GLUDITEC
Glue & Dispensing Technology

GSP

SINGLE PROGRESSIVE CAVITY PUMP

- Suck-back effect
- Dosage independent of input pressure
- Pressure-tight without valve
- Easy cleaning
- Adjustable dispensing flow
- Various dispensing volume options

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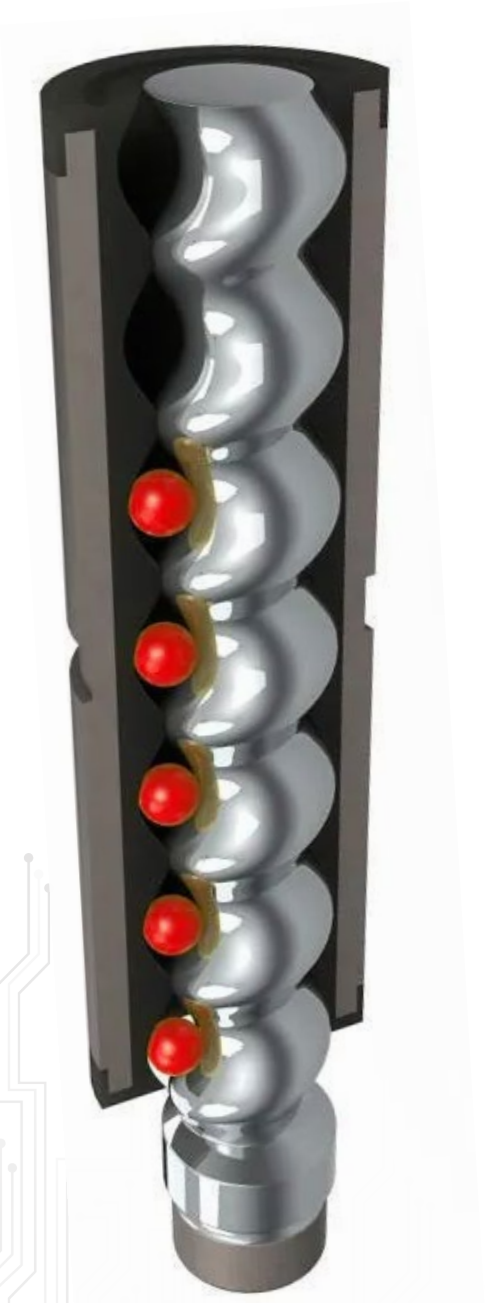
WHAT MAKE GSP BECOME HIGH PRECISION SOLUTION?



Positive Displacement

Progressive cavity pumps are positive displacement pumps, meaning they deliver a fixed volume of fluid with each revolution of the screw-like rotor. This characteristic ensures a consistent and accurate flow rate, regardless of changes in system pressure or viscosity of the fluid being pumped.

Screw Geometry

The screw-like rotor inside a progressive cavity pump is precision-engineered with a specific helical geometry. This geometry creates tightly controlled chambers between the rotor and the pump casing, trapping and displacing a precise volume of fluid with each rotation. The close tolerances between the rotor and the casing minimize slip and ensure accurate metering of the fluid.

Variable Speed Control

GLUDITEC progressive cavity pumps offer variable speed control, allowing operators to adjust the pump's rotational speed to precisely match the desired flow rate. This fine-tuning capability enables accurate dispensing of fluids across a wide range of viscosities and application requirements.

Linear Flow

Progressive cavity pumps typically exhibit linear flow characteristics, meaning the flow rate is directly proportional to the pump speed. This linear relationship simplifies flow control and enhances the pump's predictability and accuracy.

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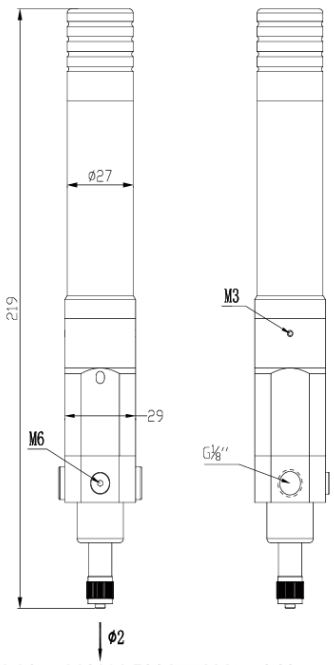
GDP-S

Mini SINGLE PROGRESSIVE CAVITY PUMP

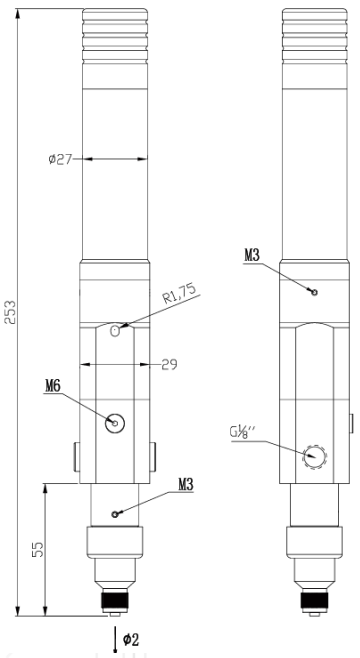
GLUDITEC GSP precision of progressive cavity pumps is a result of their positive displacement action, precise screw geometry, variable speed control, linear flow characteristics, and low pulsation, making them well-suited for applications that demand accurate and consistent fluid dispensing.

