skylink
Specialist in Fluid Transfer

SKYLINK

metering pump

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CONTENT

COMPANY PROFLE

Since the brand inception, SKYLINK, a globally renowned diaphragm pump manufacturer, has focused on fluid delivery, providing solutions to users around the world.

Our main products include AODD Pump, EODD Pump,External Gear Pump, Micro Magnetically Gear Pump, Rotary Lobe Pump and In-Line Measurement. Our core markets include lithium batteries, environmentally friendly water treatment, pharmaceutical, chemical, coating, mining, electronics and other industrial applications.

As an experienced industrial pump manufacturer, Skyforce diaphragm pump series of products can also deliver ordinary fluid medium, corrosive medium, high wear medium, high viscosity medium and powder particle medium. Skeli provides reasonable and efficient fluid delivery solutions based on applications and customer needs.

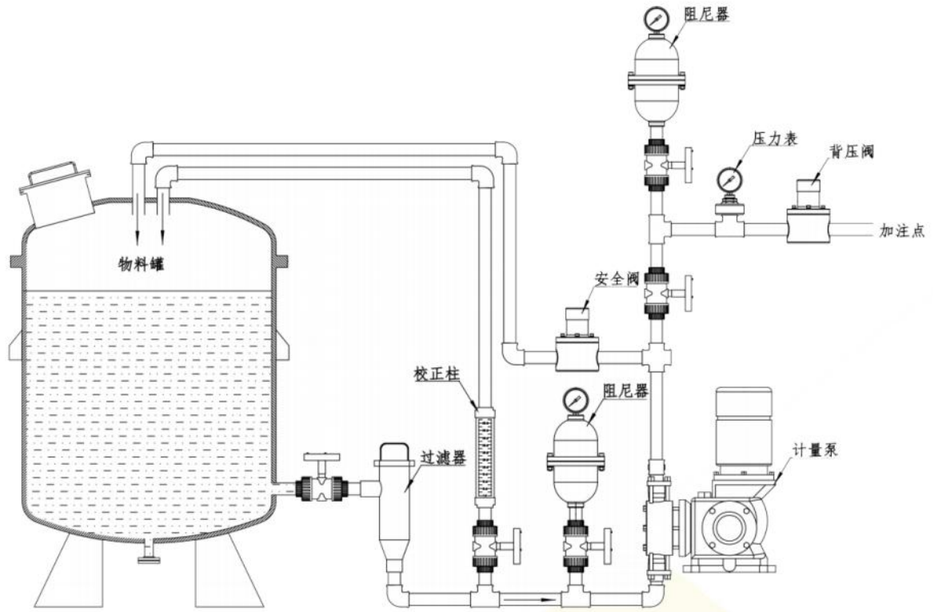
Metering Pump

A metering pump is a reciprocating volumetric pump with adjustable flow, used for precise metering. Due to its wide adaptability, high precision, and convenient control, it is widely used in various fields such as chemical, pharmaceutical, food, petroleum, energy, and environmental water treatment.

Peculiarity

- No leakage,
- high safety performance
- Smooth operation
- Low noise
- Easy maintenance
- Parallel use
- Precise metering
- Wide adjustment range
- Clear and intuitive adjustment
- Manual adjustment
- Frequency conversion flow adjustment
- Remote control and automatic control by computer

Installation



Applications

Scope of application

- General fluids, high viscosity, flammable and explosive, toxic, irritating odor, radioactive substances

- Organic
- inorganic
- fine chemicals
- resin coatings
- agrochemicals
- daily chemicals

- Circulating water dosing
- boiler water treatment
- condensate water treatment
- flue gas desulfurization and denitrification
- nuclear power station water supply
- decontamination

- Oil extraction
- gas extraction
- refining
- water treatment
- petrochemical
- oil and gas transportation/storage

- tap water
- domestic sewage
- industrial wastewater
- purified water
- air pollution prevention
- solid waste treatment and resource utilization

Mechanical diaphragm metering pump

Main performance parameters

- Flow rate range： 6.5-180 L/h（HW）
  2.25-500 L/h（HM）
  82-1800 L/h（HB）
  877-3000 L/h（HX）
- Pressure range：3-12 Bar
- Adjustment range：30 %-100 %， Steady-state accuracy±1%
- Suction lift can reach up to 3m water column
- Maximum inlet pressure：2 Bar
- Maximum ambient temperature：45℃

Main features

Liquid receiving end

- Variable eccentric mechanism adjustment ensures smooth flow fluctuation
- Enhanced structural design suitable for harsh operating environment
- Wear-resistant ball bearings for more stable operation
- Oil bath lubrication for longer working life of driving components
- Flow adjustment is possible both in shutdown or operating state, with manual, electric or frequency conversion options

Hydraulic end

- Mechanically driven diaphragm, no diaphragm guard on the material side, facilitating material passage
- PVC, PVDF, 316SS, high viscosity, slurry and other pump head materials suitable for conveying various materials
- Self-cleaning check valve for easy maintenance

Control mode

- Electric stroke controller accepts external control signals to adjust stroke length
  - Power supply: Single phase
  - Input signal: 4-20 mA Analog signal
  - Output signal: 4-20 mA /1-5 V
- Frequency converter controller can be installed to receive external control signals and adjust stroke speed
  - Power supply: 380 V /Three phase
  - Input signal: 4-20 mA Analog signal
- Switch controller controls three-phase motor in “on/off” mode to adjust output flow

Performance parameters of standard motor

- Power supply: 380 V / Three phase、220 V / Single phase
- Protection level: IP55
- insulation level：Class F
- All motors comply with standards of International Electrotechnical Commission (IEC) or National Electrical Code (NEC) of the United States

Main applications

- Environmental protection, petrochemical, chemical, refining, power, metallurgy, pharmaceutical, food, water treatment and other fields.

Accessories

- Optional accessories: Filter, calibration column, pulsation damper, safety valve and back pressure valve, etc., safety valve is a must
- Besides high-viscosity pump head, HM0002-HM0050 PVC hydraulic metering pump is provided with injection valve, bottom valve, counterweight and 6m hose

Options available

- Double diaphragm pump head
- Detect rupture of double diaphragm pressure gauge and pres
- Stroke count sensor
- PNP output/NPN output/Electrical output

HW mechanical diaphragm metering pump

Main performance parameters

- Flow rate range：6.5~180 L/h
- Pressure range：4~10 Bar
- Pump head material：PVC、PVDF、316SS
- Connection：DN15
- Motor: single-phase 220V, three-phase 380V
- Power range：40~90 W

