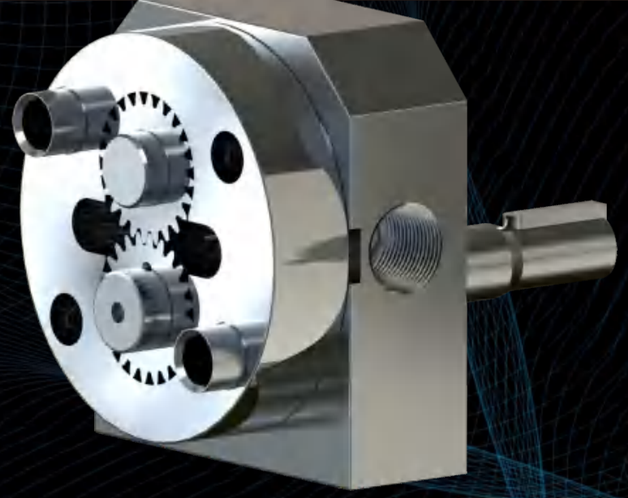


JONSN
PUMPS & TECHNOLOGY

No pulse conveying

High precision

High repeatability

Long lifespan



JONSN
PUMPS & TECHNOLOGY

Concentrate and focus on making every precision gear pump well.

■ **SHANGHAI JONSN FLUID EQUIPMENT CO., LTD.**

Address: Building 4, No. 276 West Xinhua Road, Zhangyan Town, Jinshan District, Shanghai

Tel: 021-34720020 Fax: 021-67689517
Website: www.jonsn.cn Email: lijun@jonsn.cn

■ **JONSN (GANZHOU) FLUID TECHNOLOGY CO., LTD.**

Address: Building A3, Qiuyue Science and Technology Park, Economic and Technological Development Zone, Ganzhou City, Jiangxi Province, P.R.China

Website: www.jonsn.com
Email: sales@jonsn.com (International department)

