

HIGHTPUMP™
A  **HANKUN** Brand



Hankun Quality Driving The Future

METERING PUMP

SUMMARY

HIGHPUMP™

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

HIGHPUMP™ focuses on the process industries and 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 condition, we provide the end-users with safe, environmental -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, produces core fluid control equipment such as pumps, valves, and actuators. Using IoT communication, we provide integrated dosing skids, complete sets of equipment, on-site system maintenance services, and other extended service.

Our clients are distributed in thermal power, nuclear power, petrochemical, lithium battery, coal chemical, water treatment industries and other fields, our products are high quality and have a high reputation in the market.

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



SERIES



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



Mechanical -HJ



Plunger -HZ

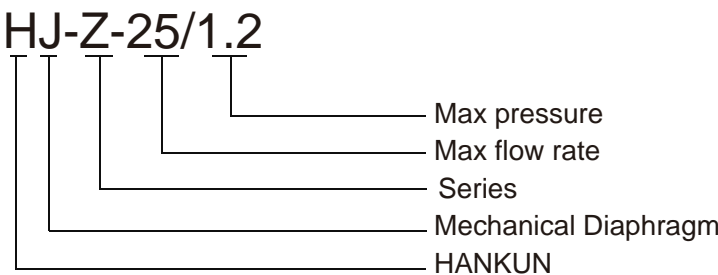


Hydraulic -HY

DIAPHRAGM METERING PUMP

Diaphragm metering pump uses flexible diaphragm to replace the piston, under the action of the driving mechanism to achieve reciprocating motion, by changing the volume of the pump chamber to complete the suction and discharge of the medium. This series is suitable for low pressure fluid metering, when the pressure changes when the flow almost does not change, high measurement accuracy. Diaphragm metering pump through the diaphragm the flow of liquid and drive lubrication mechanism is completely isolated, this product uses the latest PTFE and rubber composite diaphragm, strengthen corrosion resistance, greatly improve the service life of the diaphragm, reduce the cost of maintenance and replacement. This product according to the different requirements of various working conditions on the site, the flow can be stepless adjustment in the range of 0-100%, can quantitatively transport liquid without solid particles.

Model Example



DIAPHRAGM METERING PUMP

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

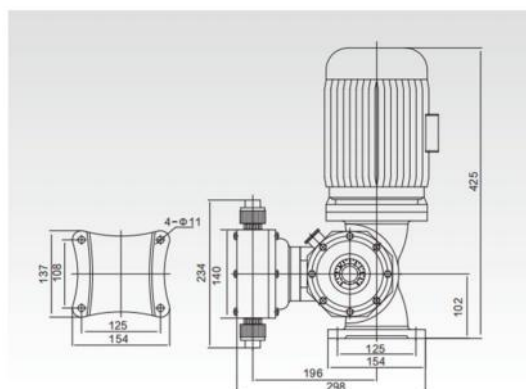
Model	HJ-Z	HJ-D
Accessories and motors		
Standard	Pump head:PVC Motor:380V 50Hz	Pump head:PVC Motor:380V 50Hz
Matching	Pump head:304、316、PTFE Motor:420V、220V、110V Explosion-proof motor, frequency conversion motor	Pump head:304、316、PTFE Motor:420V、220V、110V Explosion-proof motor, frequency conversion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

DIAPHRAGM METERING PUMP

HJ-Z Diaphragm metering pump

In order to ensure that users can use metering pumps in line with site conditions, users need to provide the following parameters when selecting and purchasing equipment:

