

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 3.2 GPH (12.0 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.

WALCHEM

IWAKI America Inc.

Specifications

Pump

| Model | | B09* | B11 | B16 | B21 | B31 | B31-L |
|-------------------------|--------------|-----------|-----------|----------|----------|-----------|-----------|
| Max. capacity | GPH (mL/min) | 0.3 (19) | 0.5 (30) | 0.8 (50) | 1.3 (80) | 2.4 (150) | 3.2 (200) |
| Max. discharge pressure | PSI (MPa) | 175 (1.2) | 150 (1.0) | 90 (0.6) | 45 (0.3) | 30 (0.2) | 22 (0.15) |
| Stroke rate | spm | 1 to 360 | | | | | |
| Power consumption | W | 15 | | | | | |
| Current (Input) | A | 0.8 | | | | | |
| Shipping Weight | lbs (kg) | 8.0 (3.6) | | | | | |

- Specifications based on 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 5m cable) required for Inputs. (not-included)
- All pumps include a manual air vent valve except FC/SHN models.
- All pumps include one foot valve, injection valve, 20 ft. of PE tubing and ceramic weight except for SHN models.

Controller

| | | |
|---------------------------------|-----------------|--|
| Operation mode | Mode | Manual |
| | Mode selection | EXT |
| Stroke rate | Setting range | 1 to 360spm |
| | SPM programming | UP key |
| STOP function | Input signal | No-voltage contact or open collector ^{Note 1} |
| EXT mode | Maximum spm | 360spm |
| | Pump behavior | 1 shots per signal ^{Note 2} |
| Monitors | LCD | 7x3 LCD with three status codes |
| | LED | Green LEDx1 (blinks at each shot) |
| Buffer | | Non-volatile memory |
| Power voltage ^{Note 3} | | 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/CAN Standard 61.



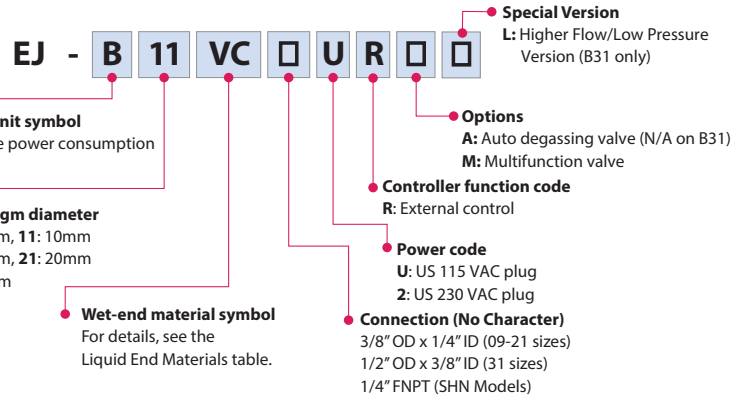
*See WWW.WQA.ORG for certified chemicals, parameters and MUL levels. NSF/ANSI/CAN 61 addresses health effects only. It does not address disinfection efficacy of the product.

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

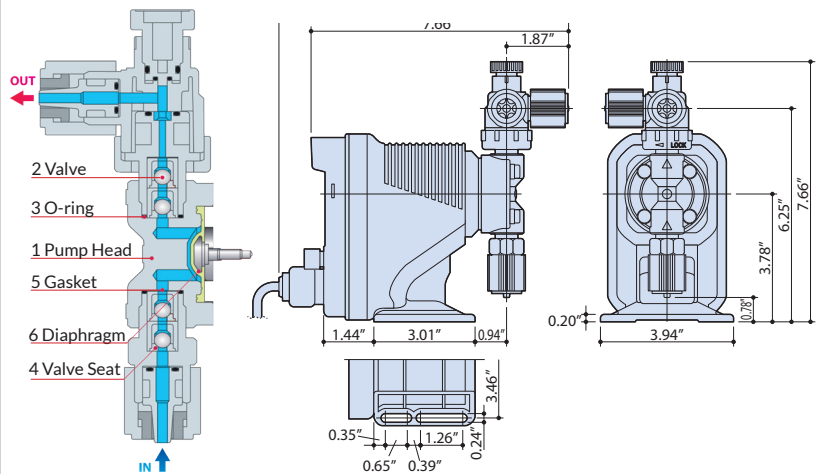


180606.O JAN 2023

ISO 9001 registered company



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 | PTFE + EPDM backer |
| VE | PVC | CE | EPDM | EPDM | PTFE | |
| VF | PVC | PTFE | EPDM | EPDM | PTFE | |
| TC | PVDF | CE | FKM | FKM | PTFE | |
| 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 | EPDM | Ethylene propylene diene monomer |
| FKM | Fluoroelastomer | GFRPP | Glass fiber reinforced polypropylene |
| PTFE | Polytetrafluoroethylene | PVC | Polyvinylchloride (translucent) |
| PCTFE | Polychlorotrifluoroethylene | PVDF | Polyvinylidene fluoride |
| AFLAS® | Tetrafluoroethylene-Propylene | | |

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