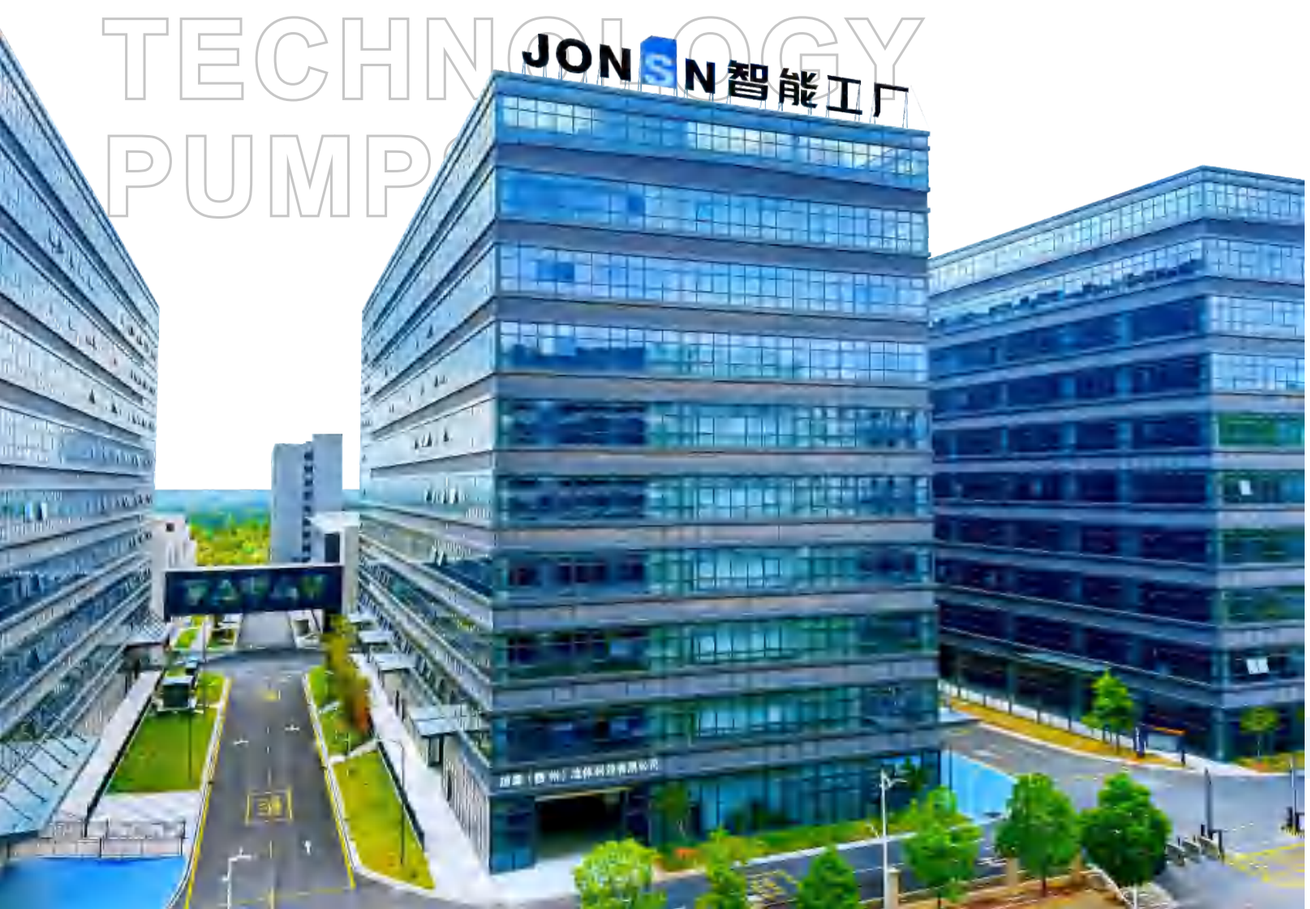
DP

PRECISION GEAR METERING PUMP

ENTERPRISE PROFILE

Shanghai JONSN Fluid Equipment Co.,Ltd. was established in 2010. It is acompany with world-renowned imported pumps as its technical background. It hastwo business divisions, namely the JONSN brand pump manufacturing division andthe imported pumptrading division.An excellent R&D and innovation teamprovides customerswith fluid transportation solutions that integrate design,production and sales.

In 2019, Shanghai JONSN Fluid Equipment Co., Ltd. made a new plan toestablish a new factory in the central region. In 2020, the new factory was officiallysettled in Ganzhou National Economic and Technological Development Zone.JONSN bucked the trend and formed a new technology development team,cooperated with foreign companies, adopted foreign advanced manufacturingtechnology and lean management, selected high-quality raw materials, designedand manufactured precision gear metering pumps with high cost performance.easv installation and maintenance



DEVELOPMENT PATH



2010

Shanghai JONSN Fluid Equipment Co., Ltd. was founded. The company's core management team boasts years of working experience in foreign-funded pump enterprises. We act as an agent for imported pumps from Europe and America.

2011

The full range of JONSN drum pumps completed design development and passed performance testing.Obtained drum pump patent certificates and CE certification.

2012-2013

Strategically upgraded to a manufacturing enterprise. The product design of JONSN precision micro gear pumps has been completed, and prototypes have passed verification.

2014

Mass offline production of JONSN precision micro gear pumps was launched successively.The design and planning of the DX series high-viscosity gear pumps have been initiated.

2015

JONSN trademark registered; 2 invention patents and 7 utility model patents applied.JONSN precision micro gear pumps finalized for mass production, applied and exported to Europe and America.Successfully signed with Sinopec, CNOOC, Tianjin Jereh, etc.

2016-2017

DX series high-viscosity gear pumps finalized for production. Same year, company's gear pump annual output value over 30 million yuan. Introduced product coding traceability & 6S on-site management systems.

2018-2019

Enterprise strategic positioning upgraded to "Trustworthy High-Quality Pump Supplier".Focus on quality control; 100% factory test qualified.JONSN precision gear pumps successfully obtained CE certification.Applied to marine SCR exhaust gas treatment systems.

2020-2021

Initiated new LOGO brand identity and brand philosophy.Focus on R&D and production of high-precision gear pumps.Company launched R&D of DP series high-viscosity gear metering pumps.Initiated TÜV Rheinland ISO9001 quality management system certification.

2022-2023

Obtained certifications from multiple classification societies.
Products comply with ABS, BV, DNV and other certifications.

