

**HIGHTPUMP™**  
A  **HANKUN Brand**



*Hankun Quality Driving The Future*

# METERING PUMP

# SUMMARY



HIGHPUMP metering pump, a brand of Hankun, delivers a variety of corrosive liquid, liquid with particles, high viscosity, volatile, flammable and highly toxic liquid to provide customers with quality solutions.

HIGHPUMP is committed to provide professional fluid control solutions for process industries, such as water treatment, environmental protection, power, petroleum, chemical, pharmaceutical, food and other process industries. According to actual working conditions, we provide the end-users with safe, environmentally-friendly and economical solutions. We supply equipment in strict accordance with the contract requirements and provide the installation and commissioning guidance for clients.

Hankun was founded in 2007 and produces fluid control equipments such as pumps, valves, and actuators. With IoT communication, we provide integrated dosing skids, complete sets of equipment, on-site system maintenance services, and other extended services.

Our clients are distributed in thermal power, nuclear power, petrochemical, lithium battery, coal chemical industry, water treatment and other related industries. The products are renowned in the market for the excellent quality and service.

With rich experience in fluid control industrial products, Hankun has an excellent sales team and a group of professional technicians. Technology and reputation are the driving force of the company's development. The purpose and value of our work is to make end-use relieved and satisfied.



# SERIES



There are three series of metering pumps, including mechanical-HJ, plunger-HZ and hydraulic-HY.



Mechanical -HJ



Plunger -HZ

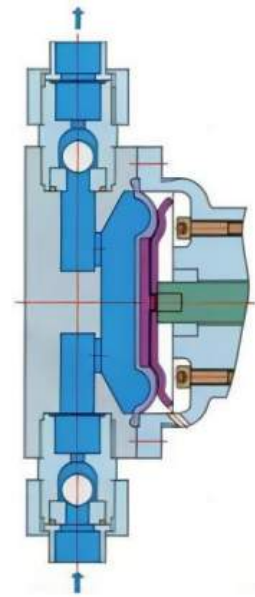


Hydraulic -HY



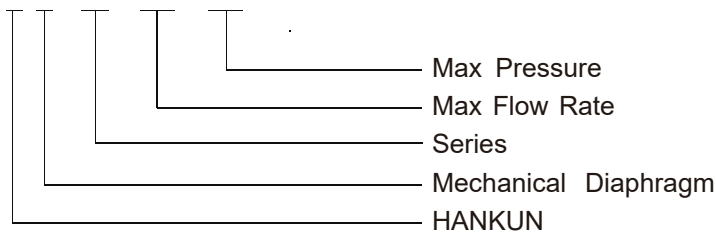
## MECHANICAL DIAPHRAGM METERING PUMP

Mechanical diaphragm metering pumps use flexible diaphragms to replace pistons to achieve reciprocating motion under the action of a drive mechanism, and complete the suction and discharge of media by changing the volume of the pump chamber. This series is suitable for fluid metering in low pressure situations, where the flow rate rarely changes when the pressure fluctuates, with high metering accuracy. The mechanical diaphragm metering pump completely isolates the flowing liquid from the drive lubrication mechanism through a membrane. This product uses the latest PTFE and rubber composite membrane, which enhances corrosion resistance, greatly improves the service life of the membrane, and reduces maintenance and replacement costs. This product is designed to meet the different needs of various working conditions on site. The flow rate can be steplessly adjusted within the range of 0-100%, and it can quantitatively transport liquids without solid particles.



### Model Example

HJ-Z-25/1.2



## MECHANICAL DIAPHRAGM METERING PUMP

Thermal power, nuclear power, petrochemical, lithium battery, coal chemical industry, water treatment and so on...



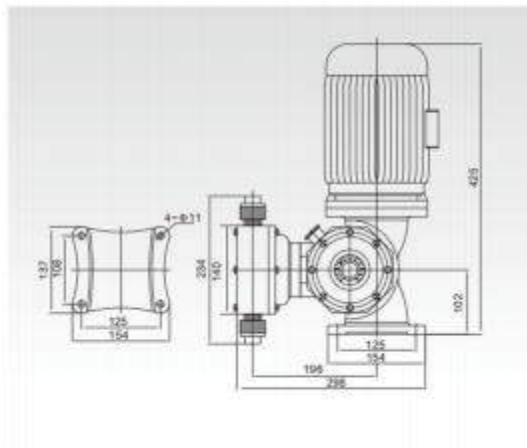
Accessories and motors	Model	HJ-Z	HJ-D
Standard		Pump head: PVC Motor: 380V 50Hz	Pump head: PVC Motor: 380V 50Hz
Optional		Pump head: 304、316、PTFE Motor: 420V、220V、110V Explosion-proof motor, frequency conversion motor	Pump head: 304、316、PTFE Motor: 420V、220V、110V Explosion-proof motor, frequency conversion motor

## MECHANICAL DIAPHRAGM METERING PUMP

### HJ-Z Mechanical Diaphragm Metering pump

In order to ensure that users can use metering pumps in line with site conditions, the following parameters should be provided by users when selecting and purchasing the equipment.