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



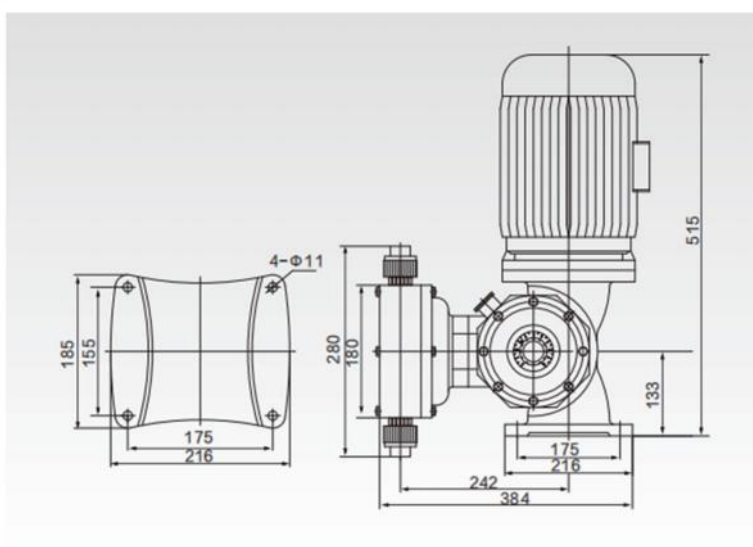
Performance Parameters

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 internal 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 internal thread	28
HJ-Z 420/0 .5	420	0.5	144			
HJ-Z 500/0 .5	500	0.5	144			

DIAPHRAGM METERING PUMP

HJ-D Diaphragm metering pump

Diaphragm metering pump design compact, the main parts are precision casting or CNC machining. Flow can be adjusted through the flow control knob, simple operation, equipment installation and maintenance is also very convenient.



Performance Parameters

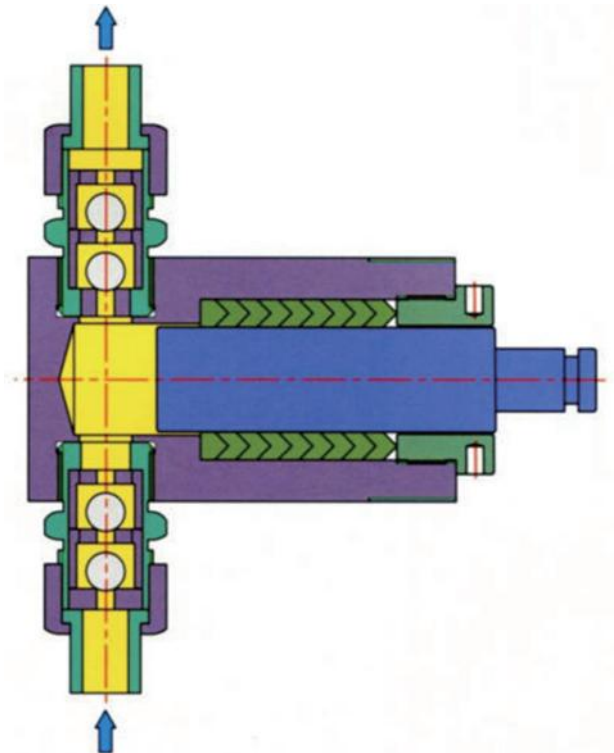
Model	Max Flow rate (L/H)	Max Pressure (Mpa)	Stroke Speed (/min)	Power(KW)	Connections (mm)	Weight (KG)
HJ-D 380/1 .0	380	1.0	48	0.75	PVC: DN25 adhesive Stainless Steel: DN25 welded PTFE: DN25 internal thread	40
HJ-D 500/0 .8	500	0.8	96			
HJ-D 650/0 .6	650	0.6	96	1.1		
HJ-D 850/0 .5	850	0.5	144			
HJ-D 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 internal thread	50
HJ-D 1800/0 .3	1800	0.3	144			

PLUG METERING PUMP

Plug 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 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
 _____ Max pressure
 _____ Max flow rate
 _____ Series
 _____ Plunger type
 _____ HANKUN



