2025

WEARABLE

VALOR

INNOVATE

ADVANCE COURAGEOUSLY

China Factory & Sales Center

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E01 DIGITAL DOSING PUMP

UNIVERSAL SOLUTION FOR ALL METROLOGICAL APPLICATIONS

FLUID QUANTITATIVE CONVEYING STATION

2025

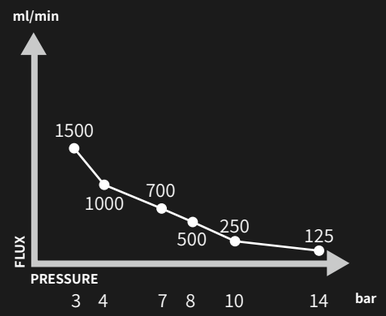
ZHEJIANG WEARABLE ENVIRONMENTAL TECHNOLOGY CO.LTD

E01 DIGITAL DOSING PUMP

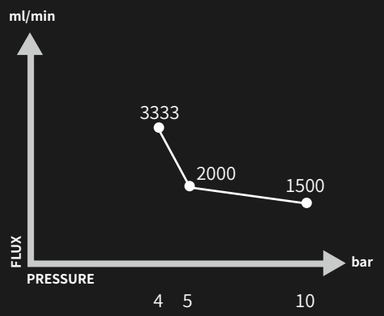
- Quick Installation
- Easy Operation
- Precise Measurement
- Condition Monitoring
- Multiple External Control Options
- Various Operating Modes
- Automatic flow control
- Flow&pressure Exception control

FLOW RANGE

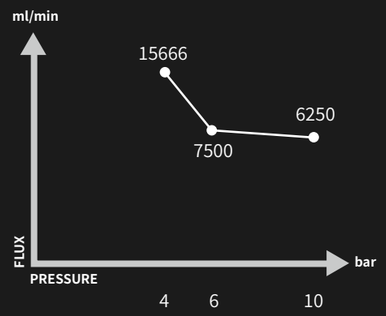
Model Series	Min. flow rate L/h	Max. flow rate L/h	Max. Operating Pressure bar
EO1A	0.015	90	14
EO1B	0.06	200	10
EO1C	0.06	940	10



E01A SERIES



E01B SERIES



E01C SERIES

E01A SERIES MODEL PARAMETER TABLE

TECHNICAL PROJECT	UNIT	E01A 7.5-14	E01A 015-10	E01A 030-08	E01A 042-07	E01A 060-04	E01A 090-03
Turn-down ratio(Setting Range)	1:X	1:250	1:250	1:500	1:700	1:1000	1:1500
Maximum flow rate in standard mode	L/h	7.5	15	30	42	60	90
Maximum viscosity in 50% slow mode	L/h	3.75	7.5	15	21	30	45
Maximum viscosity in 25% slow mode	L/h	1.875	3.75	7.5	10.5	15	22.5
Minimum flow rate	L/h	0.015	0.015	0.03	0.06	0.06	0.06
Maximum operating pressure (Back Pressure)	Bar	14	10	8	7	4	3
Accuracy of repeatability	%FS	±0.1~0.5	±0.1~0.5	±0.1~0.5	±0.1~0.5	±0.1~0.5	±0.1~0.5
Standard installation maximum lift [1]	m	3	3	3	3	3	3
Minimum pressure difference between inlet and outlet [2]	Bar	1	1	1	1	1	1
Maximum viscosity in 25% slow mode	cP	1500	1500	1500	1500	1500	1500
Maximum viscosity in 50% slow mode	cP	800	800	800	800	800	800
Maximum viscosity in standard mode	cP	100	100	100	100	100	100
Type of inlet and outlet pipe	none	Hose	Hose	Hose	Hose	Hose	PVC pipe
Diamter of inlet and outlet pipe	mm	12*8	12*8	12*8	12*8	12*8	DN15
Minimum/Maximum liquid temperature for conveyance [3]	°C	0-45	0-45	0-45	0-45	0-45	0-45
Minimum/Maximum operating environment temperature	°C	0-45	0-45	0-45	0-45	0-45	0-45
Maximum operating altitude	m	3200	3200	3200	3200	3200	3200
Rated power	w	120	120	120	120	120	120

MARGINAL NOTES

[1] Test results based on an altitude below 100 meters, using pure water as the medium at a temperature of 20°C.
[2] Pressure differential can be increased by adding a back pressure valve to the outlet.
[3] Optional flow components with different materials are available to extend the temperature range of the medium. For more details, please consult the manufacturer.