HW Selection Table

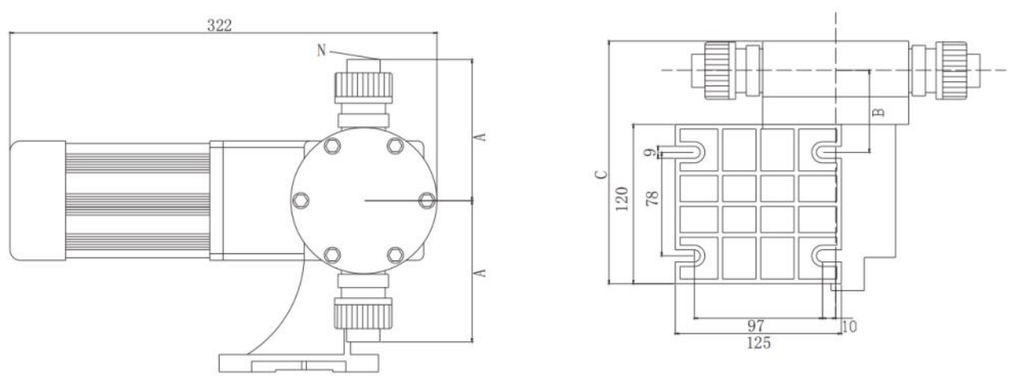
Series	Rated flow		pressure	Hydraulic end	Interface
HW	120	/	0.4	P	Q

Technical Parameters

Code	Maximum flow（L/h）	Maximum pressure（Bar）	Pump head material	Motor（W）
HW6.5/1PQ	6.5	10	PVC	40
HW12/1PQ	12	10	PVC	40
HW24/1PQ	24	10	PVC	40
HW32/0.8PQ	32	8	PVC	60
HW40/0.8PQ	40	8	PVC	60
HW60/0.8PQ	60	8	PVC	60
HW80/0.5PQ	80	5	PVC	90
HW100/0.5PQ	100	5	PVC	90
HW120/0.4PQ	120	4	PVC	90
HW150/0.4PQ	150	4	PVC	90
HW180/0.4PQ	180	3	PVC	120

HW尺寸表（mm/in）

Pump head material	HW6.5-HW40					HW60-HW180				
	interface	A	B	C	N	interface	A	B	C	N
PVC	R	98	61	183	DN15	Q	106	62	183	DN15
PVDF	P	107	61	183	1/2"F	P	108	62	183	1/2"F
316	P	109	61	183	1/2"F	P	109	62	183	1/2"F



HM mechanical diaphragm metering pump

Main performance parameters

- Flow rate range：2.25-500 L/h
- Pressure range：5-12 Bar
- Pump head material：PVC、PVDF、316SS、PTFE
- Connection：NPT、 hose
- Motor: single-phase 220V, three-phase 380V
- Power range：0.25kW / 0.37 kW
- Adjustment: manual stroke adjustment
  Electric 4-20 mA,1PH-50 Hz-220 V
- Base: optional
- Other options: Diaphragm rupture selection, pressure gauge, pressure switch, explosion-proof

HM Selection Table

Series	Rated flow	Hydraulic end	Interface	Motor	Adjustment	Base	Options
HM	500	S	X	3	M	Y	D

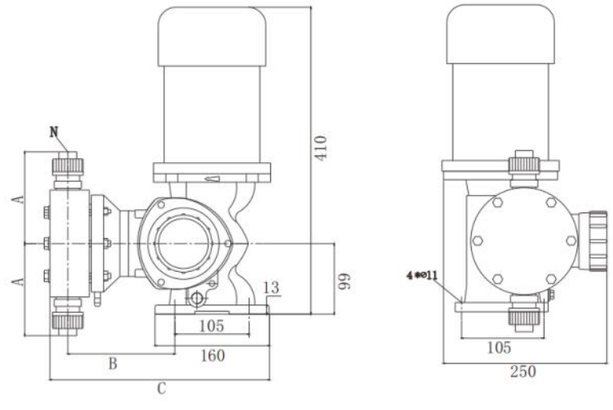
Technical Parameters

Code	Maximum flow（L/h）	Maximum pressure（Bar）	Stroke times（Min^{-1}）	Motor（kW）
HM0002	2.25	12	36	0.25 ■
HM0005	4.5		36	0.37 ■
HM0010	9		36	
HM0025	25		72	
HM0050	50	10	144	
HM0090	85	7	72	
HM0120	115		72	
HM0170	170		144	
HM0240	235		144	
HM0330	315	5	144	
HM0400	400		144	0.37
HM0500	500		180	

■ This power is for three-phase constant-speed motor ■ This power is for single-phase, explosion-proof, frequency conversion motor

HM Dimensions （mm/in）

Dimensions	HM0002-HM0050					HM0090-HM0500				
	interfaces	A	B	C	N	interfaces	A	B	C	N
PVC	R	90	102	250	12.7*9.5	Q	129	150	307	DN15
PVDF	P	99	102	250	1/2″F	P	131	150	307	1/2″F
316	P	101	102	250	1/2″F	P	127	150	307	1/2″F



HB mechanical diaphragm metering pump

Main performance parameters

- Flow rate range：82-1800 L/h
- Pressure range：3-10 Bar
- Pump head material：PVC、PVDF（HB0080-HB0600）、PTFE、316SS
- Connection：NPT、hose
- Motor: single-phase 220V, three-phase 380V
- Power range：0.55 kW / 0.75 kW
- Adjustment: manual stroke adjustment
  Electric 4-20 mA,1PH-50 Hz-220 V
- Base: optional
- Other options: Diaphragm rupture selection, pressure gauge, pressure switch, explosion-proof

HB Selection Table

Series	Rated flow	Hydraulic end	Interface	Motor	Adjustment	Base	Options
HB	1200	S	X	3	M	Y	D

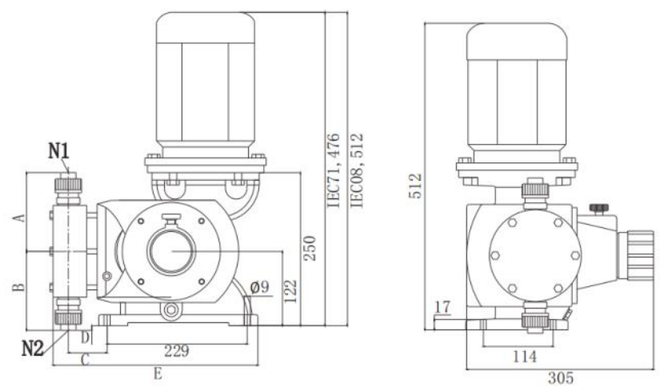
Technical Parameters

Code	Maximum flow（L/h）	Maximum pressure（Bar）	Stroke times（Min^{-1}）	Motor （kW）
HB0080	82	10	36	0.55 ●
HB0180	167		72	0.75 ●
HB0250	237		102	
HB0350	334		144	
HB0400	416		180	
HB0500	464	7	144	
HB0600	583		180	
HB0700	656	3.5	102	
HB1000	946		144	
HB1200	1200		180	
HB1500	1500	3	180	0.75
HB1800	1800		206	

● This power is for three-phase constant-speed, explosion-proof motor ● This power is for single-phase, frequency conversion motor