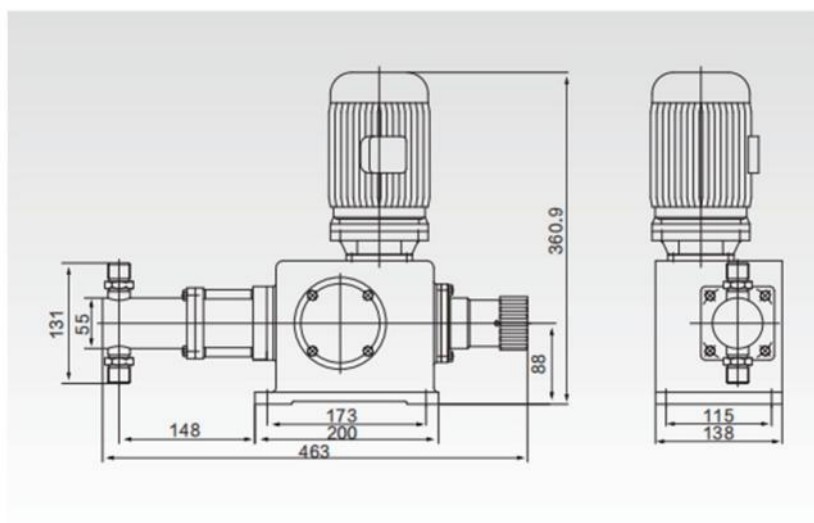
PLUG METERING PUMP

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

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
Matching	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

PLUG METERING PUMP

● HZ-X Plug Metering Pump

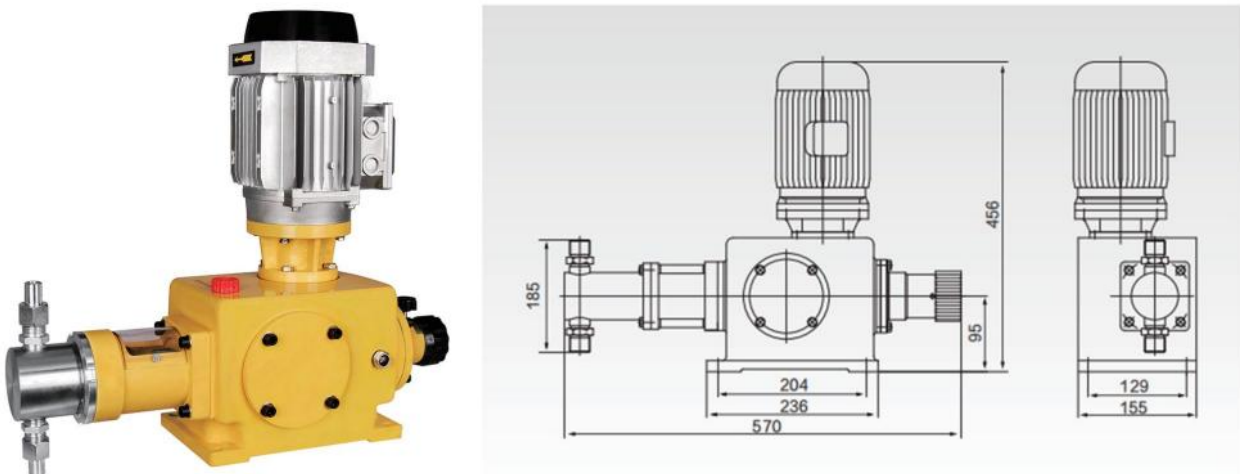


● Performance Parameters

Model	Max Flow rate (L/H)	Power		Plunger diameter (mm)	Stroke length (mm)	Stroke Rate (/min)	Connections (mm)	Weight (KG)
		0.55kw	0.37kw					
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			15 welding	45
HZ-X 100/2 .0(1 .3)	100	2.0	1.3	32				
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				

