



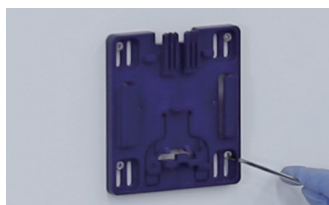
EWP-L SERIES SPECIFICATIONS

Engineered for both reliability and versatility, the **EWP-L** features external analog and simple digital pulse input control as well as manual control with an 1800:1 turndown ratio. Its high-speed 360 strokes-per-minute operation ensures consistent performance, while its robust priming capability and durable construction make it the optimal choice for any cost-effective, high-precision chemical injection applications.

Simple operation and adjustment with two control knobs, flowrates up to 6.7 GPH (25 l/h) and pressure capability to 300 psi (20 bar) enable the EWP-L to easily fit into most applications.

Flexible Installation

An optional quick-access mounting base enables the EWP-L to be easily wall mounted or quickly removed from an installation without the need for tools.



Rugged Housing

The EWP Series pumps are sealed and rated to an IP66 protection class (water and dust-proof) even without the chemical splash guard.



W A L C H E M

IWAKI America Inc.



ORDERING INFORMATION

EWP	-	038B	VC	07	N	-	US	L
Pump Series		Capacity / Pressure	Liquid End	Connect Size	Options		Power Cord / Rating	Control Unit

PUMP SERIES

EWP = Electronic metering pump series with MAN speed control (adjustable to 360 strokes per minute)

CAPACITY/PRESSURE RATING

See chart on this page

LIQUID END

See chart on this page

CONNECTION SIZE

07 = 1/4" ID x 3/8" OD

08 = 3/8" ID x 1/2" OD

XX = Other sizes available on request

OPTIONS

N = None

A = Auto Degassing Valve installed under manual air vent valve. Available for B, C, D sizes with VC/VE/TC liquid ends only.

M = Multifunction Valve is supplied in place of the manual air vent valve. Available on all size pumps and liquid ends except FC, SH or combined with the Auto Degassing Valve option.

VOLTAGE/POWER CORD

US = 115VAC, 50/60 Hz

UH = 230VAC, 50/60 Hz

BR = Brazil 220VAC, 50/60Hz

CONTROL MODULE UNIT

L = MANUAL speed control

(1-360strokes/minute) with ANALOG and 1:1 Digital Pulse EXTERNAL control.

ACCESSORIES

All pumps also include a manual air vent valve with the exception of FC or SHN liquid ends. All pumps include one foot valve, one injection valve, 20 feet of polyethylene tubing and one ceramic weight (with the exception of SH models).

CAPACITY/PRESSURE RATING

Capacity / Size	Max Output Capacity		Max output per stroke	Max Pressure		Connection Size Default Tubing O.D.
	GPH	mL/min	mL	PSI	MPa	
038 B	0.6	38	0.11	150	1.0	07 (3/8")
080 C	1.3	80	.22	150	1.0	07 (3/8")
130 D	2.0	130	0.36	105	0.7	07 (3/8")
270 E	4.3	270	0.75	50	0.35	08 (1/2")
420 F ²	6.7	420	1.17	30	0.2	08 (1/2")

1. Auto Degassing Valve reduces output by approximately 20%.

2. FC/TC/SH in 420 F size – Output is derated to 410mL/min.

LIQUID END MATERIALS

Liquid End	Pump Heading & Fittings	Diaphragm	Valve Balls	Valve Seat	Valve Seals	Gasket	Tubing
FC	PVDF	PTFE (bonded to EPDM)	CE	PCTFE	PTFE	PTFE	CE
PC	GFRPP			FKM	FKM		
PE	GFRPP			EPDM	EPDM		
VC	PVC			FKM	FKM		
VE	PVC			EPDM	EPDM		
SH	316SS			31635	31635		
TC	PVDF			FKM	FKM		

CE Alumina ceramic
FKM Fluoroelastomer
PE Polyethylene
PCTFE Polychlorotrifluoroethylene
PVDF Polyvinylidene fluoride

EPDM Ethylene propylene diene monomer
GFRPP Glass fiber reinforced polypropylene
PTFE Polytetrafluoroethylene
PVC Polyvinylchloride (translucent)
HC Hastelloy C276

SAFETY CERTIFICATIONS



The EWP metering pumps are tested by Intertek to UL and CSA standards.

