METERING PUMP

Snowate

Hengshui Snowate Environmental Technology Co., Ltd.

2022

EDITION FOR SNOWATE CATALOG





ADVANTAGES AND FEATURES

1 Energy-saving and Eco-friendliness

Accurate dosing, compact design: Benefiting from our independent circuit R&D ability and excellent electromagnetic design experiences, the pump realizes the output capacity the same as that of similar products by lower power and smaller volume to cut cost, save energy and protect the environment.

2 Excellent Compact Structure

Adopt space technology to reinforce the strong corrosion resistance: Valve seat, made of PTFE material, has better overall tolerance of liquid contact part, not only guarantees the leakproofness but also protects the rubber ring valve seat against expansion and corrosion after longtime use, or the tightness would decrease and inaccurate dosing may be caused.

3 Optimized Pump Head Structure

Pump head, made of high modified material, full chemical compatibility: As verified in practice, the internal structure of pump head effectively avoids flash gas and cavitation inside pump head, meanwhile, optimizes the procedure of liquid flow, and drops the ultra-large shear force on liquid to maintain the conveying capacity and improve the overall efficiency of pump.



4 Ultra-low Maintenance Cost

Full pure PTFE diaphragm, five-year warranty: Diaphragm is made of full pure PTFE, with superexcellent tolerance and long service life, which will sharply cut the maintenance cost of product. Moreover, we provide five-year lifetime warranty for the diaphragm of dosing pump.

(5) Idling to be Allowed

Unique idling capacity: With improved full pure PTFE diaphragm, the dosing pump can still work safely without damage upon diaphragm after quite a long time once the chemical liquid in dosing barrel is used out, and without timely feed or any misoperation occurs.



6 Simplify Operation

Simple and visual digital display mode and clear parameter setting save time and cut cost, and guarantee the perfect connection of control process.



(7) Convenient to Manage Stocking

Uniform valve group, made up of universal size one-way valves, reduces the confusion among parts and components.

(8) Customizable Service

Reasonable and flexible internal design makes customization realizable. We can provide solutions for you according to user demand and special working conditions to avoid the embarrassing modification of process design upon the unsuitability of product. We stick to the principle of providing clients with more professional and quicker support all the time. Through the experience and accumulation in the past years, we have comprehended both pumps and the water treatment industry more profoundly. Our strong technical team can provide individualized products or compact dosing system centering on dosing pump for your production process according to your particular requirements.



MODEL CODE

DFD 02 07 M PPV A

Control **DFD**---Manual Operation

Version DM----Manual & Current Signal (4-20mA)

DP----Manual & Pulse Operation

DC---- Manual & RS485 Communication Protocol

Capacity L/h

Pressure Mpa

Model M/HX/NX/GX/LM/X

Dosing Head

Material

	Pump Head	Diaphragm	Valve Seat	Valve Ball	Seal Ring
PPV	PP	PTFE	PTFE	Ceramic	FKM
PVT	PVC	PTFE	PTFE	Ceramic	FKM
PTF	PTFE	PTFE	PTFE	Ceramic	_
SST	SS316	PTFE	SS316	SS316	FKM

Electric Power Supply

A---1ph 230V 50/60Hz

B--- 1ph 115V 50/60Hz

C--- Special requirements, otherwise noted

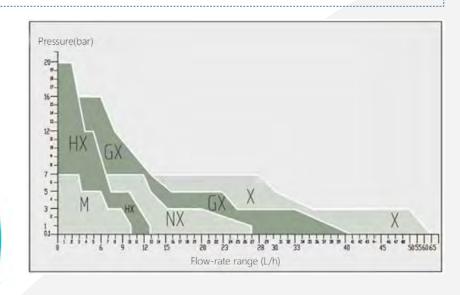
*Example

Max. lift: 7kg; capacity: 12L /h, 230V 50Hz, PVC pump head, current signal control stroke frequency; no more change stroke length manually.

Selected Model:

DM- 12-07-LM-PVT-A.





DFD SERIES -MANUAL OPERATION

Functional Characteristics

- Quick and simplified manual operation mode
- Buttons are used to control start and stop of the pump and set the stroke frequency (spm); setting range of stroke frequency is from 1(spm) to the maximum frequency value; whenever the pump is running or stops, the flow can be adjusted.
- Flow range is 1-55L/h, maximum pressure is 20Bar.
- Five flow stages are optional that is more accurate and controllable.
- Current working frequency is digitally displayed.
- NX, GX and X are equipped with a liquid level switch interface.



Capacity

L/h

3

Model

DFD-01-07-M

DFD-02-07-M

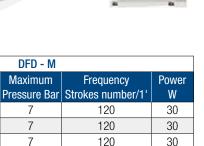
DFD-03-07-M





40

40



DFD-06-05-M	6	5	180
DFD-09-03-M	9	3	180
V	Veight: 2.4	Ka Suction:	2m Size: A

7

7

DFD - M Maximum

DFD-HX									
Model	Capacity L/h	Maximum Pressure Bar	Frequency Strokes number/1'	Power W					
DFD-02-20-HX	2	20	180	40					
DFD-05-12-HX	5	12	180	40					
DFD-06-07-HX	6	7	180	40					
DFD-10-05-HX	10	5	200	40					
Weight: 2.4Kg Suction: 2m Size: A									



DFD-NX									
Model	Capacity L/h	Maximum Pressure Bar	Frequency Strokes number/1'	Power W					
DFD-09-07-NX	9	7	160	40					
DFD-12-07-NX	12	7	160	40					
DFD-15-04-NX	15	4	200	40					
DFD-20-03-NX	20	3	200	40					
DFD-25-02-NX	25	2	200	40					
V	Veight: 3.2	Kg Suction:	2m Size: B						

DFD - GX										
Model	Capacity L/h	Maximum Pressure Bar	Frequency Strokes number/1'	Power W						
DFD-06-16-GX	6	16	200	60						
DFD-23-05-GX	23	5	200	60						
DFD-33-03-GX	33	3	200	60						
DFD-55-0.1-GX	55	0.1	240	60						
Weight: 3.8Kg Suction: 2m Size: C										