PLUG METERING PUMP

● HZ-Z Plug Metering Pump

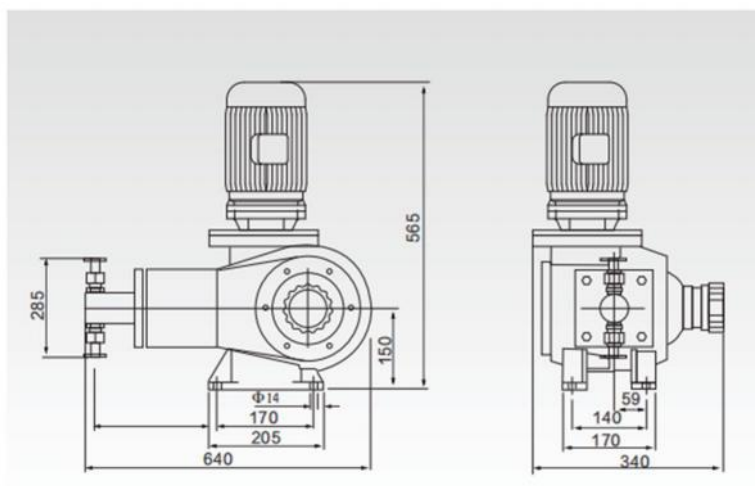


● Performance Parameters

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			10 welding	45
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			15 welding	50
HZ-Z 160/2.0(1.5)	160	2.0	1.5	38				50
HZ-Z 190/1.6(1.2)	190	1.6	1.2	42				50
HZ-Z 210/1.4(1.0)	210	1.4	1.0	45				50
HZ-Z 270/1.1(0.8)	270	1.1	0.8	50			20 welding	55
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				
HZ-Z 470/0.6(0.4)	470	0.6	0.4	65				

PLUG METERING PUMP

HZ-ZR Plug Metering Pump



Performance Parameters

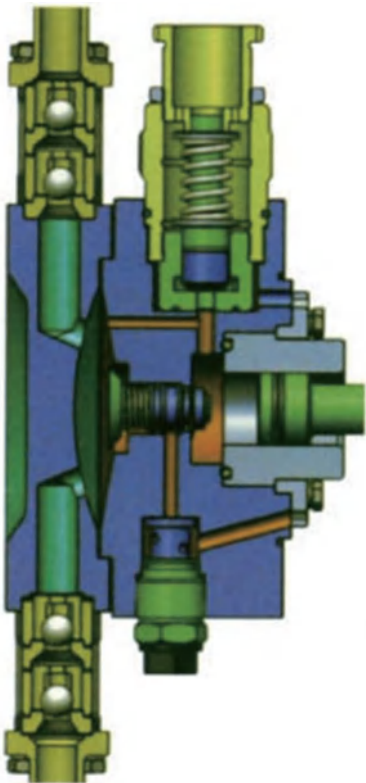
Model	Max Flow rate (L/H)	Power		Plunger diameter (mm)	Stroke length (mm)	Stroke Rate (/min)	Connections (mm)	Weight (KG)
		1.5kw	1.1kw					
		Max Pressure(Mpa)						
HZ-ZR 6.5/50(40)	6.5	50	40	8	30	87/132	6 welding	80
HZ-ZR 16/40(30)	16	40	30	12				
HZ-ZR 32/22(16)	32	22	16	16				
HZ-ZR 50/14(10)	50	14	10	20			10 welding	86
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			15 welding	90
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			20 flange	95
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			25 flange	98
HZ-ZR 550/1.3(1.0)	550	1.3	1.0	65				
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	32			
HZ-ZR 1000/0.5	1000	0.8	0.5	80				

HYDRAULIC DIAPHRAGM METERING PUMP

Hydraulic diaphragm metering pump series is a combination of plug metering pump and diaphragm metering pump characteristics and design of a metering pump, with the following characteristics:

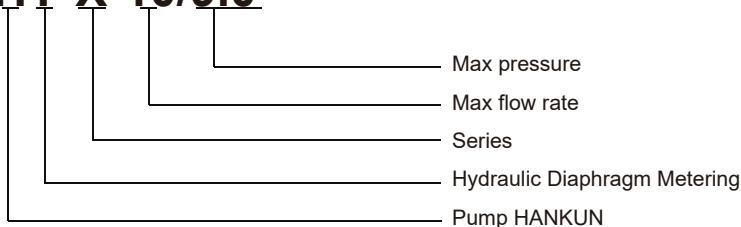
- 1.Advanced hydraulic system design, safe and no leakage.
- 2.Optional double diaphragm, diaphragm pressure gauge, diaphragm rupture alarm device.
- 3.The working pressure can be up to 30MPa, the measuring accuracy is ±1%.
- 4 pump in operation and stop state can adjust the flow.
- 5 medium use temperature should not exceed 100℃, not less than -30℃, otherwise affect the service life of the diaphragm.
- 6.Can quantitatively transport acid, alkali, water and various special media.
- 7.There is no medium in the pump head state can also be safe operation.
- 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, media and hydraulic oil mixed to cause accidents, 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