- |                         |                                   |                                     |
|-------------------------|-----------------------------------|-------------------------------------|
| 1.Liquid                | 4.Medium temperature (°C)         | 7.Solid content                     |
| 2.Flow rate (L/H)       | 5.Transport medium viscosity (CP) | 8Automatic (manual) control         |
| 3.System pressure (Mpa) | 6.Specific gravity                | 9.External control signal type mode |



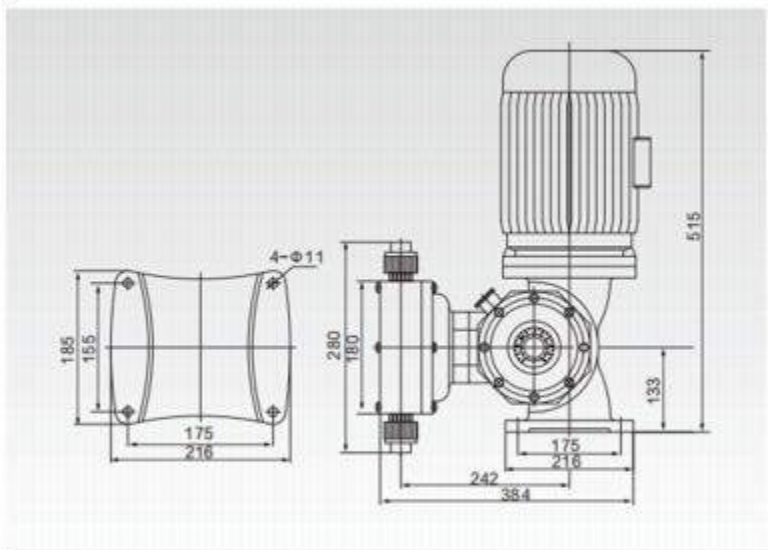
### Performance Parameters

Model	Max Flow Rate (L/H)	Max Pressure (Mpa)	Stroke Speed (/min)	Power(KW)	Connections (mm)	Weight (KG)
HJ-Z 25/1.2	25	1.2	48	0.37	PVC: 9*13 hose DN15 adhesive Stainless Steel: DN15 welded PTFE: DN15 female thread	22
HJ-Z 50/1.2	50	1.2	48			
HJ-Z 80/0.7	80	0.7	96			
HJ-Z 120/0.7	120	0.7	96			
HJ-Z 170/0.7	170	0.7	96			
HJ-Z 240/0.7	240	0.7	96			
HJ-Z 320/0.5	320	0.5	144	0.55	PVC: DN25 adhesive Stainless Steel: DN25 welded PTFE: DN25 female thread	28
HJ-Z 420/0.5	420	0.5	144			
HJ-Z 500/0.5	500	0.5	144			

## MECHANICAL DIAPHRAGM METERING PUMP

### HJ-D Mechanical Diaphragm Metering Pump

The mechanical diaphragm metering pump has a compact design. The main components are precision casting and CNC machining. The flow can be adjusted through the flow control knob. The operation is simple, and the equipment installation and maintenance are also very convenient.



### Performance Parameters

Model	Max Flow rate (L/H)	Max Pressure (Mpa)	Stroke Speed (/min)	Power(KW)	Connections (mm)	Weight (KG)		
HJ-D 380/1.0	380	1.0	48	0.75	PVC: DN25 adhesive Stainless Steel: DN25 welded PTFE: DN25 female thread	40		
HJ-D 500/0.8	500	0.8	96					
HJ-D 650/0.6	650	0.6	96	1.1				
HJ-D 850/0.5	850	0.5	144					
HJ-D 1000/0.4	1000	0.4	144					
HJ-D 1400/0.3	1400	0.3	144	1.5			PVC: DN40 adhesive Stainless Steel: DN40 welded PTFE: DN40 female thread	50
HJ-D 1800/0.3	1800	0.3	144					

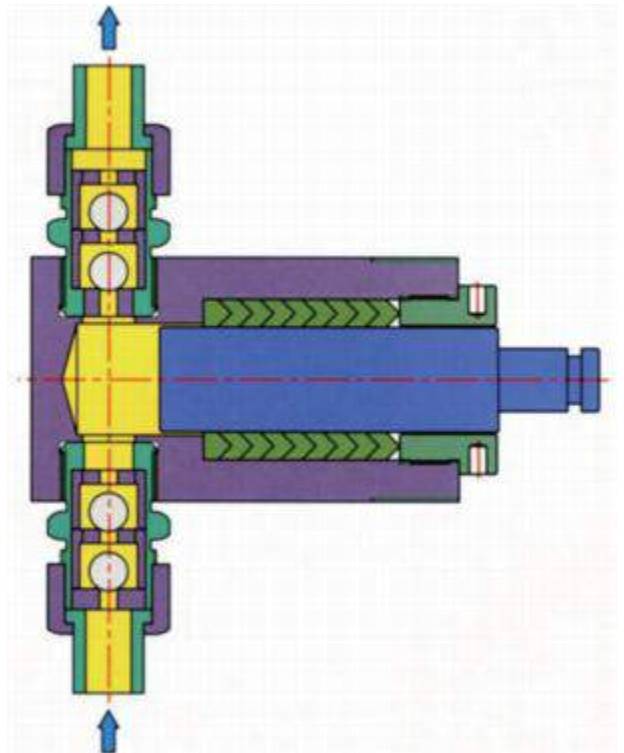
## PLUNGER METERING PUMP



The plunger metering pump uses the reciprocating motion of the plunger to directly inhale or discharge the medium from the pump cylinder. This series of metering pump has the advantages of a simple structure, affordable price and high measuring accuracy. Because the plunger and seal are directly in contact with the medium, the appropriate plunger material and seal form can effectively ensure the better operation of the equipment.

