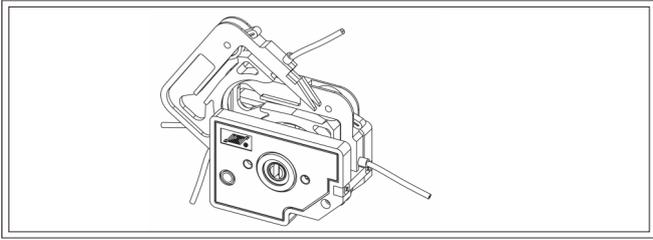


DG Pump Head User Guide



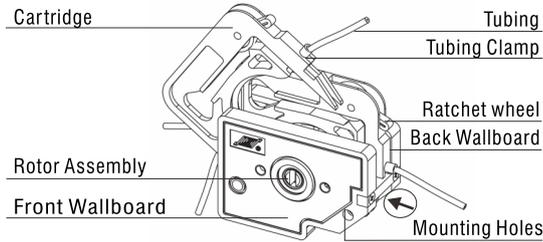
⚠ Important Information:

Please read operating manual carefully before operation.

⚠ Warning:

- Tubing breakage may result in fluid being sprayed from pump. Use appropriate measures to protect operator and equipment. Please check the tubing frequently and change the tubing in time.

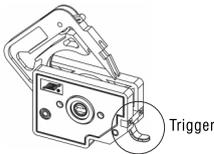
DG Series pump head direction for use



❖ TUBE LOADING

- The tubing length between two stops is 72mm. If one stop on each side can't hold the tubing tightly, please use two stops on each side.
Note: If the stops can't hold the tubing tightly, the tubing will move along with rotor running. This will lead to tubing excessive wear and premature failure.
- Press the cartridge as the arrow direction. (as the figure above)
- Fill the tube with stops into the cartridge working position. (as the figure above)
- Put the ratchet wheel to the lowest position.
- Put the cartridge with the tube on the pump head.

DG-1 pump head



💡 DG-1 pump head can turn trigger to take the cartridge off. (DG-1, DG-2 pump head only)

❖ Pump head tubing occlusion adjustment

- The tubing wall thickness for DG series pump head is 0.8-1 (mm).
- Adjust process
If the wall thickness of tubing is not standard, you can adjust the occlusion as follows: first load the tubing, and push the ratchet wheel to the lowest end to make the occlusion maximum. Place the inlet of the tubing into water and blow from the outlet, there are blebs. Then push the ratchet wheel to the higher till there are exactly no blebs.
If there are still blebs after push the ratchet wheel to the highest end, it suggests that the wall thickness of the tubing is too thin and beyond the applicable range.

💡 In order to prolong the tubing life and reduce the driver unit load, adjust the ratchet wheel in the right position is needed.

Product maintenance

- For optimum tubing life, keep tubing straight where it enters and exits the pump. Stop the drive when changing the tubing or its position in the rotor mechanism (the rotor is partially exposed when the CARTRIDGE is in the open position).
- Keep the roller clean and dry in order to extend the using life of the tube and rotor.
- The Pump head is organic solvent and strong caustic liquid non-resistance!

💡 Service phone: 86-312-3138553

Introduction and general description

DG series pump heads (Multi-channel heads) are designed for small flow rates, multi-channel liquid transportation. Easy to change and load tubing. Occlusion clearance can be fine adjusted. The rotor adopt high performance materials. The rotor assembly with 6 rollers and 10 rollers can be choose. 10 rollers's pump had smaller flux and pulsating. The cartridge of POM had fine self-lubricate. The specifications are shown in the below table.

Type	Rotor materials	Cartridge materials	Weight (kg)	
			6 rollers	10 rollers
DG - 1	SS RULON [®] J	POM	0.21	0.20
DG - 2			0.27	0.26
DG - 4			0.40	0.39
DG - 6		PVDF	0.54	0.51
DG - 8			0.67	0.63
DG - 12			0.95	0.88

Type	Speed (rpm)	Tubing (mm)	Max. flow rate (mL/min)	
			6 rollers	10 rollers
DG - 1	0.1 - 100	Inner Diameter ≤ 3.17 Wall Thickness 0.8-1	48 (Per channel)	32 (Per channel)
DG - 2				
DG - 4				
DG - 6				
DG - 8				
DG - 12				

Pump head installation

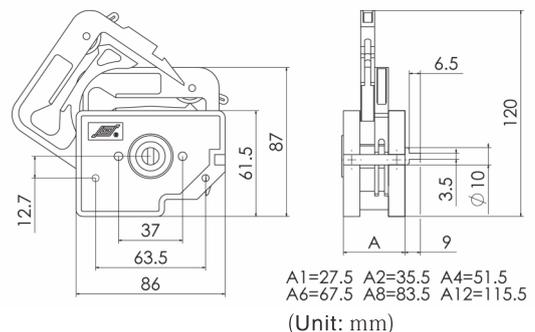
❖ Installation step

- Take off the cartridge and install the pump head.
- The pump head is connected to driver unit by two allen screws (m4).
- Insert the two allen screws into the mounting holes at the back wallboard, connect the pump head with the driver unit end to end, then tighten the screws use the allen wrench.
- Usually the pump head had be connected with the driver unit. Only in washing ect. condition, pump head installation shoud be according to the step above.
- Try your best to tighten the two screws in the same degree. Do not over-tighten the screws to prevent the support block from deforming and buzz.
- The material of Pump head is organic solvent non-resistance!
- Ratchet wheel design for occlusion adjustment, can not adjust the flow rate.

Warranty

The warranty period for this product is one year. If repair or adjustment is necessary within the warranty period, the problem will be corrected at no charge if it is not due to misuse or abuse on your part, as determined by the manufacturer. Repair costs outside the warranty period, or those resulting from product misuse or abuse, may be invoiced to you.

Mounting Size



Pump head mounting size