Metering Pumps



HV Series High Viscosity

Walchem and Iwaki have created a unique partnership with over 100 years combined pump experience in an array of different markets. The HV series is specifically designed to accurately feed high viscosity chemicals.

Equipped with rugged, machined PVC or 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*, the HV series is available in feed ranges from 2.3 GPH to 8 GPH and pressures up to 73 PSI.



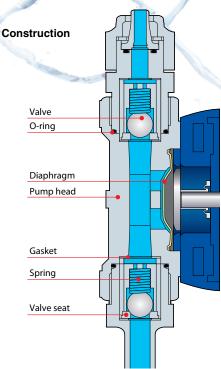
Sophisticated design and backed with the industry's only full 2-year warranty, the EH-HV series is the perfect solution for high viscosity feed applications.

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

Summary of 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.



Ordering Information



Pump Capacity/ Liquid Voltage Control High Options
Series Pressure End Module Viscosity

PUMP SERIES

EH/EWN = 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 EWN-C models: On/Off with 0-240 digital speed control, external start/stop, programmable 4-20 and digital pulse input with mulitplier/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 mulitplier/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.

EWN-C

U = 115VAC, 50/60 Hz 1.2A Maximum, 24W Avg. 2 = 230VAC, 50/60 Hz 1.2A Maximum, 24W Avg.

LIOUID END MATERIALS

See chart on this page

OPTIONS

Blank = No accessories included, only tubing

- V = EHE models including a threaded back pressure/antisyphon valve.
- T = EWN-C and EHE models including ½" NPT fittings on suction/discharge of pump
- P = EHE models including ½" NPT fittings on suction/ discharge of pump & threaded back pressure/antisyphon valve
- S = Changes valve balls to 316SS in EWN-C-PC models

Capacity/Pressure Rating

	Size	Max Output Capacity*		Max Output per stroke	Max Pressure		Connection Size	
		GPH	ml/ min	ml	PSI	MPa	Inches	
	C31	2.3	150	0.625	73	0.5	3/8"ID x ½" OD Tubing DISHCARGE x ½" ID Flex Tube SUCTION ½"MNPT (on -T Versions ONLY)	
	E36	4.0	252	1.05	73	0.5		
	E46	8.0	505	2.10	60	0.4		

^{*}Output rated w/20,000cps polymer. Output increases with lower viscous fluids up to 25% with water.

Liquid End Materials

Parts	Material				
Liquid End	EHE-HV	EWN-C P6	EWN-C PC(S)		
Pump head & fittings	GFRPP				
Diaphragm	PTFE				
Valve balls	5	CE (SS)			
Valve seats	PCTFE				
Valve seals	FKM	EPDM	FKM		
Valve spring	HC	SS	HC		
Gasket	PTFE				

CE Alumina ceramic

PCTFE Polychlorotrifluoroethylene

FKM Fluoroelastomer

PVC Polyvinylchloride (translucent)

HC Hastelloy C276
PTFE Polytetrafluoroethylene
SS Stainless Steel

Safety Performance

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



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