### Model Example

HZ-X-2/50



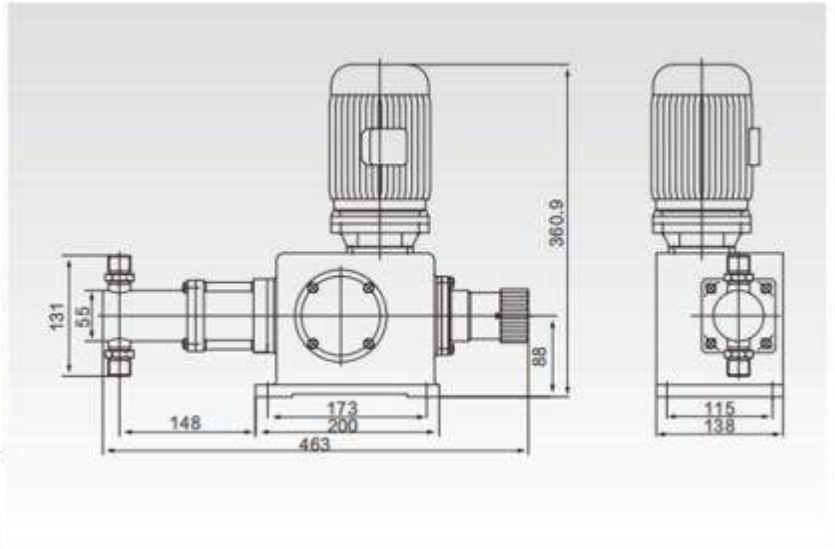
## PLUNGER METERING PUMP

Thermal power, nuclear power, petrochemical, lithium battery, coal chemical industry, water treatment and so on...

Accessories and motors	Model	HZ-X	HZ-Z	HZ-ZR
Standard		Pump head: 304 Motor: 380V 50Hz	Pump head: 304 Motor: 380V 50Hz	Pump head: 304 Motor: 380V 50Hz
Optional		Pump head 316 Explosion-proof motor, frequency conversion motor, Motor 420V, 220V, 110V	Pump head 316L, PTFE Explosion-proof motor, frequency conversion motor, Motor 420V, 220V, 110V	Pump head 316, 316L Explosion-proof motor, frequency conversion motor, Motor 420V, 220V, 110V

## PLUNGER METERING PUMP

### ● HZ-X Plunger Metering Pump



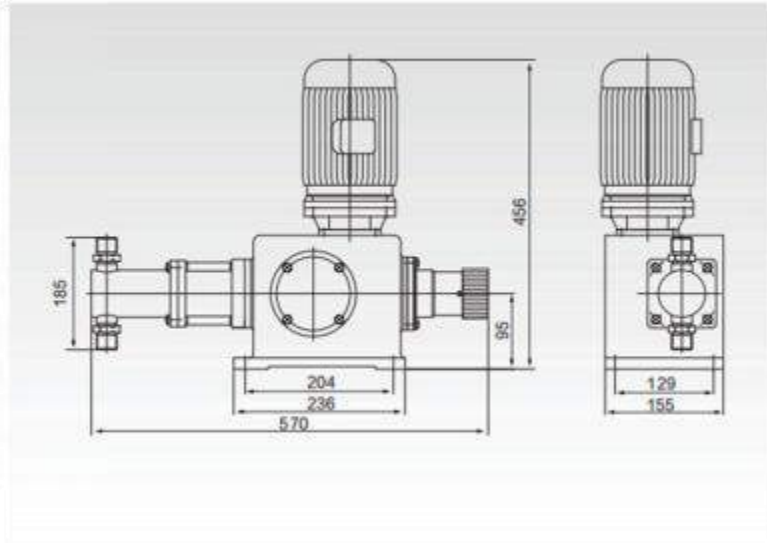
### ● Performance Parameters

Model	Max Flow Rate (L/H)	Power		Plunger Diameter (mm)	Stroke Length (mm)	Stroke Rate (/min)	Connections (mm)	Weight (KG)
		0.55kw	0.37kw					
		Max Pressure(Mpa)						
HZ-X 2/50(38)	2	50	38	6	25	96/144	6 welding	40
HZ-X 3/32(21)	3	32	21	8				
HZ-X 5/20(13)	5	20	13	10				
HZ-X 8/14(9)	8	14	9.0	12				
HZ-X 15/7.6(5.4)	15	7.6	5.4	16				
HZ-X 25/5.0(3.5)	25	5.0	3.5	20				
HZ-X 38/5.0(3.2)	38	5.0	3.2	20			10 welding	45
HZ-X 55/3.2(2.2)	55	3.2	2.2	25				
HZ-X 75/2.5(1.7)	75	2.5	1.7	28				
HZ-X 100/2.0(1.3)	100	2.0	1.3	32			15 welding	45
HZ-X 130/1.6(1.1)	130	1.6	1.1	35				
HZ-X 155/1.3(0.9)	155	1.3	0.9	38				
HZ-X 190/1.0(0.7)	190	1.0	0.7	42				
HZ-X 220/0.7(0.5)	220	0.7	0.5	45				



