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CNP

To compete with fair play, and to innovate with infinite creativity

Metering Pump Selection Manual

NANFANG PUMP INDUSTRY CO.,LTD.

Company Profile

Founded in 1991, Nanfang Pump Industry Co., Ltd. (hereinafter referred to as CNP) has been listed on the Shenzhen Stock Exchange on 9th December 2010; Stock name: CNP; Stock code: 300145.

As the first enterprise specializing in the research and large-scale production of stainless steel stamping welded centrifugal pump in China, CNP is currently the professional manufacturer with the highest volume of production and marketing in that industry. It ranks first in the country in terms of product scope, sales volume, and production quality. The company has set up a complete network of marketing services to meet the requirements of overseas markets as well as domestic needs. The products have seen a wide range of application in the area of pressurization, industry, living water, cycling of air-conditioning water, heat supply, fire extinguishing system, pumping of underground water, treatment of sewage and waste water, chemical industry and desalination of sea water etc.

CNP has now entered into the fast track of development and has taken a major step forward in forging China Strong Pump Enterprise and World's famous brand in the Pump Industry. In order to better meet the client's needs and requirements for expansion, it has set up a wide network of selling and service, as well as offices and service centers in major cities in China, which are aimed at providing timely and effective services for our clients. Meanwhile, our company has successfully penetrated into the world market by forging a good business relationship with more than 50 countries and regions in the Europe, Northern American, and Southeast Asia etc.

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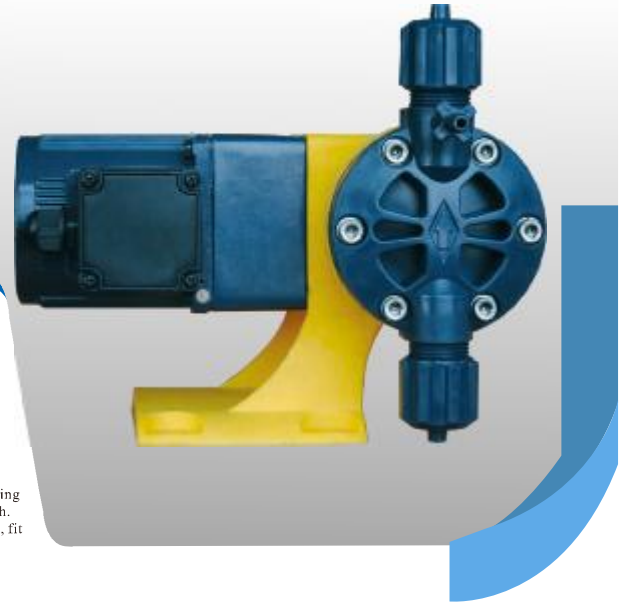
GW Series Mechanical Diaphragm metering Pump



Technical Data:

Flow Rate:5L/h-53L/h
Maximum discharge pressure:10bar
Regulating ratio:10:1, Steady precision: ±2%
Suction lift:0.5M
Maximum temperature:40°C
Maximum suction pressure:1bar

Main Features:

Hydraulic End

◎Diaphragm is mechanically driven, no diaphragm protecting plate at the material side ,easy to let material getting through.
◎Many kind of pump head material like PVC,PVDF,316SS, fit for all kinds of materials.
◎Self-cleaning one-way valve structure.

Driving End

◎Variable eccentric institutions regulation , insure flow pulsation gently vary.
◎Enchanted structure design , suitable for tough operation environment.

Control Mode

◎Power supply:380V/220V -50Hz/60Hz/single phase/three phase.
◎motor controller,control motor with mode "run/stop", adjust output flow.

Major Applications

Reverse osmosis,industrial water and waste water, swimming pool etc, all kinds of water treatment process.

Main components material of hydraulic end

◎ **GW005—GW055**

Hydraulic end material	Pump head material	Valve body	Valve seat	Valve ball	Diaphragm	Seal ring	Connection
PVC	PVC	PVDF	PVDF	Ceramic	PTFE	Fluorous rubber	PVC
PVDF	PVDF	PVDF	PVDF	Ceramic	PTFE	PTFE	PVDF
316SS	316SS	316SS	316SS	316SS	PTFE	Fluorous rubber	316SS

Accessory

◎Provide system required accessories as：Filter, Adjusting pillar,Buffer,Safety Valve and Back Pressure valve etc.
◎GW 005-GW055 range and pump with PVC pump head , along with the dosing pump to provide injection valve, foot valve, counter weight and 6 meters tube ,except the high viscosity pump head and PVDF pump head.

Standard configuration motor performance parameters

◎Power supply:380V220V -50Hz/60Hz/single phase/three phase
◎Protection grade: IP 54
◎Insulation class: F
◎All the motors accord with international electrical association IEC standard or US electrical committee NEC standards.

GW series mechanical diaphragm metering pump product code and flow pressure gauge

Code	Series	Flow Rate	Hydraulic end	Port	Motor
	GW				

Series

Code	Description
GW	GW series mechanical diaphragm metering pump

Flow rate

Code	LPH@Pmax	SPM(mm)	Pmax(bar)	stroke (mm)	diagram (mm)	Motor power (W)	Weight (kg)
GW005	6	30	10	4	60	25	3. 5
GW010	13	50					
GW025	24	83	7				
GW030	30	100					
GW035	36	120	5				
GW045	46	150	4				
GW055	53	166	2				

Hydraulic end

Code	Description
P	PVC hydraulic end
S	316 hydraulic end
T	PVDF hydraulic end

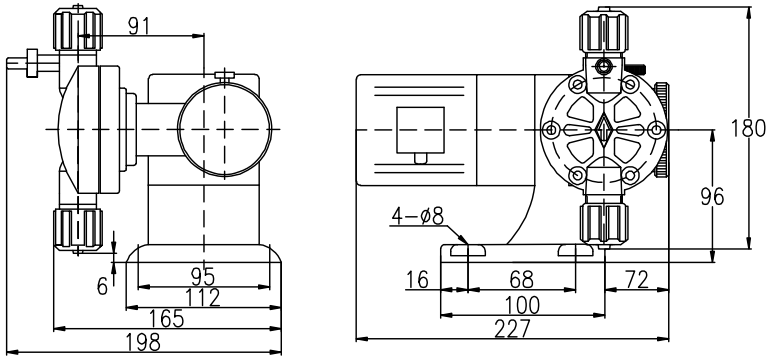
Port

Code	Description	GW005-055		
		PVC	PVDF	316
P	NPT threaded port	1/2"F	----	1/2"F
Q	The inner pipe mouth hard tube intubation port DN 15	DN15	----	1/2"F
R	Intubation 8x12 Tube	8x12	8x12 (*)	----
X	Special port	Consult CNP,indicate when ordering.		

Motor

Code	Description
1	25W.1440rpm.3-50-380V.IP55/F/TEFC
2	25W.1440rpm.1-50-220V.IP55/F/TEFC

Dimension figure



GD Series Mechanical Diaphragm metering Pump

Technical Data:

Maximum Flow Rate:130L/H
Maximum discharge pressure:10bar
Regulating ratio:10:1
Steady precision: ±2%
Suction lift:2M
Maximum suction pressure:2bar
Maximum temperature:40°C

Main Features:

Hydraulic End

◎Diaphragm is mechanically driven, it adopt multi-layer structure with PTFE and elastic rubber, no leaks, durable
◎No diaphragm protecting plate at the material side ,easy to let material getting through.
◎Many kind of pump head material like PVC,PVDF,316SS, fit for all kinds of materials.
◎Self-cleaning one-way valve structure.

Driving End

◎Double cam structure, suitable for tough operation environment, low noise, easy to disassemble and repair .
◎Oil bath lubrication,driving components have long working life.
◎Flow regulation in downtime or running state.
◎The highly accurate worm and gear enables it run smoothly.

Major Applications

Deliver chemicals in many areas, e.g. Environmental protection, municipal engineering, pharmacy, food, waste water treatment etc.

Main components material of hydraulic end

GD030-GD050

Hydraulic end material	Valve body	Valve seat	Valve ball	Diaphragm	Seal ring	Connection
PVC	PVC	PVDF	Zirconia	PTFE	Fluorous rubber	PVC
PVDF	PVDF	PVDF	Zirconia	PTFE	Fluorous rubber	PVDF
316SS	316SS	316SS	316SS	PTFE	Fluorous rubber	316SS

GD055-GD130

Hydraulic end material	Valve body	Valve seat	Valve ball	Diaphragm	Seal ring	Connection
PVC	PVC	PVDF	Zirconia	PTFE	Fluorous rubber	PVC
PVDF	PVDF	PVDF	Zirconia	PTFE	Fluorous rubber	PVDF
316SS	316SS	316SS	316SS	PTFE	Fluorous rubber	316SS

Control Mode

◎Motor controller, control motor with mode "run/stop", adjust output flow through adjusting handle.
◎Power supply:220V -50Hz-single phase/380V-50Hz-three phase .
◎Variable frequency controller,accept external control signal,adjust stroke speed.
Power supply:200V -50Hz-single phase/380V-50Hz-three phase .
Input signal:4-20mA analog signal.

Accessory

Provide system required accessories as:Filter, Adjusting pillar,Buffer,Safety valve and Back pressure valve etc.
Safety valve is mandatory。(GD030,GD050 and pump with connection code R PVC/PVDF pump head, along with the dosing pump to provide injection valve ,foot valve, counter weight and 6 meters tube.

GD series mechanical diaphragm metering pump product code and flow pressure gauge

	Series	Flow Rate	Hydraulic end	Port	Motor
Code	GD				

Series

Code	Description
GD	GD series mechanical diaphragm metering pump

Flow rate

Code	LPH@Pmax	Stroke(mm)	SPM	Pmax(bar)	Motor power
030	34	4	80	10	0. 2kW
050	44	4	116	10	
055	59	4	96	10	
070	71	4	116	10	
085	91	6	80	10	
100	101	6	96	8	
130	135	6	116	8	

Hydraulic end

Code	Description
P	PVC hydraulic end
S	316 hydraulic end
T	PVDF hydraulic end
Z	Special material hydraulic end.Consult CNP,indicate when ordering.

Port

Code	Description	GD030-050			GD055-130		
		PVC	PVDF	316	PVC	PVDF	316
P	NPT threaded port	----	----	1/2″F	1/2″F	1/2″F	1/2″F
Q	The inner pipe mouth hard tube intubation port	DN15	DN15	----	DN15	DN15	----
R	Intubation 6x12 Tube	6x12	6x12	----	----	----	----
X	Special port	Consult CNP,indicate when ordering.					

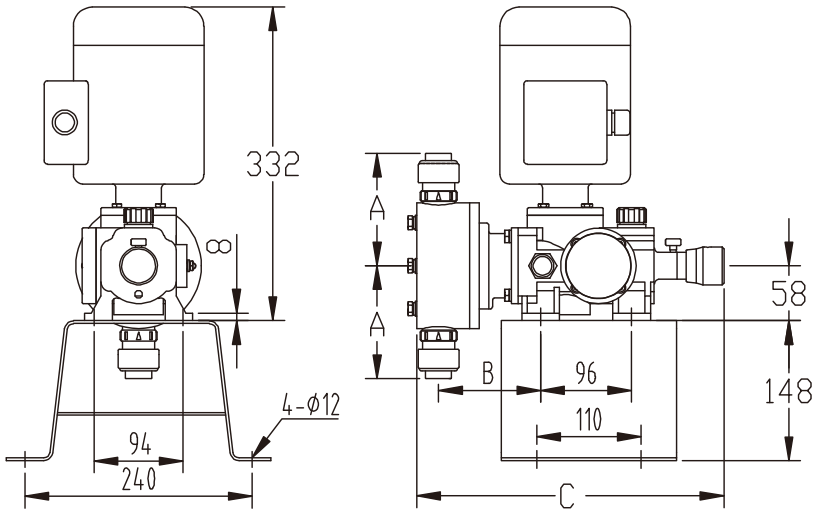
Motor

Code	Description
1	200W.1440rpm.3-50-380V. IP55/F/TEFC
2	200W.Capacitor start. 1440rpm.1-50-220V. IP55/F/TEFC
3	Others.Consult CNP,indicate when ordering.

Baseplate

Code	Description
N	No baseplate
Y	Baseplate

Dimension figure



Pump head material	GD030-050				GD055-130			
	Port code	A	B	C	Port code	A	B	C
PVC	P	101	91	301	P	119	108	327
	Q	101			Q	119		
	R	108			R			
PVDF	P	101	91	301	P	119	108	327
	Q	101			Q	119		
	R	108			R			
316	P	95	91	301	P	123	108	327
	Q				Q			
	R				R			

GMGB Series Mechanical Diaphragm Metering Pump

Main Function Parameter

⊙Single–head maximum flow: 1800L/H
⊙Maximum discharge pressure:12bar
⊙Regulating ratio 10:1,Steady precision ± 2%
⊙Suction lift:3m
⊙Maximum suction pressure: 2bar
⊙Maximum temperature: 40℃

Main features

Hydraulic end

⊙Disphram is mechannically driven, no diaphragm protecting plate at the material side,ripe for material getting through
⊙Many kind of pump head material like PVC,PVDF, 316SS,high viscosity,sizing agent,fit for all kinds of materials
⊙Self–cleaning one–way valve structure

Driving end

⊙Variable eccentric institutions regulation, insure flow pulsation gently vary
⊙Enhanced structure design, suitable for tough operation environment
⊙Wear–resisting ball bearings, running is more stable
⊙Oil bath lubrication, driving components have long working life
⊙Flow regulation in downtime or running state, adjustment mode can be selected manually, motor –driven or frequency conversion

Control mode

◆Electric stroke controller,accept external control signal, adjust stroke length
⊙Power supply: 220V–50Hz–single phase
⊙Input signal: 4–20mA analog signal
⊙Output signal: 4–20mA/1–5V analog signal,for records shown and control system usage
◆Variable frequency controller,accept external control signal,adjust stroke speed
⊙Power supply: 220V–50Hz–single phase/380–50Hz–three phase
⊙Input signal: 4–20mA analog signal
◆Motor controller,control three phase motor with mode "run/stop",adjust output flow
⊙Power supply: 200~240V–50/60Hz–single phase
⊙Control mode: can accept 4–20mA analog signal,external pulse signal or manual adjustment

Major Applications

⊙Municipal,industrial water and waste water,swimming pool etc. all kinds of water treatment process

Options

⊙Two diaphragm pump heads
Two diaphragm pump heads, broken pressure gauge detection and pressure switch detection
⊙Stroke count sensor
PNP output/NPN output/Relay output

The material of the main components of hydraulic end

⊙GM0002 ~ GM0050

Hydraulic end material	Hydraulic end cover	Valve body	Valve seat	Valve ball	Diaphragm	Seal ring	Connection
PVC	PVC	PVDF	PVDF	Ceramic	PTFE	Fluorous rubber	PVC
PVDF	PVDF	PVDF	PVDF	Ceramic	PTFE	PTFE	PVDF
316 SS	316 SS	316 SS	316 SS	316 SS	PTFE	Fluorous rubber	316 SS