2024-2025

2024: Awarded High-Tech Enterprise and Specialized, Refined, Unique & Innovative Enterprise;
2025: Officially settled in Ganzhou Qiuyue Science and Technology Park; smart factory launched.JONSN established gear pump R&D center in Ganzhou.

2026 至今

Re-certified by TÜV Rheinland ISO9001 Quality Management System. Increased R&D investment.

HIGH-END CNC MACHINING AND PRECISION INSPECTION EQUIPMENT



Mazak Machining Center



Double - Plane Lapping Machine

We have introduced world-class CNC machining and precision inspection equipment to establish a comprehensive, high-precision manufacturing system—spanning the entire process from component machining to finished product inspection. Centered around leading international brands such as Mazak and Zeiss, we guarantee micron-level precision for every single component of our precision gear pumps, utilizing state-of-the-art machinery to forge a rock-solid foundation for product quality.



Zeiss Coordinate Measuring Machine (CMM)



Precision High-Speed Jig Milling and Grinding Center

COOPERATIVE PARTNER



MR Series
MR series precision magnetic gear pump

DP Series
DP series medium and high viscosity precision gear metering pump

DX Series
DX series high temperature and high viscosity gear metering pump

Acting
Acting as an agent for BRONTZ internal gear pumps

Look forward to working with you
••••••

HONORARY PATENT

We focus on the technical development of precision gear pumps. We are engaged in precisionproduction. Skilled technology and craftsmanship are the main characteristics of our work. The birthof every Jonsn precision gear pump embodies the beauty of craftsmen. Their strict requirements forproducts and outstanding performance have contributed to the development of the company.Jonsn company has successively obtained 15 utility model patents. 2 invention patents. meanwhilewe have obtained the German TUV Rheinland ISO9001 quality management system certification,CE certification ABS certification, 、BV certification, Nippon Kaii Kyokai certification, etc.



TÜV Rheinland ISO9001
quality management certification



BV certification



ABS certification



2 invention patents
15 utility model patents



RoHS Test Report



CE certification

DP SERIES

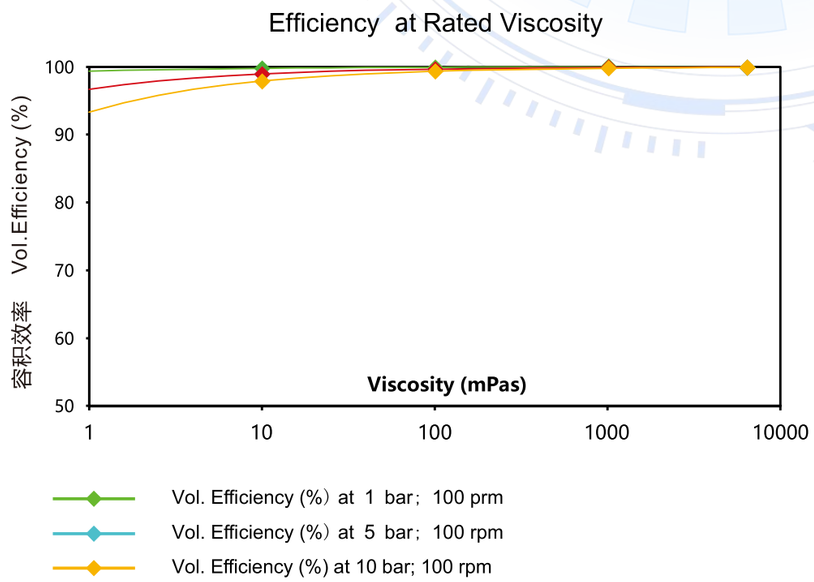
GEAR METERING PUMP

One of the DP series products is a gear metering pump designed based on the transportation of medium and high viscosity materials.

It mainly adopts the design of a multi-tooth and high-strength precision gear set, thus having the "low pulse and high linear" characteristics, and precise matching with the inner cavity of the pump to maintain high volumetric efficiency to ensure the quantitative and repeat accuracy of the fluid per rotation.



DP GEAR PUMP VOLUMETRIC EFFICIENCY CURVE



CONFIGURATION CODE

DP	R	02	B	B	B	L	0	M1	0	0	0

Series No.