## PLUNGER METERING PUMP

### ● HZ-Z Plunger Metering Pump

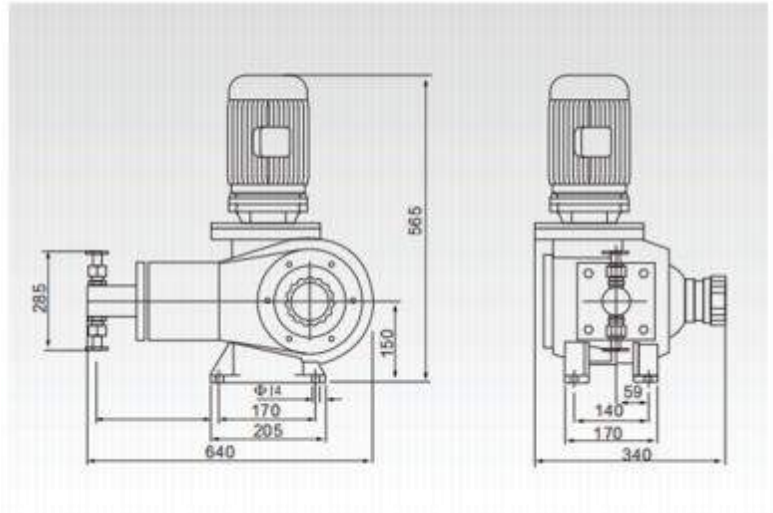


### ● Performance Parameters

Model	Max Flow Rate (L/H)	Power		Plunger Diameter (mm)	Stroke Length (mm)	Stroke Rate (/min)	Connections (mm)	Weight (KG)
		0.75kw	0.55kw					
		Max Pressure(Mpa)						
HZ-Z 6/40(32)	6	40	32	8	25	96	6 welding	42
HZ-Z 10/25(20)	10	25	20	10				
HZ-Z 15/20(15)	15	20	15	12				
HZ-Z 25/10(8.0)	25	10	8.0	16				
HZ-Z 40/6.3(5.4)	40	6.3	5.4	20				
HZ-Z 65/4.5(3.5)	65	4.5	3.5	25				
HZ-Z 80/3.6(2.8)	80	3.6	2.8	28				
HZ-Z 110/2.8(2.0)	110	2.8	2.0	32				
HZ-Z 130/2.3(1.7)	130	2.3	1.7	35				
HZ-Z 160/2.0(1.5)	160	2.0	1.5	38				
HZ-Z 190/1.6(1.2)	190	1.6	1.2	42				
HZ-Z 210/1.4(1.0)	210	1.4	1.0	45				
HZ-Z 270/1.1(0.8)	270	1.1	0.8	50				
HZ-Z 330/0.9(0.6)	330	0.9	0.6	55				
HZ-Z 400/0.8(0.5)	400	0.8	0.5	60	15 welding	50		
HZ-Z 470/0.6(0.4)	470	0.6	0.4	65		50		
							20 welding	55

## PLUNGER METERING PUMP

### ● HZ-ZR Plunger Metering Pump



### ● Performance Parameters

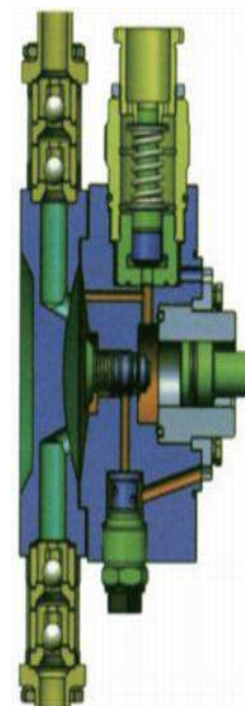
Model	Max Flow Rate (L/H)	Power		Plunger Diameter (mm)	Stroke Length (mm)	Stroke Rate (/min)	Connections (mm)	Weight (KG)
		1.5kw	1.1kw					
		Max Pressure(Mpa)						
HZ-ZR 6.5/50(40)	6.5	50	40	8	30	87/132	6 welding	80
HZ-ZR 16/40(30)	16	40	30	12				
HZ-ZR 32/22(16)	32	22	16	16				
HZ-ZR 50/14(10)	50	14	10	20				
HZ-ZR 80/9.0(6.3)	80	9.0	6.3	25				
HZ-ZR 100/7.5(5.0)	100	7.5	5.0	28				
HZ-ZR 130/5.6(4.0)	130	5.6	4.0	32				
HZ-ZR 160/4.8(3.5)	160	4.8	3.5	35				
HZ-ZR 190/4.0(2.8)	190	4.0	2.8	38				
HZ-ZR 225/3.2(2.4)	225	3.2	2.4	42				
HZ-ZR 265/2.8(2.0)	265	2.8	2.0	45				
HZ-ZR 330/2.3(1.6)	330	2.3	1.6	50				
HZ-ZR 400/1.8(1.4)	400	1.8	1.4	55				
HZ-ZR 480/1.6(1.2)	480	1.6	1.2	60				
HZ-ZR 550/1.3(1.0)	550	1.3	1.0	65	20 flange	95		
HZ-ZR 650/1.2(0.8)	650	1.2	0.8	70				
HZ-ZR 750/1.0(0.6)	750	1.0	0.6	75				
HZ-ZR 1000/0.5	1000	0.8	0.5	80	32		25 flange	98

## HYDRAULIC DIAPHRAGM METERING PUMP

Hydraulic diaphragm metering pump is designed by the characteristics of plunger metering pump and diaphragm metering pump, with the following merits:

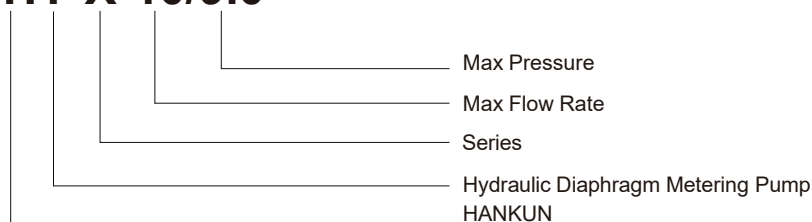
1. Advanced hydraulic system design, safe and no leakage.
2. Optional double diaphragm, diaphragm pressure gauge, diaphragm rupture alarm device.
3. The working pressure can be up to 30MPa, the measuring accuracy is  $\pm 1\%$ .
4. The flowrate can be adjusted in both run and stop states.
5. The temperature of medium should better between  $-30\text{ }^{\circ}\text{C}$  to  $100\text{ }^{\circ}\text{C}$ , otherwise the lifespan of the diaphragm would be affected.
6. It can quantitatively transport acid, alkali, water and various special media.
7. It can operate safely when there is no medium in the pump head.
8. No noise, small size, simple operation, convenient maintenance.

