Chemical Injection Pump



EZ Series Metering Pump

EZ Series electronic metering pumps offer precise chemical injection at a low cost. The compact size and simple control make them ideal for water treatment and OEM applications.

EZ Series have outputs to 6.3 GPH (24 l/h) and a maximum pressure of 150 PSI (10 bar). Advanced microprocessor control and a turndown ratio of 360:1 make this series an exceptional value. The pumps are simple to operate with only three pushbutton keys and the unmatched turndown ratio provides both versatility and high resolution chemical feed which eliminates slug-feeding effects.

KEY BENEFITS

High Speed Performance

E-Series pumps operate at 360 strokes-per-minute, providing high resolution chemical feed. Most competitive products operate at slower speeds, resulting in slug feeding, accelerated diaphragm wear and poor feed control.

Engineered Longevity

All E-Series pumps feature dual bearing support. The armature and shaft are supported with a bearing on each end, which ensures proper axial movement, enabling the E-Series to operate at 360 SPM while extending the life of the diaphragm.

Superior Check Valve Performance

Dual Check Valve Assemblies in both suction and discharge fittings feature precision ball guides and tapered seats. Precise machining and molding of parts limit valve ball travel, ensuring that balls fully seat and seal with every stroke. This superior check valve design guarantees fast priming and reliable performance.

High Compression Ratio

The compression ratio of a metering pump is important because it affects the pump's ability to prime and vent. The compression ratio is raised when you reduce the dead volume of the pump head during operation. All E-Series pumps feature a very high compression ratio that ensures proper feed especially with off-gassing products (i.e. Sodium Hypochlorite).



IWAKI America Inc.

FEATURES

Walchem and Iwaki have over 100 years of combined pump experience. This partnership has led to the design of the most innovative and comprehensive metering pump product line in the world, the E-Series Metering Pumps. E-Series features four great series: EZ, EWN, EK, and EHE. The wide range of capabilities within the E-Series ensures that there's a model to fit any water treatment, food & beverage, agriculture, water conditioning, car wash, or other industrial chemical feed applications.

EZ pumps have outputs to 6.3 GPH (24 l/h) and pressure capabilites to 150 PSI (10 bar). The compact size and simple control make it ideal for OEM applications. Effective, reliable performance is achieved through sophisticated engineering. Designed with a turndown ratio of 360:1, the EZ is an exceptional value.



Simply stated - the EZ packs all of the 360spm performance of the bigger pumps into the compact chassis of the industry's easiest pump to operate. The EZ is the best on/off pump on the market. Built to prime, hold prime and to last, the EZ Series metering pump offers precise chemical injection at an economical cost.

Features include double ball check valves, long lasting diaphragm, an optional automatic air vent valve and the ability to remotely mount the control unit.

DIGITAL SPEED CONTROL

The EZ is simple to operate with three pushbutton keys. The 360:1 turndown ratio provides unmatched versatility.





SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

EZ 50/60 Hz, single phase 115 VAC ±10% 230 VAC ±10% EZB 20 Watt avg. 0.8 Amp max. N/A

SHIPPING WEIGHT

8 lbs. (3.6 kg) (approximate) 0.6 Amp max. 10 lbs. (4.5 kg) (approximate)

22 Watt avg.

1.2 Amp max.

EZC

SAFETY CERTIFICATIONS

The EZ series metering pumps* are WQA tested and certified to NSF/ANSI/CAN Standard 61. *See WWW.WQA.ORG for certified chemicals, parameters and MUL levels. NSF/ANSI/CAN 61 addresses health effects only. It does not address disinfection efficacy of the product.

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



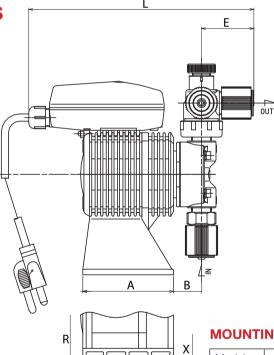


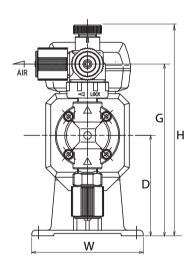
OPERATING CONDITIONS

Ambient Temperature:32 to 122°F (0 to 50°C)Relative Humidity:30% to 90% non-condensingLiquid 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.

