

## Gear Metering Pump



For more than 10 years, CIXI Instrument has provided process industries with precise, pulse less and reliable precision gear metering pumps

- **Precise, accurate, consistent, reliable**

Your demanding application requires a precise volume of fluid dispensed – reliably, accurately and consistently. The CX-GWMP Series metering gear pump is the industry standard for true precision metering for challenging applications in a wide variety of industrial processes. For years, engineers just like you have relied on CIXI Instrument to provide precision fluid handling solutions for the most difficult pumping applications. That’s why CIXI Instrument gear pumps can be found wherever precise, pulse less and reliable fluid metering performance is required.

- **Technology that works for you**

The design utilizes high standard external spur gears enclosed within a close tolerance housing assembly. This provides you the precise volume of fluid dispensed per shaft revolution. The housing is constructed from a precision ground and lapped three-plate assembly. This assembly is aligned with dowels to allow close control of operating clearances. This construction method in combination with several proprietary internal features is what ensures precise, pulseless and reliable flow under varying process conditions. When CIXI Instrument pumps are coupled with a pre-packaged, integrated, closed-loop speed control and a compact motor driver assembly (AC or

DC), CIXI Instrument is able to provide the most precise and flexible metering gear pump system on the market.

● **Benefits**

**High accuracy:** Stable, repeatable flows are assured under varying conditions of temperature, viscosity and pressure.

**Uniform flow:** Unique design offers virtually pulseless flow without valves or flexible elements that add complexities, increase cost and hinder performance.

**Specific engineered solutions:** A variety of pump heads and drive combinations are pre-configured to provide you a range of standard options.

**Consistent precision:** Unparalleled mechanical precision, combined with closed-loop accuracy, ensures exact volume per revolution without expensive flow meters.

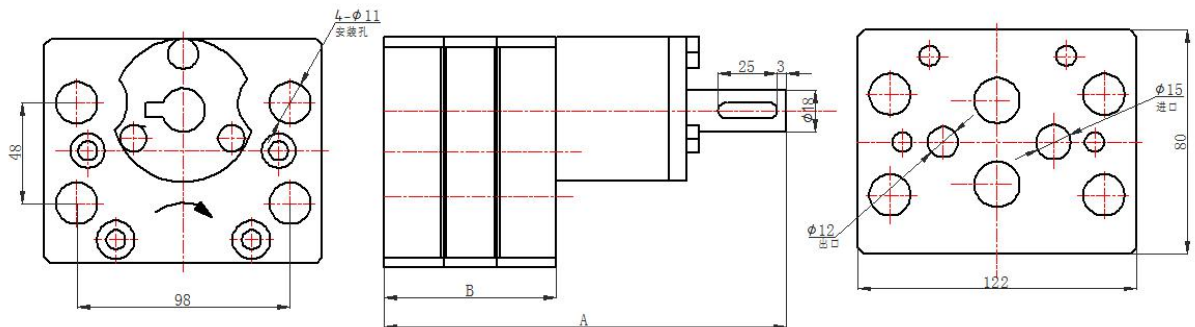
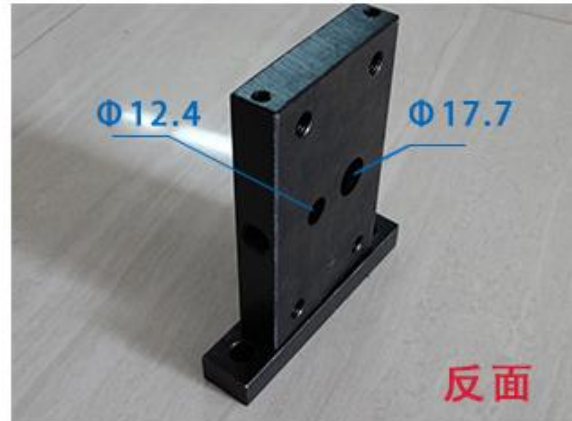
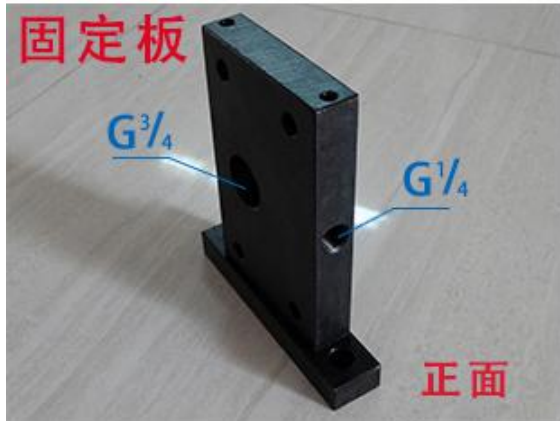
**Low cost of ownership:** Only three moving parts and hardened abrasion resistant materials provide excellent wear, corrosion and self-lubricating performance.