Inlet & outlet thread

R	Rc thread
T	SAE flange
G	G thread
N	NPT thread

Displacement

02/06/12/24/30/36	02= 0.2cc/r 36= 3.6cc/r
50/100/200/400/700/1000	1000= 100cc/r

Pump material

B	440B
C	Alloy tool steel
S	316L

The material of the gear shaft

B	440B
C	Alloy tool steel
S	316L

Sliding bearing

B	440B
Y	Alloy

Structure (Inlet and outlet direction)

L	180° (standard)
B	90°& other

Static seal

0	No ring/flat seal
F	PTFE
M	FKM
E	EPDM
P	FFKM
L	Neoprene

Shaft seal type

M1,M2	Single mechanical seal
G	Packing seal
N	Magnet drive
	M1 single mechanical seal (316L + fluororubber / silicon carbide / graphite / 316) M2 single mechanical seal (316L + EPDM / silicon carbide / graphite / 316)

Magnet material

0	No magnet
N	NdFeB magnet
M	Sintered NdFeB
Y	Ferrite

Mounting plate installation method

0	Without
1	With

Special treating

0	No surface coating
1	DLC coating
2	Electroplating
9	OEM

Pump head parameters:

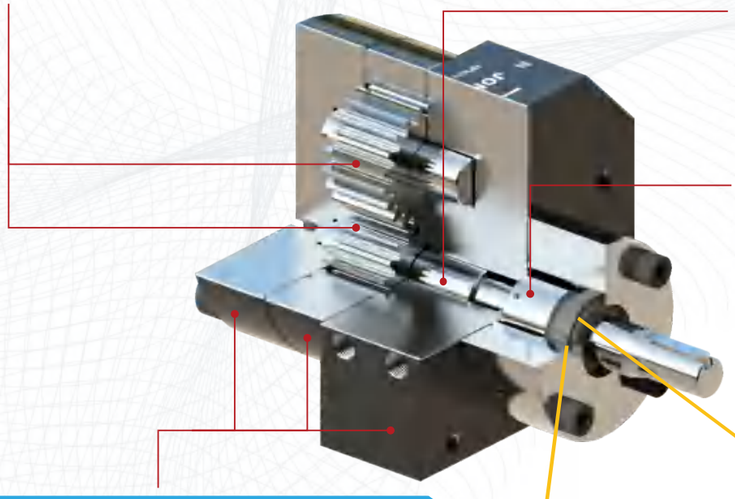
Displacement(cc/rev)	0.2/0.6/1.2/2.4/3/3.6/5/10/20/30 /40/70/100
Viscosity range	100~500000 m.Pas
Speed range	0-100 rpm
Flow rate range	Displacement × motor speed (rpm)
Outlet pressure	70bar(1000 psi) (depends on viscosity)
Temperature range	-18℃ to 150℃ Other temperatures can be customized, optional electric heating and thermocouple system available
Seals	Mechanical seals, lip seals, packing seals, magnetic coupling seals

DP SERIES
GEAR METERING PUMP

The pump body and gears have undergone high-strength heat treatment and grinding processes, and at the same time, DLC coating can be carried out according to different applications to provide additional corrosion resistance and wear resistance. The unique design enables the flow transportation to have lasting stability, eliminates unnecessary valves and buffer components, and made the system simplified, cost reduced, and performance improved.

Precision gear
- high strength tool steel
- Stainless steel 440B + heat treatment (as default)
- 440B+ wear-resistant DLC coating (optional)

Drive shaft
- high strength tool steel
- Stainless steel 440B + heat treatment (as default)
- 440B+ wear-resistant DLC coating (optional)



Shaft seal
- Packing seal
- Single mechanical seal
- Magnetic seal

Pump cover, Gear cavity plate, Pump casing
- high strength tool steel
- Stainless steel 440B + heat treatment (as default)
- 440B+ wear-resistant DLC coating (optional)