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

DIMENSIONS





MOUNTING DIMENSIONS (see Instruction Manual for FC dimensions)

Model	R	S	Т	Х	V	Z
EZB	3.46"	0.28"	0.63"	0.24"	0.39"	1.26"
EZC	3.94"	0.59"	1.18"	0.28"	0.59"	1.18"

Model	А	В	Е	D	$G^{2\&4}$	H ^{3 & 4}	L1	W	IN/OUT/AIR
EZB	3.21"	0.98"	1.05"	3.54"	6.10"	7.47"	7.95"	3.94"	ø ¼ ID x ø ¾ OD
EZC	4.13"	1.06"	1.85"	3.94"	6.46"	7.83"	8.66"	4.57"	ø ℁ID x ø ½ OD

Notes:

1. Addition of a Multifunction valve increases overall length by 0.10".

2. Addition of a Multifunction Valve increases discharge height by 2.62". The Auto Degassing Valve increases discharge height by 1.82"

3. Addition of a Multifunction Valve increases overall liquid end height by 1.25". The Auto Degassing Valve increases overall height by 1.82"

4. Dimensions shown are for 11-21 sizes. Add 0.5" for 31-36 sizes.

ORDERING INFORMATION

EZ	B16	D	1	VC	Α
Pump Series	Capacity/ Pressure	Control Module	Voltage	Liquid End	Options

PUMP SERIES

EZ = Electronic metering pump with manual speed control (adjustable to 360 strokes per minute)

CAPACITY/PRESSURE RATING

See chart on this page

CONTROL MODULE

D = Manual speed adjustment from 1-360 spm

VOLTAGE

1 = 115VAC, 50/60 Hz 2 = 230VAC, 50/60 Hz (Not available for EZB pumps)

LIQUID END

See chart on this page

OPTIONS

- Blank = Standard manual air vent valve included, except with liquid end code -FC.
- A = Auto Degassing Valve installed under manual air vent valve. Available for B11/16/21 & C16/21 sizes with VC/VE 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 or combined with Auto Degassing Valve option.

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



IWAKI America Inc.

CAPACITY/PRESSURE RATING

Size	Max Output Capacity		Max output per stroke	Max Pressure ¹		Connection Size (in)	
	GPH	mL/min	mL	PSI	MPa	Tubing O.D.	
B11	0.6	38	0.11	150	1.0	3/8	
B16	1.0	65	0.18	105	0.7	3/8	
B21	1.5	95	0.26	60	0.4	3/8	
B31	3.2	200	0.56	30	0.2	1/2	
C16	1.3	80	0.22	150	1.0	3/8	
C21	2.0	130	0.36	105	0.7	3/8	
C31	4.3	270	0.75	50	0.35	1/2	
C36	6.3	400	1.17	30	0.2	1/2	

1 Auto Degassing Valve reduces output by approximately 20%.

LIQUID END MATERIALS

Liquid End	Pump Head & Fittings	Diaphragm	Valve Balls	Valve Seat	Valve Seals	Gasket	Tubing
FC	PVDF	PTFE (bonded to EPDM)		PCTFE	PTFE		
PA	GFRPP			PCTFE	AFLAS®		
PC	GFRPP			FKM	FKM		
PE	GFRPP		CE	EPDM	EPDM	PTFE	PE
VC	PVC			FKM	FKM		PE
VE	PVC			EPDM	EPDM		
TA	PVDF			PCTFE	AFLAS®		
TC	PVDF			FKM	FKM		
CE FKM PE PCTFE PVDF	Alumina ceramic Fluoroelastomer Polyethylene Polychlorotrifluoroethylene Polyvinylidenefluoride			EPDM GFRPP PTFE PVC HC	Ethylene pr Glass fiber Polytetrafl Polyvinylch Hastelloy (reinforced p uoroethyle nloride (tra	olypropylen ne

ABOUT US

Walchem integrates its advanced sensing, instrumentation, fluid pumping and communications technologies to deliver reliable and innovative solutions to the global water treatment market. Our in-house engineering is driven by quality, technology and innovation. For more information on the entire Walchem product line, visit: www.walchem.com