Model	ml/rev	Speed (mL/min)	Inlet	Net weight (g)
GSP-030S	0.003mL	0.03~ 0.36	1/8"	350
GSP-100S	0.01mL	0.1~1.2	1/8"	350
GSP-600S	0.06mL	0.6~7.2	1/8"	400
GSP-2000S	0.203mL	2~24	1/8"	1.3

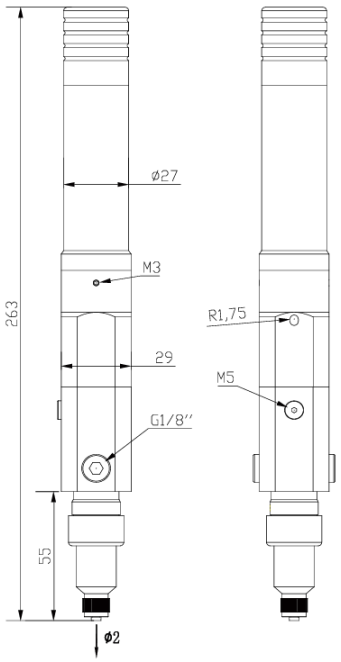
Drawing



GSP-030S & GSP-100S



GSP-600S



GSP-2000S

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GDP-L

Large SINGLE PROGRESSIVE CAVITY PUMP

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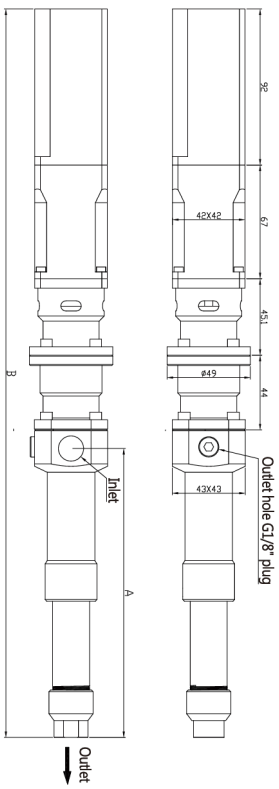
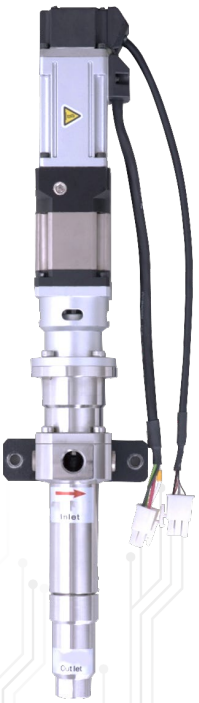
Model	ml/rev	Speed (mL/min)	A	B	Inlet	Outlet	Net weight (g)
GSP-4000L	0.4mL	4~ 48	135	393	1/4"	1/4"	350
GSP-10000L	1mL	10~120	170	430	1/4"	1/4"	350
GSP-16000L	1.6mL	16~190	195	455	1/4"	1/4"	400

Drawing



GSP-4000L



GSP-10000L

GSP-16000L

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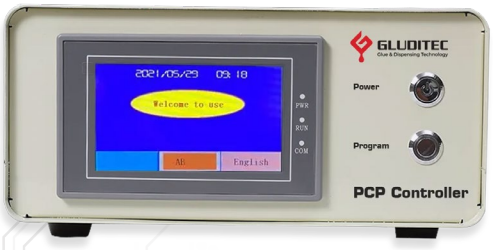
GCP Controller

DUAL PROGRESSIVE CAVITY PUMP CONTROLLER

Properties	GCP-1000	GCP-2000	Non-standard customization
Dimensions (WxDxH)	250 x 220 x 125 mm	250 x 220 x 125 mm	In order to adapt to the progressive cavity pump in different working conditions, GCP controller can be customized. For example: 1 controller for 4 pumps/ 8 pumps or even 16 pumps
Weight	3.4kg	3.6kg	
Power	AC110 ~ 250V, 50/60Hz	AC110 ~ 250V, 50/60Hz	
Screen	4.3" Touch Screen	4.3" Touch Screen	
Number of controlled pump	1	2	
Control Signal	Switching semaphore	Switching semaphore	
Ambient Temperature	10 ~ 40 °C	10 ~ 40 °C	



GCP-1000

GCP-2000