E01A 7.5-14 | E01A 015-10 | E01A 030-08 | E01A 042-07 | E01A 060-04 | E01A 090-03

E01B SERIES MODEL PARAMETER TABLE

TECHNICAL PROJECT	UNIT	E01B 090-10	E01B 120-05	E01B 200-04
Turn-down ratio(Setting Range)	1:X	1:1500	1:2000	1:3333
Maximum flow rate in standard mode	L/h	90	120	200
Maximum viscosity in 50% slow mode	L/h	45	60	100
Maximum viscosity in 25% slow mode	L/h	22.5	30	50
Minimum flow rate	L/h	0.06	0.06	0.06
Maximum operating pressure (Back Pressure)	Bar	10	5	4
Accuracy of repeatability	%FS	±0.5~1	±0.5~1	±0.5~1
Standard installation maximum lift [1]	m	3	3	3
Minimum pressure difference between inlet and outlet [2]	Bar	1	1	1
Maximum viscosity in 25% slow mode	cP	1500	1500	1500
Maximum viscosity in 50% slow mode	cP	800	800	800
Maximum viscosity in standard mode	cP	100	100	100
Type of inlet and outlet pipe	none	PVC pipe	PVC pipe	PVC pipe
Diamter of inlet and outlet pipe	mm	DN20	DN20	DN20
Minimum/Maximum liquid temperature for conveyance [3]	°C	0-45	0-45	0-45
Minimum/Maximum operating environment temperature	°C	0-45	0-45	0-45
Maximum operating altitude	m	3200	3200	3200
Rated power	w	150	150	150

MARGINAL NOTES

[1] Test results based on an altitude below 100 meters, using pure water as the medium at a temperature of 20°C.
[2] Pressure differential can be increased by adding a back pressure valve to the outlet.
[3] Optional flow components with different materials are available to extend the temperature range of the medium. For more details, please consult the manufacturer.

E01B 090-10

E01B 120-05

E01B 200-04

E01C SERIES MODEL PARAMETER TABLE

TECHNICAL PROJECT	UNIT	E01C 375-10	E01C 450-06	E01C 940-04
Turn-down ratio(Setting Range)	1:X	1:6250	1:7500	1:15666
Maximum flow rate in standard mode	L/h	375	450	940
Maximum viscosity in 50% slow mode	L/h	187.5	225	470
Maximum viscosity in 25% slow mode	L/h	93.75	112.5	235
Minimum flow rate	L/h	0.06	0.06	0.06
Maximum operating pressure (Back Pressure)	Bar	10	6	4
Accuracy of repeatability	%FS	±1	±1	±1
Standard installation maximum lift [1]	m	3	3	3
Minimum pressure difference between inlet and outlet [2]	Bar	1	1	1
Maximum viscosity in 25% slow mode	cP	1500	1500	1500
Maximum viscosity in 50% slow mode	cP	800	800	800
Maximum viscosity in standard mode	cP	100	100	100
Type of inlet and outlet pipe	none	PVC pipe	PVC pipe	PVC pipe
Diamter of inlet and outlet pipe	mm	DN25	DN25	DN25
Minimum/Maximum liquid temperature for conveyance [3]	°C	0-45	0-45	0-45
Minimum/Maximum operating environment temperature	°C	0-45	0-45	0-45
Maximum operating altitude	m	3200	3200	3200
Rated power	w	400	400	400

MARGINAL NOTES

[1] Test results based on an altitude below 100 meters, using pure water as the medium at a temperature of 20°C.
[2] Pressure differential can be increased by adding a back pressure valve to the outlet.
[3] Optional flow components with different materials are available to extend the temperature range of the medium. For more details, please consult the manufacturer.

E01C 375-10

E01C 450-06

E01C 940-04

E01 ELECTRIC DIFFERENTIAL PUMP

DOMINANCE

80% DOWNSIZE

±0.2% OUTPUT ACCURACY

60% COST SAVING

High Precision

High-speed pulse control with resolutions of up to 18K enables the highest level of flow accuracy, reaching a maximum of 0.2%.

Modular Design

Fully modular integrated design for easy installation and convenient usage.