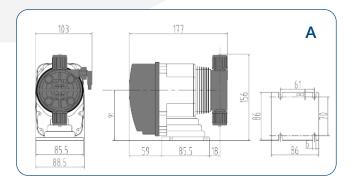
Classic Series — - DFD-X

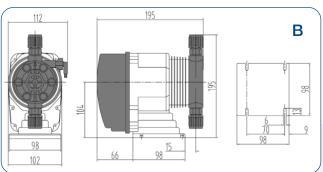
As solid as rock after years of development

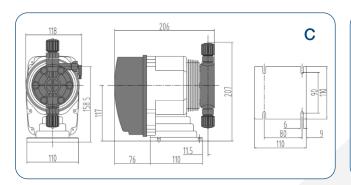
After withstanding the intensive market competition in the past years, NEWDOSE-X dosing pumps, by virtue of coherent stable quality and superexcellent performance, timeproof optimal and simplest structural design and larger drive unit, guarantee the stable output while reducing the number of accessories, greatly prolong the total fatigue life, cut the maintenance cost, and promote the stable operation of batches of dosing systems day after day, wins the high praise of numerous domestic and foreign clients, and became the most credible link in user's process.

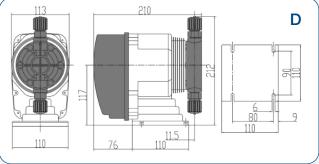
Model	Capacity L/h	Maximum Pressure Bar	Frequency Strokes number/1'	Max Sunction/m	Power W	Weight Kg	Size
DFD-02-16-X	2	16	120	2	65	3.8	С
DFD-06-07-X	6	7	120	2	65	3.8	С
DFD-09-07-X	9	7	120	2	65	3.8	С
DFD-12-07-X	12	7	120	2	65	3.8	С
DFD-15-03-X	15	3	120	2	65	3.8	С
DFD-20-03-X	20	3	160	2	65	3.8	С
DFD-30-03-X	30	3	160	2	65	3.8	D
DFD-50-02-X	50	2	240	2	65	3.8	D

Installation Dimension Drawing











DP SERIES -PULSE SIGNAL

Functional Characteristics

- Manual control, adjustment by Up and Down buttons
- Remote automatic control mode: Pulse signal
- Proportional dosing is adjusted by external impulse signal and optional modes
 are frequency division and frequency multiplication; the frequency division mode
 is used when input impulse frequency y is greater than maximum working
 frequency of the dosing pump; the frequency multiplication mode is used when
 input impulse frequency is smaller than maximum working frequency of the
 dosing pump.
- Current working frequency is digitally displayed.
- Equipped with a liquid level switch interface.

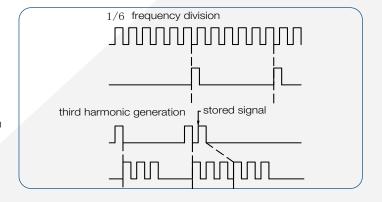


Model	Capacity L/h	Maximum Pressure Bar	Frequency Strokes number/1'	Max Sunction/m	Power W	Weight Kg	Size
DP-02-07-LM	2	7	120	2	30	3.2	В
DP-03-07-LM	3	7	120	2	30	3.2	В
DP-06-05-LM	6	5	140	2	30	3.2	В
DP-09-03-LM	9	3	160	2	30	3.2	В
DP-02-16-X	2	16	120	2	65	3.8	С
DP-06-07-X	6	7	120	2	65	3.8	С
DP-09-07-X	9	7	120	2	65	3.8	С
DP-12-07-X	12	7	120	2	65	3.8	С
DP-15-03-X	15	3	120	2	65	3.8	С
DP-20-03-X	20	3	160	2	65	3.8	С
DP-30-03-X	30	3	160	2	65	3.8	D
DP-50-02-X	50	2	240	2	65	3.8	D

Pulse signal control:

- 1.The impulse signals (square wave or dry contact signals) that any instruments directly sends out can be received.
- 2.DP pumps have both manual control and automatic control mode. In manual mode, stroke frequency of the pump can be adjusted by control buttons, no matter whether the pump is running or in stop state.
- 3.In automatic mode, two control modes can be set, named frequency division control and frequency multiplication control.
- 4.In the frequency division mode, when the input impulse number is larger than maximum working frequency, the pump should be set as the frequency division mode. According to user's set, the pump will identifie and receive the impulse signal, and then dose chemicalliquids in proportion.
- 5.In the frequency multiplication mode, when the input impulse number is far less than maximum working frequency of the pump, the pump should be set as the frequency multiplication mode and the pump identify and receive the impulse signal, then dose liquids in proportion depending on user's set. But when the received impulse interval is less than the interval time of the corresponding pump output, the signal received later will be stored (the pump could still work even though no signal received at this moment), the pump will not stop until it is consumed completely.

DP-GX										
Model	Capacity L/h	Maximum Pressure Bar	Frequency Strokes number/1'	Power W						
DP-06-16-GX	6	16	200	60						
DP-23-05-GX	23	5	200	60						
DP-33-03-GX	33	3	200	60						
DP-55-0.1-GX	55	0.1	240	60						
Weight: 3.8Kg Suction: 2m Size: C										





DM SERIES -4-20 MA SIGNAL

Functional Characteristics

- Manual control, adjustment by Up and Down buttons
- Remote automatic control mode: analogue signal, current signal (0/4~20mA)
- Stroke frequency (spm) can be set proportionally controlled within 4~20mA and adjusted in direct and inverse proportions; analogue signals are directly connected into the dosing pump without extra control instrument.
- Current working frequency is digitally displayed.
- Equipped with a liquid level switch interface

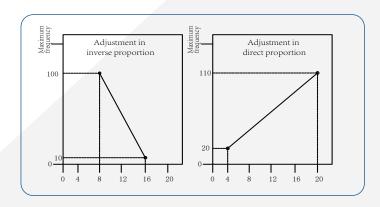


Model	Capacity L/h	Maximum Pressure Bar	Frequency Strokes number/1'	Suction m	Power W	Weight Kg	Size
DM-02-07-LM	2	7	120	2	30	3.2	В
DM-03-07-LM	3	7	120	2	30	3.2	В
DM-06-05-LM	6	5	140	2	30	3.2	В
DM-09-03-LM	9	3	160	2	30	3.2	В
DM-02-16-X	2	16	120	2	65	3.8	С
DM-06-07-X	6	7	120	2	65	3.8	С
DM-09-07-X	9	7	120	2	65	3.8	С
DM-12-07-X	12	7	120	2	65	3.8	С
DM-15-03-X	15	3	120	2	65	3.8	С
DM-20-03-X	20	3	160	2	65	3.8	С
DM-30-03-X	30	3	160	2	65	3.8	D
DM-50-02-X	50	2	240	2	65	3.8	D