HB Dimensions （mm/in）

Dimensions \ Model	HB0080-HB0400		HB0500-HB0600		HB0700-HB1200		HB1500		HB1800	
	metal	plastic	metal	plastic	metal	plastic	metal	plastic	metal	plastic
A	129	127	174	174	185	190	192	203	215	221
B	129	127	174	174	192	203	192	203	215	221
C	63	63	77	77	94	91	94	91	94	94
D	8	6	25	25	70	81	70	81	94	87
E	334	334	358	358	375	380	375	380	375	380
N1	1/2″	1/2″	1″	1″	1″	1″	1-1/2″	1-1/2″	1-1/2″	1-1/2″
N2	1/2″	1/2″	1″	1″	1-1/2″	1-1/2″	1-1/2″	1-1/2″	1-1/2″	1-1/2″



HX mechanical diaphragm metering pump

Main performance parameters

- Flow rate range：877~2940 L/H
- Pressure range：3~6 Bar
- Pump head material：PVC、PVDF、316SS
- Motor: single-phase 220V, three-phase 380V
- Power range：1.1~1.5 kW
- Connection：DN25/DN40

HX Selection Table

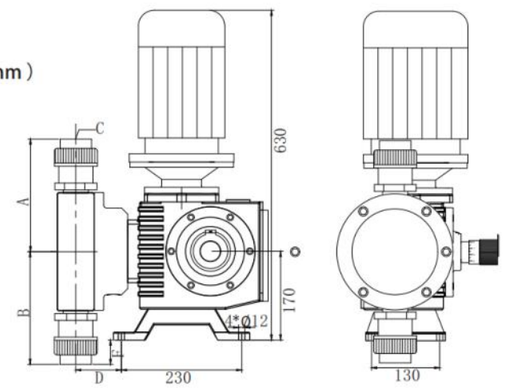
Series	Rated flow	Hydraulic end	Interface	Motor
HX	1000	P	P	1

Technical Parameters

Code	flow (L/h)	pressure (Bar)	Diaphragm diameter (mm)	Stroke (mm)	Pump speed (Min^{-1})	Motor power (kW)	Inlet and outlet caliber
HX0900	877	6	170	16	88	1.1	DN25
HX1350	1306	6	170	16	131	1.1	DN40
HX1800	1755	6	170	16	176	1.1	DN40
HX2300	2230	5	225	16	131	1.5	DN40
HX3000	2940	3	225	16	176	1.5	DN40

HX Dimensional Drawings （mm）

model	A	B	C	D	F
HX0900	185	192	DN25	90	25
HX1350	192	192	DN40	90	25
HX1800	215	215	DN40	90	48
HX3000	227	227	DN40	90	60



Electromagnetic metering pump

Working principle

The electromagnetic drive shaft moves back and forth by switching the magnet on and off, and the stroke movement is transmitted to the pump head diaphragm. Two one-way valves at the inlet and outlet prevent the added medium from flowing back during pumping. The length and frequency of the stroke can be adjusted to change the flow of the electromagnetic metering pump.

Product features

- Excellent metering accuracy
- High-precision spherical check valve and guide valve, completely sealed to prevent backflow, improving metering accuracy
- Excellent diaphragm quality, PTEE material, with reinforced backing plate
- Suitable for high-viscosity chemicals, viscosity can reach 20,000 centipoise
- Standard exhaust valve, easy operation

Wide range of applications

In the field of electromagnetic metering pump technology, the Pasfida series of metering pumps always adhere to the principle of excellent quality and reasonable price, and are deeply favored by customers.

Lightweight and practical overall design

- Advanced custom circuit board, accurate speed control is not affected by heat source and electromagnetic interference
- The interior is completely sealed and waterproof
- The special heat dissipation design effectively exerts the heat dissipation function and increases the service life

Multiple optional functions

It features manual single and dual adjustment modes, capable of receiving pulse and 4-20mA signals for automatic control.

D/D Puls Electromagnetic metering pump

Main performance parameters

- Manual adjustments for both frequency and stroke are available
- Flow rate：1-20L/H
- Pressure range：1.5-7Bar

Advantages and features

- The shell is made from high-strength, corrosion-resistant plastic
- LED digital tube displays are used for intuitive and convenient operation
- The valve base is precision-engineered from PTFE for enhanced corrosion resistance
- Simple structure design, controllable cost

D/D Plus Selection Table

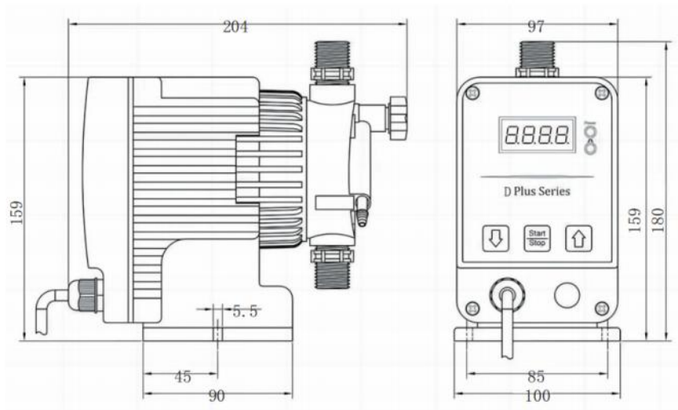
Model	Overflow material	Control type	Electrical connection	Accessories
D0701	A	A	1	1
D0701-D0211	A=PP	A=Basic control	1=Standard plug	1=Bottom valve, injection valve, hose
D Plus0408-D Plus0320	B=Other customization	B=Other customization	2=Other customization	2=Other customization

技术参数表

Model	Maximum flow （L/h）	Maximum pressure （Bar）	Power （W）	Connection size
D0701	1	7	24	6*4mm
D0702	2	7	24	6*4mm
D0703	3	7	24	6*4mm
D0704	4	7	24	6*4mm
D0506	6	5	24	6*4mm
D0309	9	3	24	6*4mm
D0211	11	1.5	24	6*4mm
D Plus 0408	8	3.5	40	6*4mm
D Plus 0412	12	3.5	40	6*4mm
D Plus 0315	15	2.5	40	6*4mm
D Plus 0220	20	1.5	40	6*4mm
D Plus 0709	9	7	50	6*4mm
D Plus 0712	12	7	50	6*4mm
D Plus 0515	15	5	50	6*4mm
D Plus 0320	20	3	50	6*4mm

Material table for overflow components

Name	Standard materials	Optional materials
Pump head	PP	/
Diaphragm	PTFE	/
Valve body	PP	/
Valve ball	Ceramics	PTFE
Valve base	PTFE	/
Valve spring	Hastelloy	/
Seals	FPM	EPDM