**Proven applications:** Years of practical application experience, backed by a technical staff with a variety of technical credentials, eliminates the guesswork.

● **Parameter**

Model	Displacement (CC/R)	Total height	manifold base height	Min Pressure	Max outlet pressure	Accuracy	Working temperature
GWMP-0.15	0.15	83	28.1	<0.2	<30	±3%	200
GWMP-0.3	0.3	85	30.2	<0.2	<30	±3%	200
GWMP-0.6	0.6	85	32	<0.2	<30	±3%	200
GWMP-1.2	1.2	90	34	<0.2	<30	±3%	200
GWMP-2.4	2.4	100	42	<0.2	<30	±3%	200
GWMP-3.6	3.6	105	50	<0.2	<30	±3%	200
GWMP-6	6	130	41	<0.2	<30	±3%	200
GWMP-9	9	135	46	<0.2	<30	±3%	200
GWMP-12	12	140	51	<0.2	<30	±3%	200
GWMP-15	15	145	56	<0.2	<30	±3%	200
GWMP-20	20	150	64	<0.2	<30	±3%	200
GWMP-30	30	165	80	<0.2	<30	±3%	200
GWMP-40	40	90	215	<0.2	<30	±3%	200
GWMP-50	50	97	215	<0.2	<30	±3%	200
GWMP-60	60	104.5	230	<0.2	<30	±3%	200
GWMP-75	75	112	230	<0.2	<30	±3%	200
GWMP-80	80	Customize	Customize	<0.2	<30	±3%	200
GWMP-125	125	Customize	Customize	<0.2	<30	±3%	200

**Note:**Direction of rotation: clockwise from the axis of rotation

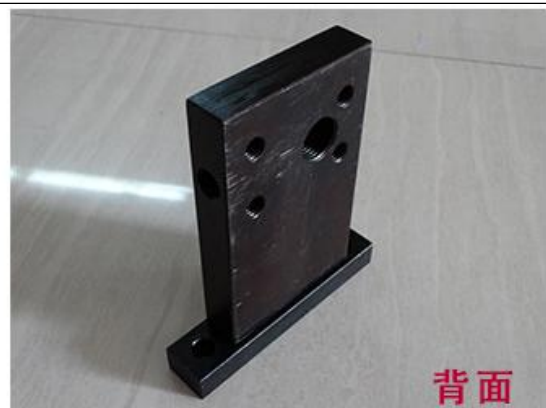
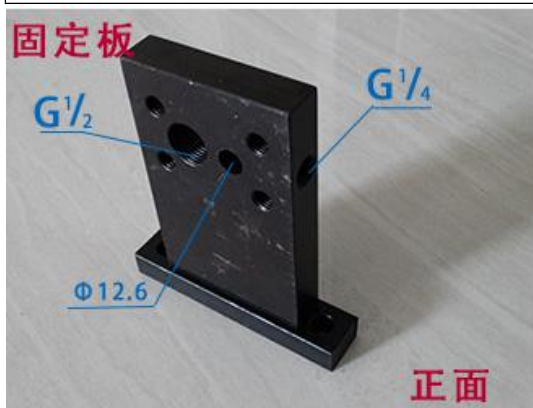