Packed seal



DLC 3500hv

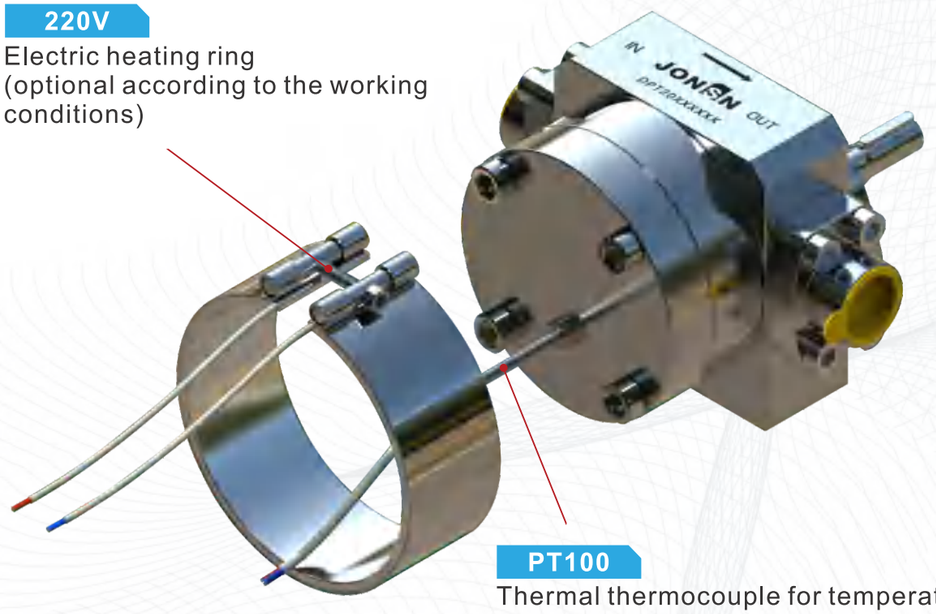


Magnetic seal



Ta-c 4000hv

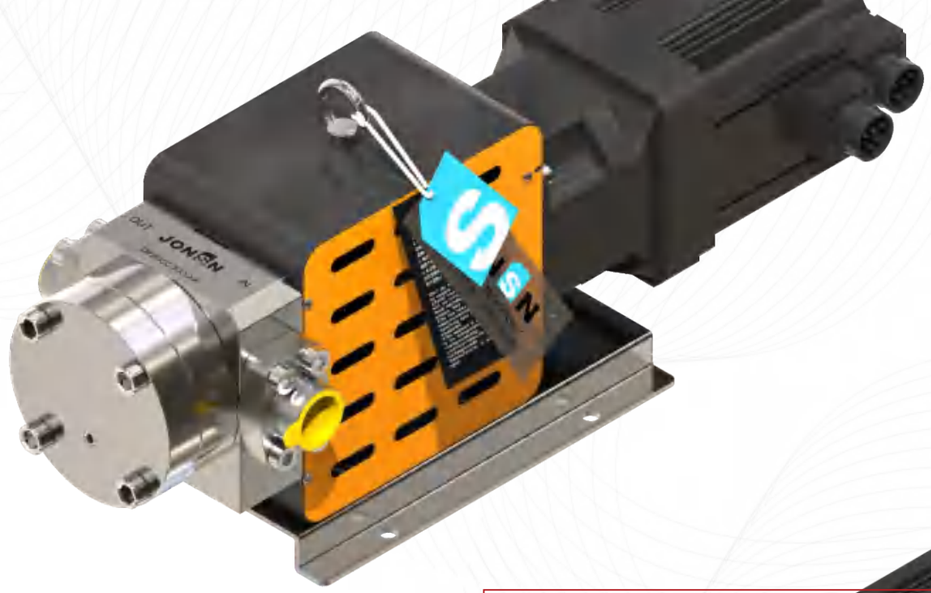
220V
Electric heating ring
(optional according to the working conditions)



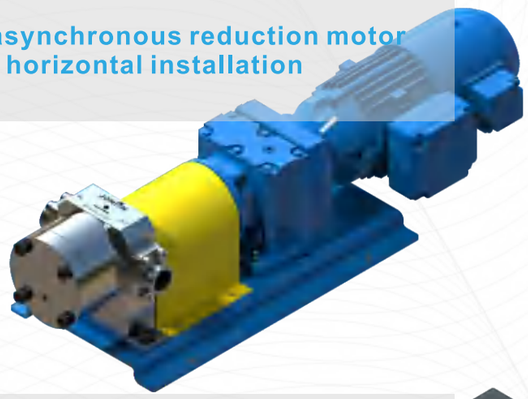
PT100
Thermal thermocouple for temperature measurement
(optional according to the working conditions)

