



Technical Catalogue



GLS Series

Mechanical Diaphragm Metering Pump

GLS series mechanical diaphragm metering pump

Main performance parameters

Maximum flow rate: 152L/h

Maximum discharge pressure: 12bar

Steady-state accuracy $\pm 1\%$

The suction lifting height can reach up to 1.5m water column

Maximum ambient temperature: +40°C

Main features

Hydraulic end

The diaphragm is mechanically driven, and there is no diaphragm guard plate on the material side to facilitate the passage of the material.

PVC, PVDF, 316SS and other pump head materials are available, which are suitable for conveying various materials.

Self-cleaning check valve structur.

Driver

The reducer drives the eccentric mechanism to ensure smooth flow delivery.

Enhanced structural design, suitable for harsh operating environments.

It is supported by special bearings and lubricated with grease, which makes it work smoothly, reliably, with low noise and low maintenance costs.

Control mode

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

The motor controller controls the three-phase motor in an "on/off" manner and adjusts the output flow.

Main application

Environmental protection, petrochemical industry, chemical industry, petroleum refining, electric power, metallurgy, medicine, food, water treatment and other fields.

Motor performance parameters

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

Insulation grade: F grade

Protection class: IP54

All motors comply with IEC or NEC standards

When choosing a 60Hz motor, the pump flow rate increases by 20%



Material of main components of liquid end

Hydraulic end	Pump head	Body	Valve Seat	Valve Ball	Bullet Yellow	Diaphragm	Seal Diagram
PVC	PVC	PVC	PVDF	Oxydation error (Qualcomm) 	-----	PTFE composite diaphragm	FPM/EPDM*/Oxygen-coated*
PVC High Viscosity	PVC	PVC	PVDF	Oxydation error (High quality) 	Inconel600 (Hastelloy C) 	PTFE composite diaphragm	FPM/EPDM*/Oxygen-coated*
PVDF	PVDF	PVDF	PVDF	Oxydation error (Gao Yuanjia) 	-----	PTFE composite diaphragm	FPM/EPDM*/Oxygen-coated*
316SS	316SS	316SS	316SS	Oxydation error	-----	PTFE composite diaphragm	FPM/EPDM*/Oxygen-coated*

Optional items

-  GLS015-060 is configured with oxidized silicon material by default, and GLS070-150 is configured with high-hardness silicon material by default. GLS015-060 default configuration INCONEL600 material, GLS070-150 default configuration Hastelloy C material.

Model Definition of GLS Series Mechanical Diaphragm Metering Pump

Series Flow Hydraulic end Interface Motor

Series

Encoding	Description
GLS	GLS series mechanical diaphragm metering pump

Make Fluid Transportation Smarter

Flow

	Maximum flow rate (L/h)	Number of stroke (min')	Maximum pressure (bar)	Stroke (mm)	Motor Power (W)
GLS150	152	165	3	6	90
GLS120	122	140	5		
GLS100	102	120			
GLS085	87	100			
GLS070	70	82			
GLS060	60	165	10	4	60
GLS040	40	120			
GLS025	24	75			
GLS015	14	41	12		

Liquid end

Encoding	Description
P	PVC hydraulic end
S	316 hydraulic end
Z	For the hydraulic end of special material, consult pump industry and explain when ordering
T	PVDF hydraulic end
V	High viscosity application: PVC hydraulic end

Connector

Encoding	Description	GLS015-GLS060			GLS070-GLS150		
	Hydraulic end	PVC	PVDF	316	PVC	PVDF	316
P	NPT threaded interface	1/2"F	1/2"F	1/2"F	1/2"F	1/2"F	1/2"F
Q	Inner nozzle hard tube intubation interface	DN15	-----	-----	DN15	-----	-----
R	Hose interface	6x12	6.35x9.52	-----	-----	-----	-----
X	Special interface	Consult pump industry and explain when ordering			Consult pump industry and explain when ordering		

Note: The red text parameter part is the standard configuration.

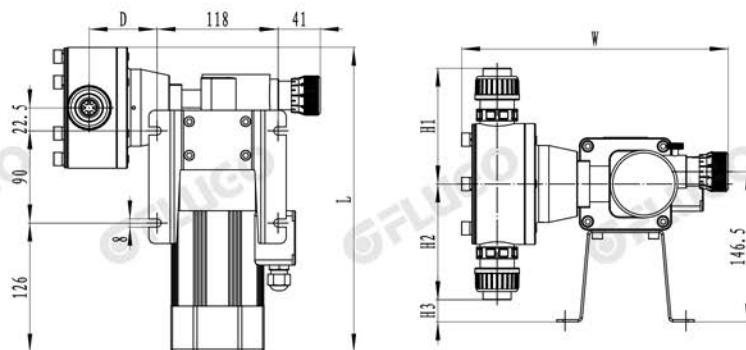
■ PVC hose is 6 meters long/root; 1 hose is configured by default at the factory.

■ The injection chamber, bottom valve, counterweight and tetraoxygen hose are not configured at the factory. Please order additional and inquire with the factory.

Motor

Encoding	Description
1	90W, 1440rpm, 3-50Hz-380V, IP54/F/TEFC
2	90W, 1440rpm, 1-50Hz-220V, IP54/F/TEFC
3	For others, please consult pump industry
4	60W, 1440rpm, 3-50Hz-380V, IP54/F/TEFC
5	60W, 1440rpm, 1-50Hz-220V, IP54/F/TEFC

GLS Series dimensions



GLS Series installation dimensions

GLS070-GLS150						GLS015-GLS060					
Material	PVC	PVC high viscosity	PVDF	316		PVC	PVC high viscosity	PVDF	316		
Interface	P	Q	P	Q	P	P	R	P	Q	P	P
H1	112	112	138	138	112	116	107	132	132	132	108
H2	112	112	112	112	112	116	107	132	132	132	108
H3	22	22	22	22	22	18	28	2	2	33	26
L	297	297	297	297	297	297	292	292	292	292	292
D	66	66	66	66	66	66	52	52	52	52	52
W	260	260	260	260	260	260	244	244	244	244	244



Mechanical Diaphragm Metering Pump

Authorized Distributor