⊙GM0090 ~ GM0500

Hydraulic end material	Hydraulic end cover	Valve body	Valve seat	Valve ball	Diaphragm	Seal ring	Connection
PVC	PVC	PVC	PVC	Glass	PTFE	Fluorous rubber	PVC
PVDF	PVDF	PVDF	PVDF	Ceramic	PTFE	PTFE	PVDF
316 SS	316 SS	316 SS	316 SS	316 SS	PTFE	Fluorous rubber	316 SS

⊙GB0080 ~ GB1200

Hydraulic end material	Hydraulic end cover	Valve body	Valve seat	Valve ball	Diaphragm	Seal ring	Connection
PVC	PVC	PVC	PVC	Ceramic	PTFE	Fluorous rubber	PVC
PVDF	PVDF	PVDF	PVDF	Ceramic	PTFE	PTFE	PVDF
316 SS	316 SS	316 SS	316 SS	316 SS	PTFE	Fluorous rubber/PTFE	316 SS

⊙GM1500–GM1800

Hydraulic end material	Hydraulic end cover	Valve body /Bush	Valve plate /Lift limit plate	Spring	Diaphragm	Seal ring	Connection
PVC	PVC	PVC/PVC	PVC/PVC	Hastelloy c	PTFE	Fluorous rubber	PVC
PVDF	PVDF	PVDF/PVDF	PVDF/PVDF	Hastelloy c	PTFE	PTFE	PVDF
316 SS	316 SS	316 SS /316 SS	316 SS /316 SS	Hastelloy c	PTFE	Fluorous rubber	316 SS

Accessory

Provide system required accessories as: Filter,Adjusting pillar,Buffer,Safety valve and Back pressure valve etc.,Safety valve is mandatory.
(GM0002~GM0050 range and pump with PVC/PVDF pump head,along with the dosing pump to provide injection valve, foot valve,counter weight and 6 meters tube,except the high viscosity pump head)

Standard configuration motor performance parameters

Power supply: 380V–50Hz–three phase/220V–50Hz–single phase
Protection grade: IP55
Insulation class: F
Explosion–proof motor,60Hz motor can be chosen.All the motors accord with international electrical association IEC standard or US electrical committee NEC standards

GM&GB series mechanical diaphragm metering pump product code and flow pressure table

Code: Series | Flow | Hydraulic end | Port | Motor | Adjustment | Baseplate | Option

Series

Code	Description
GM	GM series mechanical diaphragm dosing pump

Code	Description
GB	GB series mechanical diaphragm dosing pump

Flow

Code	LPH@Pmax	SPM	Pmax(bar)	Motor rate
GM0002	2.25	36	12	0.25kW[1]
GM0005	4.5	72		
GM0010	9	144		
GM0025	25	72		
GM0050	50	144	10	
GM0090	85	72	7	0.25kW[1] 0.37kW[2]
GM0120	115	72		
GM0170	170	144		
GM0240	235	144		
GM0330	315	144	5	0.37kW[1]
GM0400	400	144		
GM0500	500	180		

Code	LPH@Pmax	SPM	Pmax(bar)	Motor rate
GB0080	82	36	10	0.55kW 0.75kW[1]
GB0180	167	72		
GB0250	237	102		
GB0350	334	144		
GB0450	416	180		
GB0500	464	144	7	
GB0600	583	180		
GB0700	656	102	3.5	
GB1000	946	144		
GB1200	1200	180		0.75kW
GB1500	1500	180	3	
GB1800	1800	206		

1)This power is available for constant speed or frequency conversion,5~50Hz conversion need to use inverter motor;
2)This power is available for single phase and inverter motor.

Hydraulic end

Code	Description
P	PVC hydraulic end
S	316 hycraulic end
T	PVDF hydraulic end
F	NaCLO application:PVC hydraulic end*

Code	Description
V	High viscosity application,PVC hydraulic end
K	Sizing agent application,GM0025–0500;316hydraulic end;GB:PVC hydraulic end
M	Mixture application,GM:PVDF hydraulic end
Z	Special materials hycraulic end,consult CNP,indicate when ordering

(*),GM0002-0050:EPDM O ring;GM0090-0500,GB:PTFE covering O ring

Port

Code	Description	GM0002–0050			GM0090–0500			GB0080–0450			GB0500–1200			GB1500			GB1800		
		PVC	PVDF	316	PVC	PVDF	316	PVC	PVDF	316	PVC	PVDF	316	PVC	PVDF	316	PVC	PVDF	316
P	NPT threaded port	——	——	1/2"F	1/2"F	1/2"F	1/2"F	1/2"F	1/2"F	1/2"F	1"F	1"F	1"M	1"F	1"F	1–1/2"M	1–1/2"F	1–1/2"F	1–1/2"M
Q	The inner pipe mouth hard tube intubation port	DN15	——	——	DN15	——	——	DN15	——	——	DN25	——	——	DN40	——	——	——	——	——
R	Intubation 6 x 12 Tube	6 x 12	6 x 12[1]	——	——	——	——	——	——	——	——	——	——	——	——	——	——	——	——
H	GM tube High viscosity application dedication	15 x 23 9 x 12	——	——	DN15	——	——	——	——	——	——	——	——	——	——	——	——	——	——
X	Special port	Consult CNP,indicate when ordering																	

Dash area is standard configuration,firstly:high viscosity pump head V,sizing agent K,mixture pump head M,If no special optional,choose port according hydraulic end
(*),the default features configured tube is PVC material,if need PVDF ture (6m),order additionally,and enquiry to factory.

Motor

Code	Description (GM)	Description (GB)
1	250W,IEC71,1440rpm,3–50–220/380V,IP55/F/TEFC	550W,IEC71,1440rpm,3–50–220/380V,IP55/TEFC
2	1/3hp,NEMA 56C,1440rpm 3–50–220/380V,NEMA 3/TEFC	1hp,NEMA 56C,1440rpm,3–50–220/380V,NEMA 3/TEFC
3	370W,IEC71,1440rpm,3–50–220/380V, IP55/F/TEFC/Ex–dIIBT4	550W,IEC71,1440rpm,3–50–220/380V,IP55/F/TEFC/Ex–dIIBT4
4	370W,IEC71,1440rpm,3–50–220/380V,IP55/F/TEFC	750W,IEC80,1440rpm,3–50–220/380V,IP55/F/TEFC
5	250W Capacitor start type,IEC71,1440rpm,1–50–220V,IP55/F/TEFC	750W,IEC80,1440rpm,3–50–220/380V,IP55/F/TEFC/Ex–dIIBT4
6	250W,IEC71,1440rpm,3–50–200/400V,3–60–230/460V,IP55/F/TEFC	550W,Capacitor start type,IEC80,1440rpm,1–50–220V,IP55/F/TEFC
7	370W,IEC71,1440rpm,3–50–200/380V,3–60–230/460V,IP55/F/TEFC	750W,Capacitor start type,IEC80,1440rpm,1–50–220V,IP55/F/TEFC
8	——	550W,IEC80,1440rpm,3–50–220/380V,IP55/F/TEFC
9(5)	Pump default without motor,retain IEC71 port	Pump default without motor,retain IEC71 port
9(6)	370W Capacitor start type,IEC71,1440rpm,1–50–220V,IP55/F/TEFC	——
9(8)	——	Pump default without motor,retain IEC80 port
9	Other,pls consult CNP company	Other,pls consult CNP company

Single phase motor can not be used with the motor switch at the same time.

Adjustment

Code	Description (GM)	Description (GB)	Remarks
M	Manual stroke adjusting	Manual stroke adjusting	——
N	Electric stroke adjusting,4–20mA,220VAC–1Ph	Electric stroke adjusting,4–20mA,220VAC–1Ph	——
E	——	Electric stroke adjusting,4–20mA,220VAC–1Ph,Ex,Proof	——
F	Frequency conversion control	Frequency conversion control	——
T	Motor switch controller and electric stroke adjusting	——	Apply to GM series
P	Motor switch controller (1Ph–50Hz–220VAC)	——	Apply to GM series

Baseplate

Code	Description (GM)	Description (GB)	Remarks
N	No baseplate	No baseplate	——
Y	Baseplate(2)	Baseplate	——

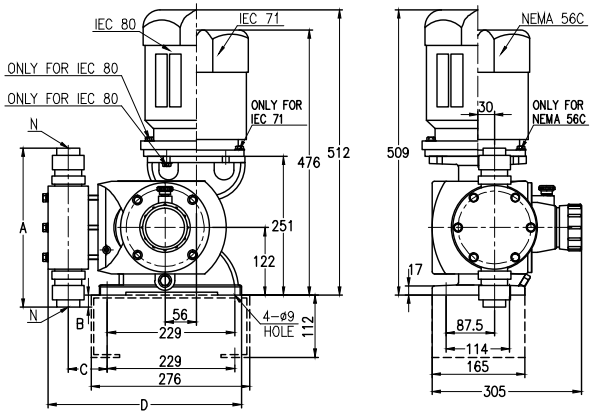
Options

Code	Description (GM)	Description (GB)	Remarks
N	No option	No option	——
A	Stroke count sensor	Stroke count sensor	——
B	The diaphragm rupture test and pressure gauge	The diaphragm rupture test and pressure gauge	Pressure gauge
C	The diaphragm rupture test and pressure gauge switch(2)	The diaphragm rupture test and pressure gauge switch	Normal pressure switch,including baseplate
D	The diaphragm rupture test and pressure gauge, explosion–proof pressure switch(2)	The diaphragm rupture test and pressure gauge, explosion–proof pressure switch	Normal pressure switch and pressuregauge, including baseplate
X	Other,pls consult CNP company	Other,pls consult CNP company	Special configuration indicated in the contract

Remarks: This code is used for G series dosing pump made by CNP,this code apply to the usage in marketing.
(2),GM series two diaphragm with pressure switch,default with baseplate,and should choose "N" in the options of baseplate

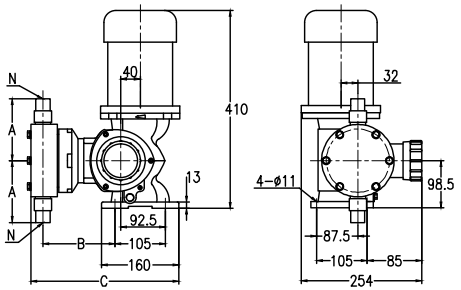
GB pump

Model / Size	GB40(80–450)		GB60(500–600)		GB80(700–1200)		GB80(1500)		GB80(1800)	
	Plastics	Metal	Plastics	Metal	Plastics	Metal	Plastics	Metal	Plastics	Metal
A	237	260	286	338	362	414	374	448	420	458
B	5	4	19	46	59	85	64	100	87	102
C	60.3	60.3	71.4	76.2	96.4	100	96.4	100	96.4	100
D	333	333	351.2	348	373.1	373.1	373.1	373.1	373.1	373.1
N	1.2"F NPT	1/2"F NPT	1"F NPT	1"M NPT	1"F NPT	1"M NPT	1"F NPT	1 1/2"M NPT	1 1/2"F NPT	1 1/2"M NPT
	DN15 (PVC pump head only)	——	DN25 (PVC pump head only)	——	DN25 (PVC pump head only)	——	——	——	——	——



GM pump

Pump head / Material	GM0002 - GM0050				GM0090 - GM0500			
	Port code	A	B	C	Port code	A	B	C
PVC	P	108	116	250	Q	127	159	322
PVDF	P	108			N	131		
316	N	102			N	131		



GX Series Mechanical Diaphragm Metering Pump

Technical Data:

Single-end maximum Flow Rate:2100L/h
Maximum discharge pressure:9bar
Regulating ratio:10:1
Steady precision: ±2%
Suction lift:2.5M
Maximum temperature:40°C

Main features

◎Diaphragm is mechanically driven, no diaphragm protecting plate at the material side, easy to let material getting through.
◎Many kind of pump head material like PVC,PVDF,316SS, high viscosity, sizing agent,fit for all kinds of materials.
Self-cleaning one-way valve structure.
◎variable eccentric institution regulation , insure flow pulsation gently vary. Suitable for tough operation environment.
◎Oil bath lubrication, driving components have long working life.
◎Flow regulation in downtime or running state.

Major Applications

◎municipal , industrial water and waste water, swimming pool etc.
◎Petrochemical industry,chemical industry, Electricity,Metallurgy,Pharmacy,Food industry,etc.

Main components material of hydraulic end

Hydraulic end material	Pump head	Pump body	Valve seat	Valve ball	Diaphragm	Oring	Connection
PVC	PVDF	PVC	PVDF	Ceramic/PVDF	PTFE	Fluorous rubber	PVC
PVDF	PVDF	PVDF	PVDF	Ceramic/PVDF	PTFE	Fluorous rubber	PVDF
316SS	316SS	316SS	Hastelloy C	316SS	PTFE	Fluorous rubber	316SS

Control mode

◎Power supply:380V/220V -50Hz/60Hz/single phase/three phase.
◎Variable frequency controller,accept external control signal,adjust stroke speed.Input signal:4-20mA analog signal.
◎Motor controller,control three phase motor with mode "run/stop", adjust output flow.

GX series mechanical diaphragm metering pump product code and flow pressure gauge

Code	Series	Flow Rate	Hydraulic end	Port	Motor
	GX				

Series

Code	Description
GX	GX series mechanical diaphragm metering pump

Flow rate

Code	LPH@Pmax	Pmax(Mpa)	SPM (min-1)	Stroke(mm)	Motor power(kw)	Weight(kg)
GX900	910	0.6(PVC/PVCDF)	89	20	1.5	75±10
	910	0. 8(316SS)	89			
GX1350	1350	0.6(PVC/PVCDF)	130			
	1350	0. 8(316SS)	130			
Gx1800	1820	0.6	178			
GX2100	2100	0.6	203			

Hydraulic end

Code	Description
P	PVC hydraulic end
T	PVDF hydraulic end
S	316SS hydraulic end

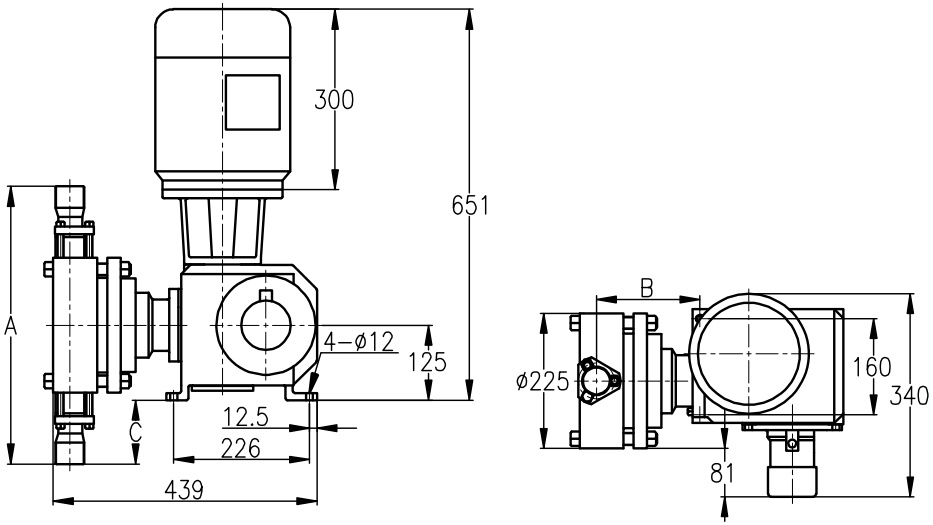
Port

Code	Description	GX 900			GX1350/1800/2100		
		PVC	PVDF	316	PVC	PVDF	316
P	NPT threaded port	1" F	1" F	1" M	1/2" F	1-1/2" F	1-1/2" F
Q	The inner pipe mouth hard tube intubation port	DN25	DN25	----	----	----	----
X	Special port	Consult CNP,indicate when ordering.					