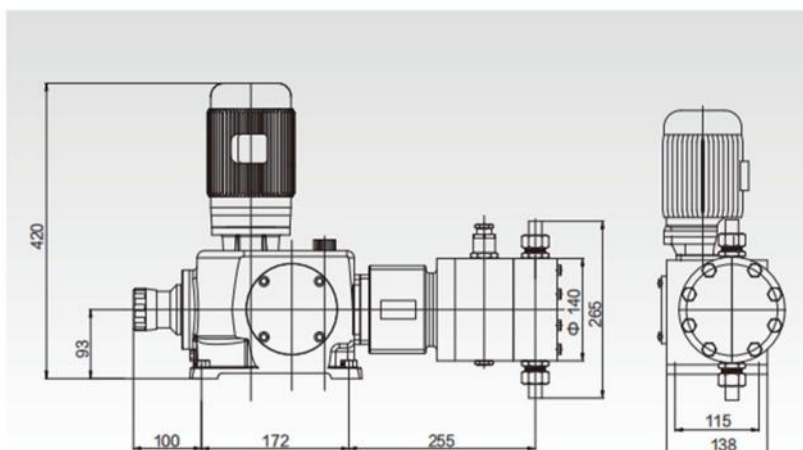
HYDRAULIC DIAPHRAGM METERING PUMP

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

Accessories and motors	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
Matching		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

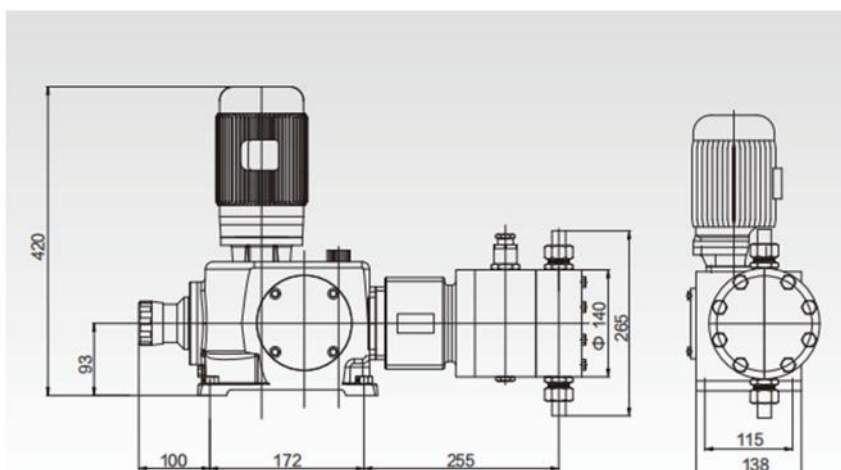


Performance Parameters

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				
HY-X 50/5 .5(3)	50	5.5	3	25			10 welding	40
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				
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