This series of metering pump can transport general normal temperature water and with strong corrosion, volatile, easy crystallization, flammable, explosive, highly toxic, corrosive, radioactive or other valuable liquid and so on, but also can transport suspended liquid. In order to prevent diaphragm rupture, accidents caused by medium and hydraulic oil mixed, the transport of flammable and explosive, highly toxic and valuable liquid can use double diaphragm metering pump and diaphragm rupture alarm device.



### Model Example

#### HY-X-10/9.0



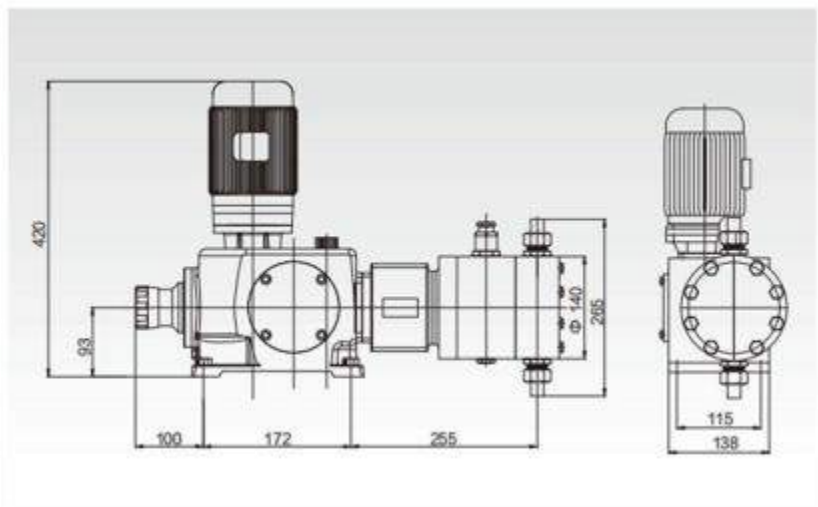
## HYDRAULIC DIAPHRAGM METERING PUMP

Thermal power, nuclear power, petrochemical, lithium battery, coal chemical industry, water treatment and so on...

Model	HY-X	HY-Z	HY-ZR
Standard	Pump head: 304 Motor: 380V 50Hz	Pump head: 304 Motor: 380V 50Hz	Pump head: 304 Motor: 380V 50Hz
Optional	Pump head 316 Explosion-proof motor, frequency conversion motor, Motor 420V, 220V, 110V	Pump head 316L, PTFE Explosion-proof motor, frequency conversion motor, Motor 420V, 220V, 110V	Pump head 316, 316L Explosion-proof motor, frequency conversion motor, Motor 420V, 220V, 110V

## HYDRAULIC DIAPHRAGM METERING PUMP

### HY-X Hydraulic Diaphragm Metering Pump

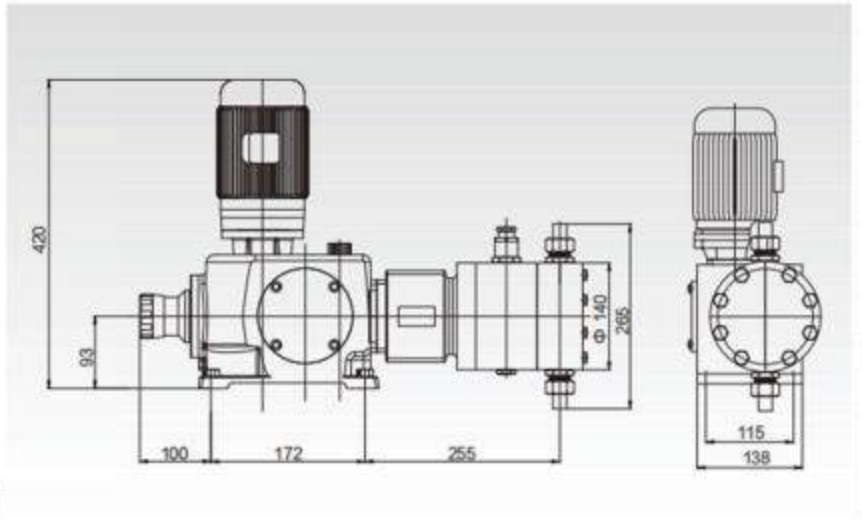


### Performance Parameters

Model	Max Flow Rate (L/H)	Power		Plunger Diameter (mm)	Stroke Length (mm)	Stroke Rate (/min)	Connections (mm)	Weight (KG)	
		0.55kw	0.37kw						
		Max Pressure(Mpa)							
HY-X 7/18(12)	7	18	12	10	20	96/144	6 welding	37	
HY-X 10/14(9.0)	10	14	9.0	12					
HY-X 20/7.6(5.4)	20	7.6	5.4	16					
HY-X 35/6.8(5)	35	6.8	5	20			10 welding		40
HY-X 50/5.5(3)	50	5.5	3	25					
HY-X 80/3.5(2.2)	80	3.5	2.2	28					
HY-X 135/2.5(1.7)	135	2.5	1.7	32			15 welding		
HY-X 160/1.6(1.1)	160	1.6	1.1	35					
HY-X 180/1.3(0.9)	180	1.3	0.9	38					