Intelligent Features

Internal integration of AI algorithm module, without access to PLC can realize PH,liquid level, concentration of PID control, timing on/off quantitative dlivery and other functions, equipped with communication interface.

Automated Monitoring

Cell phone through WIFI or 4G access to the centralized control center,wireless remote monitoring can be realized, the entire metering system,including:flow adjustment, cost reports,-consumption on duty, wear parts life, fault alarm and other monitoring.

Anti-clogging

Pipe network status monitoring, self-contained flushing function, multiple high viscosity liquid delivery strategies.

Extended Lifespan

The life of wearing parts is higher than traditional metering pumps,with damage warning function.

E01 DIGITAL DOSING PUMP

- Modularization
- Flexible Rotation
- Built-in Algorithm Module
- Easy Operation
- Convenient Installation
- Highly Accurate Flow Control
- Function Expansion
- Corrosion Resistance
- Multiple Control Functions
- Multifunctional Module
- IP65 Waterproof Design
- Quick Clean

Control Module

The pump can beoperated locally for flow rate setting, pressure monitoring, wear parts monitoring, automatic concentra-tion proportioning and function switching.

Communication Interface

Multiple external control interfaces for including: current, voltage, Modbus, DP, pulse and other external control modes.

Quick Release Base

Strong, stable and fast, from removal to installation in just 10 seconds.

Pipe Network pressure Monitoring

STOCKTM technology and Fourier algorithm to determine the operating status within the pipe network in real time.

Diaphragm Monitoring

LDC-technology monitors the internal conductivity of the diaphragm.The LDC-technology monitors the internal conductivity of the diaphragm.cracks in the diaphragm, an alarm message is issued.

OPERATING PRINCIPLE

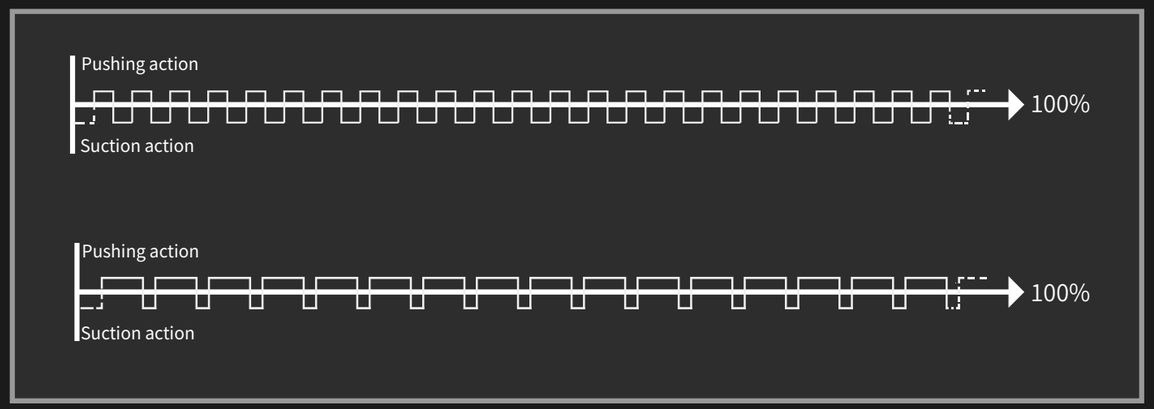
The E01 digital dosing pump uses vector motor control technology,achieving a maximum controllable flow range ratio of 1:1500, with the highest output accuracy of ±0.2%, wwhich can meet the requirements of high-precision fluid transfer applications.

HIGHLY ACCURATE
OUTPUT FLOW CONTROL

01
A vector motor drives the diaphragm in a reciprocating motion to draw liquid into and out of the pump head.

02
Vector motors achieve precise and uniform output control of liquids by using calculus algorithms to establish a linear relationship between the motor rotation angle and the output flow rate.