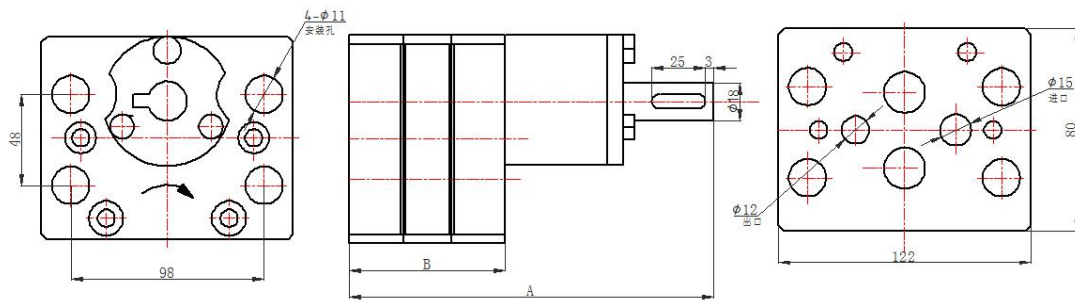
● **Production Dimension:**

Model	6CC	9CC	12CC	15CC	20CC	25CC	30CC
A	130	135	140	145	150	158	165
B	41	46	51	56	64	72	80

Parameters:

Min.inlet pressure :<0.2Mpa
working speed:5-200r/min
Medium:fluid
Process temperature:< 200C
Max.outlet pressure:<30Mpa
nominal flow capacity:6-30(±3%)CC/r
Sealing:combined seal