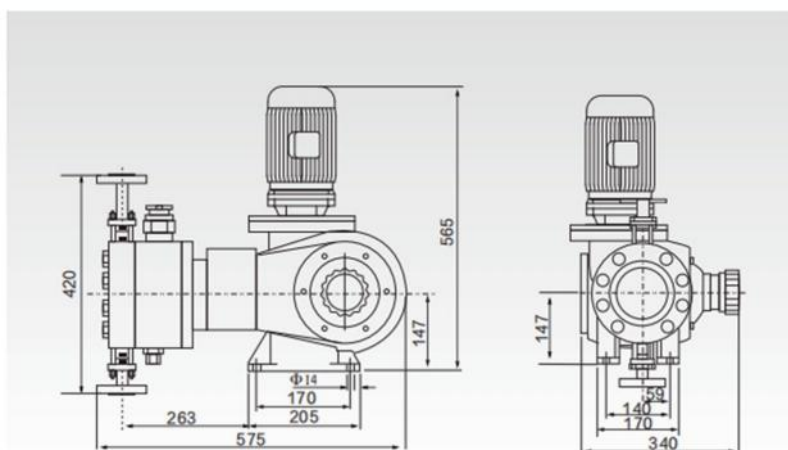


● Performance Parameters

Model	Max Flow rate (L/H)	Power		Plunger diameter (mm)	Stroke length (mm)	Stroke Rate (/min)	Connections (mm)	Weight (KG)
		0.75kw	0.55kw					
HY-Z 10/20(15)	10	20	15	12	25	96/144	6 welding	74
HY-Z 15/20(15)	15	20	15	12				
HY-Z 22/10(8.0)	22	10	8.0	16				
HY-Z 35/10(8.0)	35	10	8.0	16			10 welding	82
HY-Z 40/7.2(5.4)	40	7.2	5.4	20				
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	32				
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					
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				
HY-ZR 125/8.5(6.3)	125	6.3	8.5	32			15 flange	155
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			20 flange	162
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 can be used: charging box, mixer, safety valve, back pressure valve, Y 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 flowmeter, flow alarm switch, check valve, bottom valve, sampling valve, various connector accessories, PVC adhesive, etc. Accessories optional material: PP, PVC, PTFE, PVDF, 304 stainless steel, 316L stainless steel, etc.

Here are some commonly used accessories:

Non-returning Valve

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

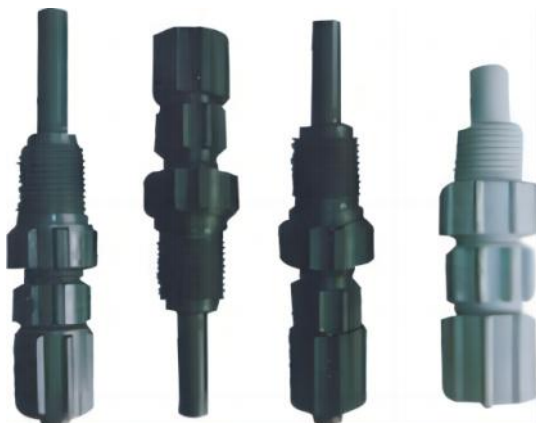


Dosing Agitator



Injection Valve

Is a check valve, the main function is to make the liquid one-way feeding, prevent the pipeline liquid backflow, to ensure the reliability of the pipeline.



Filter Foot Valve

Ensure that the liquid in the suction pipe one-way flow, to help the metering pump reasonable work, and is provided with a filter, to the 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.

Material:PVC 304 316

Connection type:Socket、 Flange

Size: DN15 DN20 DN25 DN32 DN40 DN50



Safety Relief Valve

When the pipeline pressure relief, ensure the stability of the system, protect the safety of the pump and the normal operation of the system, protect the pipeline, elbow, etc.

Material: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.Balanced and continuous feeding medium to the dosing point.
- 4.Effectively reduce pipe fluctuation.

Material:PVC 304 316

Connection type: Female

thread、 Flange、 Socket Size: DN15 DN20 DN25 DN32 DN40



Back pressure valve

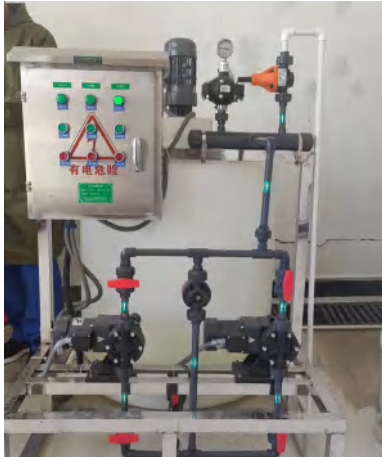
Ensure the stable operation of the system under pressure, eliminate the change of the feeding amount caused by the pressure fluctuation of the feeding point to prevent the backflow of the medium and prevent siphon. Material:PVC 304 316 PTFE