Current Signal Control (4-20mA):

- Analog signal can be directly input into the dosing pump, without an extra control instrument.
- 2.DM pumps have both manual control and automatic control modes . In manual mode, stroke frequency of the pump can be adjusted by means of a control button, no matter whether the pump is running or in stop state.
- 3.Set two points and theirs corresponding frequency within 4-20mA, so as to control dosage.
- 4.The mode could be set in direct and inverse proportions adjustment. The direct proportion means impulse frequency of a pump increases with increase of current signal; adjustment in inverse proportion: impulse frequency of a pump increases with decrease of current signal.

DM-GX										
Model	Capacity L/h	Maximum Pressure Bar	Frequency Strokes number/1'	Power W						
DM-06-16-GX	6	16	200	60						
DM-23-05-GX	23	5	200	60						
DM-33-03-GX	33	3	200	60						
DM-55-0.1-GX	55	0.1	240	60						
Weight: 3.8Kg Suction: 2m Size: C										





DC SERIES

- RS485 COMMUNICATION PROTOCOL

Functional Characteristics

- Manual control, adjusted by Up and Down buttons
- Intelligent automatic control mode: RS485 communication protocol
- The communication with the upper computer can be achieved; online start
 and stop and control can be achieved; the pump is suitable for the highautomation production process under centralized control.
- A controller equipped with touch screen can be provided that a simple control system can control at most 128 DC dosing pumps simultaneously, to achieve quick and simple control, without need of complicated control instruments; state parameter of dosing pump is visually displayed;
- Current working frequency is digitally displayed.
- Equipped with a liquid level switch interface



Model	Capacity L/h	Maximum Pressure Bar	Frequency Strokes number/1'	Suction m	Power W	Weight Kg	Size
DC-02-07-L	2	7	120	2	30	3.8	С
DC-03-07-L	3	7	120	2	30	3.8	С
DC-06-05-L	6	5	140	2	30	3.8	С
DC-09-03-L	9	3	160	2	30	3.8	С
DC-02-16-X	2	16	120	2	65	3.8	С
DC-06-07-X	6	7	120	2	65	3.8	С
DC-09-07-X	9	7	120	2	65	3.8	С
DC-12-07-X	12	7	120	2	65	3.8	С
DC-15-03-X	15	3	120	2	65	3.8	С
DC-20-03-X	20	3	160	2	65	3.8	С
DC-30-03-X	30	3	160	2	65	3.8	D
DC-50-02-X	50	2	240	2	65	3.8	D

DC-GX										
Model	Capacity L/h	Maximum Pressure Bar	Frequency Strokes number/1'	Power W						
DC-06-16-GX	6	16	200	60						
DC-23-05-GX	23	5	200	60						
DC-33-03-GX	33	3	200	60						
DC-55-0.1-GX	55	0.1	240	60						
Weight: 3.8Kg Suction: 2m Size: C										

DC pumps with controller:

1.Nice and decent look, easy to monitor

Display screen replaces former old enclosure, bringing full feel of technology. Both working state and stroke frequency of pumps are easy to monitor.

2. Space saving, convenient installation

The size of control unit is minimized. Only need to make holes in the enclosure of equipment and put the screen in, so the equipment installation is quick and easy.

3. Simple operation, quick control

Pump start/stop and stroke frequency can be controlled by touch screen, no need to adjust beside the pump. And the control response is quick and accurate.



DC Pumps Application Case

By one controller, the screen displays all pumps working conditions:

Each pump's working frequency and the start-stop could be adjusted.

The controller will be put and set on the control place, not be side the pumps.





Installation Fittings







1.5m PE outlet pipe



Injector



Filter



Size	Fittings Name								
4*6/mm		Injector	/						
6*9/mm	Inlet, outlet pipe Three-piece connection Filter valve	/	External thread valve cover						
10*14/mm		Injector	/						

Other optional accessories



Nonadjustable back pressure valve



Adjustable back pressure valve



Injection /suction valve



External thread valve cover



Diaphragm

SPRING RETURN MOTOR DRIVEN DIAPHRAGM METERING PUMP



Ultra-strong Anticorrosive Multifunctional Check Valve

- Check Valve Function: Overcome the leak defect caused by the smallpressure difference between gravity check valve system and pump head cavity.
- Delivery High Viscosity Liquid: Check valves adopt spring return technology, so the dosing pump can maintain its displacement and linearity better when delivering high viscosity liquid.
- Back Pressure Ability: The coefficient of elasticity of elastic part can be properly adjusted according to customer's requirements so that the dosing pump outlet has different back pressure values.
- Safety Valve function: The coefficient of elasticity of elastic element can be properly adjusted according to pipeline system pressure to realize the safety valve function needed by the pipeline system.
- Anticorrosive ElasticPart: Check valves adopt PTFE elastic components, so as to realize the optimal anticorrosive function.





Up to 3MPa(435psi) 100% PTFE Diaphragm

Excellent Diaphragm Assembly

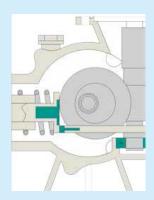
The diaphragm, which is made of high quality modified PTFE material, and, work together with the matched protection assembly, greatly increase the lift of motor driven diaphragm dosing pump.

The maximum lift is up to 3.0Mpa. Thus some hydraulic diaphragm pumps would be replaced by this pump, thereby saving cost.



Spring Return Quiet and Steady

With damping stroke sliding bar, all motor pumps not only reserve the advantages of traditional spring return dosing pumps including simple structure, low failure rate and easy to maintain, but also overcome their fatal shortcomings including large pipe shock, large mechanical vibration, part damage, poor flow linearity and high noise brought by ineffective eccentric travel.





Lightweight Design

Advanced lightweight structure: For energy saving and emission reduction, the pumps adopt many high specific strength materials and smart structural design, so the pumps have very high power-displacement ratio.