单位：mm

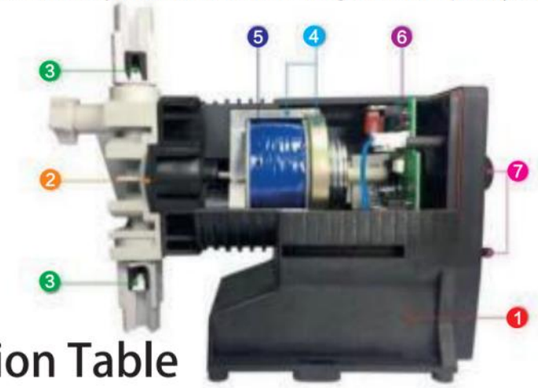
T Puls Electromagnetic metering pump

Main performance parameters

- Flow rate range：0.4-22L/h
- Pressure range：1.5-16Bar

Advantages and features

- The shell is made from PPO, known for its high strength, resistance to aging, and long service life
- The diaphragm is a five-layer composite made from PTFE, ensuring stable flow and pressure
- The check valve features a double ball structure with a wide base precision-engineered from PTFE for superior corrosion resistance
- The electromagnet is made from pure electrical iron, providing strong suction
- The coil is winded from high-temperature resistant enameled wire for extended service life
- The design includes dual adjustments for stroke length and frequency, offering diverse flow adjustment options



T Selection Table

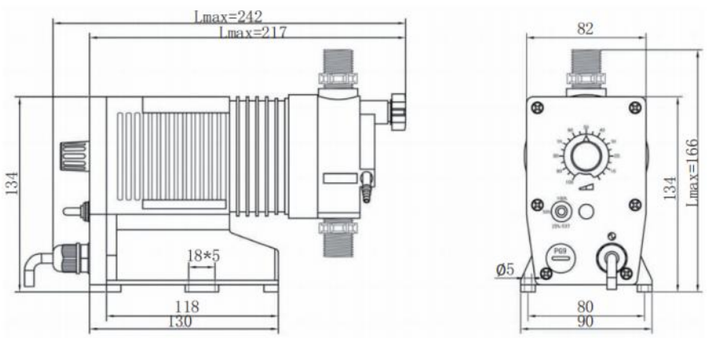
Model	Overflow material	Control type	Electrical connection	Accessories
T1600	A	A	1	1
T1600-2022	A=PP	A=Basic control	1=Standard plug	1=Bottom valve, injection valve, hose
	B=Other customization	B=100%+50%+remote start/stop	2=Other customization	2=Other customization
		C=100%+50%+pulse signal		
		D=100%+50%+analog signal 4-20mA		

Technical Parameters

Model	Maximum flow （L/h）	Maximum pressure （Bar）	Power （W）	Connection size
T1600	0.4	16	12	6*4mm
T1601	0.6	16	12	6*4mm
T1602	0.8	16	16	6*4mm
T1200	0.6	12	12	6*4mm
T1201	0.8	12	16	6*4mm
T1202	1.2	12	24	6*4mm
T0803	3	8	12	3/8*1/4*inch
T0804	4	8	16	3/8*1/4*inch
T0806	6	8	24	3/8*1/4*inch
T0306	5.5	3	12	3/8*1/4*inch
T0308	7.3	3	16	3/8*1/4*inch
T0311	11	3	24	3/8*1/4*inch
T0211	11	1.5	12	3/8*1/4*inch
T0215	14.5	1.5	16	3/8*1/4*inch
T0222	22	1.5	24	3/8*1/4*inch

Material table for overflow components

Name	Standard materials	Optional materials
Pump head	PP	/
Diaphragm	PTFE	/
Valve body	PP	/
Valve ball	Ceramics	PTFE
Valve base	PTFE	/
Valve spring	Hastelloy	/
Seals	FPM	EPDM

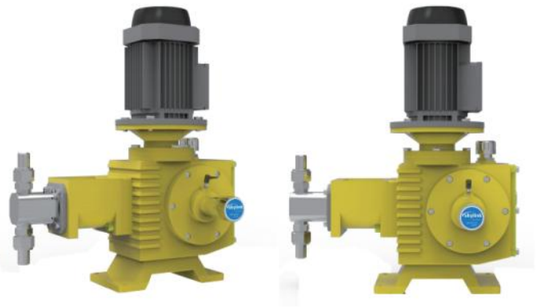


单位：mm

Plunger metering pump

Main performance parameters

- Greater flow：1200L/H
- Higher discharge pressure：50Mpa
- Adjustment ratio 10:1, stable accuracy ±1%
- Greater suction lift, up to 2.5m water column
- Medium temperature：-10℃~100℃
- Higher ambient temperature +40℃, altitude up to 1000m



Performance features

- Simple structure, easy maintenance, high cost performance
- The plunger directly acts on the compressed medium, ensuring high volumetric efficiency and minimal transmission loss at high pressure
- Variable eccentric mechanism adjustment ensures smooth flow fluctuation
- A new type of adjustment mechanism makes the adjustment more accurate and reasonable
- Suitable for conveying liquid media with high viscosity, high pressure, and high temperature
- Graphite fiber seal offers superior leak-proof performance and long service life
- The plunger metering pump adjusts the flow by changing the stroke length. It uses a frequency conversion motor and a frequency converter to control the flow by changing the motor frequency, achieving remote control
- It is recommended to install a safety valve on the outlet pipeline of the pump
- It is widely used in fields such as chemical, petrochemical, metallurgy, power, pharmaceutical, food, and plastic foaming

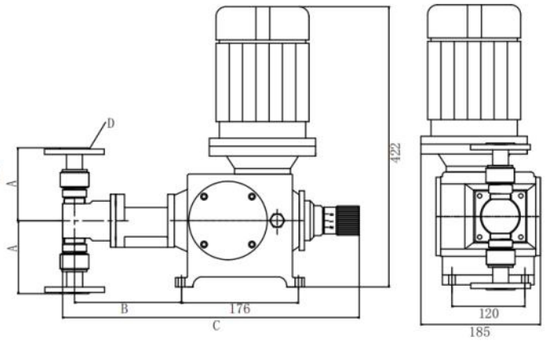
Selection table

Model	Total rated flow		Discharge pressure	Hydraulic end	Interface	Motor
Z-JW	120	/	15	S	P	1

Z-JW Plunger Pump

Features Benefits

- Flow rate range：1-200L/H
- Pressure range：0.6-50Mpa
- Standard configuration: 304 pump head, motor308V，50HZ
- Optional configuration: 316 pump head
  Motor420V，220V，110V
  Explosion-proof motor
  Frequency conversion motor