Connection type:Female thread、 Flange

Size: DN15 DN20 DN25 DN32 DN40



NEEX ONF MTRONIG



CORROSION RESISTANCE OF CRT

Corrosive medium	concentration	Stainless steel			Reinforced polypropylene			Fluorine plastics		
		25°C	50°C	100°C	25°C	50°C	100°C	25°C	50°C	100°C
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 ₂ SO ₄	S	Good	Good	Good	Limited	Good	Good	Good	Good	Good	Good	Good
Potassium aluminum sulfate	KAl(SO ₄) ₂	S	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
Aluminum sulfate	Al ₂ (SO ₄) ₃	S	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
Magnesium sulfate	MgSO ₄												
Magnesium sulfate	MgSO ₄	S	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	General
Manganese sulfate	MnSO ₄	S	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
Sodium sulfate	Na ₂ SO ₄	S	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
Nickel sulfate	NiSO ₄	S	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	General
Lead sulfate	PbSO ₄	S	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
Potassium bisulfate	KHSO ₄	5%	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
Sodium bisulfate	NaHSO ₄	S	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
Sodium bisulfate	=>NaHSO ₄												
Ferric sulfate	Fe ₂ (SO ₄) ₃	S	Good	Good	Good	Good	Limited	Good	Good	Good	Good	Good	Good
Copper sulfate	CuSO ₄	S	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
Copper sulfate	=>CuSO ₄												
Tin sulfate	SnSO ₄	S	Unknown	Good	Good	Good	Good	Good	Good	Good	Good	Good	General
Zinc sulfate	ZnSO ₄	S	Good	Good	Good	Good	Good	Poor	Good	Good	Good	Good	General
Ferrous sulfate	FeSO ₄	S	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
sulfate	Fe ₂ (SO ₄) ₃												
(aluminum) potassium alum (potassium) alum	=>KAl(SO ₄) ₂												
Potassium ferric cyanide	K ₃ Fe(CN) ₆	S	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
Sodium ferricyanide	K ₄ Fe(CN) ₆	S	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
chlorobenzene	C ₆ H ₅ Cl	100%	Poor	Poor	Good	Good	Good	Good	Poor	Poor	Poor	Limited	Limited
aminoacetone	CICH ₂ COCH ₃	100%	Poor	Poor	Unknown	Unknown	Good	Poor	Good	Poor	Poor	Unknown	Unknown
chlorobutadiene	C ₄ H ₅ Cl	100%	Poor	Poor	Unknown	Unknown	Good	Good	Poor	Poor	Poor	Unknown	Unknown
Neoprene rubber	C ₄ H ₅ Cl												
chloroform	CHCl ₃	100%	Poor	Poor	Limited	Good	Good	Good	Poor	Poor	Limited	Poor	Good
chloroform	=>CHCl ₃												
Ammonium chloride. Halogen sand	=>NH ₄ Cl												
	NH ₄ Cl	S	Good	Good	Good	Good	Poor	Good	Good	Good	Good	Good	General
Barium hydride	BaCl ₂	S	Good	Good	Good	Good	Poor	Good	Good	Good	Good	Good	Good
Benzoyl chloride	C ₆ H ₅ COCl	100%	Poor	Unknown	Limited	Unknown	Limited	Good	Good	Unknown	Unknown	Limited	Good
Calcium hydride	CaCl ₂	S	Good	Good	Good	Good	Poor	Good	Good	Good	Good	Good	Good
Mercuric chloride	HgCl ₂	S	Good	Good	Good	Good	Poor	Good	Good	Good	Good	Good	Good
Cobalt chloride	CoCl ₂	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 ₃	S	Good	Good	Good	Good	Poor	Good	Good	Good	Good	Good	Good
Magnesium chloride	MgCl ₂	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 ₂	S	Good	Good	Good	Good	Poor	Good	Good	Good	Good	Good	Good
Antimony chloride	SbCl ₃	S	Good	Good	Good	Good	Poor	Good	Good	Good	Good	Good	Unknown
Ferric chloride	FeCl ₃	S	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Unknown
Copper chloride	CuCl ₂	S	Good	Good	Good	Good	1%	Good	Good	Good	Good	Good	Good
Zinc chloride	ZnCl ₂	S	Good	Good	Good	Good	Poor	Good	Good	Good	Good	Good	Unknown
Ferrous chloride	FeCl ₂	S	Good	Good	Good	Good	Poor	Good	Good	Good	Good	Good	Good
Chlorinated ethanol	CICH ₂ CH ₂ OH	100%	Poor	Poor	Good	Limited	Good	Poor	Limited	Poor	Good	Good	Good
	AcCl	S	Good	Good	Good	Good	Poor	Good	Good	Good	Good	Good	General
Chlorosulfonic acid	SO ₂ (OH)Cl	100%	Poor	Limited	Poor	Good	Poor	Poor	Poor	Poor	Poor	Poor	Limited
chlorotoluene	C ₇ H ₈ Cl	100%	Poor	Poor	Unknown	Good	Good	Good	Poor	Poor	Poor	Unknown	Good

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