## HYDRAULIC DIAPHRAGM METERING PUMP

### ● HY-Z Hydraulic Diaphragm Metering Pump

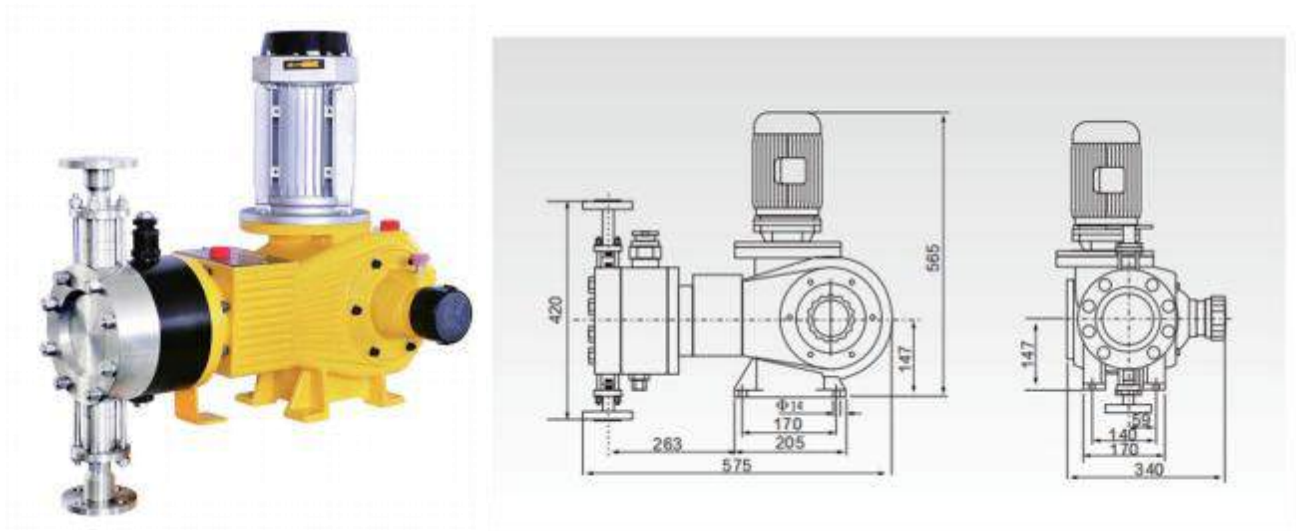


### ● Performance Parameters

Model	Max Flow Rate (L/H)	Power		Plunger Diameter (mm)	Stroke Length (mm)	Stroke Rate (/min)	Connections (mm)	Weight (KG)
		0.75kw	0.55kw					
		Max Pressure(Mpa)						
HY-Z 10/20(15)	10	20	15	12	25	96/144	6 welding	74
HY-Z 15/20(15)	15	20	15					
HY-Z 22/10(8.0)	22	10	8.0	16				
HY-Z 35/10(8.0)	35	10	8.0					
HY-Z 40/7.2(5.4)	40	7.2	5.4	20			10 welding	82
HY-Z 70/6.0(4.5)	70	6.0	4.5	22				
HY-Z 90/4.5(3.5)	90	4.5	3.5	25				
HY-Z 135/3.2(2.4)	135	3.2	2.4	30				
HY-Z 100/2.8(2.0)	100	2.8	2.0	32				
HY-Z 150/2.8(2.0)	150	2.8	2.0					
HY-Z 200/2.2(1.6)	200	2.2	1.6	36			15 welding	90
HY-Z 240/1.8(1.3)	240	1.8	1.3	40				
HY-Z 300/1.4(1.0)	300	1.4	1.0	45				
HY-Z 400/1.1(0.8)	400	1.1	0.8	50				

**HYDRAULIC DIAPHRAGM METERING PUMP**

**● HY-ZR Hydraulic Diaphragm Metering Pump**



**● Performance Parameters**

Model	Max Flow Rate (L/H)	Power		Plunger Diameter (mm)	Stroke Length (mm)	Stroke Rate (/min)	Connections (mm)	Weight (KG)
		1.1kw	1.5kw					
		Max Pressure(Mpa)						
HY-ZR 28/22(16)	28	16	22	16	30	87/132	10 welding	140
HY-ZR 45/20(14)	45	14	20	20				
HY-ZR 58/18(12)	58	12	18	22				
HY-ZR 75/12(8)	75	8	12	25			15 flange	155
HY-ZR 125/8.5(6.3)	125	6.3	8.5	32				
HY-ZR 160/6.5(4.2)	160	4.2	6.5	36				
HY-ZR 200/5.6(3.6)	200	3.6	5.6	40				
HY-ZR 250/4.5(3.0)	250	3.0	4.5	45				
HY-ZR 320/3.5(2.8)	320	2.8	3.5	50				
HY-ZR 380/2.8(2.0)	380	2.0	2.8	55				
HY-ZR 460/2.4(1.6)	460	1.6	2.4	60				
HY-ZR 580/1.8(1.2)	580	1.2	1.8	60				
HY-ZR 700/1.6(1.0)	700	1.0	1.6	60				

## ANNEX OF METERING PUMP

According to the different needs of customers, our company can provide customers with one-stop purchasing services. Common system accessories: charging box, mixer, safety valve, back pressure valve, Y type filter, pulse damper, flow calibration column, diaphragm pressure gauge, exhaust valve, vacuum damage valve, automatic exhaust valve, jet, pipeline mixer, ball valve, butterfly valve, float flow meter, flow alarm switch, check valve, bottom valve, sampling valve, various connector accessories, and PVC adhesive, etc.

Accessories optional materials: PP, PVC, PTFE, PVDF, 304 stainless steel, 316L stainless steel, etc. Here are some commonly used accessories:

### Check Valve

Material: PVC 304 316 Teflon lining  
Size: DN10, DN15, DN25, DN32, DN40



### Dosing Agitator



### Injection Valve

A check valve. The main function is to make the liquid dosing in one direction, prevent the backflow of the pipeline liquid, and ensure the reliability of dosing in the pipeline.



### Filter Foot Valve

Ensuring that the liquid flows in one direction in the suction pipe helps the metering pump work properly. And equipped with a filter screen to remove impurities in the pipeline.