Intelligent Stroke Adjuster End the Age of Variable Frequency

Remote Control Electric Stroke Adjuster: It can receive analog signal (4-20mA) to change the stroke length of dosing pump in real time, further, accurately modify the displacement of dosing pump. The adjuster overcomes all major defects of modifying the capacity of dosing pump by variable frequency speed control.

Manual Control Electric Stroke Adjuster: The stroke length of dosing pump can be accurately set and displayed via the operation panel of the adjuster. With error compensation function, the adjuster overcomes the error between actual displacement and its set value directly caused by the random change of stroke length of dosing pump, because traditional knob adjuster doesn't have the selflock function.





MODEL CODE

NDWL 410 0.6 PPV A H

Code	Example							
	NDJS	ND1000						
Model	NDJL	ND2000						
wodei	NDWS	HND						
	NDWL	ND6000						

Capacity L/h

Pressure Mpa

Dosing Head Material

	Pump Head	Diaphragm	Valve Seat	Valve Ball	Seal Ring
PVT	PVC	PTFE	PTFE	Ceramic	FKM
PVDF	PVDF	PTFE	PTFE	Ceramic	FKM
SST	SS316	PTFE	SS316	SS316	FKM
PTF	PTFE	PTFE	PTFE	Ceramic	-

Electric Power Supply

A---3ph 380V 50Hz/60Hz

AVF--3ph 380v 50Hz/60Hz & Variable Frequecncy Motor

AEX--3ph 380v 50Hz/60Hz & Explosion-proof Motor Exd II BT4

B---1ph 220v 50Hz/60Hz

C---Special requirements, otherwise noted

Control H---Manual

Version I----Electric stroke adjuster

*Example

Maximum lift is 6kg, Capacity is 370L/h,380V 50Hz, PVC pump head, 3PH 380V 50Hz, adjustment mode: electric stroke adjustment. Selected model:

NDWL-410/0.6-PVT-A-I

2. Maximum lift is 6kg, Capacity is 370L/h,380V 50Hz, PVDF pump head, 3PH 380V 50Hz variable frequency motor adjustment mode: manual. Selected model:

NDWL-410/0.6-PVDF -AVF-H

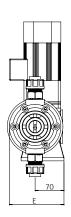
NDJ

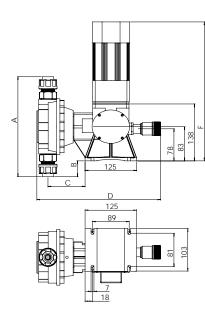
- Eccentric shaft is supported by bearings in front and rear and the cantilever shaft structure of the most of manufacturers on the market is abandoned; the speed reducing motor does not bear axial force and only transmits torque, and this extends the service life of speed reducing motor and makes the process more stable.
- Installation and maintenance are simple and convenient; grease is used for lubrication in the box body and grease is added conveniently, making maintenance easy.
- Stroke length can be adjusted at will during running.
- PVC, PVDF, PTFE and SS316 materials pump head are applicable to dose different kinds of chemical liquid.
- The pure PTFE diaphragm that has a super-long service life guarantees the stability and safety of dosing.
- It can be directly installed on a dosing barrel and this is economical and convenient.



Technical Specifications

Model	Capacity L/h	Maximum Pressure Bar	Stroke Length (mm)	Diaphragm Diameter (mm)	Pump Speed (SPM)	Single-stroke Flow (ml/stroke)	Motor Power (W)
NDJS-40/1.0	40	10	5	90	87	9.7	60
NDJS-60/0.5	60	5	5	90	104	9.7	60
NDJS-75/0.5	75	5	5	90	130	9.7	60
NDJS-100/0.5	100	5	8	90	104	16.5	60
NDJS-130/0.5	130	5	8	90	130	16.5	60
NDJS-150/0.3	150	3	5	105	130	19.2	60
NDJL-70/1.0	70	10	8	90	87	13.4	90
NDJL-80/0.7	80	7	5	90	130	10.3	90
NDJL-105/0.7	105	7	8	90	104	16.8	90
NDJL-150/0.5	150	5	5	105	130	19.2	90





								Inte	erface Size
Model	Material	А	В	С	D	E	F	Thread Size	Socket Pipe Size
ND 10	PVC	224	29	90	300	130	310	G1'	G1/2"-DN15
NDJS -40/1.0	PVDF	224	29	90	300	130	310	G1'	G1/2"-DN15
~130/0.5	PTFE	178	6	90	300	130	310	G1'	
100/0.0	SS316	178	6	97	302	130	310	G1'	
	PVC	239	42	90	300	137	310	G1'	G1/2"-DN15
NDJS	PVDF	224	29	90	300	130	310	G1'	G1/2"-DN15
-150/0.3	PTFE	193	14	90	300	137	310	G1'	
	SS316	193	14	97	302	137	310	G1'	
ND II	PVC	224	29	90	300	130	325	G1'	G1/2"-DN15
NDJL 70/1.0	PVDF	224	29	90	300	130	310	G1'	G1/2"-DN15
~105/0.7	PTFE	178	6	90	300	130	325	G1'	G1/2"-DN15
~ 100/0.7	SS316	178	6	97	302	130	325	G1'	
	PVC	239	42	90	300	137	325	G1'	G1/2"-DN15
NDJL	PVDF	224	29	90	300	130	310	G1'	G1/2"-DN15
150/0.5	PTFE	193	14	90	300	137	325	G1'	
	SS316	193	14	97	302	137	325	G1'	

NDWS

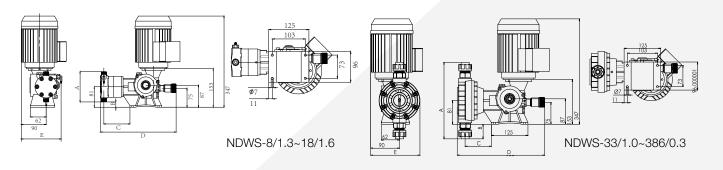
- It is equipped with low pressure die-casting aluminum box with high strength, which ensures solidness and firmness, reduces the mass of the dosing pump and the weight of the overall equipment of later stage.
- The precise worm gear can make the transmission efficiency increase significantly, gain the same pressure displacement, make the motor power smaller and more energy- saving.
- High quality modified PTFE diaphragm manufacturing process can make the maximum pressure of mechanical diaphragm dosing pump reach 30 kg, and make the cost of dosing pump under 12-30 kg pressure system substantially decline.
- The pump head of PVC, PVDF, PTFE, SS316 materials complete series of is suitable for conveying various acids, alkali and salt solutions; nonleakage overflow structure can make sure that the process is stable and orderly.
- Can be equipped with electric stroke adjuster (4-20mA).
- Variable frequency motor and explosion-proof motor are optional.



