

APPLICATION AREA













Iron and steel industries

Inner Mongolia's Electric Energy Investment Co., Ltd.

Liaoning Datang International Jinzhou Thermal Power Co., Ltd.

Petroleum and petrochemical

China National Petroleum Corporation (CNPC) Jinzhou Branch

Sinopec Group Jiangsu Petroleum **Exploration Bureau**

Industrial applications

Vinda Paper (Zhejiang) Co., Ltd. China CNR Corporation Limited (CNR) SAIC Motor Corporation Limited

Water treatment

Xiushan Township 5000 tons of Seawater Kraft Foods (Suzhou) Co., Ltd. Desalination Project in Daishan County Beijing Yansan Veolia Water Co., Ltd. Zhoushan Liuheng Water Supply Limited Beijing OriginWater Technology Co., Ltd.

Food and pharmaceuticals

Harbin Pharm. Group Sanjing Pharmaceutical Shareholding Co., Ltd.

Guangxi Coca-cola Beverage Co., Ltd.

Nongfu Spring Fusong Changbai Mountains Natural Mineral Water Co., Ltd.

HVAC

Royal Philips LCC2A Zhongshan Station (Antarctica) Gree Electric Appliances Inc. of Zhuhai

Other fields

Lawrence Pump Machinery (Beijing) Co., Ltd.

GW, GS Series Mechanical Diaphragm Metering Pumps

Main Performance Parameters

- Max flow rate: 53L/h
- Max discharge pressure: 10bar
- Steady-state accuracy ± 1%
- Maximum suction lift height: 1.5m water column
- Max ambient temperature: +40℃
- · Max inlet pressure: 1bar

Major Features

Fluid End

- · Mechanical drive diaphragm and material side without diaphragm are easy for passing the materials
- Various pump head materials include PVC, PVDF, 316SS and others. They are suitable for conveying various materials
- Self-cleaning check valve structure

Drive End

GW Series

- Variable eccentric structural adjustment ensures smooth fluctuations in flow pulsation
- Upgraded structural for harsh operating environments

- GW Series Mechanical Diaphragm Metering Pump
- It adopts reliable cam structure, with lower noise, flexible disassembly, and easy maintenance features, for harsh working conditions
- It is supported by sliding bearing, which ensures smooth and reliable work states, non-noise, lower maintenance costs

Control Mode

- Power supply: 380V/220V-50Hz/60Hz/three-phase/single-phase.
- Motor controller determines three-phase motor by "on/off" mode, adjusts the output flow

Main Applications

• It is mainly used in following fields, such as reverse osmosis (ultrafiltration), industrial water, wastewater, swimming pools, desalination and other water treatment process

Main Components of the Fluid End

Fluid End	Pump head	Valve body	Valve seat	Valve ball	Isolating Diaphragm	Seal Ring	Connections
PVC	PVC	PVC	PVDF	Zirconia	PTFE composite diaphragm	Fluororubber	PVC
PVDF	PVDF	PVDF	PVDF	Zirconia	PTFE composite diaphragm	Fluororubber	PVDF
316SS	316SS	316SS	316SS	316SS	PTFE composite diaphragm	Fluororubber	316SS

Annexes

- The necessary annexes should be provided, such as: filter, calibrator, pulsation damper, safety valve and counter balance valve.
- The pump with PVC head, its range of GW003~055, GS003~055, should be equipped with injection valve, foot valve, counterweight and 6m hose, except for 316 pump head, PVDF pump head.

Standard Motor Performance Parameters

- Power supply: 380V/220V-50Hz/60Hz/three-phase/single-phase
- IP grade: IP54

www.cnppump.com

- Insulation class: Class F
- All motors shall comply with IEC or NEC standards



Leader in Hydrodynamics







GW, GS Series Mechanical Diaphragm Metering Pumps Model Description

				_
Series	Flow/Pressure	Fluid End	Interface	Flectric Motor

Series

Code	Description	Code	Description
GW	GW Series Mechanical Diaphragm Metering Pump	GS	GS Series Mechanical Diaphragm Metering Pump

Flow/Pressure

Code	Max flow rate (L/h)	Stroke frequency (min ⁻¹)	Max Bar (bar)	Stroke (mm)	Diaphragm (mm)	Motor power (W)
GW003	4.5	20				
GW005	6	30	10			
GW010	13	50				
GW025	24	83	7			
GW030	30	100	/			
GW035	36	120	5			
GW045	46	150	4			
GW055	53	166	2	4	60	25
GS003	4.5	20				
GS005	6	30	10			
GS010	13	50				
GS025	24	83	7			
GS030	30	100	'			
GS035	36	120	5			
GS045	46	150	4			
GS055	53	166	2			

Fluid End

Code	Description	Code	Description
Р	PVC fluid end	Т	PVDF fluid end
S	316 fluid end	Z	As for special fluid end, please consult Nanfang Pump, and indicate in order

Interface

Code	Description	GW003~055, GS003~055				
0040	Description	PVC	PVDF	316		
Р	NPT thread	1/2"F	1/2"F	1/2"F		
Q	Hard pipe fittings of inner pipe nozzle	DN15				
R	Hose connector	6×12	6.35×9.52 =			
X	Special interface	Please co	onsult Nanfang pump, and indicat	e in order		

Note: the red parameters are standard configuration.

The product is not equipped with injection valve, foot valve, counterweight and PTFE hose by default. Please make additional inquiry to the factory.

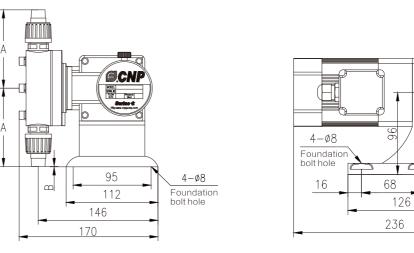
Electric Motor

Code	Description
1	25W, 1440rpm, 3PH-50Hz-380V,IP54/F/TEFC
2	25W, 1440rpm, 1PH-50Hz-220V,IP54/F/TEFC
3	Consult Nanfang Pump for additional information



GS Series Mechanical Diaphragm Metering Pump •

• GW Series Dimensions



GW series side view

GW series front view

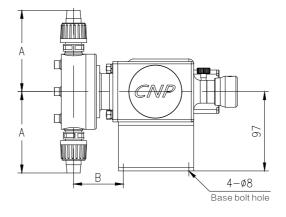
47

• GW Series Mounting Dimensions

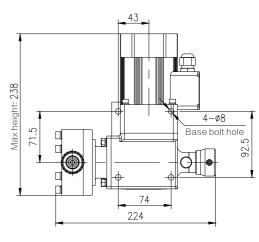
GW003-055

Pump Head Material	Interface code	A(mm)	B(mm)
	Р	125	0.7
PVC	Q	125	27
	R	99	2
PVDF	Р	94	-4
I VDI	R	99	2
316	Р	99	3

GS Series Dimensions



GS series side view



GS series bottom view

GS Series Dimensions

G3003-033			
Pump Head Material	Interface code	A(mm)	B(mm)
	Р	125	
PVC	Q	125	61
	R	99	
PVDF	Р	94	61
1 401	R	99	01
316	Р	99	62

Leader in Hydrodynamics PAGE 9