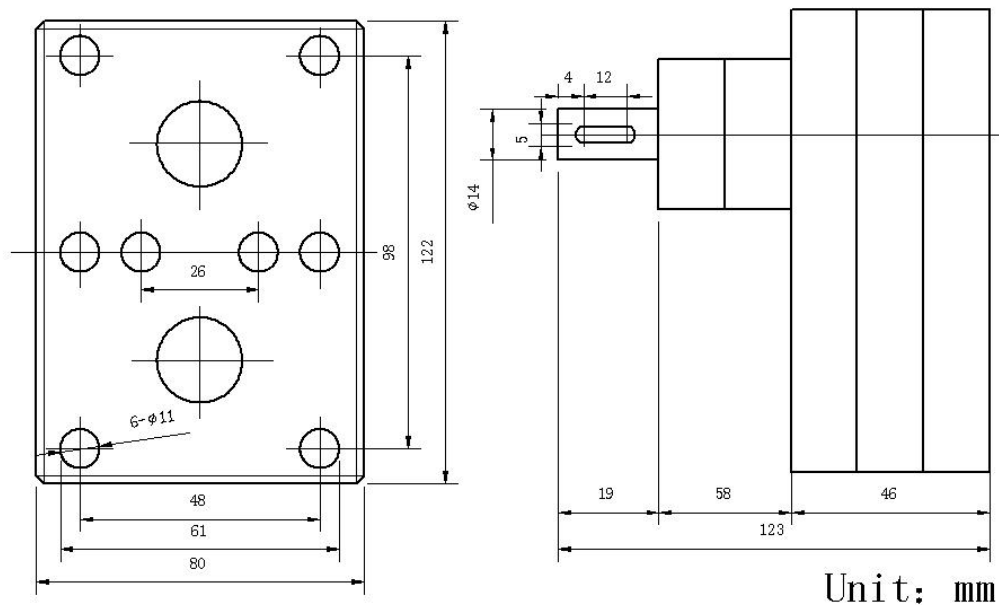


Item	0.15CC	0.3CC	0.6CC	1.2CC	2.4CC	3.2CC	3.6CC
A	83	85	85	90	100	103	105
B	28.1	30.2	32	34	42	47.6	50

**Parameters**

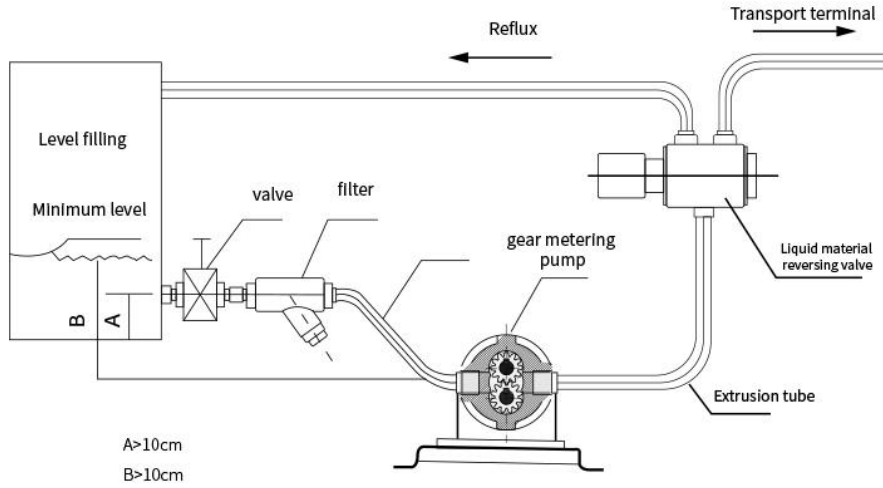
Min.inlet pressure :<0.2Mpa
working speed:5-200r/min
Medium:fluid
Process temperature:< 200C
Max.outlet pressure:<30Mpa
nominal flow capacity:0.15-3.6( $\pm 3\%$ )CC/r
Sealing:combined seal

● **Installation Drawing**

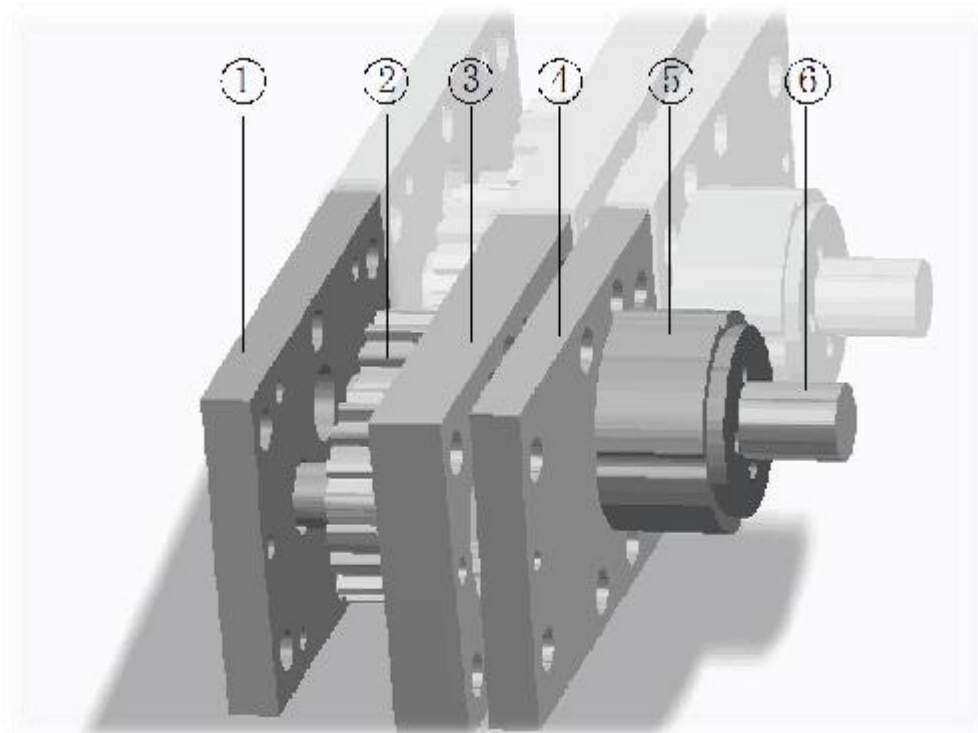


**Application:**

**PRODUCTION INSTRUCTIONS**



**Three-dimensional analysis:**



No.	Name:	Material:
1	Bottom cap	tool steel
2	Gear	tool steel
3	Gear cavity plate	tool steel
4	Top cap	tool steel
5	Seal cap	iron
6	Shaft	tool steel

● **Selection guidelines:**

To ensure the correct selection, please offer us the follow question answers. Thank you for your cooperation!

1. The machine you use?
2. The material you handle; is your material raw or recycled?
3. The viscosity of your material?
4. The hourly output?/How much kg per hour???? productivity (capacity) for each pump
5. The working temperature?
6. The working pressure?
7. What is your final product?