单位：mm

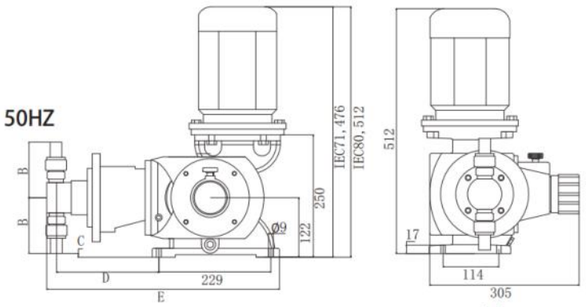
Technical Parameters

Model	Flow rate (L/h)	Pressure (Mpa)	Plunger diameter (mm)	Stroke (mm)	Pump speed (Min^{-1})	Motor power (kW)	Inlet and outlet caliber	Connection
Z-JW2.5/40	2.4	40	6	15	93	0.55	3	DN6
Z-JW3.2/32	32	32	6	20	93	0.55	6	DN6
Z-JW5.0/25	5.5	25	8	20	93	0.55	6	DN8
Z-JW6.3/20	6.5	20	8	15	144	0.55	6	DN8
Z-JW8.0/20	8.7	20	10	20	93	0.55	8	DN8
Z-JW10/20	10.1	20	10	15	144	0.55	8	DN10
Z-JW12.5/16	13.4	16	10	20	144	0.55	8	DN10
Z-JW15/12.5	15	12.5	12	15	144	0.55	8	DN10
Z-JW20/12.5	19.5	12.5	12	20	144	0.55	8	DN10
Z-JW26/10	26	10	14	20	144	0.55	8	DN10
Z-JW32/6.3	30.5	6.3	15	20	144	0.55	8	DN10
Z-JW40/4	40.5	4	20	15	144	0.55	8	DN10
Z-JW50/3.2	49	3.2	22	15	144	0.55	10	DN10
Z-JW63/2	6	2	22	20	144	0.55	10	DN10
Z-JW84/1.6	8	1.6	25	20	144	0.55	10	DN10
Z-JW100/1.2	105	1.2	28	20	144	0.55	15	DN15
Z-JW125/1	122	1	30	20	144	0.55	15	DN15
Z-JW160/0.8	166	0.8	35	20	144	0.55	15	DN15
Z-JW200/0.63	217	0.63	40	20	144	0.55	15	DN15

Z-JB Plunger Pump

Features Benefits

- Flow rate range：1-1000L/H
- Pressure range：0.3-36Mpa
- Standard configuration: 304 pump head, motor380V，50HZ
- Optional configuration: 316 pump head/PVC/PTFE
  Motor420V，220V，110V
  Explosion-proof motor
  Frequency conversion motor



单位：mm

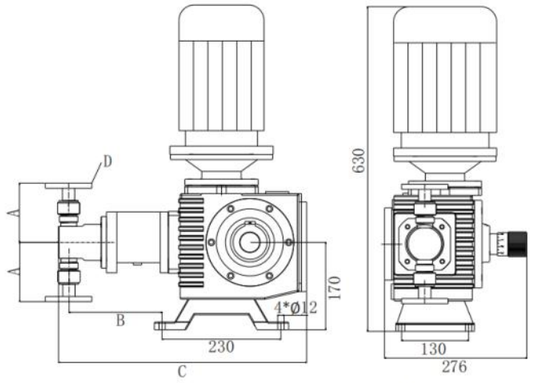
Technical Parameters

Model	Flow rate (L/h)	Pressure (Mpa)	Plunger diameter (mm)	Stroke (mm)	Pump speed (Min^{-1})	Motor power (kW)	Inlet and outlet caliber
Z-JB10/25/36	10	25.0/36.0	10	16	144	0.55/0.75	DN10
Z-JB15/17/25	14	17.0/25.0	12	16	144	0.55/0.75	DN10
Z-JB25/11/16	25	11.0/16.4	16	16	144	0.55/0.75	DN10
Z-JB32/7.8/11.3	31	7.8/11.3	18	16	144	0.55/0.75	DN15
Z-JB40/6.3/9.2 Z	39	6.3/9.2	20	16	144	0.55/0.75	DN15
-JB62/4/5.9	61	4.0/5.9	25	16	144	0.55/0.75	DN15
Z-JB90/2.8/4.1	88	2.8/4.1	30	16	144	0.55/0.75	DN15
Z-JB120/2/3	119	2.0/3.0	35	16	144	0.55/0.75	DN15
Z-JB160/1.6/2.3	156	1.6/2.3	40	16	144	0.55/0.75	DN15
Z-JB200/1.2/1.8	197	1.2/1.8	45	16	144	0.55/0.75	DN15
Z-JB250/1/1.5	244	1.0/1.5	50	16	144	0.55/0.75	DN15
Z-JB300/0.8/1.2	295	0.8/1.2	55	16	144	0.55/0.75	DN15
Z-JB350/0.7/1	351	0.7/1.0	60	16	144	0.55/0.75	DN15
Z-JB420/0.6/0.9	412	0.6/0.9	65	16	144	0.55/0.75	DN15
Z-JB500/0.5/0.8	500	0.5/0.8	70	16	144	0.55/0.75	DN25
Z-JB580/0.4/0.6	580	0.4/0.6	75	16	144	0.55/0.75	DN25
Z-JB660/0.5	659	0.5	80	16	144	0.75	DN25
Z-JB750/0.4	744	0.4	85	16	144	0.75	DN40
Z-JB850/0.35	835	0.35	90	16	144	0.75	DN40
Z-JB1000/0.35	1040	0.35	90	16	180	0.75	DN40

Z-JX Plunger Pump

Features Benefits

- Flow rate range：1-1500L/H
- Pressure range：0.5-50Mpa
- Standard configuration: 304 pump head, motor380V，50HZ
- Optional configuration: 316 pump head/PVC/PTFE
  Motor420V，220V，110V
  Explosion-proof motor
  Frequency conversion motor



单位：mm

Technical Parameters

Model	Flow rate (L/h)	Pressure (Mpa)	Plunger diameter (mm)	Stroke (mm)	Pump speed (Min^{-1})	Motor power (kW)	Inlet and outlet caliber	Connection
Z-JX8/50	7	50	8	20	135	0.75	10	DN10
Z-JX10/50	9	50	8	25	135	0.75	10	DN10
Z-JX12/50	11.5	50	10	20	135	0.75	10	DN10
Z-JX14/40	14	40	10	25	135	0.75	10	DN10
Z-JX16/40	16	40	12	20	135	0.75	10	DN10
Z-JX20/32	20	32	12	25	135	0.75	10	DN10
Z-JX30/25	28	25	16	20	135	0.75	10	DN10
Z-JX40/20	36	20	16	25	135	0.75	10	DN10
Z-JX50/16	50	16	20	20	135	1.1	15	DN15
Z-JX63/12.5	63	12.5	20	25	135	1.1	15	DN15
ZJX80/10	72	10	25	20	135	1.1	15	DN15
Z-JX100/8.5	90	8.5	25	25	135	1.1	15	DN15
ZJX125/6.3	124	6.3	28	25	135	1.1	15	DN15
Z-JX160/4.5	156	4.5	35	20	135	1.5	15	DN15
Z-JX200/3.5	195	3.5	35	25	135	1.5	15	DN15
Z-JX250/3	254	3	40	25	135	1.5	20	DN15
Z-JX320/2.4	321	2.4	45	25	135	1.5	20	DN20
Z-JX400/2.1	397	2.1	50	25	135	1.5	20	DN20
Z-JX450/1.8	456	1.8	55	25	135	1.5	20	DN20
Z-JX550/1.6	543	1.6	60	25	135	1.5	20	DN25
Z-JX650/1.4	638	1.4	65	25	135	1.5	25	DN25
ZJ-X750/1.2	739	1.2	70	25	135	1.5	25	DN25
Z-JX850/1.1	849	1.1	75	25	135	1.5	25	DN25
Z-JX950/0.9	960	0.9	80	25	135	1.5	40	DN40
Z-JX1100/0.7	1091	0.7	85	25	135	1.5	40	DN40
Z-JX1200/0.5	1220	0.5	90	25	135	1.5	40	DN40
Z-JX1400/0.5	1362	0.5	95	25	135	1.5	40	DN40
Z-JX1500/0.5	1510	0.5	100	25	135	1.5	40	DN40