Motor

Code	Description
1	Three-phase 200V/380V..1440rpm. IP55/F
2	220V.50Hz. 1440rpm.1-50-220V. IP55/F
3	Three-phase explosion-proof 220/380V.50Hz.1440rpm.IP55/F,DIIBT4
4	Three-phase frequency conversion 220/380V.50Hz.1440rpm.IP55/F
5	Pump default without motor, retain IEC90 port.
6	Other motors. Consult CNP,indicate when ordering.

Dimension figure



Pump head material	GX900				GX1350/1800/2100			
	Port code	A	B	C	Port code	A	B	C
PVC	P	362	165.5	56	P	420	165.5	85
	Q	362	165.5	56	Q	420	165.5	85
PVDF	P	362	165.5	56	P	420	165.5	85
	Q	362	165.5	56	Q	420	165.5	85
316SS	P	433	172.5	91.5	P	462	172.5	106

GH Series Hydraulic Diaphragm Metering Pump

Technical Data:

Maximum Flow Rate: 500L/h
Maximum discharge pressure:40bar
Regulating ratio:10:1
Steady precision: ±2%
Suction lift:3M

Main features

Driving end

◎Eccentric institutions drive, compact structure, less space required;
◎Unique worm / gear structure ensure the steady working of the mechanical parts.
◎The tampered roller bearings at the end of gear ensure stable operation under heavy load for a long time.
◎Oil bath lubrication, change oil regularly, no need special maintenance for lubrication system.
◎All the working components are oil bath, they have long working life.
◎Flow regulation in downtime or running state. Adjustment mode can be selected manually,motor-driven,pneumatic-driven or frequency conversion.

Control mode

Hydraulic end

◎Diaphragm is hydraulic -driven,long service life.
◎The high precision design of one way check valve ensure the accuracy of the pump.
◎The built-in structure of pressure relief valve will protect pump head and diaphragm automatically.
◎Many kind of pump head material like PVC, PVDF,316SS,Alloy 20 ,Hadtelloy Alloy,suit for variable materials.
◎Option: pressure double diaphragm leak detection (local/long-distance) alarm.

Major Applications

◎Petrochemical industry,chemical industry, refinery process
◎Power plant boiler water treatment

GH series hydraulic diaphragm dosing pump product code

	Series	Flow Rate			Pressure	Material	Motor	Port	Adjustment	Detection	Baseplate
Code	GH										

Series

Code	Description
GH	GH Series hydraulic diaphragm metering pump

Flow rate

e. g. 025 stand for the flow rate is 25l/h

Pressure

Code	G	A	B	C	D	E	F
Implication	40 bar	30 bar	25 bar	20 bar	15 bar	12 bar	10 bar

Hydraulic end

Code	P	S	T	A	B
Material	PVC	316SS	PVDF	Alloy20	Alloy22

Motor

Code	Description
1	550W.IEC71，1440rpm. 3-50-220/380V. IP55/F/TEFC
2	550W.IEC80，1440rpm.1-50-220V. IP55/F/TEFC
3	550W.IEC71，1440rpm. 3-50-220/380V. IP55/F/TEFC/Ex-dIIBT4
4	750W.IEC80，1440rpm.3-50-220/380V. IP55/F/TEFC
5	750W.IEC80，1440rpm.1-50-220V. IP55/F/TEFC
6	750W.IEC80，1440rpm.3-50-220/380V. IP55/F/TEFC/Ex-dIIBT4
7	Pump default without motor, retain IEC71 port.
8	Pump default without motor, retain IEC80 port.

Adjustment

Code	Description
M	Manual stroke adjusting
N	Manual stroke adjusting,4-20mA,220VAC-1Ph
E	Electric stroke adjusting 4-20mA,220VAC-1Ph,Ex,Proof
F	Frequency conversion control，（0.55kw increase to 0.75kw, no 0.75KW）

Port

Code	Description	
P	NPT threaded port	1/2"F
Q	The inner pipe mouth hard tube intubation port	DN15(PVC hydraulic end only)
X	Special port	Consult CNP,indicate when ordering.

Detection

Code	Description	Note
N	No detection	Single hydraulic diaphragm
B	Diaphragm break detection and pressure gauge	Double hydraulic diaphragm
C	Diaphragm break detection, pressure gauge and explosion-proof pressure switch	

Baseplate

Code	Description
N	No baseplate
Y	Baseplate

Remarks: (1)This code is used for GH series dosing pump made by CNP, this code apply to the usage in marketing;
(2)Beyond (less or more than) the flow or pressure range in the catalogue, or beyond the content , please consult CNP.

GH series hydraulic diaphragm metering pump flow pressure gauge

Series	plunger diameter	Stroke (mm)	Code	Speed Ratio	SPM	LPH@Pmax	Pmax(bar)	Motor power(KW)
GH	Φ30mm	16mm	GH015G	40:1	36	15	40	0.55
			GH030G	20:1	72	30	40	
			GH040G	14:1	102	40	40	
			GH060G	10:1	144	60	40	
			GH080G	8:1	180	80	40	0.75
			GH090G	7:1	206	90	40	
	Φ35mm		GH025A	40:1	36	25	30	0.55
			GH050A	20:1	72	50	30	
			GH075A	14:1	102	75	30	
			GH105A	10:1	144	105	30	
			GH130A	8:1	180	130	30	0.75
			GH145A	7:1	206	145	30	
	Φ40mm		GH032B	40:1	36	32	25	0.55
			GH065B	20:1	72	65	25	
			GH100B	14:1	102	100	25	
			GH125B	10:1	144	125	25	
			GH150B	8:1	180	150	25	0.75
			GH200B	7:1	206	200	25	
	Φ45mm		GH045C	40:1	36	45	20	0.55
			GH090C	20:1	72	90	20	
			GH130C	14:1	102	130	20	
			GH190C	10:1	144	190	20	
			GH220C	8:1	180	220	20	0.75
			GH270C	7:1	206	270	20	
	Φ50mm		GH060D	40:1	36	60	15	0.55
			GH120D	20:1	72	120	15	
			GH160D	14:1	102	160	15	
			GH230D	10:1	144	230	15	
			GH300D	8:1	180	300	15	0.75
			GH340D	7:1	206	340	15	
	Φ55mm		GH070E	40:1	36	70	12	0.55
			GH140E	20:1	72	140	12	
			GH200E	14:1	102	200	12	
			GH280E	10:1	144	280	12	
			GH360E	8:1	180	360	12	0.75
			GH400E	7:1	206	400	12	
	Φ60mm		GH085F	40:1	36	85	10	0.55
			GH170F	20:1	72	170	10	
			GH240F	14:1	102	240	10	
			GH350F	10:1	144	350	10	
			GH450F	8:1	180	450	10	0.75
			GH500F	7:1	206	500	10	

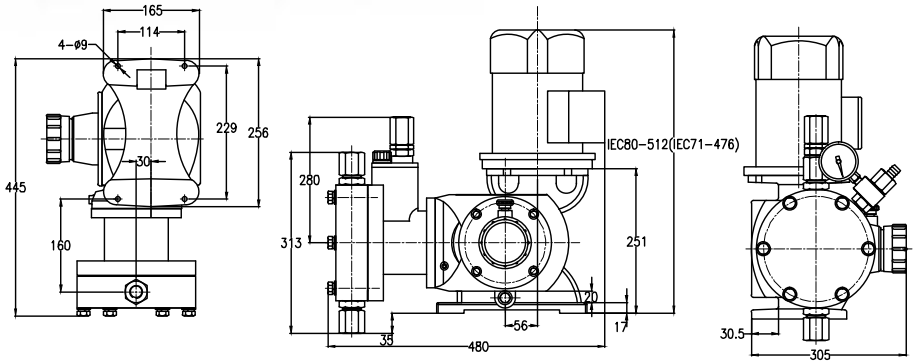
Remarks :The Speed Ratio in the gauge refers to nominal Speed Ratio

The Pmax of plastic hydraulic end is less than 10 bar.

Accessory

Provide system required accessories as:Filter,Buffer,Safety valve and Back pressure valve etc.

Dimension figure



FROY Series Hydraulic Diaphragm Metering Pump

Technical Data:

Maximum Flow Rate: 659L/H
Maximum discharge pressure: 211bar
Regulating ratio: 10:1
Steady precision：±1%
Suction lift:3m

Main features

Hydraulic end:

◎Eccentric institutions drive,compact structure,compact , less space required;
◎Unique worm and gear structure ensure the steady working of the mechanical parts.
◎The tampered roller bearings at the end of gear ensure stable operation under heavy load for a long time.
◎Oil bath lubrication, change oil regularly, no need special maintenance for lubrication system. All the working components have long working life.
◎Flow regulation in downtime or running state.
◎Adjustment mode can be selected manually,motor-driven,pneumatic-driven or frequency conversion.

Hydraulic end

◎Diaphragm is pneumatic-driven,long service life.
◎The design of one way check valve promotes the accuracy of the pump.
◎The built-in structure of pressure relief valve will protect pump head and diaphragm automatically.
◎Many kind of pump head material like PVC,PVDF,316SS,Alloy 20 ,Hadtelloy Alloy
◎Option: Double-end parallel, each end's flow rate can be adjusted individually.
◎Option: Pressure double diaphragm leak detection(local/long-distance) alarm

Major Applications:

◎Petrochemical /Chemicals/Petroleum Refining Industry
◎Water treatment of utility boiler

FROY series hydraulic diaphragm metering pump product code and flow pressure gauge

Code	Series	Flow Rate	Material	Pressure	Motor	Port	Adjustment	Detection	Baseplate
	FROY								

Series

Code	Implication	Remark	Code	Implication	Remark
A	FRoyA	1-1/16" 7/16" 5/8"Plunger,low pressure, flow rate up to 116L/h,pressure up to 24bar	D	FRoyD	1-7/16"Plunger,dual-head pump, flow rate up to 659L/h, pressure up to 24bar
H	FRoyH	7/16" Plunger,high pressure, flow rate up to 17L/h,pressure up to124bar	T	FRoyT	11/32" Plunger, flow rate up to 7.1L/h,pressure up to 211bar
P	FRoyP	7/16" 5/8" 1-1/16"Plunger,suitable for medium with high viscosity, flow rate up to 68L/h,pressure up to 24bar	W	FRoyW	½" Plunger, flow rate up to 30L/h,pressure up to 211bar
B	FRoyB	19/32" 7/8" 1-7/16"Plunger,flow rate up to 329L/h,pressure up to 103bar			

Flow rate

Code		001	002	003	004	005	006	007	008	009	010	011	012	014	015	020	025	030	035	040	050	060	070	090	120	170	180	260	270	330	360	530	660
P	$Q^{(1)}$	1.6	2.3			5.0			7.9			11			18	22			35		55		68											
	P_{max}	24bar																															
A	$Q^{(1)}$		2.3			5.0			7.9							19				39		61		94	116								
	P_{max}	metallic material:24bar,non-metallic material:10bar																						metallic material:14bar,non-metallic material:10bar									
B	$Q^{(1)}$															22		30		42	55			96	125		179		267	329			
	P_{max}	non-metallic material:10bar,metallic material: bar														103		103		103	103			67	67		28		28	28			
D	$Q^{(1)}$																									170		264			358	534	659
	P_{max}	non-metallic material:10bar,metallic material: bar																								24		24			17	17	17
H	$Q^{(1)}$		1.8	2.5		5.3[3]			8.8[3]					14[3]	17[3]																		
	P_{max}	124bar																															
T	$Q^{(1)}$	1.2	2.3		3.8		6.0	7.1																									
	P_{max}	211bar																															
W	$Q^{(1)}$								7.8				12		16		25	30															
	P_{max}	211bar																															

(1)Rated flow: l/h@7bar; others: @Pmax (2) If viscosity <1460cp.please choose RH pump. (3)The flow rate of double diaphragm pump will decrese10%

Material

Code	Implication	FRoyA	FRoyP	FRoyH	FRoyB/D	FRoyT	FRoyW	
S	316SS	Y	Y	Y	Y	Y	Y	
A	Alloy20	Y	Y	Y	Y	---	---	
B	Alloy22	Y	---	---	---	---	---	
P	PVC	Y[1]	---	---	Y[2]	---	---	(1) N/AforQ>57l/h,(2)N/AforQ≤55l/h
T	PVDF	Y[1]	---	---	Y[2]	---	---	(1) N/AforQ>57l/h,(2)N/AforQ≤125l/h

Pressure

Code	010	014	017	024	028	067	103	124	211
Implication	10bar	14bar	17bar	24bar	28bar	67bar	103bar	124bar	211bar

Motor

Code		Implication	Code		Implication	A	H	P	B	D	T	W	Remark
normal motor	A	direct connection,IEC71,0.25KW	EX motor	G	direct connection,IEC71,0.25KW,ExdIIBT4	Y	Y	Y	---	---	---	---	1425rpm, 3-50--380v, Ip55, F, TEFC, B5
	P	direct connection,IEC71,0.37KW		S	direct connection,IEC71,0.37KW,ExdIIBT4	Y	Y	Y	---	---	---	---	
	B	API flange,IEC71,0.25KW		H	API flange,IEC71,0.25KW,ExdIIBT4	Y	Y	Y	---	---	---	---	
	Q	API flange,IEC71,0.37KW		T	API flange,IEC71,0.37KW,ExdIIBT4	Y	Y	Y	---	---	---	---	
	C	API flange,IEC80,0.55KW		J	API flange,IEC80,0.55KW,ExdIIBT4	---	---	---	Y	---	Y	---	
	D	API flange,IEC80,0.75KW		K	API flange,IEC80,0.75KW,ExdIIBT4	---	---	---	Y	Y	---	---	
	E	API flange,IEC90,1.1KW		L	API flange,IEC90,1.1KW,ExdIIBT4	---	---	---	Y	Y	---	Y	
	F	API flange,IEC90,1.5KW		M	API flange,IEC90,1.5KW,ExdIIBT4	---	---	---	---	---	---	Y	
X		Others, please consult CNP,indicate when ordering											Special motor

Port

Code	Implication	A	H	P	B	D	T	W	Remark
1	Inlet:NPT internal thread 1/2",Outlet:NPT internal thread 1/4", 3/8"used for specifications above RB070 (include RB070)	Y	Y	Y	Y	Y	Y	Y	Metal pump head
2	Inlet:ANSI 150# RF1/2" socket welding flange,Outlet:ANSI 150# RF1/2' socket welding flange	Y	---	Y	Y	Y	---	---	
3	Inlet:ANSI 150# RF1/2" socket welding flange,Outlet:ANSI 300# RF1/2' socket welding flange	Y	---	Y	Y	Y	---	---	
4	Inlet:ANSI 150# RF1/2" socket welding flange,Outlet:ANSI 600# RF1/2' socket welding flange	---	Y	---	Y	---	---	---	
5	Inlet:ANSI 150# RF1/2" socket welding flange,Outlet:ANSI 900# RF1/2' socket welding flange	---	Y	---	---	---	---	---	
6	Inlet:ANSI 150# RF1/2" socket welding flange,Outlet:ANSI 1500# RF1/2' socket welding flange	---	---	---	---	---	Y	Y	
7	Inlet:NPT1/2" external thread; Outlet:NPT1/2" external thread	Y	---	---	---	---	---	---	Plastic pump head
	Inlet:NPT1/2" internal thread ; Outlet:NPT3/8" internal thread	---	---	---	Y	Y	---	---	
8	ANSI 150#RF1/2"threaded flange	Y	---	---	Y	Y	---	---	
9	Others, please consult CNP,indicate when ordering								

Adjustment

Code	Implication	A	H	P	B	D	T	W	Remark
M	Manual stroke adjusting-PVC/Al	Y	Y	Y	Y	Y	---	---	
S	Manual stroke adjusting-316SS	Y	Y	Y	Y	Y	Y	Y	
E	Electric stroke adjusting,NEMA4-20mA,220V	Y	Y	Y	Y	---	---	---	
F	Electric stroke adjusting,explosion-proof,4.4-20mA,220V	Y	Y	Y	Y	---	---	---	
P	Pneumatic stroke adjusting,0.2-1bar,direct adjustment	Y	Y	Y	Y	---	---	---	
V	Electric stroke adjusting4-20mA,220V/Manual	Y	Y	Y	Y	Y	Y	Y	

Detection

Code	Implication	A	H	P	B	D	T	W	Remark
N	No detection	Y	Y	Y	Y	Y	Y	Y	nonmetallic pump head, no detection option.
B	The diaphragm rupture test and pressure gauge(include baseplate) The diaphragm rupture	Y	*	Y	Y	Y	---	---	
C	The diaphragm rupture test and pressure gauge, NEMA4 pressure switch(include baseplate) test will result in 5%	Y	*	Y	Y	Y	---	---	
D	The diaphragm rupture test and pressure auge, explosion-proof pressure switch (include baseplate) decrease of flow rate.	Y	*	Y	Y	Y	---	---	

The 005,009 and 015 series of RH pumps can choose double diaphragm, but the flow rate will decrease 10%.

