

Electromagnetic metering pumps Automatic air vent type

The optimum for gaseous liquid feeding



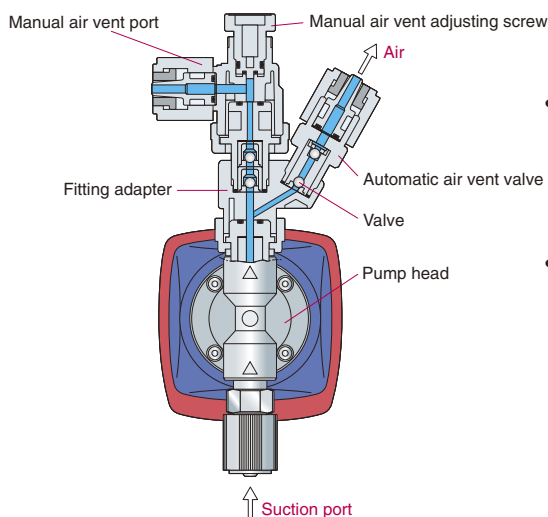
Electromagnetic metering pumps

This type equips automatic air vent mechanism. An air vent valve built-in pump chamber enables reliable air venting. Also equipped manual air vent valve enables easy pressure release in discharge piping. Gaseous liquid such as sodium hypochlorite or hydrogen peroxide can be injected without gas locking.

- Entrained air is automatically expelled from the pump head. No special degassing is needed.
- The pump immediately resumes operation without gas lock even after a long period of stoppage.
- Use the air vent port manually for quick release of discharge line pressure.
- Capable of pumping concentrated sodium hypochlorite



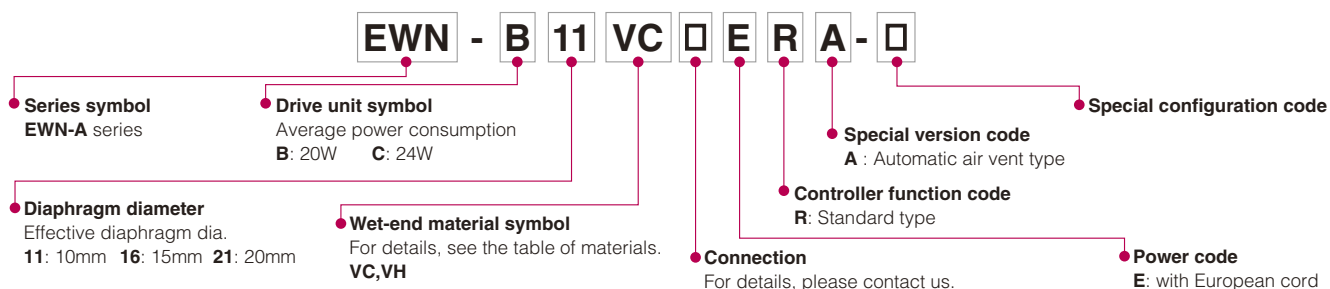
Principle of operation



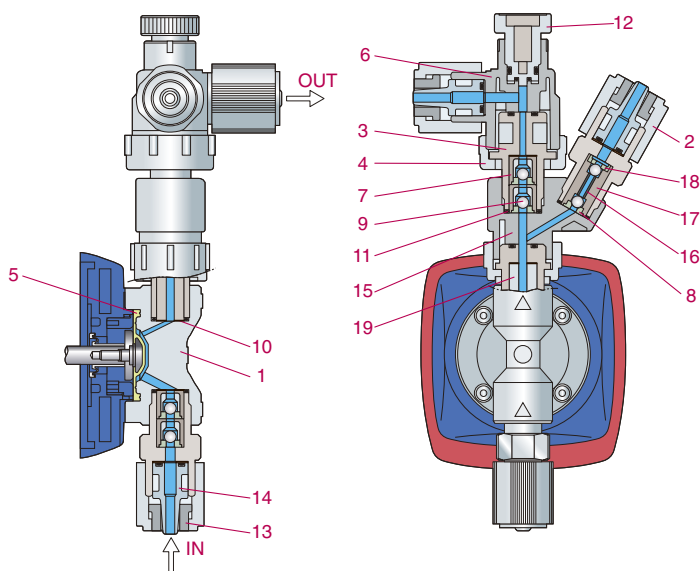
- Air which comes from suction port goes to the connection adapter through pump head. Because pump discharge side is pressurized, air goes to the automatic air vent valve which the pressure load is lower than pump discharge side, and goes out little by little together with liquid.
- Once the pump gets out of locked air condition, it returns to normal operation to discharge the liquid. A little bit of liquid is discharged from automatic bleed valve, too.



Pump identification



Wet-end materials



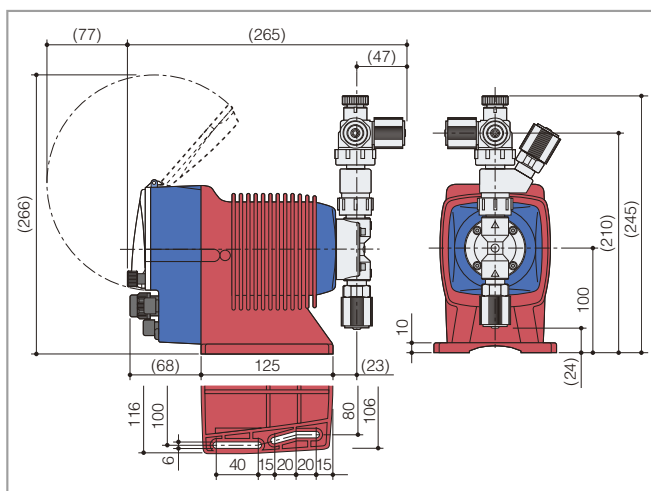
Parts name	VC	VH
1 Pump head		PVC
2 Fitting nut		PVC
3 Air vent body B		PVC
4 Lock nut		PVC
5 Diaphragm	PTFE+EPDM (EPDM of diaphragm is not wet-end)	
6 Air vent body A		PVC
7 Valve guide		PVC
8 Valve seat	FKM	EPDM
9 Valve	Alumina ceramic	Hastelloy C276
10 Valve gasket		PTFE
11 O ring	FKM	EPDM
12 Adjusting screw		PVC
13 Hose stopper		PPS
14 Hose adapter		PVC
15 Fitting adapter		PVC
16 Separate pin	Titanium	Hastelloy C276
17 Air vent valve guide A		PVC
18 Air vent valve guide B		PVC
19 Spacer		PVC

Specifications of pump

Model		EWN-B11	EWN-B16	EWN-C16	EWN-C21
Capacity	mL/min	30	55	65	110
Discharge capacity per shot	mL/shot	0.04-0.08	0.08-0.15	0.07-0.18	0.12-0.31
Rated discharge pressure	MPa	1.0	0.7	1.0	0.7
Stroke length adjustable range	%	50-100		40-100	
Stroke rate	%(spm)	0.1-100 (1-360)			
Standard connection(Hose dia)	mm	ø4×ø6			
Current	A	0.8		1.2	
Average power consumption	W	20		24	
Power Voltage		100 - 240 VAC 50/60Hz			

Note 1: Each discharge capacity shown above is at the discharge pressure (stroke length 100%, stroke rate 100%) and increases as a discharge pressure reduces.
 Note 2: The performance is based on pumping clean water at ambient temperature at rated voltage.
 Note 3: Liquid temperature range: VC/VH types -10 to 40 °C
 Liquid characteristics must not change (viscosity, freezing or slurries contained)

Dimensions in mm



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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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