Z-JZ Plunger Pump

Features Benefits

- Flow rate range：12.5-1600L/H
- Pressure range：0.6-50Mpa
- Standard configuration：304 pump head, motor380V，50HZ
- Optional configuration: 316 pump head/PVC/PTFE
  Motor420V，220V，110V
  Explosion-proof motor
  Frequency conversion motor

Technical Parameters

Model	Flow rate (L/h)	Pressure (Mpa)	Plunger diameter (mm)	Stroke (mm)	Pump speed (Min^{-1})	Motor power (kW)	Inlet and outlet caliber	Connection
Z-JZ12.5/50	12.5	50	8	32	130	1.1	10	DN10
Z-JZ15/50	14.5	50	10	35	88	1.1	10	DN10
Z-JZ19/50	19.5	50	10	32	130	1.1	10	DN10
Z-JZ28/40	28	40	12	32	130	1.1	10	DN10
Z-JZ32/32	33	32	13	32	130	1.5	10	DN10
Z-JZ40/25	42	25	14	35	130	1.5	15	DN15
Z-JZ50/20	50	20	16	32	130	1.5	15	DN15
Z-JZ63/16	63	16	18	32	130	1.5	15	DN15
Z-JZ80/12.5	78	12.5	20	32	130	1.5	15	DN15
Z-JZ100/10	103	10	22	35	130	1.5	15	DN15
Z-JZ125/8.5	122	8.5	25	32	130	1.5	15	DN15
Z-JZ160/8	165	8	28	35	130	1.5	15	DN15
Z-JZ200/4	192	4	30	35	130	1.5	15	DN15
Z-JZ240/4	240	4	35	32	130	1.5	15	DN15
Z-JZ320/3.8	313	3.8	40	32	130	1.5	25	DN25
Z-JZ400/3	396	3	45	32	130	1.5	25	DN25
Z-JZ500/2.5	490	2.5	50	32	130	1.5	25	DN25
Z-JZ630/2	648	2	44	35	130	1.5	25	DN25
Z-JZ800/1.6	771	1.6	60	35	130	1.5	25	DN25
Z-JZ1000/1.8	1050	1.8	70	35	130	2.2	25	DN25
Z-JZ1250/1.6	1253	1.6	80	32	130	2.2	32	DN32
Z-JZ1600/1.2	1587	1.2	90	32	130	2.2	32	DN32

Hydraulic Diaphragm Pump

Main performance parameters

- Flow rate range：1-1600L/H
- Discharge range：0.6-50MPa
- Adjustment ratio: 10:1, steady-state accuracy: ±1%

Features

- No dynamic seal, no leakage, easy maintenance
- Working pressure up to 30MPa, measuring accuracy up to 1%
- The metering accuracy surpasses that of a mechanical diaphragm pump, and the sealing performance is superior to that of a plunger pump
- Flow control is achieved by adjusting the stroke length and using a frequency converter for speed control, enabling remote automatic control
- The mediums usage temperature should not exceed 100℃ or fall below -20℃, as it could affect the service life of the diaphragm
- The pump features a hydraulically driven diaphragm, which can last for more than 8,000 hours
- When handling special media, a double diaphragm with a rupture alarm device can be utilized
- The pump can be equipped with a digital controller to achieve digitization and facilitate both local and remote control.

Scope of Application

- General room temperature clear water
- Strongly corrosive, volatile, flammable, explosive, highly toxic, foul-smelling, heavy, medium viscosity, radioactive mediums, or other precious liquids
- Suspended liquid
- ★ When conveying flammable, explosive, highly toxic media, and precious liquid, a double diaphragm metering pump with a diaphragm rupture alarm device

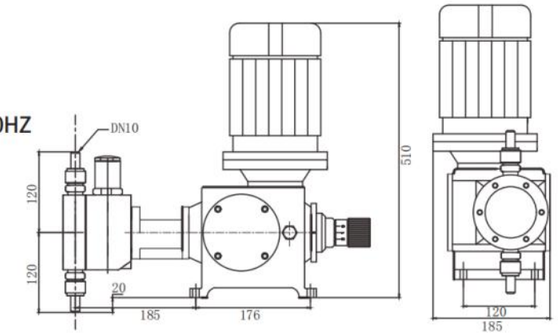
Selection table

Model	rated flow		Discharge pressure	Hydraulic end	Interface	Motor
X-JWM	120	/	15	S	P	1

X-JWM Hydraulic diaphragm pump

Features Benefits

- Flow rate range：1-200L/H
- Pressure range：0.6-50Mpa
- Standard configuration: 304 pump head, motor380V，50HZ
- Optional configuration：316 pump head/PVC/PVDF
  Motor420V，220V，110V
  Explosion-proof motor
  Frequency conversion motor



单位：mm

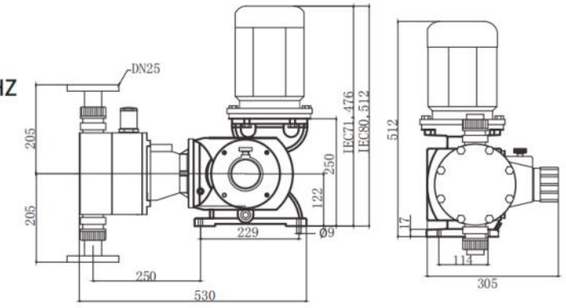
Technical Parameters

Model	Flow rate (L/h)	Pressure (Mpa)	Plunger diameter (mm)	Stroke (mm)	Pump speed (Min^{-1})	Motor power (kW)	Inlet and outlet caliber	Connection
X-JWM5/25	5	25	8	20	93	0.55	6	DN8
X-JWM8/20	8	20	10	20	93	0.55	8	DN8
X-JWM10/20	10	20	10	15	144	0.55	8	DN10
X-JWM12/16	12	16	10	20	144	0.55	8	DN10
X-JWM15/12.5	15	12.5	12	15	144	0.55	8	DN10
X-JWM20/12.5	19	12.5	12	20	144	0.55	8	DN10
X-JWM26/10	26	10	14	20	144	0.55	8	DN10
X-JWM32/6.3	30	6.3	15	20	144	0.55	8	DN10
X-JWM40/4	40	4	20	15	144	0.55	8	DN10
X-JWM50/3.2	49	3.2	22	15	144	0.55	10	DN10
X-JWM63/2	65	2	22	20	144	0.55	10	DN10
X-JWM84/1.6	84	1.6	25	20	144	0.55	10	DN10
X-JWM100/1.2	105	1.2	28	20	144	0.55	15	DN15
X-JWM125/1	122	1	30	20	144	0.55	15	DN15
X-JWM160/0.8	166	0.8	35	20	144	0.55	15	DN15
X-JWM200/0.63	217	0.63	40	20	144	0.55	15	DN15