DP SERIES

GEAR METERING PUMP



AC asynchronous reduction motor with horizontal installation



L-type installation method



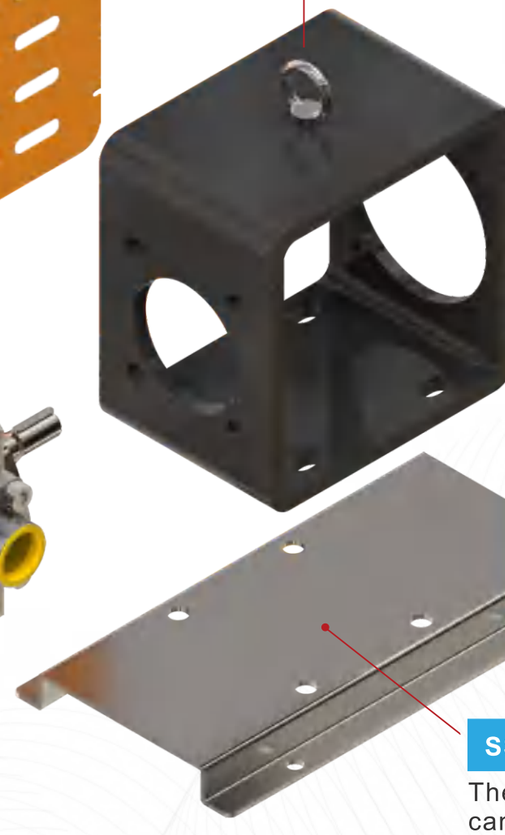
Mounting plate installation method

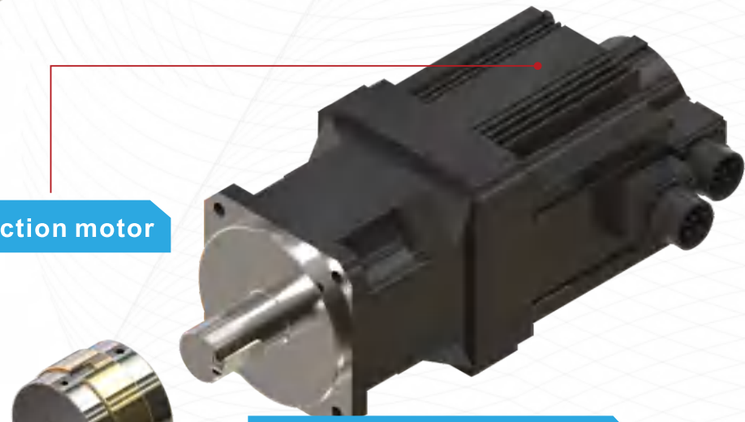


Coupling

Servo reduction motor







High-precision heavy-duty stainless steel coupling

DP SERIES PRECISION GEAR METERING PUMP



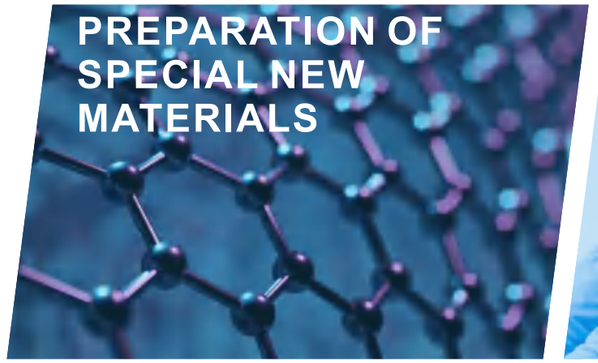
Protecting cover

SS base plate

The base plate is excluded by default and can be optionally installed if necessary.

