# Metering Pumps



# **EJ Series**

The EJ Series provide precise chemical injection at an economical price.

Universal voltage capability enables operation from 100 - 240 VAC in virtually all countries.

The EJ Series are compact, simple to operate and have outputs to 1.3 GPH (4.8 LPH) and a maximum pressure of 175 PSI (1.2 MPa).





## **Summary of Key Benefits**

### High Speed Performance

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

## Universal Voltage

The Universal Voltage Function enables the EJ Series to operate at any AC voltage. The EJ Series also conform to global standards.

### External Control

The EJ Series have both digital input and Stop/Start inputs built into the pump, enabling either proportional or On/Off control.

### > IP65 Equivalent Protection

A robust housing protects the pump from normal wear. Mounting the Digital Display and Key Pad control within the drive housing creates a highly water resistant design. A clear cover further protects the pump from liquids.

# **Specifications**

### **Pump**

Model		B09*	B11	B16	B21
Max. capacity	GPH (mL/min)	0.3 (19)	0.5 (30)	0.8 (50)	1.3 (80)
Max. discharge pressure	PSI (MPa)	175 (1.2)	150 (1.0)	90 (0.6)	45 (0.3)
Stroke rate	spm	1 to 360			
Power consumption	W	12			
Current (Input)	А	0.8			
Shipping Weight	lbs (kg)	8.0 (3.6)			

- The above information is based on pumping clean water at rated voltage and ambient temperature.
- Flow rates were collected at the maximum discharge pressure and 360spm. Degassing option derates capacity by approximately 20%.
- \*B09 size is available in PVC liquid ends only
- Flow rate increases as discharge pressure decreases.
- Allowable ambient temperature: 0 to 104°F (0 to 40°C)
- Allowable liquid temperature: 0 to 104°F (0 to 40°C)
- · Allowable power voltage deviation: ±10% of the rated voltage
- Noise level: 65dB at 10 ft. (A scale)
- E90495 (field-wireable connector) or IX0018 (connector with 5 ft. cable) required for Inputs.

#### Controller

Operation mode	Mode	Manual		
	Mode	EXT		
	Mode selection	Key operation		
Stroke rate	Setting range	1 to 360spm		
	SPM programming	UP key		
STOP function	Input signal	No-voltage contact or open collector <sup>Note 1</sup>		
EXT mode	Maximum spm	360spm		
	Pump behavior	1 shots per signal <sup>Note 2</sup>		
	Input signal	No-voltage contact or open collector <sup>Note 1</sup>		
Monitors	LCD	7×3 LCD with three status codes		
	LED	Green LED×1 (blinks at each shot)		
Buffer		Non-volatile memory		
Power voltage <sup>Note 3</sup>		100 to 240VAC 50/60Hz		

- 1. The max voltage from the EJ to an external contact is 15V at 3mA. When using a mechanical relay, the minimum load should be 3mA or below.
- 2. When the external pulse signal is over the max spm, the extra pulses are ignored.
- 3. The allowable voltage range is 90 to 264VAC. Outside of this range, failure may result

### **Safety Certifications**

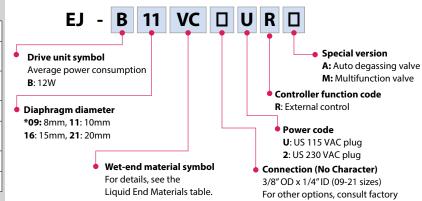
The EJ series metering pumps\* are WQA tested and certified to NSF/ANSI Standard 50 and Standard 61.



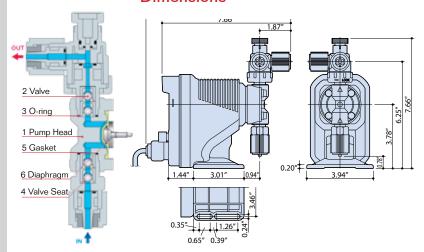
 $\ensuremath{^{*}}$  See www.wqa.org for specific chemicals and certification parameters.

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





### **Dimensions**



### **Liquid End Materials**

	1	2	3	4	5	6
Material	Pump head	Valve	O-Ring	Valve seat	Gasket	Diaphragm
VC	PVC	CE	FKM	FKM	PTFE	
VE	PVC	CE	EPDM	EPDM	PTFE	
VF	PVC	PTFE	EPDM	EPDM	PTFE	
TC	PVDF	CE	FKM	FKM	PTFE	PTFE + EPDM backer
PC	GFRPP	CE	FKM	FKM	PTFE	
PE	GFRPP	CE	EPDM	EPDM	PTFE	
FC	PVDF	CE	PTFE	PCTFE	PTFE	
TA	PVDF	CE	AFLAS®	PCTFE	PTFE	
PA	GFRPP	CE	AFLAS®	PCTFE	PTFE	
SHN	316SS	316SS		316SS	PTFE	

CE Alumina ceramic E
FKM Fluoroelastomer C
PTFE Polytetrafluoroethylene F
PCTFE Polychlorotrifluoroethylene F
AFLAS® Tetrafluoroethylene-Propylene

EPDM GFRPP PVC PVDF Ethylene propylene diene monomer Glass fiber reinforced polypropylene Polyvinylchloride (translucent) Polyvinylidenefluoride





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