X-JBM Hydraulic diaphragm pump

Features Benefits

- Flow rate range：1-1000L/H
- Pressure range：0.3-36Mpa
- Standard configuration: 304 pump head, motor380V，50HZ
- Optional configuration：316 pump head/PVC/PTFE
  Motor420V，220V，110V
  Explosion-proof motor
  Frequency conversion motor



单位：mm

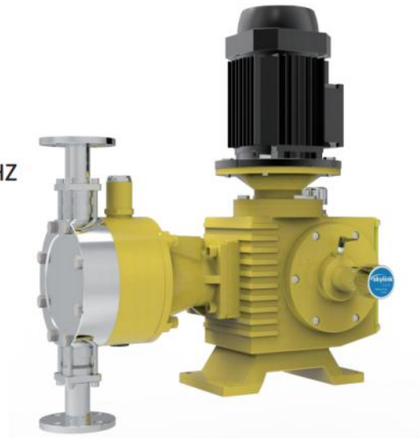
Technical Parameters

Model	Flow rate (L/h)	Pressure (Mpa)	Plunger diameter (mm)	Stroke (mm)	Pump speed (Min^{-1})	Motor power (kW)	Inlet and outlet caliber
X-JBM15/17/25	14	17.0/25.0	12	16	144	0.55/0.75	DN10
X-JBM25/11/16	25	11.0/16.4	16	16	144	0.55/0.75	DN10
X-JBM32/7.8/11.3	31	7.8/11.3	18	16	144	0.55/0.75	DN15
X-JBM40/6.3/9.2	39	6.3/9.2	20	16	144	0.55/0.75	DN15
X-JBM62/4/5.9	61	4.0/5.9	25	16	144	0.55/0.75	DN15
X-JBM90/2.8/4.1	88	2.8/4.1	30	16	144	0.55/0.75	DN15
X-JBM120/2/3	119	2.0/3.0	35	16	144	0.55/0.75	DN15
X-JBM160/1.6/2.3	156	1.6/2.3	40	16	144	0.55/0.75	DN15
X-JBM200/1.2/1.8	197	1.2/1.8	45	16	144	0.55/0.75	DN15
X-JBM250/1/1.5	244	1.0/1.5	50	16	144	0.55/0.75	DN15
X-JBM300/0.8/1.2	295	0.8/1.2	55	16	144	0.55/0.75	DN15
X-JBM350/0.7/1	351	0.7/1.0	60	16	144	0.55/0.75	DN15
X-JBM420/0.6/0.9	412	0.6/0.9	65	16	144	0.55/0.75	DN15
X-JBM500/0.5/0.8	500	0.5/0.8	70	16	144	0.55/0.75	DN25
X-JBM580/0.4/0.6	580	0.4/0.6	75	16	144	0.55/0.75	DN25
X-JBM660/0.5	659	0.5	80	16	144	0.75	DN25
X-JBM750/0.4	744	0.4	85	16	144	0.75	DN40
X-JBM850/0.35	835	0.35	90	16	144	0.75	DN40
X-JBM1000/0.35	1040	0.35	90	16	180	0.75	DN40

X-JXM Hydraulic diaphragm pump

Features Benefits

- Flow rate range：1-1500L/H
- Pressure range：0.5-25Mpa
- Standard configuration: 304 pump head, motor380V，50HZ
- Optional configuration：316 pump head/PVC/PTFE
  Motor420V，220V，110V
  Explosion-proof motor
  Frequency conversion motor



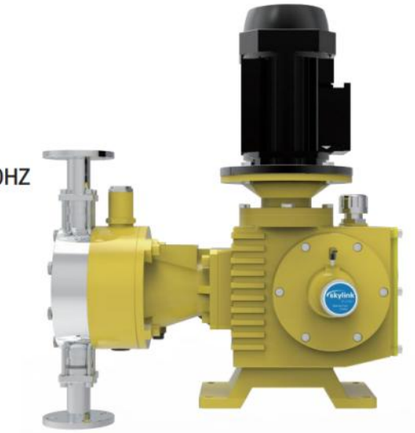
Technical Parameters

Model	Flow rate (L/h)	Pressure (Mpa)	Plunger diameter (mm)	Stroke (mm)	Pump speed (Min^{-1})	Motor power (kW)	Inlet and outlet caliber	Connection
X-JXM30/25	28	20	16	20	135	0.75	10	DN10
X-JXM40/20	36	25	16	25	135	0.75	10	DN10
X-JXM50/16	50	16	20	20	135	1.1	15	DN15
X-JXM63/12.5	63	12.5	20	25	135	1.1	15	DN15
X-JXM80/10	72	10	25	20	135	1.1	15	DN15
X-JXM100/8.5	90	8.5	25	25	135	1.1	15	DN15
X-JXM125/6.3	124	6.3	28	20	135	1.1	15	DN15
X-JXM160/4.5	156	4.5	35	25	135	1.5	15	DN15
X-JXM200/3.5	195	3.5	35	25	135	1.5	15	DN15
X-JXM250/3	254	3	40	25	135	1.5	20	DN15
X-JXM320/2.4	321	2.4	45	25	135	1.5	20	DN20
X-JXM400/2.1	397	2.1	50	25	135	1.5	20	DN20
X-JXM450/1.8	456	1.8	55	25	135	1.5	20	DN20
X-JXM550/1.6	543	1.6	60	25	135	1.5	20	DN25
X-JXM650/1.4	638	1.4	65	25	135	1.5	25	DN25
X-JXM750/1.2	739	1.2	70	25	135	1.5	25	DN25
X-JXM850/1.1	849	1.1	75	25	135	1.5	25	DN25
X-JXM950/0.9	960	0.9	80	25	135	1.5	40	DN40
X-JXM1100/0.7	1091	0.7	85	25	135	1.5	40	DN40
X-JXM1200/0.5	1220	0.5	90	25	135	1.5	40	DN40
X-JXM1400/0.5	1362	0.5	95	25	135	1.5	40	DN40
X-JXM1500/0.5	1510	0.5	100	25	135	1.5	40	DN40