Material: PVC PTFE 304 316  
Size: DN10 DN15 DN25 DN32 DN40



## ANNEX OF METERING PUMP

### Y Type Filter

The impurities in the filter medium form a protective effect on the metering pump, which is generally installed near the inlet pipe of the metering pump.

Materials: PVC 304 316

Connection type: Socket, Flange

Size: DN15 DN20 DN25 DN32 DN40 DN50



### Safety Relief Valve Ensure

The stability of the system, protect the safety of the pump and the normal operation of the system, and protect the pipeline, elbow, etc.

Materials: PVC 304 316 PTFE

Connection type: Female thread, Flange.

Size: DN15 DN20 DN25 DN32 DN40



### Pulsation Damper

Main Features:

- 1.Limit the harmful peak pressure produced by the pump when it starts and stops.
- 2.Reduce or eliminate the impact of water hammer on the system.
- 3.Equilibrate continuous dosing medium.
- 4.Effectively reduce the vibration of the pipeline.

Materials: PVC 304 316

Connection type: Female thread, Flange,

Socket Size: DN15 DN20 DN25 DN32 DN40



### Back Pressure Valve

Ensure the stable operation of the system under pressure, eliminate the change of the dosing amount caused by the pressure fluctuation at the dosing point to prevent the backflow of the medium and prevent siphon.

Materials: PVC 304 316 PTFE

Connection type: Female thread, Flange

Size: DN15 DN20 DN25 DN32 DN40





# APPLICATIONS



## CORROSION RESISTANCE OF CRT

Corrosive Medium	Concentration	Stainless Steel			Reinforced Polypropylene			Fluorine Plastics		
		25C	50C	100C	25C	50C	100C	25C	50C	100C
Sulfuric acid	0-50	x	x	x	√	√	0	√	√	√
Sulfuric acid	50-98	x	x	x	√	0	x	√	√	√
Nitric acid	10-70	√	√	√	√	√	0	√	√	√
Nitric acid	70-100	√	√	√	x	x	x	√	√	√
Hydrochloric acid	any	x	x	x	0	0	0	√	√	√
Phosphoric acid	0-90	x	x	x	√	√	0	√	√	√
Hydrofluoric acid	0-50	x	x	x	√	√	√	√	√	√
Cyanobromic acid	any	x	x	x	√	√	√	√	√	√
Caseic acid	0-50	x	x	x	√	√	x	√	√	√
Fluosilicic acid	any	x	x	x	√	√	√	√	√	√
Chloroazotic acid		x	x	x	x	x	x	√	√	√
Formic acid	any	x	x	x	√	√	√	√	√	√
Acetic acid	any	0	0	0	√	√	0	√	√	√
Butyric acid	any	√	√	√	√	√	√	√	√	√
Lactic acid	any	√	√	x	√	√	x	√	√	√
Oxalic acid	any	0	0	x	√	0	x	√	√	√
Fatty acid	any	√	√	√	√	0	x	√	√	√
Benzoic acid	any	√	√	√	√	√	x	√	√	√
Citric acid	any	√	√	√	√	0	x	√	√	√
Benzene sulfonic acid	any	√	√	√	0	0	x	√	√	√
Chloroacetic acid	any	x	x	x	√	√	x	√	√	√
Potassium hydroxide	any	√	√	x	√	√	√	√	√	√
Sodium hydroxide	any	√	√	√	√	√	√	√	√	√
Ammonium sulfate	any	x	x	x	√	√	√	√	√	√
Ammonium phosphate	any	√	√	x	√	√	0	√	√	√
Ammonium chloride	any	x	x	√	√	√	0	√	√	√
Sodium fluoride sulfate	any	0	0	x	√	√	√	√	√	√
Ammonium hydride	any	x	x	x	√	√	√	√	√	√
Lead sulfate	any	√	√	√	√	√	√	√	√	√
Calcium hypochlorite	0-25	x	x	x	√	0	0	√	√	√
Methanol	any	√	√	√	√	0	0	√	√	√
Ethanol	any	√	√	√	√	0	0	√	√	√
Toluene	any	√	√	√	x	x	x	√	√	√
Dichloroethane	any	√	√	√	x	x	x	√	√	√
Chloric acid	any	x	x	x	√	√	x	√	√	√
Potassium chlorate	any	√	√	√	√	√	√	√	√	√
Boric acid	any	√	√	0	√	√	√	√	√	√
Sodium phosphate	any	√	√	√	√	0	x	√	√	√
Borax	any	√	√	√	√	√	√	√	√	√
Potassium permanganate	any	√	√	√	√	√	x	√	√	√
Sulfite	any	√	√	0	√	√	√	√	√	√
Silicic acid	any	x	x	x	√	√	√	√	√	√
Hypochlorous acid	any	x	x	x	√	√	√	√	√	√
Nickel sulfate	any	√	√	x	√	√	√	√	√	√
Aluminum fluoride	any	0	x	x	√	√	√	√	√	√

\*Note: "√" means good use effect; 0 indicates that this parameter can be used. "x" means can not use the transport medium such as not in the table or other special nature please contact us.