Technical Specifications

Model	Capacity L/h	Maximum Pressure Bar	Stroke Length (mm)	Diaphragm Diameter (mm)	Pump Speed (SPM)	Single-stroke Flow (ml/stroke)	Motor Power (W)
NDWS-8/1.6	8	16	2	48	118	1.13	180
NDWS-12/1.6	12	16	2	48	177	1.13	180
NDWS-18/1.6	18	16	2	60	118	2.54	180
NDWS-33/1.0	33	10	4	90	118	4.7	180
NDWS-68/1.0	68	10	6	90	118	9.6	180
NDWS-120/0.7	120	7	4	105	177	11	180
NDWS-143/0.6	143	6	6	105	118	20.1	180
NDWS-213/0.5	213	5	6	105	177	20.1	180
NDWS-258/0.4	258	4	10	105	118	36.4	180
NDWS-386/0.3	386	3	10	105	177	36.4	180

Model	Material	Α	В	С	D	Е	Interfa	Interface Size		
Model	Material	A	D		"		Thread Size	Socket Pipe Size		
	PVC	95	5	70	290	150				
NDWS-8/1.6~18/1.6	PVDF	105	10	75	285	150	Flexible tube	Hard tube		
NDW3-0/1.0~10/1.0	PTFE	105	10	75	285	150	φ 6*9 or φ 10*14	connections		
	SS316	105	10	75	285	150				
	PVC	224	31	90	310	150	G1'	G1/2"-DN15		
NDWS-33/1.0~68/1.0	PVDF	224	31	90	310	150	G1'	G1/2"-DN15		
NDW3-33/1.0~00/1.0	PTFE	178	8	90	310	150	G1'			
	SS316	178	8	97	310	150	G1'			
	PVC	239	38	90	310	157.5	G1'	G1/2"-DN15		
NDWS-120/0.7~386/0.3	PVDF	224	31	90	310	150	G1'	G1/2"-DN15		
NDW5-120/0.7~386/0.3	PTFE	193	18	90	310	157.5	G1'			
	SS316	193	18	97	310	157.5	G1'			



NDWL

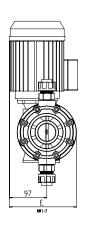
- Eccentric shaft is supported by bearings in front and rear and the cantilever shaft structure of the most of manufacturers on the market is abandoned; the speed reducing motor does not bear axial force and only transmits torque, and this extends the service life of speed reducing motor and makes the process
- Installation and maintenance are simple and convenient; grease is used for lubrication in the box body and grease is added conveniently, making maintenance easy.
- Stroke length can be adjusted at will during running.
- PVC, PVDF, PTFE and SS316 materials pump head are applicable to dosing of different kinds of chemical liquid.
- The pure PTFE diaphragm that has a super-long service life guarantees the stability and safety of dosing.
- Can be equipped with electric stroke adjuster (4-20mA).
- Variable frequency motor and explosion-proof motor are optional.

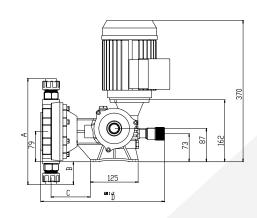


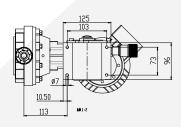
Technical Specifications

Model	Capacity L/h	Maximum Pressure Bar	Stroke Length (mm)	Diaphragm Diameter (mm)	Pump Speed (SPM)	Single-stroke Flow (ml/stroke)	Motor Power (W)
NDWL-275/0.7	275	7	8	120	118	38.7	370
NDWL-355/0.7	355	7	10	120	118	50	370
NDWL-410/0.6	410	6	8	120	117	38.7	370
NDWL-530/0.45	530	4.5	10	120	117	50	370

Model	Material	А	A B	С	D	E	Interface Size	
							Thread Size	Socket Pipe Size
	PVC	259	51	102.5	340	175	G1'	G1/2"-DN15
NDWL-275/0.7~530/0.45	PVDF	259	51	102.5	340	175	G1'	G1/2"-DN15
NDWL-275/0.7~530/0.45	PTFE	213	28	102.5	340	175	G1'	
	SS316	213	28	110	340	175	G1'	







ND1000

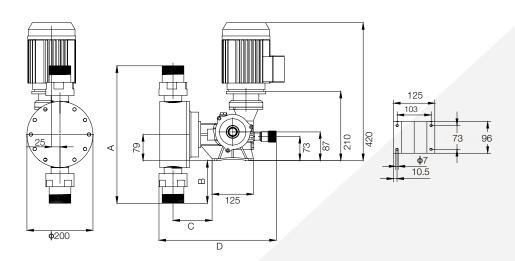
- Motor-driven diaphragm assembly is of simple operation and easy maintenance that the pump head won't leak.
- The operation is smooth and steady, and the noise is much low.
- The high precision and high strength transmission components can make the dosing pump efficiently output, at the same time, its maintenance cost is ultra-low.
- High quality modified PTFE diaphragm assembly can greatly improve the life span of the diaphragm, making it not easy to become a wearing part.
- PVC, PVDF, PTFE and SS316 materials pump head are applicable to dose different kinds of chemical liquids.
- Can be equipped with electric stroke adjuster (4-20mA).
- Variable frequency motor and explosion-proof motor are optional.