03
Vector motors enable precise delivery of highly viscous liquids by controlling the suction speed.



FUNCTION

Conveys Fluids Of Various Viscosities

Viscosity range

0-1500C.P

- Multiple remote control interfaces
- Access to various external signals
- Easy operation

Integrated Modular Architecture

- Quick Setup Workstation
- Easy Installation
- Small footprint

Integration of up to 20 pumps
Multiple modules can be connected in parallel/series
Unlimited expansion

FSS Fluid Specialization Module

Scan code for details

- Wear parts life monitoring
- Pipe Leakage Alarm
- Fluid deficiency monitoring
- Automatic exhaust

PERSONALIZED INTEGRATED RACKS

Space saving and cost reduction

80%

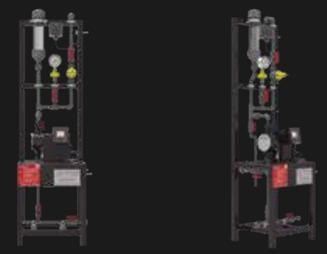
01 Modularization

02 Standard Universal Interface

03 Portfolio Flexibility

04 Multiple Mounting Options

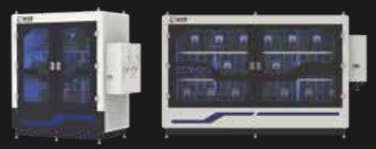
1 rack for 1 spare



Vertical stand-alone

Wall-mounted single/double

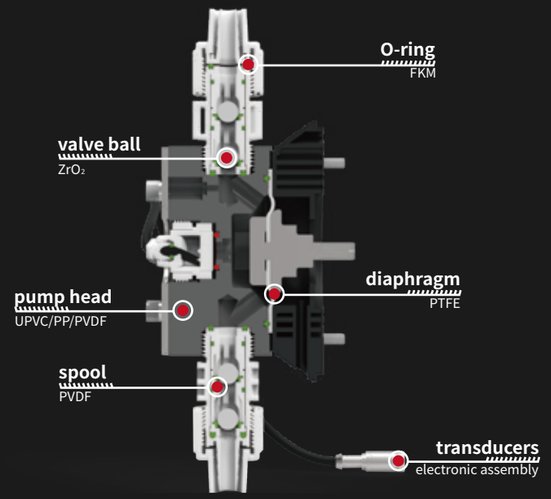
Vertical Duplex



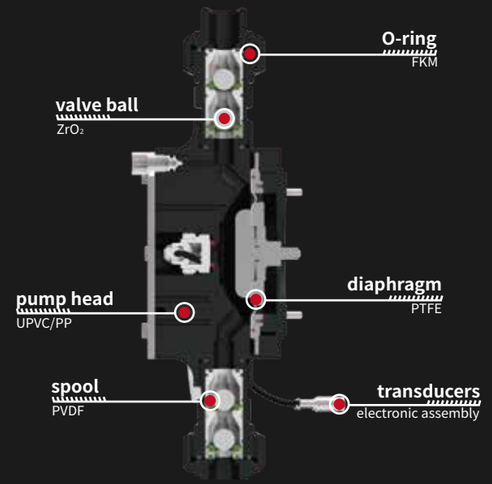
Integrated Vertical

OVERCURRENT MATERIAL

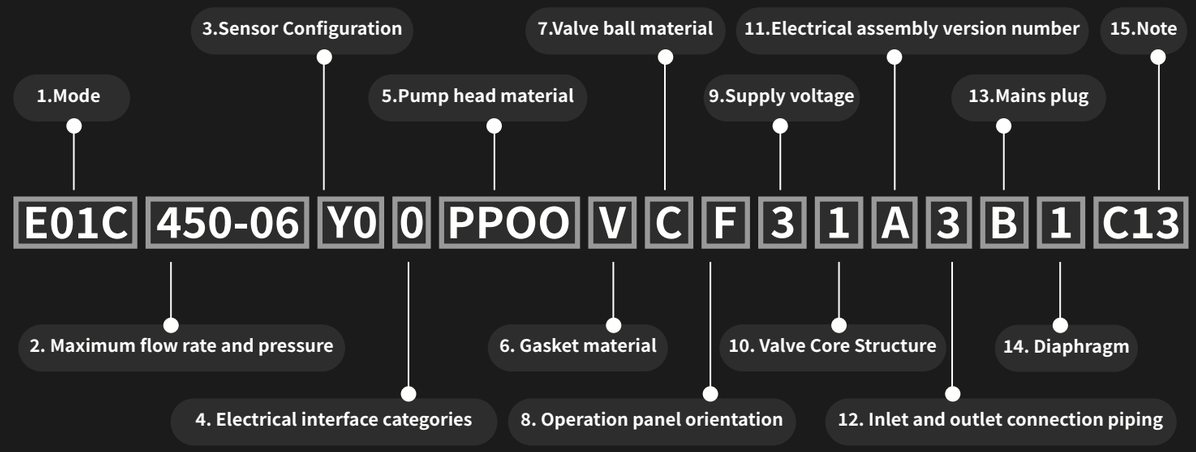
E01A 042-07



E01A 090-03



MODEL IDENTIFICATION



MODEL DESCRIPTION I

1.Range (E01 Range)

