	x1 to 9999
		ANA.R (Analog, rigid)	4 to 20, 0 to 20, 20 to 4, 20 to 0 mA
	ANA.V (Analog, variable)	2 points 0.0 to 20.0 mA range 0.0 to 100% stroke rate	
Display	LCD	14seg 5digits	%, ml/m, L/H, GPH, STOP, PRIME, AUX etc
	LED	ON	Green lights when power is put and blinks synchronous with stroke.
		Stop	Orange/Red
Keypad	5 Keys	Start/Stop, ▲(UP), ▼(DOWN), EXT, DISP	
Control function	STOP/Pre-Stop	Pump keeps running when Pre-STOP is activated. Pump stops when STOP is activated.	
	Prime	Pump runs at max. stroke rate while up and down keys are pushed.	
	Key lock	Key can be locked and unlocked.	
	Calibration	Discharge capacity per shot is calculated automatically by operating and stopping pump at calibration mode to make flow rate indication possible.	
	Buffer memory	ON or OFF is selectable. Max. 65535 stroke pulses are put in memory.	
Input	Pulse	Non Voltage contact or open collector, Max. 200Hz	
	Current	DC0 to 20 mA (Input resistance 200 Ω)	
	Level sensor	Non Voltage contact or open collector, 2- steps contact	
	AUX	Pump runs at max. stroke rate while AUX signal is input.	
Output		Photo-MOS relay 24VAC/DC 0.1A	
		STOP, Synchronous with stroke	
		Synchronous with stroke is standard.	
Power voltage	100 to 240 VAC 50/60Hz (90 to 264 VAC)		

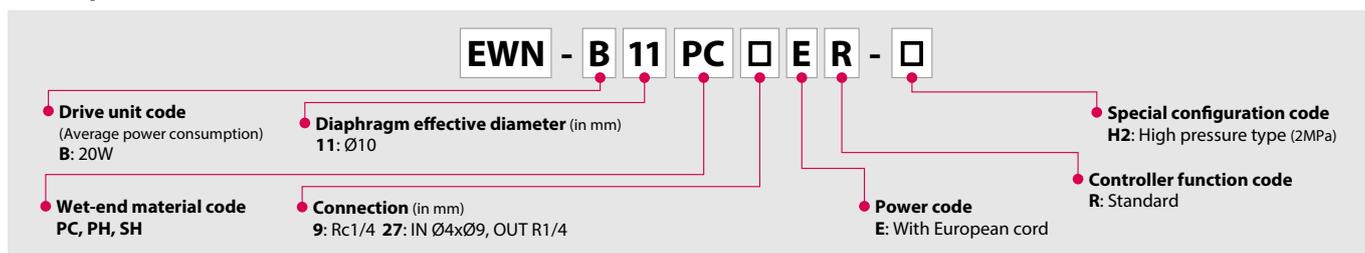
Note 1: If the max. stroke rate by calculation exceeds 100% stroke rate because of the relation between the setting and input signal when the pump is in EXT operation, the operation is fixed at Maximum stroke rate speed of manual operation.

Note 2: By changing the setting, the pump can run when the contact signal comes in.

Note 3: The max. frequency of input pulse is 200 Hz. ON time of input pulse is 10 to 100 ms.

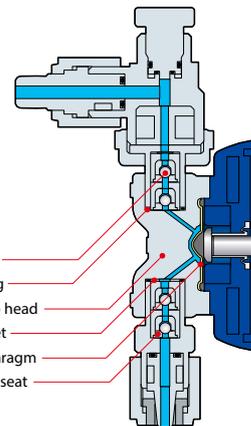
Note 4: The max. chargeable voltage to a contact is 12V and current is 2.3mA. If a contact such as relay is used, the minimum application load should be 1mA or below.

Pump identification



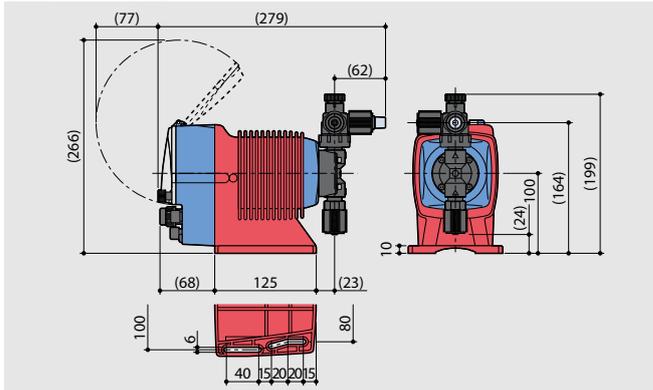
Constructions and materials

Material code	PC	PH	SH
Pump head	GFRPP		SUS316
Valve	CE	HC	
Valve seat	FKM	EPDM	SUS316
Gasket	PTFE		
O ring	FKM	EPDM	—
Diaphragm	PTFE+EPDM		

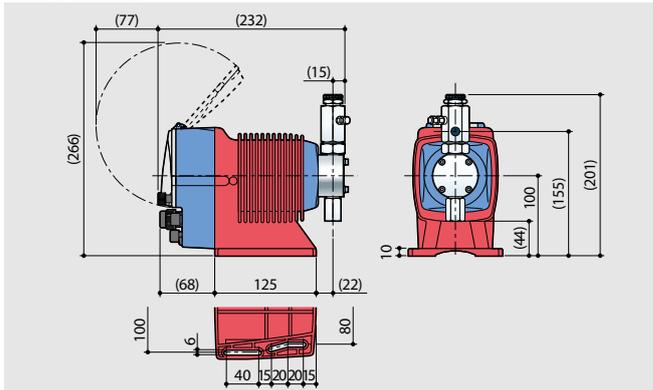


Dimensions in mm

EWN-B11PC/PH-H2



EWN-B11SH-H2



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() Country codes

Caution for safety use: Before use of pump, read instruction manual carefully to use the product correctly. Actual pumps may differ from the photos. Specifications and dimensions are subject to change without prior notice. For further details please contact us.

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