ELECTRICAL SPECIFICATIONS

EWP-L

50/60 Hz, single phase
115 VAC $\pm 10\%$
230 VAC $\pm 10\%$

EWP-L (B)

13 Watt avg.
0.8 Amp max.
0.4 Amp max

EWP-L (C-F)

23 Watt avg.
1.1 Amp max.
0.5 Amp max.

SHIPPING WEIGHT

Approx. 7 lbs. (3.2 kg)
(Plastic liquid ends)

Approx. 9 lbs. (4.1 kg)
(Stainless Steel liquid ends)

OPERATING CONDITIONS

Ambient Temperature: 32 to 122°F (0 to 50°C)

Liquid Temperature: PVC liquid ends: 32 to 104°F (0 to 40°C)
PP, PVDF, SS liquid ends: 32 to 140°F (0 to 60°C)
Below 32°F (0°C), pump is limited to 70% of maximum pressure.
Liquid cannot freeze.

Relative Humidity: 30% to 90% non-condensing

Pumps should always be shielded from direct exposure to the elements.

CONTROLLER SPECIFICATIONS

Controller Type		EWP-L
Operation mode	MAN	0-100% stroke rate ^{Note1} (Max. 360spm)
	EXT	4-20 mA in proportion to 0-360 spm
		0-6 Hz in synchronous with 0-360 spm
	Status LED	Red LED: Flashes when in EXT mode.
	LED	Green LED: Blinks synchronously with stroke when the pump is running. Red LED: Lights when a STOP signal is input.
	Dial	Simple function dial (Stroke rate, PLS/ANA mode selector)
Control functions	STOP	Pump stops when STOP signal input.
Input	Pulse	Dry contact or open collector ^{Note2}
	Analogue	4-20 mADC (Input resistance 220 Ω)
	STOP	Dry contact or open collector ^{Note2}
Power Voltage		100-240 VAC 50/60 Hz ^{Note3}

Note 1: Use the stroke rate adjusting dial to change the operation functions.
Dial scale is approximate for reference only.

Note 2: The maximum applied voltage to the contact is 5 VDC at 2.3 mA.
The minimum application load of the relay or switch should be 1 mA or below.

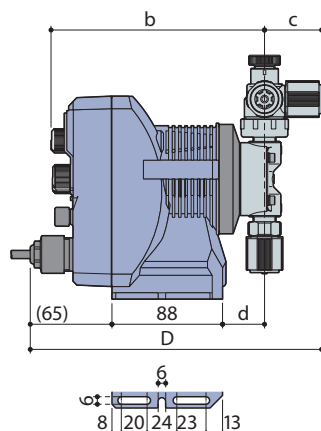
Note 3: Observe the specified power voltage range or failure may result.
The allowable power voltage range is 90-264 VAC.



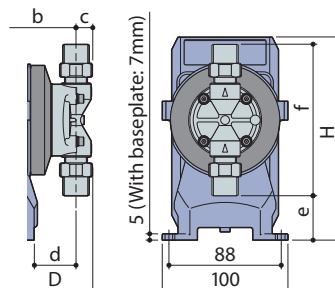
EWP-L

Dimensions in mm

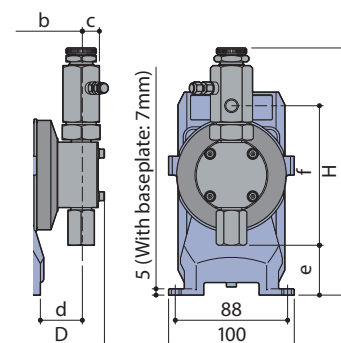
(VC/VS/VE/PC/PS/PE/TC)



(FC)



(SH)



- Illustration shows 038B, 080C, 130D
- The EWP-SH type is heavy, so a base plate is used. With baseplate: 7mm

(VC/VS/VE/PC/PS/PE/TC)

Model	(H)	(D)	(a)	(b)	(c)	(d)	(e)	(f)
EWP-038B								
EWP-080C	194	233		170	47	33	20	139
EWP-130D								
EWP-270E	207	235		172	47	35	4	168
EWP-420F	206			171			5	166

(FC)

Model	(H)	(D)	(a)	(b)	(c)	(d)	(e)	(f)
EWP-038B								
EWP-080C	162	199		170	13	33	35	121
EWP-130D								
EWP-270E	173	204		172	16	35	19	154
EWP-410F				171				

(SH)

Model	(H)	(D)	(a)	(b)	(c)	(d)	(e)	(f)
EWP-038B								
EWP-080C	197	204		170	15	32	40	111
EWP-130D								
EWP-270E	209	205		170	15	34	30	133
EWP-410F	211	207					27	138

Notes:

1. Addition of a Multifunction valve increases
2. The overall length by 0.10".
3. Addition of a Multifunction Valve increases discharge height by 2.62". The Auto Degassing Valve increases discharge height by 1.82"
4. Addition of a Multifunction Valve increases overall liquid end height by 1.25". The Auto Degassing Valve increases overall height by 1.82"