Technical Specifications

Model	Capacity L/h	Maximum Pressure Bar	Stroke Length (mm)	Diaphragm Diameter (mm)	Pump Speed (SPM)	Single-stroke Flow (ml/stroke)	Motor Power (W)
ND1000-660/0.5	660	5	10	160	118	93	750
ND1000-1000/0.4	1000	4	10	160	177	93	750
ND1000-1200/0.3	1200	3	12	160	177	113	750

Model	Material	А	В	С	D	Е	Interface size
ND1000-660/0.5~1200/0.3	PVC	340	90	120	370	197	G2-1/4' DN40
	PVDF	340	90	120	370	197	G2-1/4' DN40
	PTFE	340	90	120	370	197	G2-1/4' DN40
	SS316	340	95	125	370	197	G2-1/4' DN40



ND2000

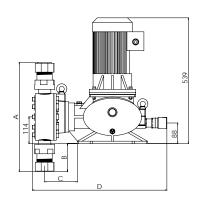
- The high-strength casting aluminum box body is used and it is sturdy and durable, and moreover, total weight is reduced greatly.
- The motor directly drives the eccentric shaft and the spring return structure is used; the structure is simple and stable and easy to maintain.
- The damping sliding bar structure is applied to overcome the vital shortcomings: large pipe shock, excessive mechanical vibration, parts damage, poor flow linearity and high noise, arising from invalid eccentric travel.
- High-quality modified PTFE diaphragm assembly is durable and the lift of dosing pump is greatly increased.
- PVC, PVDF, PTFE and SS316 materials pump head are applicable to dose different kinds of chemical liquids.
- Can be equipped with electric stroke adjuster (4-20mA).
- Variable frequency motor and explosion-proof motor are optional.

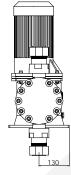


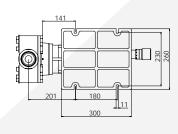
Technical Specifications

Model	Capacity L/h	Maximum Pressure Bar	Stroke Length (mm)	Diaphragm Diameter (mm)	Pump Speed (SPM)	Single-stroke Flow (ml/stroke)	Motor Power (W)
ND2000-500/1.0	500	10	8	155	200	42	750
ND2000-700/0.9	700	9	10	155	200	58	750
ND2000-1000/0.6	1000	6	12	160	200	83	750
ND2000-1300/0.4	1300	4	14	160	200	108	750
ND2000-1600/0.3	1600	3	15	160	200	135	750
ND2000-2000/0.3	2000	3	16	160	200	166	750

Model	Material	А	В	С	D	Interface size
ND2000-500/1.0~1000/0.6	PVC	340	51	102.5	340	G2-1/4' DN40
	PVDF	340	51	102.5	340	G2-1/4' DN40
	PTFE	340	28	102.5	340	G2-1/4' DN40
	SS316	340	28	110	340	G2-1/4' DN40
	PVC	460	120	140	580	G2-1/4' DN40
ND2000-1300/0.4~2000/0.3	PVDF	460	120	140	580	G2-1/4' DN40
ND2000-1300/0.4~2000/0.3	PTFE	460	120	140	580	G2-1/4' DN40
	SS316	460	90	147	580	G2-1/4' DN40







HND

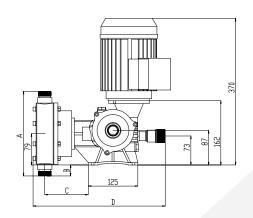
- The diaphragm is mechanically driven and spring returned, and the structure is simple and easy to maintain.
- High-quality modified diaphragm assembly with maximum pressure of 30
 Bar can replace low pressure hydraulic diaphragm dosing pumps in a part of application places, greatly reducing the user's initial input cost.
- In the post-maintenance, because there is no hydraulic oil chamber and
 other hydraulic assemblies, the maintenance become very simple. As the
 high-quality modified PTFE diaphragm assembly is applied, extending the
 service life of the diaphragm and reducing the post-maintenance cost greatly.
- Application of damping sliding bar makes the dosing pump run smoothly, with extremely low noise.
- PTFE elastic component and one-way valve are optional and the high-viscosity corrosive liquid can be conveyed; outlet end has back pressure.
- It can be matched with electric stroke adjuster (4-20mA).
- Variable frequency motor and explosion-proof motor are optional.

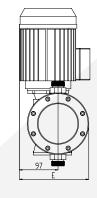


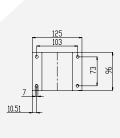
Technical Specifications

Model	Capacity L/h	Maximum Pressure Bar	Stroke Length (mm)	Diaphragm Diameter (mm)	Pump Speed (SPM)	Single-stroke Flow (ml/stroke)	Motor Power (W)
HND-47/3.0	47	30	4	90	118	6.6	370
HND-70/2.0	70	20	4	90	177	6.6	370
HND-115/1.8	115	18	6	105	118	16.2	550
HND-135/1.6	135	16	7	105	118	19	550
HND-160/1.2	160	12	8	105	118	22.6	550

Model	Material	А	В	С	D	Е	Interface size
HND-47/3.0~70/2.0	SS316	178	10	105	334	157	G1"
HND-115/1.8~160/1.2	SS316	193	18	105	335	166	G1"







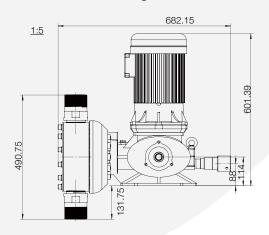


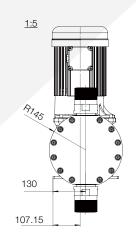
ND6000

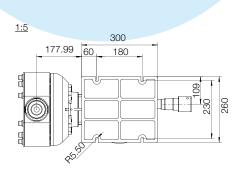
Technical Specifications

Model	Capacity L/h	Maximum Pressure Bar	Stroke Length (mm)	Diaphragm Diameter (mm)	Pump Speed (SPM)	Single-stroke Flow (ml/stroke)	Motor Power (KW)	Interface size
ND6000-2000/0.9	2000	9	16	160	200	166	1.5	DN50
ND6000-3000/0.6	3000	6	16	240	200	252	1.5	DN50
ND6000-4000/0.6	4000	6	18	240	200	334	1.5	DN50
ND6000-5000/0.4	5000	4	20	240	200	410	1.5	DN50
ND6000-6000/0.3	6000	3	24	240	200	500	1.5	DN50

