LANGO®

Mechanical Diaphragm Metering Pump

GY Serials Technical Brochure



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Ver.: C-GY-2024/A

GY series are mechancial diaphragm metering pumps with max flow up to 200L/H and pressuer up to 10 bars. It is manual adjustment mechanical stroke length regulation. Different liqud end materials suitable for different chemicals dosing.

Main Performance Parameters

- Max Flow Rate: 200L/H
- Max Pressure: 10 Bars
- Steady State Accuracy: ± 2% between 30% and 100% of rated flow rate
- Allowable Ambient Temperature: 0～40°C.
- Allowable Liquid Temperature: 0～40°C(PVC) 0～60°C(PVDF/SS)
- Voltage: 110V/220V/380V/DC 12V/DC24V/Ohters on request

Main Features

- Manual flow adjustment mechanical stroke length regulation
- Reboust design,easy to install
- NSK bearing
- Composite PTFE diaphragm with EPDM back baffle structure
- Various pump head materials such as PVC, PVDF, SS316, etc
- The protection level has been raised to F level IP55

Applications

Water treatment, waste water treatment, food&beverage, chemical, general industry, etc.

Paramter Table

Model	Diphragm mm	Max Flow Rate L/H		Stroke Speed SPM		Max Pressure Mpa	Power W
		50Hz	60Hz	50Hz	60Hz		
GY25	65	25	30	75	90	1.0	40
GY40		40	48	120	144	0.5	
GY60		60	72	166	200		
GY75		75	90	186	222		
GY90	84	90	108	75	90		90
GY150		150	180	120	144		
GY200		200	240	166	200	0.3	

Refference flow rate under different pressure

Pump model		GY25		GY40		GY60		GY90		GY150		GY200	
		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz
Capacity (ml/min)	0 MPa	420	500	670	800	1000	1200	1500	1800	2500	3000	3500	4200
	0.3 MPa	380	460	640	760	830	1000	1150	1370	1950	2300	3000	3600
	0.5 MPa	370	440	600	730	800	960	1130	1350	1900	2280	2500	3000
	1.0 MPa	340	410	550	660	—	—	—	—	—	—	—	—

Liquid End Material

Head	Ball	Seat	Cover	Gasket	Oring	Diaphragm
PVC	Ceramic	PVC	PVC	PTFE	FKM	Composite PTFE
PVDF	Ceramic	PVDF	PVDF	PTFE	PTFE	
PTFE	Ceramic	PTFE	PTFE	PTFE	PTFE	
SS304	SS304	SS304	SS304	PTFE	PTFE	
SS316	SS316	SS316	SS316	PTFE	PTFE	

Connection

Model	PVC	PVDF	SS304/SS316
GY25	DN15 glue union / 8×13mm PVC tube	DN15 welding union	Rc1/2" thread
GY40			
GY60			
GY75			
GY90			
GY150			
GY200			

Note:
1. Tested by clean water at normal temperature,, suction height 1 meters, stroke length 100%
2. Back pressure valve is required for stable and accurate discharge.
3. Stroke length adjustment mode: manual adjustment during stop and operation.
4. Liquid temperature: -10 to +40°C for PVC; -10 to +80°C for PVDF & SS
4. Optional for motors: DC12V,DC24V,110V 1ph, 220V 1 ph, 380V 3ph

Identification Code

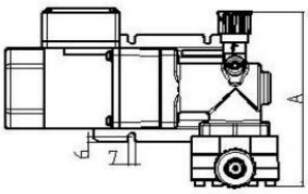
ID	GY	25	VC	U	1	1	C
Item	1	2	3	4	5	6	7
Code	Model	Flow	Material	Connection	Voltage	Motor	Plug

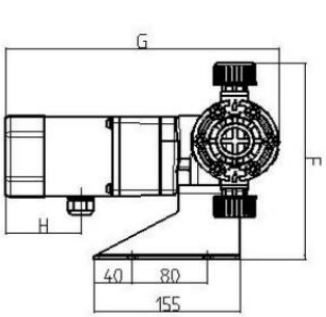
Item	Code	Desctription
1	GY	GY model
2	Flow	Flow rate at 0 bars,（detailed flow rate and pressure see above table)
3	C	PVC head/Ceramic ball/PVC seat/PVC cover/PTFE gasket/FKM O ring
	F	PVDF head/Ceramic ball/PVDF seat/PVDF cover/PTFE gasket/PTFE O ring
	E	PTFE head/Ceramic ball/PTFE seat/PTFE cover/PTFE gasket/PTFE O ring
	4	SS304 head/SS304 ball/SS304 seat/SS304 cover/PTFE gasket/PTFE O ring
	6	SS316 head/SS316 ball/SS316 seat/SS316 cover/PTFE gasket/PTFE O ring
4	R	Tube
	U	Union
	F	Flange
	Y	Thread
5	1	380V 3PH 50/60Hz
	2	220V 3PH 50/60Hz
	3	220V 1PH 50/60Hz
	4	110V 1PH 50/60Hz
	5	DC24V
	6	DC12V
	9	Other voltage
6	A	Standard ordinary motor
	B	Explosion proof motor BT4
	C	Inverter motor
	D	Explosion proof inverter motor BT4
	E	Other type motor
7	A	Australia, New Zealand, Taiwan
	B	British
	C	China
	E	Europe
	U	United States
	S	South Africa
	X	No Plug

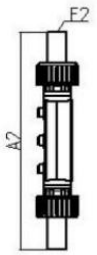
OPTIONAL ACCESSORIES

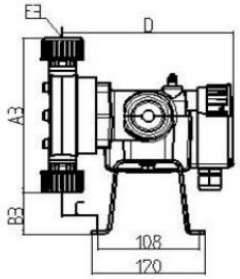
	Name	Model
Standard	Unions	DN15
Options	Filter Valve	SFV-8*13
	Injection Valve	CA-21
	Back Pressure Valve	BYF
	Hose	8*13mm

Installation Dimensions









Model	Material	A	A2	A3	B3	C	D	E2	E3	F	G	H
GY25 •40 •60	PVC	198	246	174	46	29	180	Φ20	Φ8 X ϕ 13	221	289	80
GY90 • 150	PVC	211	263	192	38	29	188	Φ20	Φ8 X ϕ 13	229	300	80