X-JZM Hydraulic diaphragm pump

Features Benefits

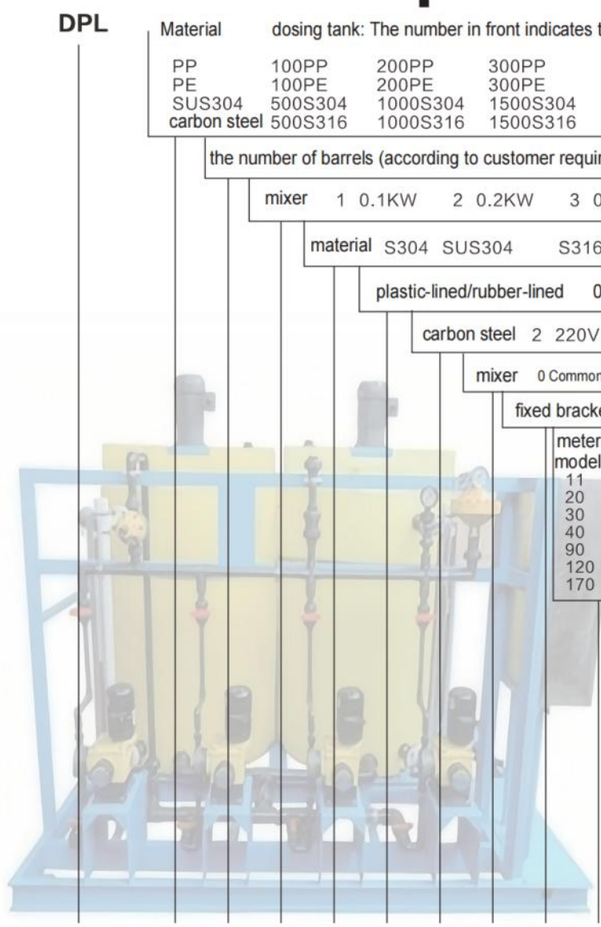
- Flow rate range：1-1600L/H
- Pressure range：0.5-32Mpa
- Standard configuration: 304 pump head, motor380V，50HZ
- Optional configuration：316 pump head/PVC/PTFE
  Motor420V，220V，110V
  Explosion-proof motor
  Frequency conversion motor



Technical Parameters

Model	Flow rate (L/h)	Pressure (Mpa)	Plunger diameter (mm)	Stroke (mm)	Pump speed (Min^{-1})	Motor power (kW)	Inlet and outlet caliber	Connection
X-JZM32/32	33	32	13	32	130	1.5	10	DN10
X-JZM40/25	42	25	14	35	130	1.5	15	DN15
X-JZM50/20	50	20	16	32	130	1.5	15	DN15
X-JZM63/16	63	16	18	32	130	1.5	15	DN15
X-JZM80/12.5	78	12.5	20	32	130	1.5	15	DN15
X-JZM100/10	103	10	22	35	130	1.5	15	DN15
X-JZM125/8.5	122	8.5	25	32	130	1.5	15	DN15
X-JZM160/8	165	8	28	35	130	1.5	15	DN15
X-JZM200/4	192	4	30	35	130	1.5	15	DN15
X-JZM240/4	240	4	35	32	130	1.5	15	DN15
X-JZM320/3.8	313	3.8	40	32	130	1.5	25	DN25
X-JZM400/3	396	3	45	32	130	1.5	25	DN25
X-JZM500/2.5	490	2.5	50	32	130	1.5	25	DN25
X-JZM630/2	648	2	55	35	130	1.5	25	DN25
X-JZM800/1.6	771	1.6	60	35	130	1.5	25	DN25
X-JZM1000/1.8	1050	1.8	70	35	130	2.2	25	DN25
X-JZM1250/1.6	1253	1.6	80	32	130	2.2	32	DN32
X-JZM1600/1.2	1587	1.2	90	32	130	2.2	32	DN32

DPL Simple Dosing System



DPL

Material — dosing tank: The number in front indicates the volume (L), followed by the material

PP	100PP	200PP	300PP	500PP	1000PP	1500PP
PE	100PE	200PE	300PE	500PE	1000PE	1500PE
SUS304	500S304	1000S304	1500S304	2000S304	3000S304	5000S304
carbon steel	500S316	1000S316	1500S316	2000S316	3000S316	5000S316

the number of barrels (according to customer requirements) 1 2 3 4 5 6

mixer 1 0.1KW 2 0.2KW 3 0.4KW 4 0.75KW

material S304 SUS304 S316 SUS316 CS carbon steel

plastic-lined/rubber-lined 0 no 1 plastic-lined 2 rubber-lined

carbon steel 2 220V 3 380V

mixer 0 Common 1 explosion-proof 2 frequency conversion 3 explosion-proof frequency conversion

fixed bracket 0 no 1yes

metering pump

model	flow	pressure	power
11	11L/H	3bar	40W
20	20L/H	10bar	40W
30	30L/H	10bar	40W
40	40L/H	10bar	40W
90	90L/H	10bar	370W
120	120L/H	7bar	370W
170	170L/H	7bar	370W

pump head

P PVC T PTFE V PVDF S stainless steel

control method

0 manual control 1 automatic control

control variable

0 no analog control 1 analog control

collection tank

0 no 1 yes

bracket (skid-mounted)

0 no 1 yes

DPL 100PP 1 1 S304 0 2 0 0 11 P L 0 0 0

Scope of Application

- Food additive dosing device
- Phosphate dosing device
- Circulating water dosing device
- Water condensation ammonia addition device
- Acid and alkali dosing device
- Papermaking and dyeing additive dosing device
- Swimming pool dosing device
- Electroplating additive dosing device
- Up and down structure dosing device
- The dosing device mainly includes: Drug solution dissolu-

Performance parameters

Volume (L)	Pump barrel configuration	Material	Control method	Ordering information
40-20600	1 barrel 1 pump	PE	Manual control	Order system Number of barrels and pumps
	1 barrel 2 pumps	PVC	Automatic control	Metering pump type
	2 barrels 1 pump	304	PH/PLC control	Metering pump flow pressure
	2 barrels 2 pumps	Carbon steel lined with rubber	Special requirements (explosion-proof frequency conversion)	Manual or automatic
	2 barrels 3 pumps		Power supply 380V1220V	Any special requirements

Accessories

Diaphragm damper

- Pulse damper: Capable of reducing 95% of the pulsation generated by the metering pump. It is typically installed on the outlet pipeline and close to the metering pump
- Common material: Teflon-lined
- Common caliber:DN10 DN15 DN25 DN32 DN40

Safety valve

- When the system or pipeline pressure is too high, it can promptly release pressure to protect the pump, and recover the liquid. It also serves as a pressure relief valve
- Common material：PVC、304、316、PTFE
- Common caliber:DN10 DN15 DN25 DN32 DN40

Back pressure valve

- In the state of reduced or unstable equipment container pressure, it maintains the required pressure of the pipeline, enabling the pump to output normally.
- Common material：PVC、304、316、PTFE
- Common caliber:DN10 DN15 DN25 DN32 DN40

Y-type filter

- It filters impurities in the medium, protecting the metering pump. It is generally installed on the inlet pipeline and close to the metering pump
- Common material:PVC、304、316、Teflon-lined
- Common caliber:DN10 DN15 DN25 DN32 DN40

Flow calibration column

When using the flow calibration column

- Inject medium into the calibration column, and the liquid level of the medium aligns with the maximum scale of the column
- Close other inlet valves and open the valve between the calibration column and the pump, allowing the pump to draw medium only from the calibration column
- Start the pump and time it, carefully observing the reduction in liquid volume within the calibration column over a specified period
- Compare this with the theoretical volume to analyze the pump’ s metering accuracy during operation
- Adjust the pump’ s precision based on the results