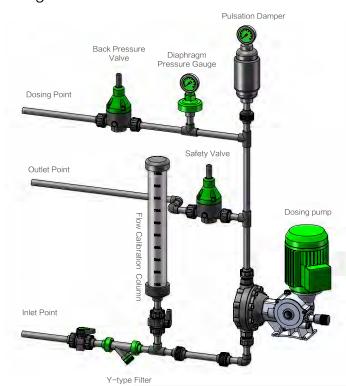
Dimensional Drawings





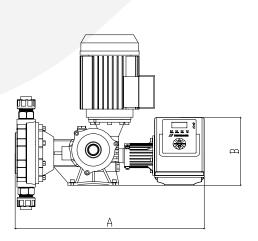


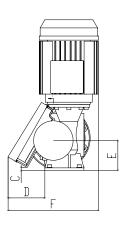
Typical Installation Diagram



ELECTRIC STROKE ADJUSTER

- The adjuster can be both manual operation and current signal control.
- In manual mode, stroke length of dosing pump can be accurately set and displayed via the operation panel of the adjuster. With error compensation function, the adjuster overcomes the error between actual displacement and its set value directly caused by the random change of stroke length of dosing pump because traditional knob adjuster doesn't have the self-lock function.
- The return-to-zero operation in the functions, simply and effectively calibrates the accuracy of electric stroke adjuster, making dosing more accurate.
- In the analog signal (4-20mA) control mode, dosing in direct proportion or in inverse proportion can be achieved according to the user requirements.
 And the stroke length of dosing pump could be adjusted in real time, further, accurately modify the displacement of dosing pump.
- Modular interface design can customize a linkage to change the dosing pumps that only allow variable frequency adjustment into the dosing pumps of which stroke length can be adjusted intelligently.





Technical Specifications

Model	А	В	С	D	E	F
NDWS-33/1.0~68/1.0	445	170	8	90	73	205
NDWS-117/0.7~386/0.3	455	170	8	90	73	205
NDWL-275/0.7~530/0.45	470	170	8	90	73	222
ND1000-660/0.5~1200/0.3	515	170	8	90	73	273
ND2000-500/1.0~2000/0.3	702	182	16	2	88	262
HND-47/3.0~70/2.0	470	170	8	90	73	222
HND-115/1.8~160/1.2	490	170	8	90	73	245



E SERIES MOTOR DOSING PUMP

Flow rate: 30-150 L/HMaximum Pressure: 7 Bar

Power Supply: 220V single phase, 380V three-phase
Pump Head: PP with ceramic ball valves, FKM seal
Stroke length adjustment: Manual control 0-100%

• Function: 220V Start/stop button, float switch options available

• Installation Kit: 2m each of suction and delivery tube, foot valve, connectors for hard pipe.



Technical Specifications

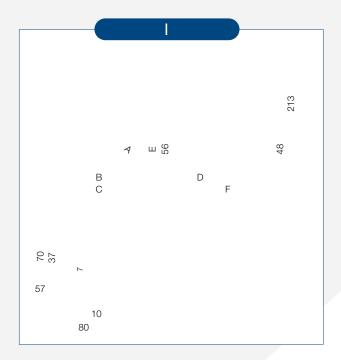
Model	Capacity L/h	Max.Pressure Bar	Stroke Length (mm)	Diameter (mm)	Pump Speed (SPM)	Single-stroke Flow (ml/stroke)	Motor Power (W)	Electricity (V)
E30-07	30	7	2	60	250	2	25	220/380
E42-05	42	5	3	60	250	2.8	25	220/380
E60-02	60	2	4	60	250	4	25	220/380
E72-03	72	3	5	70	180	6.67	25	220/380
E90-025	90	2.5	3	88	180	8.34	25	220/380
E120-02	120	2	4	88	180	11.11	25	220/380
E150-03	150	3	5	88	174	14.37	40	220/380

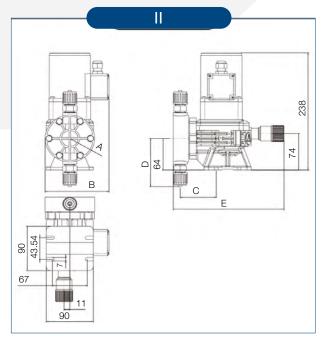
Technical Features

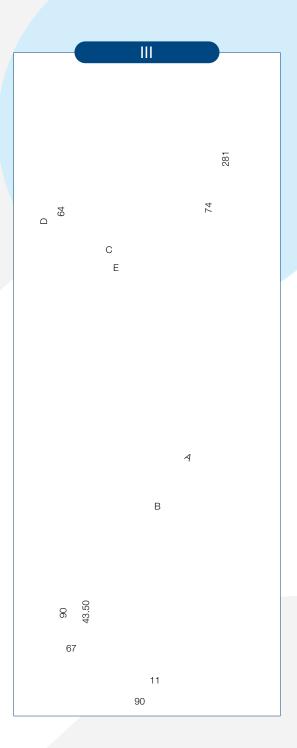
- The unique structure design is in high effcience andenergy saving that reduce much more energy consuption than equality motor.
- The diaphragm part is made of 100%PTFE material /Teflon with best quality under the long-term experience, that the pump could work without liquids and no damage to diaphragm.
- The duckbill valve are being applied in foot valve, no reversed flow, even the pressure become higher and the valve will be sealed better.
- There are independent switch and fuse in the multi-functional terminal box. It can work with float switch to control the start-stop, being widely used in single pump dosing system.



Dimensional Drawings







Technical Specifications

Туре		А	В	С	D	E	F
E-30/0.7-E-60/0.3	I	R44	63	112	57.5	75	186
E-72/0.3-E-120/0.2	II	R47.5	122.5	69	97.5	212	-
E-150/0.3	III	R52.5	136.5	95	102	241	-

MICRO-MECHANICAL
DIAPHRAGM METERING PUMP

- Full PTFE material diaphragm
- Integrated pump head with check valves
- 2% metering accuracy
- Various operation position
- Lower noise
- Higher protection class IP65
- Capacity adjust by stroke length 10-100%

Power supply: 220V 50Hz Single phase Length of wire: 1.5m

Solution Temperature: 0-45 °C

Suggested stroke adjustment range 10%-100%



Technical Parameter Sheet

Model		Capacity L/h	Pressure Bar	Stroke Length (mm)	Diaphragm Diameter (mm)	Speed (SPM)	Motor (W)
	01-07	1	7	1	35	115	28
	02-07	2	7	2	35	80	28
MX30	03-07	3	7	2	35	115	28
	05-05	5	5	2.5	35	115	28
	08-03	8	3	3	35	115	28
	09-07	9	7	2	47	115	41
MX40	12-06	12	6	3	47	80	41
IVIA40	15-04	15	4	3	47	115	41
	18 -02	18	2	4	47	115	41