CODE (4 DIGITS)	DEFINITIONS
E01A	E01A Maximum flow rate 90L/h
E01B	E01B Maximum flow rate 200L/h
E01C	E01C Maximum flow rate 940L/h

2.Maximum flow rate and pressure

CODE (6 DIGITS)	DEFINITIONS
7.5-14	Flow rate of 7.5 L/h at 14 bar pressure
015-10	Flow rate of 15 L/h at 10 bar pressure
030-08	Flow rate of 30 L/h at 8 bar pressure
042-07	Flow rate of 42 L/h at 7 bar pressure
060-04	Flow rate of 60 L/h at 4 bar pressure
090-03	Flow rate of 90 L/h at 3 bar pressure
090-10	Flow rate of 90 L/h at 10 bar pressure
120-05	Flow rate of 120 L/h at 5 bar pressure
200-04	Flow rate of 200 L/h at 4 bar pressure
375-10	Flow rate of 375 L/h at 10 bar pressure
450-06	Flow rate of 450 L/h at 6 bar pressure
940-04	Flow rate of 940 L/h at 4 bar pressure

3.Configuring Sensors

CODE (2 DIGITS)	DEFINITIONS
Y0	YLC (Pressure) Sensor
0L	LDC (Leakage) Sensor
YL	YLC (Pressure) sensor and LDC (Leakage) Sensor

4.Electrical Interface Category

CODE (1 DIGIT)	DEFINITIONS
0	Basic version 1 (with 485 interface only)
1	Standard version 1 (equipped with 485 interface,LDC sensor interface, 4-20mA input interface)
2	Standard version 2 (equipped with all interfaces except 4-20mA input interface)
3	Digital version (with all interfaces)
4	Basic version 2 (with 485 interface and leakage interface only)

5.Pump Head Material

CODE (4 DIGITS)	DEFINITIONS
PVDF	Polyvinylidene fluoride
PVC0	Polyvinyl chloride
S001	304 stainless steel
S002	316L stainless steel
S003	Aluminium alloy
PP00	Polypropylene
PTFE	Polytetrafluoroethylene
CPVC	Chlorinated polyvinyl chloride

6.Gasket Material

CODE (1 DIGIT)	DEFINITIONS
E	EPDM EPDM rubber
T	PTFE polytetrafluoroethylene
V	FPM Fluorine Rubber
F	FEPM tetrapropylene fluorine rubber

E01 DIGITAL DOSING PUMP

MODEL DESCRIPTION II

7.Valve Ball Material

CODE (1 DIGIT)	DEFINITIONS
G	Fiberglass
A	Upper zirconium beads and lower glass balls

8.Operation Panel Orientation

CODE (1 DIGIT)	DEFINITIONS
F	Anterior
R	Right side
L	Left side
C	Lateral side

9.Supply Voltage

CODE (1 DIGIT)	DEFINITIONS
3	110~240Vac/50Hz

10.Valve Core Structure

CODE (1 DIGIT)	DEFINITIONS
1	standard
2	Spring

11.Electrical assembly version number

Manufacturing non-standard codes

12.Inlet And Outlet Connection Piping

CODE (1 DIGIT)	DEFINITIONS
1	ϕ12x8 hose
2	ϕ12x17 hose
3	DN15
4	DN20
5	DN32

13.Mains Plug

CODE (1 DIGIT)	DEFINITIONS
B	China
J	Japan
E	Europe
A	America
D	DC2P aircraft carrier

14.Diaphragm

CODE (1 DIGIT)	DEFINITIONS
1	Diaphragm assembly (without PTFE)
2	Diaphragm assembly (PTFE coated)
3	Composite diaphragm (brass)
4	Composite diaphragm (carbon steel)

15.Note

Manufacturing non-standard codes

AREAS OF APPLICATION

SITE OF USE

New energy copper foil manufacturing additive dosing

Chemical and smelting acid additives

Water and wastewater plant chemical dosing

Bio-energy various enzyme additives

Industrial cooling system scale inhibitor addition

Metallic and non-metallic beneficiation chemicals dosing

Automobile manufacturing: Paint color mixing masterbatch feeding