

Metering Pumps

# HV Series High Viscosity

Specifically designed to accurately feed high viscosity chemicals.



Walchem and Iwaki have created a unique partnership with over 100 years combined pump experience in an array of different markets. Equipped with rugged, molded GFRPP liquid ends and spring loaded stainless steel valve balls, the HV Series is designed for superior valve action and performance. Rated to 20,000 cps\*, it is available in feed ranges from 2.3 GPH to 8 GPH and pressures up to 73 psi.

Sophisticated design and backed with the industry's only full 2-year warranty, the EH-HV Series is the perfect solution for high viscosity feed applications.

\*Tested with 20,000 cps polymer verified with a Brookfield viscometer, Model LVF at 25°C, #4 spindle at 12 rpm.



## KEY BENEFITS

### High Speed Operation

Up to 240 strokes per minute results in high resolution chemical feed, reduced pulsation and improved mixing.

### Spring Loaded Valve Action

Stainless Steel or Hastelloy C276 springs help quickly close the valve balls against the PCTFE seats, increasing the valve action with high viscosity polymers.

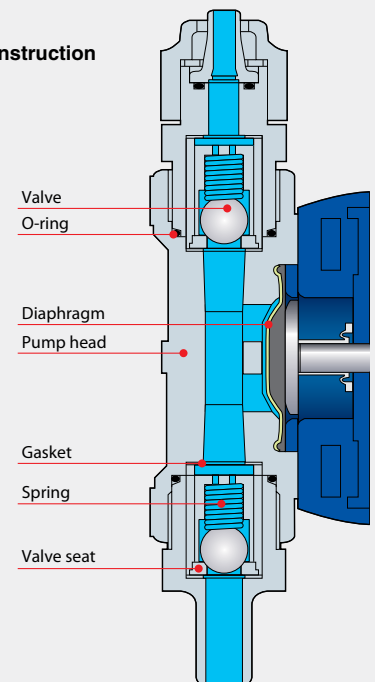
### Adaptable Modular Design

Liquid end, drive and electronics are modular, enabling economical repair or replacement of parts. The control module can easily be mounted in a remote location.

### Long Lasting Diaphragm

PTFE laminate over EPDM is molded onto a solid core. A retainer plate is provided to minimize flow rate changes as pressure varies.

Construction



**W A L C H E M**

IWAKI America Inc.

# ORDERING INFORMATION

<b>EH</b>	<b>E36</b>	<b>E</b>	<b>1</b>	—	<b>HV</b>	<b>V</b>
Pump Series	Capacity/Pressure	Control Module	Voltage		Liquid End	Options
<b>EWP</b>	<b>150E</b>	<b>PC</b>	<b>08</b>		<b>V</b>	— <b>US</b>
Pump Series	Capacity/Pressure	Liquid End	Conn. Size		High Viscosity	Voltage Control Module

## PUMP SERIES

**EH/EWP** = Electronic metering pump with external control and manual speed control

## CAPACITY/PRESSURE RATING

See chart on this page

## CONTROL MODULE

- R** = For use on all EWP models: On/Off with 0-240 digital speed control, external start/stop, programmable 4-20 and digital pulse input with multiplier/divider control; turndown ratio of 1200:1.
- E** = For use on all EHE models: On/Off with 0-240 digital speed control, external start/stop, programmable 4-20 and digital pulse input with multiplier/divider control; turndown ratio of 1200:1.

## VOLTAGE

### EHE

- 1 = 115VAC, 50/60 Hz 1.8A Maximum, 48W Avg.  
2 = 230VAC, 50/60 Hz 0.8A Maximum, 48W Avg.

### EWP

- US = 115VAC, 50/60 Hz 1.1A Maximum, 23W Avg.  
UH = 230VAC, 50/60 Hz 0.5A Maximum, 23W Avg.

## LIQUID END MATERIALS

See chart on this page

## OPTIONS

**Blank** = No accessories included, only tubing

- V** = EHE models including a threaded back pressure/anti-syphon valve.
- T** = EHE models including 1/2" NPT fittings on suction/discharge of pump
- P** = EHE models including 1/2" NPT fittings on suction/discharge of pump & threaded back pressure/anti-syphon valve
- S** = Changes valve balls to 316SS in EWP-150EPC models

## CAPACITY/PRESSURE RATING

Size	Max Output Capacity*		Max Output per Stroke	Max Pressure		Connection Size
	GPH	ml/min	ml	PSI	MPa	Inches
150E	2.4	150	0.625	73	0.5	3/8" ID x 1/2" OD Tubing DISCHARGE x 1/2" ID Flex Tube SUCTION (08)
E36	5.2	329	1.37	73	0.5	
E46	8.0	499	2.08	60	0.4	1/2" MNPT (on -T/11 Versions only)

\*Outputs rated with clean water at room temperature. As viscosity increases, outputs will be reduced.

## LIQUID END MATERIALS

Parts	Material		
Liquid End	EHE-HV	EWP PS	EWP
Pump head & fittings	GFRPP		
Diaphragm	PTFE		
Valve balls	316SS		CE (SS)
Valve seats	PCTFE		
Valve seals	FKM	EPDM	FKM
Valve spring	HC	316SS	HC
Gasket	PTFE		

- CE Alumina ceramic  
PCTFE Polychlorotrifluoroethylene  
FKM Fluoroelastomer  
EPDM Ethylene propylene diene monomer  
GFRPP Glass fiber reinforced polypropylene  
HC Hastelloy C276  
PTFE Polytetrafluoroethylene  
316SS Stainless Steel

## SAFETY CERTIFICATIONS

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



**walchem.com**

ISO 9001 registered company  
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## Walchem, Iwaki America Inc.

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.

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