Material Sheet

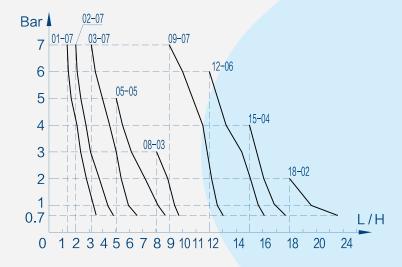
Pump Head Assembly

	PPV	PVT	PTF	SST
PUMP HEAD	PP(FRPP)	PVC	PTFE	SS316
DIAPHRAGM	PTFE	PTFE	PTFE	PTFE
VALVE BALL	CERAMIC	CERAMIC	CERAMIC	SS316
VALVE SEAT	PTFE	PTFE	PTFE	SS316
VALVE BODY	PP(FRPP)	PVC	PTFE	SS316
SEALS	FKM	FKM	PTFE	PTFE

Accessory Kit

	STANDARD	PVT	PTF	SST
	STANDARD	PTFE	PU	UPVC Hard Hose
INLET PIPE	PE	PTFE	PU	/
OUTLET PIPE	PVC	PTFE	PU	/
THREE-PIECE CONNECTORS	PVC	PTFE	PVC	/
BIG NUT	PVC	PTFE	PVC	PVC
FOOT VALVE	PP(FRPP)	/	PP(FRPP)	/
SPRAYER	PP(FRPP)	/	PP(FRPP)	/
SMALL NUT	PP(FRPP)	/	PP(FRPP)	/
HARD HOSE CONNECTORS	/	/	/	PVC

Pump Flow Diagragm

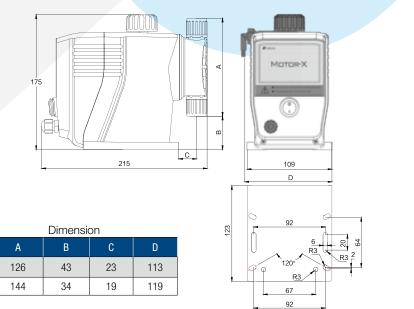


Installation

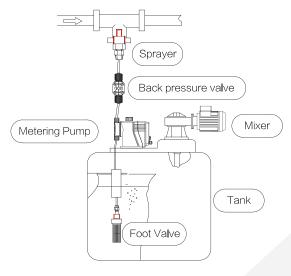
The base support could be installed to the wall in various direction only need to insure the check valves be perpendicular to the ground.

Installation Accessories

- 2m PVC inlet pipe
- 1.5m PE outlet pipe
- 2 sets three-piece connectors
- one filter and one sprayer

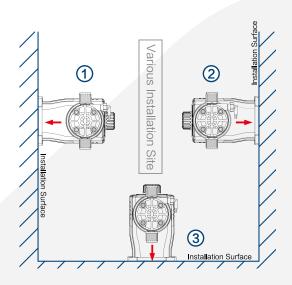


Typical Installation Diagram



MX30

MX40



TANK60 INTEGRATED DOSING SYSTEM

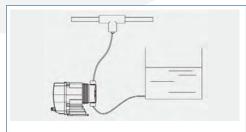
- Can be equipped with NEWDOSE electromagnetic dosing pumps;
- The flow calibration tube shows the liquid level in real time;
- Simple installation, disassembly and washing, and sewage can be discharged at any time;
- Multiple safety protection design to prevent damage caused by liquid leakage and corrosion;
- Integrated design, without the need to prepare other accessories as a base;
- Can be equipped with mixer, liquid level sensor, controller, electrical panel, fault alarm, remote signal adjustment;
- The integrated complete set of dosing device is safe, efficient, simple and beautiful.



Model Table

Model	Volume L	Pump Quantity Unit	Pump Model
TANK 60-1-M	60	1	All solenoid dosing pump series / Motor-X
TANK 120-2-M	120	2	All solenoid dosing pump series / Motor-X

Multifunctional Integrated Design



Ideal installation position: the position of the pump in the system is the best condition, and cavitation is not easy to produce, the amount of gas generated and accumulated inside the pipe is small, and it is not easy to produce blockage of gas.



Flow Calibration: Tum the knob clockwise to calibrate and calibrate the dosing pump flow.

Actual flow = difference between initial and final liquid leve* 2 *60 (L / h)



Unscrew the outer cable plug to dra in, easy to operate, and the maintenance barrel and pipe can be cleaned at any time.



PVC calibration tube, clean and read the value of the liquid level in the barrel.



Three sets of bolt holes are reserved at the bottom of the barrel, which can be fitted with a full range of new Dotz electromagnetic pumps and Motor-X miniature mechanical diaphragm pumps.



The installation position of the mixer is reserved at the lop to perform the mixing function.



Equipped with a transparent bucket cover to protect the pump and prevent malfunction by on-site personnel.



The connection between the barrel cap and the barrel is made of a stainless steel plate, which is durable and not brittle



The bottom is equipped with fixing bolts to prevent accidental operation falling off.



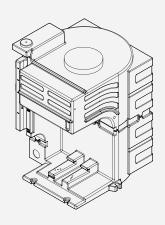
Equipped with safety stickers to warn the scene and standardize the operation.

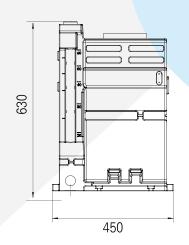


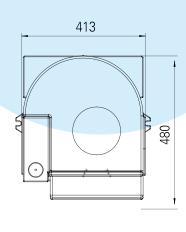
Parameters Table

Model	Volume L	Material	Water contact Material	Weight(KG)
TANK 60-1-M	60	PE	PE, PVC, PP, FPM etc.	9.5
TANK 120-2-M	120	PE	PE, PVC, PP, FPM etc.	/

Dimension







Pump Mode





Optional equipments













Ms Snow Zhao

snow@snowate.com snow@membranehousing.org Mobile: +86-15030811699 (WhatsApp, WeChat, Skype, Viber)