Baseplate

Code	Implication	A	H	P	B	D	T	W	Remark
N	No baseplate	Y	Y	Y	Y	Y	Y	Y	
Y	Baseplate		Y	Y	Y	Y	---	---	

Remarks: 1.This code is used for FROY series dosing pump made by CNP, this code apply to the usage in marketing.
2.The red "Y" refer to standard configuration, any circumstance out of range of the gauge above, please consult CNP.
3.If you choose the option of diaphragm rupture test, the option of baseplate should be "Y".

Main components material of Pump head

Hydraulic end material	Pump head	Valve body	Valve seat	Valve ball	Diagram	Seal ring	Spring
PVC	PVC	PVC	PVDF	Ceramic	PTFE	Fluorous rubber	_
PVDF	PVDF	PVDF	PVDF	Ceramic	PTFE	Fluorous rubber	_
316SS	316SS	316SS	316SS	316SS	PTFE	Fluorous rubber	316SS
Alloy20	Alloy20	Alloy20	Alloy20	Alloy20	PTFE	Fluorous rubber	HastelloyC276
HastelloyC22	HastelloyC22	HastelloyC22	HastelloyC22	HastelloyC22	PTFE	Fluorous rubber	HastelloyC276

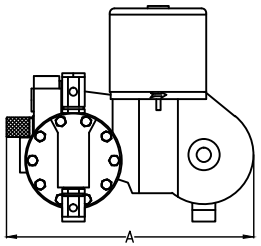
Accessory

Provide system required accessories as:Filter,Buffer,Safety valve and Back pressure valve etc.

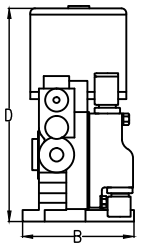
The outline drawing of FROY series hydraulic diaphragm metering pump

Product Dimensions

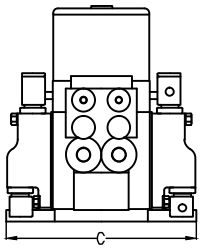
Series	A(mm)	B(mm)	C(mm)	D(max)(mm)
RA,RH,RP	302	152	267	609
RB	476	192	343	650
RT	384	165	N/A	497
RW	567	204	N/A	705



Side view of single-head pump & double-head pump



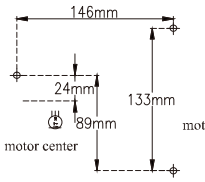
Front view of single-head pump



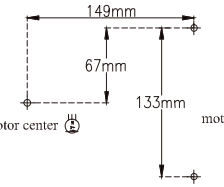
Front view of double-head pump

Footing size

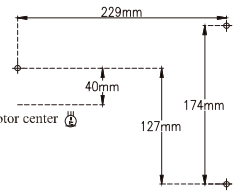
RA, RH, RP, RT
single-head pump



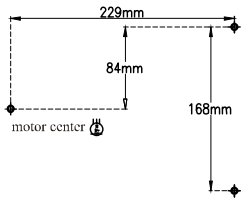
RA, RH, RP, RT
double-head pump



RB、RW
single-head pump



RB、RW
double-head pump



FROY series hydraulic diaphragm metering pump flow rate and pressure gauge

Series	Plunger diameter	Stroke (mm)	Model	Speed Ratio	SPM(ref) 1425rpm	Maximum Consistency CP	Metal pump head(l/h)-1425rpm				Plastic pump head		motor
							7bar	14bar	20bar	24bar	7bar	10bar	
A	7/16" (Φ11.1mm)	20.8 mm	RA002	48:1	30	1760	2.3	2.2	2.1	2.0			0.25kw
			RA008	15:1	96	310	7.9	7.7	7.3	7.2			
	5/8" (Φ15.9mm)		RA005	48:1	30	1760	5.0	4.7	4.5	4.4			
	1-1/16" (Φ27.0mm)		RA020	48:1	30	150	19	19	18	17	18	18	
			RA040	24:1	60	75	39	38	36	36	36	35	
			RA060	15:1	96	40	61	60	58	57	57	57	
			RA090	9.5:1	152	35	94	91	----	----	----	----	
			RA120	8:1	178	30	116	112	----	----	----	----	

Series	Plunger diameter	Stroke (mm)	Model	Speed Ratio	SPM(ref) 1425rpm	Maximum Consistency CP	Metal pump head(l/h)-1425rpm						Plastic pump head		motor
							7bar	17bar	24bar	28bar	67bar	103bar	7bar	10bar	
B	19/32"(3) (Φ15.1mm)	40.6 mm	RB020	25:1	60	102	22	22	21	21	19	18	----	----	Standard Configuration is 0.75kw 1.1kw is optional when regulating speed.
			RB030	19:1	80	74	30	29	28	28	22	22	----	----	
			RB040	12:1	120	44	42	40	40	40	38	36	----	----	
			RB050	9.5:1	152	38	55	54	53	53	49	47	----	----	
	7/8" (Φ22.2mm)		RB070	19:1	80	169	66	64	62	61	50	----	66	66	
			RB090	12:1	120	114	96	94	92	91	80	----	96	95	
			RB120	9.5:1	152	88	125	122	120	119	105	----	125	124	
	1-7/16" (Φ36.5mm)		RB180	19:1	80	58	179	171	166	160	----	----	179	176	
			RB270	12:1	120	34	267	259	254	248	----	----	267	264	
			RB330	9.5:1	152	26	329	318	310	303	----	----	329	326	
D	1-7/16" (double-head B) (Φ36.5mm)		RD170	38:1	40	100	170	152(1)	142(1)	----	----	----	170	163	
			RD260	25:1	60	80	264	246(1)	236(1)	----	----	----	264	258	
			RD360	19:1	80	58	358	340(2)	----	----	----	----	358	352	
			RD530	12:1	120	34	534	516(2)	----	----	----	----	534	528	
			RD660	9.5:1	152	26	659	639(2)	----	----	----	----	659	651	

(1)The maximum pressure is 24bar. (2) The maximum pressure is 17bar. (3)Metal pump head only.

Series	Plunger diameter	Stroke (mm)	Model	Speed Ratio	SPM(ref) 1425rpm	Maximum Consistency CP	Metal pump head(l/h)-1425rpm						motor
							7bar	28bar	55bar	83bar	103bar	124bar	
H	7/16" (Φ11.1mm)	20.8 mm	RH002	77:1	19	2660	1.8	1.7	1.6	1.4	1.4	1.2	0.25kw
			RH003	48:1	30	1760	2.5	2.2	1.9	1.9	1.9	1.9	
			RH005	24:1	60	720	5.3	5.0	4.7	4.4	4.1	3.8	
			RH009	15:1	96	310	8.8	8.2	7.9	7.2	6.6	6.3	
			RH014	9.5:1	152	210	14.0	12.9	12.6	11.4	10.4	9.7	
			RH015	8:1	178	180	17.0	15.8	15.4	13.9	12.7	12.0	

Series	Plunger diameter	Stroke (mm)	Model	Speed Ratio	SPM(ref) 1425rpm	Maximum Consistency CP	Metal pump head(l/h)-1425rpm				Plastic pump head	motor
							7bar	14bar	20bar	24bar		
P:High viscosity application	7/16" (Φ11.1mm)	20.8 mm	RP001	77:1	19	12200	1.6	1.6	1.5	1.5		0.25kw
			RP002	48:1	30	7500	2.3	2.2	2.1	2.0		
			RP008	15:1	96	2000	7.9	7.7	7.3	7.2		
	5/8" (Φ15.9mm)		RP005	48:1	30	5000	5.0	4.7	4.5	4.4		
			RP011	24:1	60	2500	11.0	10.7	10.3	10.0		
			RP015	15:1	96	1250	17.6	17.0	16.7	16.0		
			RP020	12:1	120	600	21.9	21.1	20.7	19.9		
	1-1/16" (Φ27.0mm)		RP035	24:1	60	1000	34.6	33.9	32.1	31.1		
			RP050	15:1	96	500	55.0	54.4	52.2	50.9		
			RP070	12:1	120	300	68.4	67.6	64.9	63.3		

Series	Plunger diameter	Stroke (mm)	Model	Speed Ratio	SPM(ref) 1425rpm	Maximum Consistency CP	Metal pump head(l/h)-1425rpm			motor
							140bar	175bar	211bar	
T	11/32" (Φ8.7mm)	20.8 mm	RT001	48:1	30	1760	1.4	1.3	1.2	0.55kw
			RT002	24:1	60	700	2.8	2.5	2.3	
			RT004	15:1	96	337	4.3	4.0	3.8	
			RT006	9.5:1	152	143	6.8	6.4	6.0	
			RT007	8:1	180	95	8.1	7.6	7.1	
W	1/2" (Φ12.7mm)	40.6 mm	RW008	38:1	40	650	8.8	8.4	7.8	1.1kw
			RW012	25:1	60	285	13.5	12.6	11.9	
			RW015	19:1	80	160	18.3	17.0	15.8	
			RW025	12:1	120	43	29.0	27.1	25.2	1.5kw
			RW030	9.5:1	152	41	34.1	31.9	29.7	

Remarks : 1.The Speed Ratio above is nominal.
2. The parts which font is blod and italic ,the flow rate is rated.

JX Series Plunger Metering Pump

Technical Data:

Single-end Maximum Flow Rate:940L/h
Maximum discharge pressure:50MPa
Regulating ratio:10:1
Steady precision：±1%
Suction lift:：2.5m
Medium temperature:-10°C-100°C
Maximum ambient temperature:40°C
Maximum Altitude:1000m

Main features

◎Solid and compact structure,pump head size is small, optimizable connection.
◎High volumetric efficiency
◎High measure precision and steady precision can reach ±1%.
◎Fit for high pressure environment, it can convey media with high viscosity. Corrosive medium and dangerous chemicals are not recommended.
◎Variable eccentric institution regulation, insure flow pulsation gently vary.
◎The application of imported hydraulic composite seal enables the good performance of leak-proof and long service life.

Control Mode:

◎Power supply:380V/220V -50Hz/60Hz/single phase/three phase
◎Variable frequency controller,accept external control signal,adjust stroke speed; input signal:4-20mA analog signal.
◎Motor controller,control three phase motor with mode"run/stop", adjust output flow..

Major Applications:

◎Petrochemical /Electricity/Metallurgy/Pharmaceuticals Industry /Food Industry, Especially outstanding in the area of high precision, high pressure, high temperature.

Main components material of hydraulic end

Hydraulic end material	Pump head material	Valve seat/ Valve body	Valve bal	Plunger	Filler	Oring
304SS	304SS	304SS	316SS/Ceramic	316SS+Ceramic	Fluorous rubber	Fluorous rubber
316SS	316SS	316SS	316SS/Ceramic	316SS+Ceramic	Fluorous rubber	Fluorous rubber

JX series series plunger metering pump product code

	Series	Flow Rate pressure	Hydraulic end	Port	Motor
Code	JX				

Series

Code	Description
JX	JX series plunger metering pump

Flow rate /Pressure

Code	LPH@Pmax (L/h)	Pmax(Mpa)	Plunger diameter (mm)	SPM (min-1)	Stroke (mm)	Motor (kw)	Weight (kg)
JX940/0.9	940	0.9	90	130	20	1.5	87
JX940/0.7		0.7				1.1	
JX940/0.5		0.5				0.75	
JX840/1.1	840	1.1	85			1.5	
JX840/0.8		0.8				1.1	
JX840/0.5		0.5				0.75	
JX740/1.2	740	1.2	80			1.5	
JX740/0.9		0.9				1.1	
JX740/0.6		0.6				0.75	
JX650/1.4	650	1.4	75			1.5	
JX650/1.0		1				1.1	
JX650/0.7		0.7				0.75	
JX570/1.6	570	1.6	70			1.5	
JX570/1.1		1.1				1.1	
JX570/0.8		0.8				0.75	
JX490/1.8	490	1.8	65			1.5	
JX490/1.3		1.3				1.1	
JX490/0.9		0.9				0.75	
JX410/2.1	410	2.1	60			1.5	82
JX410/1.6		1.6				1.1	
JX410/1.1		1.1				0.75	
JX360/2.4	360	2.4	56			1.5	
JX360/1.8		1.8				1.1	
JX360/1.2		1.2				0.75	
JX280/3.1	280	3.1	50			1.5	
JX280/2.2		2.2				1.1	
JX280/1.5		1.5				0.75	
JX230/3.8	230	3.8	45			1.5	
JX230/2.8		2.8				1.1	
JX230/1.9		1.9				0.75	
JX180/4.8	180	4.8	40			1.5	
JX180/3.5		3.5				1.1	
JX180/2.4		2.4				0.75	
JX140/6.2	140	6.2	35			1.5	
JX140/4.6		4.6				1.1	
JX140/3.1		3.1				0.75	