# CHEMICAL RESISTANCE TABLE

Product name	Molecular Formula	Concentration	Acryl	PVC	PP	PVDF	1.4404	FPM	EPDM	Tygon	pharmed	PE	24819
Potassium sulfate	K <sub>2</sub> SO <sub>4</sub>	S	Good	Good	Good	Limited	Good	Good	Good	Good	Good	Good	Good
Potassium aluminum sulfate	KAl(SO <sub>4</sub> ) <sub>2</sub>	S	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
Aluminum sulfate	Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>	S	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
Magnesium sulfate	MgSO <sub>4</sub>												
Magnesium sulfate	MgSO <sub>4</sub>	S	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	General
Manganese sulfate	MnSO <sub>4</sub>	S	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
Sodium sulfate	Na <sub>2</sub> SO <sub>4</sub>	S	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
Nickel sulfate	NiSO <sub>4</sub>	S	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	General
Lead sulfate	PbSO <sub>4</sub>	S	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
Potassium bisulfate	KHSO <sub>4</sub>	5%	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
Sodium bisulfate	NaHSO <sub>4</sub>	S	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
Sodium bisulfate	=>NaHSO <sub>4</sub>												
Ferric sulfate	Fe <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>	S	Good	Good	Good	Good	Limited	Good	Good	Good	Good	Good	Good
Copper sulfate	CuSO <sub>4</sub>	S	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
Copper sulfate	=>CuSO <sub>4</sub>												
Tin sulfate	SnSO <sub>4</sub>	S	Unknown	Good	Good	Good	Good	Good	Good	Good	Good	Good	General
Zinc sulfate	ZnSO <sub>4</sub>	S	Good	Good	Good	Good	Good	Poor	Good	Good	Good	Good	General
Ferrous sulfate	FeSO <sub>4</sub>	S	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
Sulfate	Fe <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>												
(Aluminum) potassium alum (potassium) alum	=>KAl(SO <sub>4</sub> ) <sub>2</sub>												
Potassium ferric cyanide	K <sub>3</sub> Fe(CN) <sub>6</sub>	S	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
Sodium ferricyanide	K <sub>4</sub> Fe(CN) <sub>6</sub>	S	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
Chlorobenzene	C <sub>6</sub> H <sub>5</sub> Cl	100%	Poor	Poor	Good	Good	Good	Good	Poor	Poor	Poor	Limited	Limited
Aminoacetone	C <sub>2</sub> H <sub>5</sub> NO	100%	Poor	Poor	Unknown	Unknown	Good	Poor	Good	Poor	Poor	Unknown	Unknown
Chlorobutadiene	C <sub>4</sub> H <sub>5</sub> Cl	100%	Poor	Poor	Unknown	Unknown	Good	Good	Poor	Poor	Poor	Unknown	Unknown
Neoprene rubber	C <sub>4</sub> H <sub>5</sub> Cl												
Chloroform	CHCl <sub>3</sub>	100%	Poor	Poor	Limited	Good	Good	Good	Poor	Poor	Limited	Poor	Good
Chloroform	=>CHCl <sub>3</sub>												
Ammonium chloride, halogen sand	=>NH <sub>4</sub> Cl												
Ammonium chloride, halogen sand	NH <sub>4</sub> Cl	S	Good	Good	Good	Good	Poor	Good	Good	Good	Good	Good	General
Barium hydride	BaCl <sub>2</sub>	S	Good	Good	Good	Good	Poor	Good	Good	Good	Good	Good	Good
Benzoyl chloride	C <sub>6</sub> H <sub>5</sub> COCl	100%	Poor	Unknown	Limited	Unknown	Limited	Good	Good	Unknown	Unknown	Limited	Good
Calcium hydride	CaCl <sub>2</sub>	S	Good	Good	Good	Good	Poor	Good	Good	Good	Good	Good	Good
Mercuric chloride	HgCl <sub>2</sub>	S	Good	Good	Good	Good	Poor	Good	Good	Good	Good	Good	Good
Cobalt chloride	CoCl <sub>2</sub>	S	Good	Good	Good	Good	Poor	Good	Good	Good	Good	Good	Good
Potassium chloride	KCl	S	Good	Good	Good	Good	Poor	Good	Good	Good	Good	Good	General
Lithium chloride	LiCl	S	Good	Good	Good	Good	Poor	Good	Good	Good	Good	Good	Unknown
Aluminium chloride	AlCl <sub>3</sub>	S	Good	Good	Good	Good	Poor	Good	Good	Good	Good	Good	Good
Magnesium chloride	MgCl <sub>2</sub>	S	Good	Good	Good	Good	Limited	Good	Good	Good	Good	Good	Good
Sodium chloride	NaCl	S	Good	Good	Good	Good	Poor	Good	Good	Good	Good	Good	Good
Nickel chloride	NiCl <sub>2</sub>	S	Good	Good	Good	Good	Poor	Good	Good	Good	Good	Good	Good
Antimony chloride	SbCl <sub>3</sub>	S	Good	Good	Good	Good	Poor	Good	Good	Good	Good	Good	Unknown
Ferric chloride	FeCl <sub>3</sub>	S	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Unknown
Copper chloride	CuCl <sub>2</sub>	S	Good	Good	Good	Good	1%	Good	Good	Good	Good	Good	Good
Zinc chloride	ZnCl <sub>2</sub>	S	Good	Good	Good	Good	Poor	Good	Good	Good	Good	Good	Unknown
Ferrous chloride	FeCl <sub>2</sub>	S	Good	Good	Good	Good	Poor	Good	Good	Good	Good	Good	Good
Chlorinated ethanol	C <sub>2</sub> H <sub>4</sub> Cl <sub>2</sub> O	100%	Poor	Poor	Good	Limited	Good	Poor	Limited	Poor	Good	Good	Good
Silver chloride	AgCl	S	Good	Good	Good	Good	Poor	Good	Good	Good	Good	Good	General
Chlorosulfonic acid	SO <sub>2</sub> (OH)Cl	100%	Poor	Limited	Poor	Good	Poor	Poor	Poor	Poor	Poor	Poor	Limited
Chlorotoluene	C <sub>7</sub> H <sub>7</sub> Cl	100%	Poor	Poor	Unknown	Good	Good	Good	Poor	Poor	Poor	Unknown	Good

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