Flow rate /Pressure

Code	LPH@Pmax (L/h)	Pmax(Mpa)	Plunger diameter (mm)	SPM (min-1)	Stroke (mm)	Motor (kw)	Weight (kg)
JX100/8.5	100	8.5	30	130	20	1.5	82
JX100/6.2		6.2				1.1	
JX100/4.2		4.2				0.75	
JX70/12.0	70	12	25			1.5	
JX70/8.8		8.8				1.1	
JX70/6.0		6				0.75	
JX55/15.8	55	15.8	22			1.5	78
JX55/11.7		11.7				1.1	
JX55/8.0		8				0.75	
JX45/19	45	19	20			1.5	
JX45/13.9		13.9				1.1	
JX45/9.5		9.5				0.75	
JX35/23.5	35	23.5	18			1.5	
JX35/17.0		17				1.1	
JX35/12.0		12				0.75	
JX25/34.0	25	34	15			1.5	
JX25/25.0		25				1.1	
JX25/17.0		17				0.75	
JX15/50.0	15	50	12			1.5	
JX15/36.0		36				1.1	
JX15/25.0		25				0.75	
JX10/50.0	10	50	10			1.5	
JX10/36.0		36				1.1	
JX10/25.0		25				0.75	

Hydraulic end

Code	Description
S	304SS
L	316SS

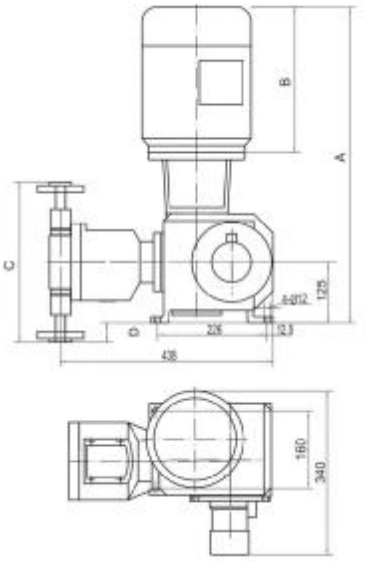
Port

Code	Description	JX10-55	JX70-410	JX490-940
P	NPT threaded port	1/2″M	1/2″F	1″F
F	Flange port	DN15	DN20	DN25
K	Cutting sleeve	DN10	DN15	None
X	Special port	Consult CNP,indicate when ordering		

Motor

Code	Description
1	Three-phase 200V/380V..1440rpm. IP55/F
2	200V.50Hz. 1440rpm.1-50-220V. IP55/F
3	Three-phase explosion-proof 220/380V.50Hz.1440rpm.IP55/Ex-dIIBT4
4	Three-phase frequency conversion 220/380V.50Hz.1440rpm.IP55/F
5	Pump default without motor, retain IEC90 port.
6	Other motors. Consult CNP,indicate when ordering.

Dimension figure



Installation dimension of JX series plunger metering pump

Model	A	B	C	D	Power (kw)	Weight (kg)
JX940/0.9	655	300	360	55	1.5	88
JX940/0.7	635	280	360	55	1.1	
JX940/0.5	615	260	360	55	0.75	
JX840/1.1	655	300	360	55	1.5	
JX840/0.8	635	280	360	55	1.1	
JX840/0.5	615	260	360	55	0.75	
JX740/1.2	655	300	360	55	1.5	
JX740/0.9	635	280	360	55	1.1	
JX740/0.6	615	260	360	55	0.75	
JX650/1.4	655	300	360	55	1.5	
JX650/1.0	635	280	360	55	1.1	
JX650/0.7	615	260	360	55	0.75	
JX570/1.6	655	300	360	55	1.5	
JX570/1.0	635	280	360	55	1.1	
JX570/0.8	615	260	360	55	0.75	
JX490/1.8	655	300	360	55	1.5	
JX490/1.3	635	280	360	55	1.1	
JX490/0.9	615	260	360	55	0.75	

Installation dimension of JX series plunger metering pump

Model	A	B	C	D	Power (kw)	Weight (kg)
JX410/2.1	655	300	225	-13	1.5	83
JX410/1.6	635	280	225	-13	1.1	
JX410/1.1	615	260	225	-13	0.75	
JX360/2.4	655	300	220	-15	1.5	
JX360/1.8	635	280	220	-15	1.1	
JX360/1.2	615	260	220	-15	0.75	
JX280/3.1	655	300	215	-18	1.5	
JX280/2.2	635	280	215	-18	1.1	
JX280/1.5	615	260	215	-18	0.75	
JX230/3.8	655	300	210	-20	1.5	
JX230/2.8	635	280	210	-20	1.1	
JX230/1.9	615	260	210	-20	0.75	
JX180/4.8	655	300	205	-23	1.5	
JX180/3.5	635	280	205	-23	1.1	
JX180/2.4	615	260	205	-23	0.75	
JX140/6.2	655	300	200	-25	1.5	
JX140/4.6	635	280	200	-25	1.1	
JX140/3.1	615	260	200	-25	0.75	
JX100/8.5	655	300	195	-28	1.5	
JX100/6.2	635	280	195	-28	1.1	
JX100/4.2	615	260	195	-28	0.75	
JX70/12.0	655	300	190	-30	1.5	
JX70/8.8	635	280	190	-30	1.1	
JX70/6.0	615	260	190	-30	0.75	
JX55/15.8	655	300	265	8	1.5	77
JX55/11.7	635	280	265	8	1.1	
JX55/8.0	615	260	265	8	0.75	
JX45/19.0	655	300	260	5	1.5	
JX45/13.9	635	280	260	5	1.1	
JX45/9.5	615	260	260	5	0.75	
JX35/23.5	655	300	260	5	1.5	
JX35/17.0	635	280	260	5	1.1	
JX35/12.0	615	260	260	5	0.75	
JX25/34.0	655	300	260	5	1.5	
JX25/25.0	635	280	260	5	1.1	
JX25/17.0	615	260	260	5	0.75	
JX15/50.0	655	300	260	5	1.5	
JX15/36.0	635	280	260	5	1.1	
JX15/25.0	615	260	260	5	0.75	
JX10/50.0	655	300	260	5	1.5	
JX10/36.0	635	280	260	5	1.1	
JX10/25.0	615	260	260	5	0.75	

JMX Series Hydraulic Diaphragm Metering Pump

Technical Data:

Flow rate:45L/h ~ 1100L/h
Maximum discharge pressure:19MPa
Regulating ratio 10:1
Steady precision: ±1%
Maximum suction lift: 2m
Medium temperature: -10℃~100℃
Maximum ambient temperature: +40℃
Maximum altitude: 1000m

Main features

◎Solid、compact design;fixed seal,no leakage,the seal performance is better than plunger pump
◎Variable eccentric institutions regulation,ensure flow pulsation gently vary
◎High metering precision, steady precision can be ±1%
◎Built-in limited fill oil valve to ensure liquid oil capacity,built-in safty valve to ensure diaphragm to avoid liquid
◎When deliver corrosive slurry and flammable and explosive chemicals, you can choose double diapharagm, which is equip with dispharagm break alarm.

Control Mode:

◎Supply power: 380V/220V-50Hz/60Hz/Three phase/Single phase
◎Variable frequency controller, accept external control signal ,adjust stroke speed, input signal: 4-20mA analog signal
◎Motor controller,control three phase motor with run/stop, adjust output flow

Major Applications:

◎Environmental protection、petrochemical industry、chemical industry、electricity、metellurgy、Pharmacy、Food Etc.,excellent performance especially in the condition of high precision、high pressure、high temperature

Main components material of hydraulic end

Hydraulic end material	Pump head/Valve body	Valve seat	Valve ball	Diagram	Plunger	Filling	Seal ring
304SS	304SS	316SS	316ss/Ceramic	PTFE	316+Ceramic	Fluorours rubber	PTFE
316SS	316SS	316SS	316ss/Ceramic	PTFE	316+Ceramic	Fluorours rubber	PTFE
PVC	PVC	PVDF	Ceramic	PTFE	316+Ceramic	Fluorours rubber	PTFE
PVDF	PVDF	PVDF	Ceramic	PTFE	316+Ceramic	Fluorours rubber	PTFE

JMX series hydraulic diaphragm metering pump product code

	Series	Flow rate /Pressure	Hydraulic end	Port	Motor	Option
Code	JMX					

Series

Code	Description
JMX	JMX Series Hydraulic Diaphragm Metering Pump

Code	Description
J2MX	JMX series hydraulic double diaphragm metering pump

Flow rate /Pressure

Code	LPH@Pmax (L/h)	Pmax(Mpa)	Plunger diameter (mm)	SPM (min-1)	Stroke (mm)	Motor (kw)
JMX1100/0.5	1100	0.5	100	130	20	1.5
JMX1100/0.3		0.3				1.1
JMX1100/0.2		0.2				0.75
JMX1000/0.7	1000	0.7	95			1.5
JMX1000/0.5		0.5				1.1
JMX1000/0.3		0.3				0.75
JMX940/0.9	940	0.9	90			1.5
JMX940/0.7		0.7				1.1
JMX940/0.5		0.5				0.75
JMX840/1.1	840	1.1	85			1.5
JMX840/0.7		0.7				1.1
JMX840/0.5		0.5				0.75
JMX740/1.2	740	1.2	80			1.5
JMX740/0.9		0.9				1.1
JMX740/0.6		0.6				0.75
JMX650/1.4	650	1.4	75			1.5
JMX650/1.0		1				1.1
JMX650/0.7		0.7				0.75
JMX570/1.6	570	1.6	70			1.5
JMX570/1.1		1.1				1.1
JMX570/0.8		0.8				0.75
JMX490/1.8	490	1.8	65			1.5
JMX490/1.3		1.3				1.1
JMX490/0.9		0.9				0.75
JMX410/2.1	410	2.1	60			1.5
JMX410/1.6		1.6				1.1
JMX410/1.1		1.1				0.75
JMX360/2.4	360	2.4	56			1.5
JMX360/1.8		1.8				1.1
JMX360/1.2		1.2				0.75

Flow rate / Pressure

Code	LPH@Pmax (L/h)	Pmax(Mpa)	Plunger diameter (mm)	SPM (min-1)	Stroke (mm)	Motor (KW)
JMX280/3.1	280	3.1	50	130	20	1.5
JMX280/2.2		2.2				1.1
JMX280/1.5		1.5				0.75
JMX230/3.8	230	3.8	45			1.5
JMX230/2.8		2.8				1.1
JMX230/1.9		1.9				0.75
JMX180/4.8	180	4.8	40			1.5
JMX180/3.5		3.5				1.1
JMX180/2.4		2.4				0.75
JMX140/6.2	140	6.2	35			1.5
JMX140/4.6		4.6				1.1
JMX140/3.1		3.1				0.75
JMX100/8.5	100	8.5	30			1.5
JMX100/6.2		6.2				1.1
JMX100/4.2		4.2				0.75
JMX70/12.0	70	12	25			1.5
JMX70/8.8		8.8				1.1
JMX70/6.0		6				0.75
JMX55/15.8	55	15.8	22			1.5
JMX55/11.7		11.7				1.1
JMX55/8.0		8				0.75
JMX45/19	45	19	20			1.5
JMX45/13.9		13.9				1.1
JMX45/9.5		9.5				0.75

Hydraulic end

Code	Material	Remark	Code	Material	Remark
S	304SS	------	P	PVC	PVC&PVDF hydraulic end only suit for flow rate 570L/h to 1100L/h. The maximum bearing pressure of plastic hydraulic end is 10bar.
L	316SS	------			
Z	Special material hydraulic end. Consult CNP,indicate when ordering.	------	T	PVDF	

Port

Code	Description	JMX45-55	JMX70-490	JMX570-1100	
				Metal hydraulic end	Plastic hydraulic end
P	NPT threaded port	1/2″M	1/2″F	1″M	1″F
F	Flange port	DN15	DN20	DN25	
K	Cutting sleeve	DN10	DN15	NO	
X	Special port	Consult CNP,indicate when ordering			

Dash area is standard configuration.

Motor

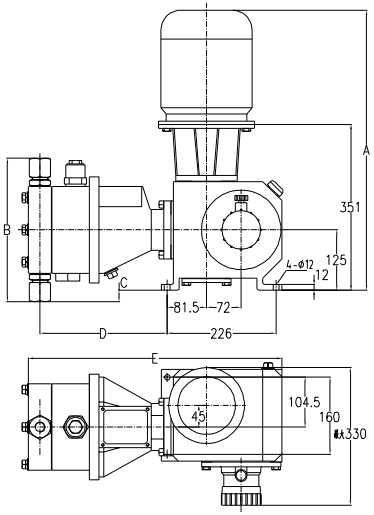
Code	Description	Code	Description
1	Three-phase 220V/380V,50Hz,1440rpm,IP55/F dIIBT4	4(1)	Three-phase variable frequency 220V/380V,50Hz,1440rpm,IP55/F
2	Single-phase 220V,50Hz,1440rpm,IP55/F	5(1)	Pump default without motor, retain IEC90 port.
3	Three-phase explosion-proof 380V,50Hz,1440rpm,IP55/F dIIBT4	6(1)	Other motors. Consult CNP,indicate when ordering.

Option

Code	Description	Remark
N	No option	----------
B(2)	The diaphragm rupture test and pressure gauge	With pressure gauge
C(2)	The diaphragm rupture test and pressure gauge,pressure switch	With normal pressure switch and pressuregauge
D(2)	The diaphragm rupture test and pressure gauge,explosion-proof pressure switch	With explosion-proof pressure switch and pressure gauge

1.When you choose variable frequency motor ,the power lever should be one grade more than normal.
2.If you choose double diaphragm rupture test, the flow rate will decrease 5%

Dimension figure



JMX installation dimension

Model	Motor Power (kW)	A (mm)	B(mm)		C(mm)		D(mm)		E(mm)	
			Metal pump head	Plastic pump head	Metal pump head	Plastic pump head	Metal pump head	Plastic pump head	Metal pump head	Plastic pump head
JMX490/0.9	0.75	591	298		24		264.5		527	
JMX490/1.3	1.1	620								
JMX490/1.8	1.5	666								
JMX410/1.1	0.75	591								
JMX410/1.6	1.1	620								
JMX410/2.1	1.5	666								
JMX360/1.2	0.75	591								
JMX360/1.8	1.1	620								
JMX360/2.4	1.5	666								
JMX280/1.5	0.75	591								
JMX280/2.2	1.1	620								
JMX280/3.1	1.5	666								
JMX230/1.9	0.75	591	278		14					
JMX230/2.8	1.1	620								
JMX230/3.8	1.5	666								
JMX180/2.4	0.75	591								
JMX180/3.5	1.1	620								
JMX180/4.8	1.5	666								
JMX140/3.1	0.75	591								
JMX140/4.6	1.1	620								
JMX140/6.2	1.5	666								
JMX100/4.2	0.75	591								
JMX100/6.2	1.1	620								
JMX100/8.5	1.5	666								
JMX70/6.0	0.75	591								
JMX70/8.8	1.1	620								
JMX70/12.0	1.5	666								
JMX55/8.0	0.75	591	332		41					
JMX55/11.7	1.1	620								
JMX55/15.8	1.5	666								
JMX45/9.5	0.75	591								
JMX45/13.9	1.1	620								
JMX45/19.0	1.5	666								

JMX installation dimension

Model	Motor Power (kW)	A (mm)	B(mm)		C(mm)		D(mm)		E(mm)	
			Metal pump head	Plastic pump head	Metal pump head	Plastic pump head	Metal pump head	Plastic pump head	Metal pump head	Plastic pump head
JMX1100/0.2	0.75	591	418	356	84	53	266.5	278.5	550	552
JMX1100/0.3	1.1	620		356		53		278.5		552
JMX1100/0.5	1.5	666		356		53		278.5		552
JMX1000/0.3	0.75	591		356		53		278.5		552
JMX1000/0.5	1.1	620		356		53		278.5		552
JMX1000/0.7	1.5	666		356		53		278.5		552
JMX940/0.5	0.75	591		356		53		278.5		552
JMX940/0.7	1.1	620		356		53		278.5		552
JMX940/0.9	1.5	666		356		53		278.5		552
JMX840/0.5	0.75	591		356		53		278.5		552
JMX840/0.7	1.1	620		356		53		278.5		552
JMX840/1.1	1.5	666								
JMX740/0.6	0.75	591		356		53		278.5		552
JMX740/0.9	1.1	620		356		53		278.5		552
JMX740/1.2	1.5	666								
JMX650/0.7	0.75	591		356		53		278.5		552
JMX650/1.0	1.1	620		356		53		278.5		552
JMX650/1.4	1.5	666								
JMX570/0.8	0.75	591		356		53		278.5		552
JMX570/1.1	1.1	620								
JMX570/1.6	1.5	666								

J(M)XS Metering Pump

Performance description

◎Pump head can be hydraulic diaphragm type,plunger type and piston type.

◎Hydraulic balance diaphragm pump with built-in function of emptying,pressure-reliefing and oil adding,superior performance,zero leakage and high safety.

◎All-in-one structure of variable worm gearing, low noise, efficient.

◎U-cam regulating structure, compact and reliable, able to adjust stroke from 0-100%.

◎ The check valve fitted with high lever anti-corrosion ball valve and linear seal, the measure is smooth and accurate.

◎ High-performance plunger and imported filler,diaphragm and seal assembly, long service life ,good seal ability

◎ Oil bath lubrication,driving components have long working life.

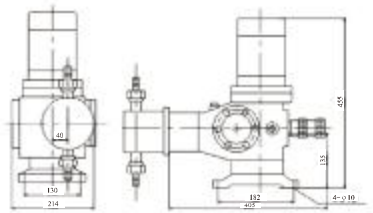
◎Adjustable range:0-100%.;measurement precision：±0. 5%.

◎Adjustment mode can be selected manually,motor-driven, frequency conversion driven, automatically driven..

◎Many kind of pump head material like 45 steel,304SS,316SS and high polymer materials.

Technical Data:

Model	Flow rate (L/h)	motor power			Plunger diameter (mm)	Dimension figure
		0.25kw	0.37kw	0.55kw		
		Outlet pressure(Mpa)				
J(M)XS0.8/40/50/60	0.8	40	50	60	3	
J(M)XS3.3/20/28/36	3.3	20	28	36	6	
J(M)XS7.3/11/14/20	7.3	11	14	20	9	
J(M)XS15/5.5/8/11	15	5.5	8.0	11	13	
J(M)XS30/2.5/3.2/5	30	2.5	3.2	5.0	18	
J(M)XS48/1.5/2/3	48	1.5	2.0	3.0	23	
J(M)XS70/1/1.5/2	70	1.0	1.5	2.0	28	
J(M)XS100/0.8/1.2/1.5	100	0.8	1.2	1.5	33	
J(M)XS130/0.7/0.9/1.2	130	0.7	0.9	1.2	38	
J(M)XS165/0.5/0.6/1.0	165	0.5	0.6	1.0	43	
J(M)XS210/0.4/0.5/0.8	210	0.4	0.5	0.8	48	
J(M)XS255/0.3/0.4/0.6	255	0.3	0.4	0.6	53	
J(M)XS305/0.2/0.3/0.5	305	0.2	0.3	0.5	58	



J(M)XL Metering Pump

Performance description

◎Pump head can be hydraulic diaphragm type,plunger type and piston type.

◎Hydraulic balance diaphragm pump with built-in function of emptying,pressure-reliefing and oil adding,superior performance,zero leakage and high safety.

◎All-in-one structure of variable worm gearing, low noise,efficient .

◎U-cam regulating structure, compact and reliable, able to adjust stroke from 0-100%.

◎ The check valve fitted with high lever anti-corrosion ball valve and linear seal, the measure is smooth and accurate.

◎ High-performance plunger and imported filler,diaphragm and seal assembly, long service life ,good seal ability

◎ Oil bath lubrication,driving components have long working life.

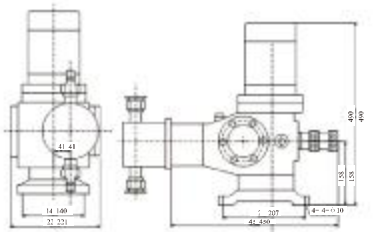
◎Adjustable range:0-100%.;measurement precision：±0. 5%.

◎Adjustment mode can be selected manually,motor-driven, frequency conversion driven, automatically driven..

◎Many kind of pump head material like 45 steel,304SS,316SS and high polymer materials.

Technical Data:

Model	Flow rate (L/h)	motor power			Plunger diameter (mm)	Dimension figure
		0.25kw	0.37kw	0.55kw		
		Outlet pressure(Mpa)				
J(M)XL0.8/40/50/55	0.8	40	50	55	3	
J(M)XL3 /30/32/40	3.0	30	32	40	6	
J(M)XL7/20/22/30	7.0	20	22	30	8	
J(M)XL14/12/15/19	14	12	15	19	13	
J(M)XL27/6/8/13	27	6.0	8.0	13	18	
J(M)XL45/3.3/6/8.2	45	3.3	6.0	8.2	23	
J(M)XL65/2/3/4.2	65	2.0	3.0	4.2	28	
J(M)XL90/1.5/2/3.5	90	1.5	2.0	3.5	33	
J(M)XL120/1.2/1.7/2.5	120	1.2	1.7	2.5	38	
J(M)XL150/1/1.5/2.2	150	1.0	1.5	2.2	43	
J(M)XL195/0.8/1.3/2.1	195	0.8	1.3	2.1	48	
J(M)XL235/0.7/1/1.9	235	0.7	1.0	1.9	53	
J(M)XL285/0.5/0.8/1.5	285	0.5	0.8	1.5	58	
J(M)XL330/0.4/0.7/1.3	330	0.4	0.7	1.3	63	
J(M)XL390/0.3/0.4/0.8	390	0.3	0.4	0.8	68	
J(M)XL450/0.2/0.3/0.6	450	0.2	0.3	0.6	73	



J(M)X Metering Pump

Performance description

◎Pump head can be hydraulic diaphragm type,plunger type and piston type.

◎Hydraulic balance diaphragm pump with Built-in function of emptying,pressure-reliefing and oil adding,superior performance,zero leakage and high safety.

◎All-in-one structure of variable worm gearing, low noise,efficient .

◎U-cam regulating structure, compact and reliable, able to adjust stroke from 0-100%.

◎ The check valve fitted with high lever anti-corrosion ball valve and linear seal, the measure is smooth and accurate.

◎ High-performance plunger and imported filler,diaphragm and seal assembly, long service life ,good seal ability

◎ Oil bath lubrication,driving components have long working life.

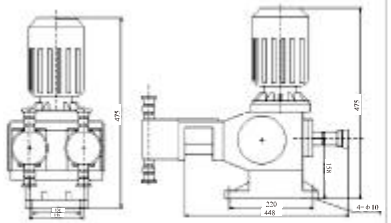
◎Adjustable range:0-100%.;measurement precision：±0. 5%.

◎Adjustment mode can be selected manually,motor-driven,frequency conversion driven, automatically driven..

◎Many kind of pump head material like 45 steel,304SS,316SS and high polymer materials.

Technical Data:

Model	Flow rate (L/h)	motor power		Plunger diameter (mm)	Dimension figure
		0.37kw	0.55kw		
		Outlet pressure(Mpa)			
2J(M)X2/70/100	2.0	70	100	5	
2J(M)X6/25/46	6.0	25	46	8	
2J(M)X10/15/29	10	15	29	10	
2J(M)X16/12/22	16	12	22	12	
2J(M)X26/7.5/13	26	7.5	13	15	
2J(M)X50/4.2/8	50	4.2	8.0	20	
2J(M)X76/2.6/4.8	76	2.6	4.8	25	
2J(M)X110/1.8/3.2	110	1.8	3.2	30	
2J(M)X150/1.3/2.4	150	1.3	2.4	35	
2J(M)X200/1/1.8	200	1.0	1.8	40	
2J(M)X250/0.8/1.5	250	0.8	1.5	45	
2J(M)X310/0.65/1.2	310	0.65	1.2	50	
2J(M)X390/0.5/1	390	0.5	1.0	55	
2J(M)X340/1/1.8	340	1.0	1.8	40	
2J(M)X420/0.8/1.5	420	0.8	1.5	45	
2J(M)X520/0.65/1.2	520	0.65	1.2	50	
2J(M)X640/0.5/1	640	0.5	1.0	55	



J(M)ZS Metering Pump

Performance description

◎Pump head can be hydraulic diaphragm type,plunger type and piston type.

◎Hydraulic balance diaphragm pump with Built-in function of emptying,pressure-reliefing and oil adding,superior performance,zero leakage and high safety.

◎All-in-one structure of variable worm gearing, low noise,efficient .

◎With high quality N-crankshaft regulating structure, able to adjust linear stroke with power on or off

◎ The check valve fitted with high lever anti-corrosion ball valve and linear seal, the measure is smooth and accurate.

◎ High-performance plunger and imported filler,diaphragm and seal assembly, long service life,good seal ability.

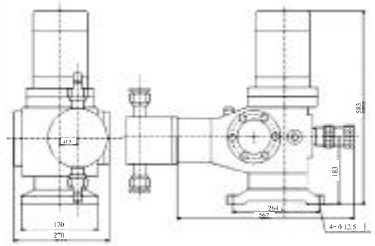
◎Adjustable range:0-100%.;measurement precision：±0. 5%.

◎Adjustment mode can be selected manually,motor-driven, frequency conversion driven, automatically driven.

◎Many kind of pump head material like 45 steel,304SS,316SS and high polymer materials.

Technical Data:

Model	Flow rate (L/h)	motor power		Plunger diameter (mm)	Dimension figure
		0.75kw	1.5kw		
		Outlet pressure(Mpa)			
J(M)ZS16/16/40	16	16	40	8	
J(M)ZS30/12/30	30	12	30	13	
J(M)ZS60/7/15	60	7.0	15	18	
J(M)ZS100/4.5/10	100	4.5	10	23	
J(M)ZS150/2.5/7	150	2.5	7.0	28	
J(M)ZS210/2.1/5	210	2.1	5.0	33	
J(M)ZS280/1.5/4	280	1.5	4.0	38	
J(M)ZS360/1.2/3	360	1.2	3.0	43	
J(M)ZS450/1/2.5	450	1.0	2.5	48	
J(M)ZS550/0.8/2	550	0.8	2.0	53	
J(M)ZS660/0.6/1.5	660	0.6	1.5	58	
J(M)ZS780/0.5/1.2	780	0.5	1.2	63	
J(M)ZS900/0.45/1	900	0.45	1.0	68	
J(M)ZS1000/0.4/0.8	1000	0.4	0.8	73	
J(M)ZS1200/0.32/0.6	1200	0.32	0.6	78	
J(M)ZS1360/0.3/0.5	1360	0.3	0.5	83	
J(M)ZS1500/0.25/0.4	1500	0.25	0.4	88	



J(M)Z Metering Pump

Performance description

◎Pump head can be hydraulic diaphragm type,plunger type and piston type.

◎Hydraulic balance diaphragm pump with Built-in function of emptying,pressure-reliefing and oil adding,superior performance,zero leakage and high safety.

◎With high quality N-crankshaft regulating structure, able to adjust linear stroke with power on or off

◎Mechanical diaphragm pump no need plunger to seal, it use high performance diaphragm, failure free period is longer than normal pump. No pump head leakage in diaphragm warranty period.

◎Simple structure, convenient operation and maintenance.

◎The check valve fitted with high precision anti-corrosion and abrasive resistance check emery ceramic ball, linear seal to ensure the measurement smooth and accurate.

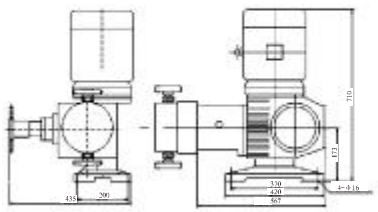
◎Adjustable range:0-100%.;measurement precision：±0. 5%.

◎Adjustment mode can be selected manually,motor-driven,frequency conversion driven, automatically driven.

◎Many kind of pump head material like 45 steel,304SS,316SS and high polymer materials.

Technical Data:

Model	Flow rate	Pressure	motor power	Dimension figure
J(M)Z320/1.0	320	1.0	0.55	
J(M)Z400/0.8	400	0.8	0.55	
J(M)Z550/0.6	550	0.6	0.55	
J(M)Z670/0.6	670	0.6	0.55	
J(M)Z800/0.7	800	0.7	0.75	
J(M)Z1000/0.6	1000	0.6	0.75	
J(M)Z1200/0.5	1200	0.5	0.75	
J(M)Z1500/0.5	1500	0.5	0.75	
J(M)Z1800/0.4	1800	0.4	0.75	



J(M)ZL Metering Pump

Performance description

◎Pump head can be hydraulic diaphragm type,plunger type and piston type.

◎Hydraulic balance diaphragm pump with Built-in function of emptying,pressure-reliefing and oil adding,superior performance,zero leakage and high safety.

◎With high quality N-crankshaft regulating structure, able to adjust linear stroke with power on or off

◎The check valve fitted with high lever anti-corrosion ball valve and linear seal, the measure is smooth and accurate.

◎High-performance plunger and imported filler,diaphragm and seal assembly, long service life,good seal ability.

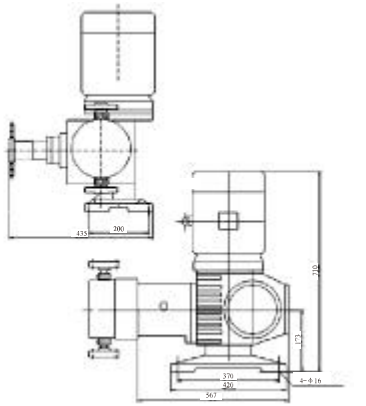
◎Adjustable range:0-100%.;measurement precision：±0. 5%.

◎Adjustment mode can be selected manually,motor-driven, frequency conversion driven, automatically driven.

◎Many kind of pump head material like 45 steel,304SS,316SS and high polymer materials.

Technical Data:

Model	Flow rate (L/h)	motor power 0.75kw Outlet pressure(Mpa)	motor power 1.5kw Outlet pressure(Mpa)	Plunger diameter (mm)	Dimension figure
J(M)ZL16/16/50	16	16	50	8	
J(M)ZL36/12/35	30	12	35	13	
J(M)ZL60/7/20	60	7.0	20	18	
J(M)ZL100/4.5/13	100	4.5	13	23	
J(M)ZL150/2.5/8	150	2.5	8.0	28	
J(M)ZL210/2.1/6	210	2.1	6.0	33	
J(M)ZL280/1.5/5	280	1.5	5.0	38	
J(M)ZL360/1.2/3.5	360	1.2	3.5	43	
J(M)ZL450/1/3	450	1.0	3.0	48	
J(M)ZL550/0.8/2.5	550	0.8	2.5	53	
J(M)ZL660/0.6/2	660	0.6	2.0	58	
J(M)ZL780/0.5/1.6	780	0.5	1.6	63	
J(M)ZL900/0.45/1.4	900	0.45	1.4	68	
J(M)ZL1000/0.4/1.2	1000	0.4	1.2	73	
J(M)ZL1200/0.32/1	1200	0.32	1.0	78	
J(M)ZL1360/0.3/0.8	1360	0.3	0.8	83	
J(M)ZL1500/0.23/0.7	1500	0.23	0.7	88	
J(M)ZL1700/0.2/0.6	1700	0.2	0.6	93	
J(M)ZL1900/0.15/0.5	1900	0.15	0.5	98	
J(M)ZL2300/0.13/0.4	2300	0.13	0.4	108	
J(M)ZL2750/0.1/0.3	2750	0.1	0.3	118	
J(M)ZL3200/0.1/0.3	3200	0.1	0.3	128	



J(M)Z Metering Pump

Performance description

◎Pump head can be hydraulic diaphragm type,plunger type and piston type.

◎Hydraulic balance diaphragm pump with Built-in function of emptying,pressure-reliefing and oil adding,superior performance,zero leakage and high safety.

◎With high quality N-crankshaft regulating structure, able to adjust linear stroke with power on or off

◎ The check valve fitted with high lever anti-corrosion ball valve and linear seal, the measure is smooth and accurate.

◎ High-performance plunger and imported filler,diaphragm and seal assembly, long service life, good seal ability.

◎Adjustable range:0-100%.;measurement precision：±0. 5%.

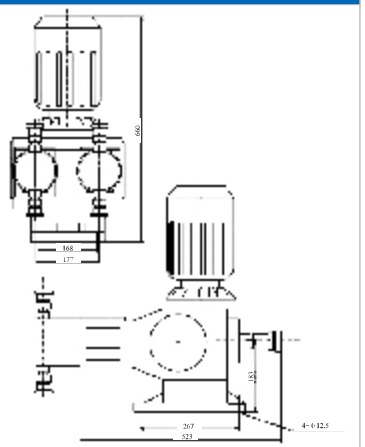
◎Adjustment mode can be selected manually,motor-driven, frequency conversion driven, automatically driven.

◎Many kind of pump head material like 45 steel,304SS,316SS and high polymer materials.

◎Can connect in parallel (from 2 to 12 sets) as proportioning pump, pulse smooth .

Technical Data:

Model	Flow rate (L/h)	motor power 0.75kw	1.5kw	Plunger diameter (mm)	Dimension figure
		Outlet pressure(Mpa)			
2J(M)Z20/40/64	20	40	64	10	
2J(M)Z34/23/56	34	23	56	12	
2J(M)Z56/15/34	56	15	34	15	
2J(M)Z96/8/19	96	8.0	19	20	
2J(M)Z160/5.2/12	160	5.2	12	25	
2J(M)Z230/4.4/8.8	230	4.4	8.8	30	
2J(M)Z310/3.2/6.5	310	3.2	6.5	35	
2J(M)Z400/2.4/4.8	400	2.4	4.8	40	
2J(M)Z520/2/3.7	520	2.0	3.7	45	
2J(M)Z640/1.6/3	640	1.6	3.0	50	
2J(M)Z780/1.3/2.4	780	1.3	2.4	55	
2J(M)Z920/1/2	920	1.0	2.0	60	
2J(M)Z1090/0.8/1.7	1090	0.8	1.7	65	
2J(M)Z1260/0.65/1.5	1260	0.65	1.5	70	
2J(M)Z1450/0.56/1.3	1450	0.56	1.3	75	
2J(M)Z1650/0.45/1.2	1650	0.45	1.2	80	
2J(M)Z1860/0.4/1	1860	0.4	1.0	85	
2J(M)Z2090/0.36/0.9	2090	0.36	0.9	90	
2J(M)Z2320/0.32/0.8	2320	0.32	0.8	95	
2J(M)Z2580/0.25/0.7	2580	0.25	0.7	100	
2J(M)Z2840/0.2/0.65	2840	0.2	0.65	85	
2J(M)Z3130/0.18/0.6	3130	0.18	0.6	90	
2J(M)Z3490/0.56/0.5	3490	0.56	0.5	95	
2J(M)Z3860/0.5/0.4	3860	0.5	0.4	100	



J(M)DL Metering Pump

Performance description

◎Pump head can be hydraulic diaphragm type,plunger type and piston type.

◎Hydraulic balance diaphragm pump with Built-in function of emptying,pressure-reliefing and oil adding,superior performance,zero leakage and high safety.

◎With high quality N-crankshaft regulating structure , able to adjust linear stroke with power on or off

◎ The check valve fitted with high lever anti-corrosion ball valve and linear seal, the measure is smooth and accurate.

◎ High-performance plunger and imported filler,diaphragm and seal assembly, long service life,good seal ability.

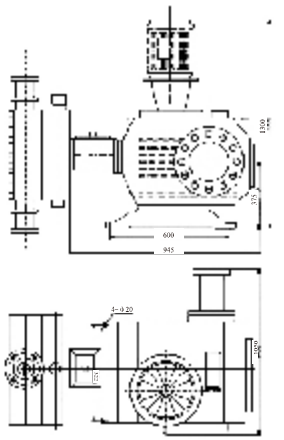
◎Adjustable range:0-100%.;measurement precision：±0. 5%.

◎Adjustment mode can be selected manually,motor-driven,frequency conversion driven, automatically driven.

◎Many kind of pump head material like 45 steel,304SS,316SS and high polymer materials.

Technical Data:

Model	Flow rate (L/h)	motor power 4kw	5.5kw	7.5kw	Plunger diameter (mm)	Dimension figure
		Outlet pressure(Mpa)				
J(M)DL42/85/90/95	42	85	90	95	15	
J(M)DL75/50/73/90	75	50	73	90	20	
J(M)DL125/34.5/50/70	125	34.5	50	70	25	
J(M)DL182/23/34/48	182	23	34	48	30	
J(M)DL247/16/25/35	247	16	25	35	35	
J(M)DL320/12.5/19/26	320	12.5	19	26	40	
J(M)DL405/9.5/14/20	405	9.5	14	20	45	
J(M)DL505/7.5/11.5/16	505	7.5	11.5	16	50	
J(M)DL612/6.2/9.2/13.2	612	6.2	9.2	13.2	55	
J(M)DL725/5.3/7.8/11	725	5.3	7.8	11	60	
J(M)DL855/4.3/6.4/9	855	4.3	6.4	9.0	65	
J(M)DL900/3.7/5.5/7.8	900	3.7	5.5	7.8	70	
J(M)DL1135/3.3/5/7	1135	3.3	5.0	7.0	75	
J(M)DL1295/2.8/4.2/6	1295	2.8	4.2	6.0	80	
J(M)DL1480/2.5/3.7/5	1480	2.5	3.7	5.0	85	
J(M)DL1660/2.2/3.2/4.6	1660	2.2	3.2	4.6	90	
J(M)DL1850/2/3/4.2	1850	2.0	3.0	4.2	95	
J(M)DL2050/1.8/2.6/3.7	2050	1.8	2.6	3.7	100	
J(M)DL2500/1.5/2.1/3	2500	1.5	2.1	3.0	110	
J(M)DL2960/1.2/1.8/2.6	2960	1.2	1.8	2.6	120	
J(M)DL3500/1.1/1.6/2.2	3500	1.1	1.6	2.2	130	
J(M)DL4050/0.9/1.3/1.7	4050	0.9	1.3	1.7	140	
J(M)DL4680/0.8/1.2/1.7	4680	0.8	1.2	1.7	150	
J(M)DL5320/0.7/1/1.5	5320	0.7	1.0	1.5	160	
J(M)DL5980/0.6/0.9/1.3	5980	0.6	0.9	1.3	170	



J(M)TS Metering Pump

Performance description

◎Pump head can be hydraulic diaphragm type,plunger type and piston type.

◎Hydraulic balance diaphragm pump with Built-in function of emptying,pressure-reliefing and oil adding,superior performance,zero leakage and high safety.

◎With high quality N-crankshaft regulating structure , able to adjust linear stroke with power on or off

◎ The check valve fitted with high lever anti-corrosion ball valve and linear seal, the measure is smooth and accurate.

◎ High-performance plunger and imported filler,diaphragm and seal assembly, long service life,good seal ability.

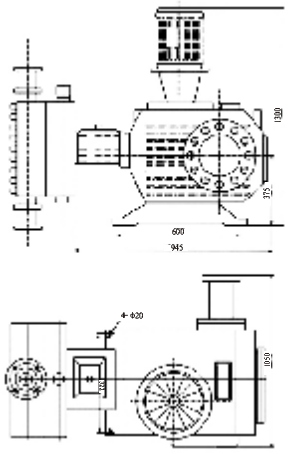
◎Adjustable range:0-100%.;measurement precision：±0. 5%.

◎Adjustment mode can be selected manually,motor-driven, frequency conversion driven, automatically driven.

◎Many kind of pump head material like 45 steel,304SS,316SS and high polymer materials.

Technical Data:

Model	Flow rate (L/h)	motor power			Plunger diameter (mm)	Dimension figure
		7.5kw	11kw	15kw		
		Outlet pressure(Mpa)				
J(M)TS175/60/80/100	175	60	80	100	25	
J(M)TS255/45/60/80	255	45	60	80	30	
J(M)TS350/28/37/54	350	28	37	54	35	
J(M)TS455/19/26/38	455	19	26	38	40	
J(M)TS715/13/17/26	715	13	17	26	50	
J(M)TS865/10/13.6/20	865	10	13.6	20	55	
J(M)TS1030/8/10.8/15.8	1030	8.0	10.8	15.8	60	
J(M)TS1200/6.4/8.8/12.8	1200	6.4	8.8	12.8	65	
J(M)TS1610/5.2/7.2/10.4	1610	5.2	7.2	10.4	75	
J(M)TS1830/4.5/6/8.9	1830	4.5	6.0	8.9	80	
J(M)TS2070/3.8/5.3/7.8	2070	3.8	5.3	7.8	85	
J(M)TS2320/3.3/4.5/6.6	2320	3.3	4.5	6.6	90	
J(M)TS2585/2.9/4/5.8	2585	2.9	4.0	5.8	95	
J(M)TS3150/2.5/3.5/5	3150	2.5	3.5	5.0	105	
J(M)TS3465/2.2/3/4.4	3465	2.2	3.0	4.4	110	
J(M)TS3800/2/2.7/3.9	3800	2.0	2.7	3.9	115	
J(M)TS4350/1.8/2.4/3.5	4350	1.8	2.4	3.5	100	
J(M)TS4800/1.6/2.2/3.2	4800	1.6	2.2	3.2	105	
J(M)TS5800/1.3/1.8/2.6	5800	1.3	1.8	2.6	115	
J(M)TS7000/1.1/1.5/2.2	7000	1.1	1.5	2.2	120	
J(M)TS8500/0.9/1.2/1.8	8500	0.9	1.2	1.8	140	
J(M)TS9300/0.8/1.1/1.6	9300	0.8	1.1	1.6	145	
J(M)TS9800/0.7/1/1.5	9800	0.7	1.0	1.5	150	
J(M)TS11200/0.6/0.8/1.3	11200	0.6	0.8	1.3	160	



J(M)TF Metering Pump

Performance description

◎Pump head can be hydraulic diaphragm type,plunger type and piston type.

◎Hydraulic balance diaphragm pump with Built-in function of emptying,pressure-reliefing and oil adding,superior performance,zero leakage and high safety.

◎With high quality N-crankshaft regulating structure , able to adjust linear stroke with power on or off

◎ The check valve fitted with high lever anti-corrosion ball valve and linear seal, the measure is smooth and accurate.

◎ High-performance plunger and imported filler,diaphragm and seal assembly, long service life,good seal ability.

◎Adjustable range:0-100%.;measurement precision：±0. 5%.

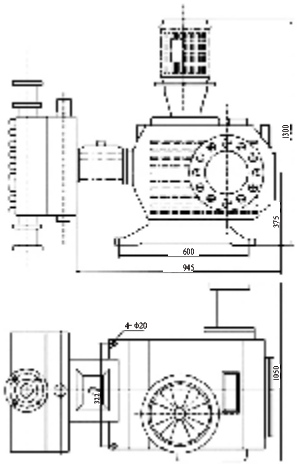
◎Adjustment mode can be selected manually,motor-driven, frequency conversion driven, automatically driven.

◎Many kind of pump head material like 45 steel,304SS,316SS and high polymer materials.

◎Can connect in parallel (from 2 to 12 sets) as proportioning pump, pulse smooth .

Technical Data:

Model	Flow rate (L/h)	motor power			Plunger diameter (mm)	Dimension figure
		15kw	22kw	37kw		
		Outlet pressure(Mpa)				
J(M)TF235/64/92/120	235	64	92	120	25	
J(M)TF365/41/60/82	365	41	60	82	30	
J(M)TF510/29/43/58	510	29	43	58	35	
J(M)TF680/22/32/44	680	22	32	44	40	
J(M)TF860/17.5/25.5/34.5	860	17.5	25.5	34.5	45	
J(M)TF1050/14.3/21/27	1050	14.3	21	27	50	
J(M)TF1280/12/17/23	1280	12	17	23	55	
J(M)TF1510/10/14.5/19.7	1510	10	14.5	19.7	60	
J(M)TF1780/8.5/12/16.2	1780	8.5	12	16.2	65	
J(M)TF2080/7.2/11/15.4	2080	7.2	11	15.4	70	
J(M)TF2430/6/10/14	2430	6	10	14	75	
J(M)TF2750/5.5/9/12.6	2750	5.5	9.0	12.6	80	
J(M)TF3120/4.8/8/11.6	3120	4.8	8.0	11.6	85	
J(M)TF3520/4.2/7/10.5	3520	4.2	7.0	10.5	90	
J(M)TF3920/3.8/6.3/9.4	3920	3.8	6.3	9.4	95	
J(M)TF4350/3.5/5.7/8.5	4350	3.5	5.7	8.5	100	
J(M)TF5280/2.8/4.7/7.3	5280	2.8	4.7	7.3	110	
J(M)TF6350/2.4/4/6.2	6350	2.4	4.0	6.2	120	
J(M)TF7480/2/2.3/5.2	7480	2.0	2.3	5.2	130	
J(M)TF8620/1.7/2.9/4.6	8620	1.7	2.9	4.6	140	
J(M)TF9960/1.5/2.5/4.0	9960	1.5	2.5	4.0	150	
J(M)TF11380/1.3/2.2/3.5	11380	1.3	2.2	3.5	160	
J(M)TF12860/1.1/1.9/3.0	12860	1.1	1.9	3.0	170	
J(M)TF14410/1/1.7/2.7	14410	1.0	1.7	2.7	180	
J(M)TF16000/0.9/1.55/2.4	16000	0.9	1.55	2.4	190	
J(M)TF17800/0.8/1.4/2.1	17800	0.8	1.4	2.1	200	
J(M)TF19500/0.7/1.25/1.8	19500	0.7	1.25	1.8	210	
J(M)TF21600/0.6/1.1/1.5	21600	0.6	1.1	1.5	220	



J(M)G Metering Pump

Performance description

◎The pump head is equipped with remote handling device, because poly-tetrafluoroethylene has the feature of thermal expansion.

◎The design of remote pump head shorten the distance between suction valve and discharge valve.It makes the pump able to convey dangerous liquid.

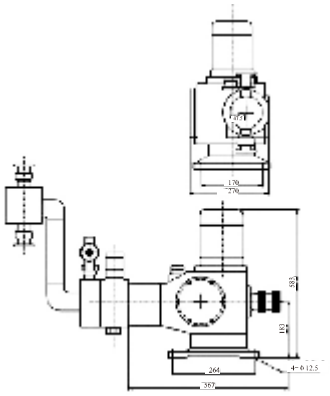
◎Electric heating appliance attached to remote handling device, so the pump can convey liquid which is 280 °C.

◎Hydraulic end applies double diaphragm with diaphragm state monitor, the pump can work even when one diaphragm is broken. The material of ball valve is emery grains.

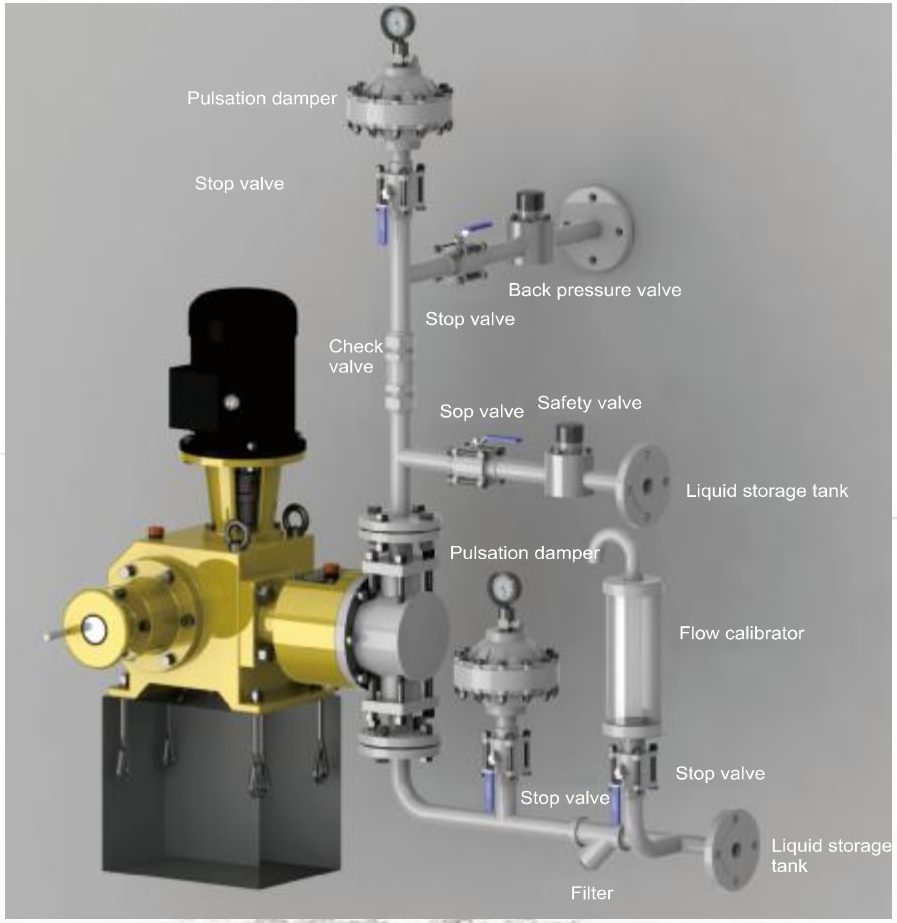
◎The hydraulic system applying German technologies. It consists of safety valve and limit valve. Built-in function of emptying,pressure-reliefing and oil adding,superior performance,zero leakage and high safety.

Technical Data:

Model	Flow rate (L/h)	motor power		Plunger diameter (mm)	Dimension figure
		2.2kw	4kw		
		Outlet pressure(Mpa)			
J(M)G 40/45/67.5	40	45	67.5	15	
J(M)G 77/25/37.5	77	25	37.5	20	
J(M)G 120/17/25.5	120	17	25.5	25	
J(M)G 175/11/16.5	175	11	16.5	30	
J(M)G 238/8.5/13.6	238	8.5	13.6	35	
J(M)G 310/6.9/11	310	6.9	11	40	
J(M)G 395/5/8	395	5.0	8.0	45	
J(M)G 486/4.2/7.1	486	4.2	7.1	50	
J(M)G 588/3.4/5.7	588	3.4	5.7	55	
J(M)G 700/2.8/4.8	700	2.8	4.8	60	
J(M)G 820/2.4/4.2	820	2.4	4.2	65	
J(M)G 950/2/3.8	950	2.0	3.8	70	
J(M)G 1100/1.8/3.2	1100	1.8	3.2	75	
J(M)G 1250/1.6/2.8	1250	1.6	2.8	80	
J(M)G 1400/1.4/2.5	1400	1.4	2.5	85	
J(M)G 1580/1.2/2.1	1580	1.2	2.1	90	
J(M)G 1750/1.1/1.9	1750	1.1	1.9	95	
J(M)G 1960/1/1.8	1960	1.0	1.8	100	
J(M)G 2380/0.8/1.4	2380	0.8	1.4	110	
J(M)G 2800/0.7/1.3	2800	0.7	1.3	120	
J(M)G 3300/0.6/1.1	3300	0.6	1.1	130	



Installtion drawing



JY series Chemical Dosing System

To meet the market demand and facilitate customers, CNP introduced advanced technology from USA,Germany and Japan, combining the actual conditions in our country, developed JY series chemical dosing system.
The JY series chemical dosing system can be widely used in power plant dosing, wastewater treatment,water treatment , steel mill etc. There are many advantages: can equip as a complete set, advanced technics, high degree of automation, easy operation, easy installation, easy maintenance , it can suit for variable working condition.

There are a variety of specifications for JY Series chemical dosing pump. It contains one tank one pump, one tank two pumps, two tanks two pumps, two tanks three pumps,three tanks three pumps and many tanks many pumps. The system is chosen by dosing pump quantity and discharge. You can choose the system according to the catalogue. And also, we can design and produce special products according your special requirement, for example, put the whole system meter and liquid-level signal into DCS control system, to control the whole system with run/stop, running control and alarm.

Structure and work principle

1.Structure
JY series chemical dosing system consists of dosing pump, solution tank, liquid indicator, impact damper, filter, valves, blender, baseplate, stair railing, control circuit, full set of pipeline and accessories.
2.Work principle
According to the demanded concentration of the liquor, operators make up the liquor by blender in the agitator tank,then put it in solution tank and convey it through dosing pump to the specified place.
3.Advantages:
Beautiful appearance,reliable performance ,compact structure,facilitate maintenance.

The function of the valves of JY series chemical dosing system

1.Safety valve
When the pipeline is blocked or closed by mis-operation, the safe valve will automatically open and discharge the liquor to reduce pressure, so the safety of the dosing pump and the pipeline system can be ensured.

2.Pulse damper
Pulse damper can smooth the effect of pulse.,as a result, the liquor can be evently conveyed.

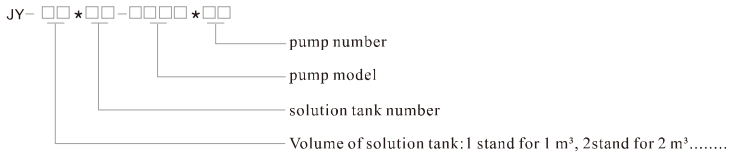
3.filter
The application of Y type filter prevents foreign particles from entering the pump head, easy cleaning
Mesh material:PTEF

4.Check valve
The check valve installed at the suction pipe, can avoid positive pressure flow. The check valve equipped at the discharge pipe can avoid negative pressure and siphon.

5.Flow calibrator
Can estimate the flow rate through the flow calibrator. Generally installed at the pump inlet end.

6.Back pressure valve
Back pressure valve installed at pressure pipe , bring constant back pressure , it can remain measurement accurately. Avoid liquor flow by gravity or siphoning.

JY series Chemical Dosing System product code



JY series Chemical Dosing System Technical Parameters

System	Type	Dissolving drug tank size (M)	Dosing pump			Dosing method
			Type	Flow(L/h)	Pressure(Mpa)	
Hydrazine chemical dosing systeml	two tanks two pumps	1.0 1.5 2.0	Plunger type Mechanical diaphragm type Hydraulic diaphragm type	30 40 50 60 80 100 200	1.6 2.4 4.0 6.3 16 20 24	Manual Automatic
	two tanks three pumps					
PH adjustment ammonification dosing system	two tanks two pumps					
	two tanks three pumps					
Phosphates dosing system	two tanks two pumps					
	two tanks three pumps					
Coagulants feeding equipment	two tanks two pumps	1.0 1.5 2.0 3.0	Plunger type Mechanical diaphragm type Hydraulic diaphragm type	40 60 90 160 330	0.6 1.0 1.4	Manual Automatic
	two tanks three pumps					
Inhibitor feeding equipmen	two tanks two pumps					
	two tanks three pumps					
PH adjustment Alkali feeding equipment	two tanks two pumps					
	two tanks three pumps					
Ferrous sulfate coating dosing system	one tank one pump		Centrifugal	2-4m³/h	0.4	Manual
	two tanks two pumps					

JY series Chemical Dosing System Parameter Selection Table

User's name			
Application		Quantity	set
Operation parameter			
Medium		Medium temperature	℃
Concentration	%	Liquor density	kg/m³
Dosing point		Flow rate of Dosing point	1/h
Back Pressure of Dosing point	Mpa	Dosing distance	m
Status	□discontinuous	□continuous	
Structural parameters			
Dissolving drug tank size	m³		
Material	□stainless steel □carbon steel □carbon steel foil □non-metallic □others		
Type	□Mechanical diaphragm □hydraulic diaphragm □plunger pump	quantity	set
Flow rate	1/h	presuure	Mpa
Control mode	□ Manual adjustment	□automatic adjustment	
Pipeline material	□stainless steel □carbon steel	□UPVC	□others
Other requirement			

Remarks: 1.Buyers fill the form in detail when purchasing.
2.If users have any other specific requirment, please note at the "other requrement" line or contract CNP for more information.

Corrosivity parallel table

Corrosive medium	concentration	stainless steel			FRPP			PVDF			Phenolic glass fiber reinforced plastics		
		25℃	50℃	100℃	25℃	50℃	100℃	25℃	50℃	100℃	25℃	50℃	100℃
Sulfuric acid	0-50	×	×	×	√	√	○	√	√	√	√	√	√
Sulfuric acid	50-98	×	×	×	√	○	×	√	√	√	√	√	○
Nitric Acid	10-70	√	√	√	√	√	○	√	√	√	×	×	×
Nitric Acid	70-100	√	√	√	×	×	×	√	√	√	×	×	×
Hydrochloric acid	arbitrarily	×	×	×	○	○	○	√	√	√	√	√	√
Phosphorice acid	0-90	×	×	×	√	√	○	√	√	√	√	√	√
Hydrofluoric Acid	0-50	×	×	×	√	√	√	√	√	√	×	×	×
Hydrobromic acid	arbitrarily	×	×	×	√	√	○	√	√	√	√	√	√
Hydrocyanic acid	arbitrarily	×	×	×	√	√	√	√	√	√	√	√	√
Lactic acid	0-50	×	×	×	√	√	×	√	√	√	×	×	×
Hypofluorous acid	arbitrarily	×	×	×	√	√	×	√	√	√	√	○	×
Hexafluorosilicic acid	arbitrarily	×	×	×	√	√	√	√	√	√	√	√	√
Aqua regia		×	×	×	×	×	×	√	√	√	×	×	×
Formic acid	arbitrarily	×	×	×	√	√	√	√	√	√	√	√	√
Acetic acid	arbitrarily	○	○	○	√	√	○	√	√	√	√	√	○
Butyric acid	arbitrarily	√	√	√	√	√	√	√	√	√	√	√	√
Lactic acid	arbitrarily	√	√	×	√	√	×	√	√	√	√	√	○
Oxalic acid	arbitrarily	○	○	×	√	○	×	√	√	√	√	√	√
Fatty Acid	arbitrarily	√	√	√	√	○	×	√	√	√	√	√	√
Benzoic acid	arbitrarily	√	√	√	√	√	×	√	√	√	√	√	√
Citric acid	arbitrarily	√	√	√	√	○	×	√	√	√	√	√	√
Benzene sulfonic acid	arbitrarily	√	√	√	○	○	×	√	√	√	√	√	√
Chloroacetic acid	arbitrarily	×	×	×	√	√	×	√	√	√	○	○	○
Potassium hydroxide	arbitrarily	√	√	×	√	√	√	√	√	√	×	×	×
Sodium hydroxide	arbitrarily	√	√	√	√	√	√	√	√	√	×	×	×
Ammonium sulfate	arbitrarily	×	×	×	√	√	√	√	√	√	√	√	√
Ammonium carbonate	arbitrarily	√	√	×	√	√	○	√	√	√	√	√	√
Ammonium chloride	arbitrarily	×	×	√	√	√	○	√	√	√	√	√	√
Sodium fluosulfate	arbitrarily	○	○	×	√	√	√	√	√	√	×	×	×
Ammonium fluoride	arbitrarily	×	×	×	√	√	√	√	√	√	√	√	√
Sodium hypochlorite	0-25	×	×	×	√	○	×	√	√	√	×	×	×
Aluminium Sulfate	arbitrarily	√	√	√	√	√	√	√	√	√	√	√	√
Lead Acetate	arbitrarily	√	√	√	√	√	○	√	√	√	√	√	√
Calcium hypochlorite	0-25	×	×	×	√	○	○	√	√	√	○	○	×
Methanol	arbitrarily	√	√	√	√	○	○	√	√	√	○	×	×
Ethanol	arbitrarily	√	√	√	√	○	○	√	√	√	○	○	×
Toluene	arbitrarily	√	√	√	×	×	×	√	√	√	○	○	○
Dichloroethane	arbitrarily	√	√	√	×	×	×	√	√	√	√	○	○
Chloric acid	arbitrarily	×	×	×	√	√	×	√	√	√	√	○	○
Potassium chlorate	arbitrarily	√	√	√	√	√	√	√	√	√	√	√	√
Boric acid	arbitrarily	√	√	○	√	√	√	√	√	√	√	√	√
Sodium phosphate	arbitrarily	√	√	√	√	○	×	√	√	√	√	√	√
Borax	arbitrarily	√	√	√	√	√	√	√	√	√	√	√	√
Potassium permanganate	arbitrarily	√	√	√	√	√	×	√	√	√	○	○	○
Sulfurous acid	arbitrarily	√	√	○	√	√	√	√	√	√	√	√	√
Silicic acid	arbitrarily	×	×	×	√	√	√	√	√	√	√	√	√
Hypochlorous acid	arbitrarily	×	×	×	√	√	√	√	√	√	√	√	○
Nickel sulfate	arbitrarily	√	√	×	√	√	√	√	√	√	√	√	√
Aluminium chloride	arbitrarily	○	×	×	√	√	√	√	√	√	√	√	√

Remarks: √ stands for work well, ○ stands for able to use , × stands for forbidden.
Medium data beyond the above table , please consult CNP.