DP SERIES
Application

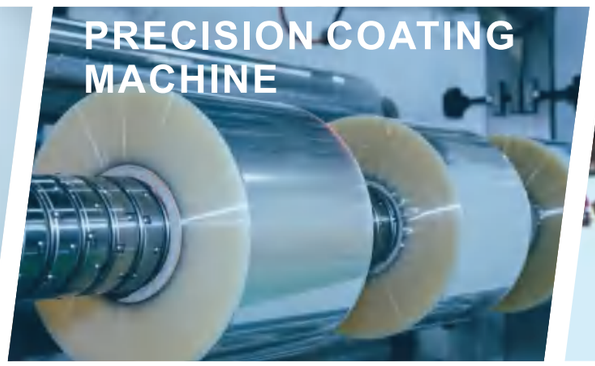
THE DP SERIES OF PRECISION GEAR METERING PUMPS HAVE STABLE AND ACCURATE FLOW, SMALL SIZE, AND ARE WIDELY USED IN THE PRECISION CONVEYING, ADDITION, DISPENSING, SAMPLING, COATING, SPRAYING, METERING AND OTHER PROCESS CONTROL SYSTEMS OF MEDIUM AND HIGH VISCOSITY LIQUIDS.

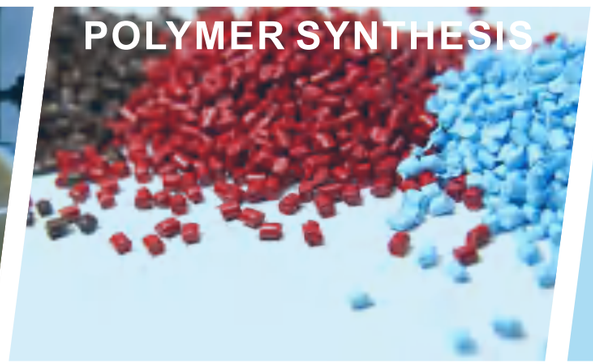








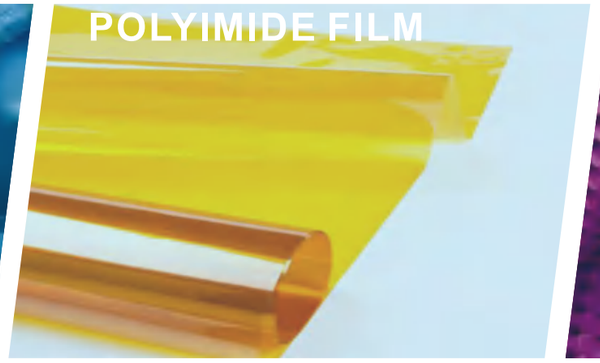




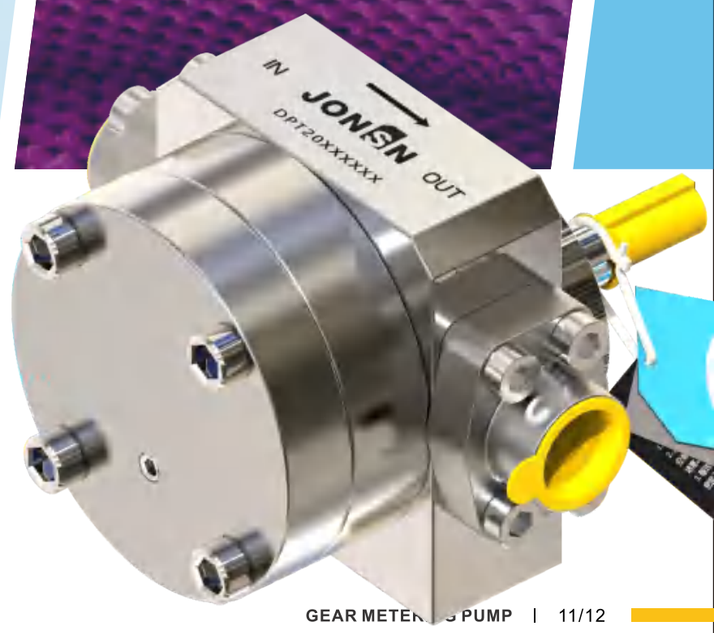
Widely used in :

Applications:Widely used in medium and high viscosity liquid precision conveying, adding, dispensing, sampling, coating, spraying, metering andother process control system.Polvimide flm.silica gel. acrvlic gel, polyol, silicone. adhesive. additive, asphalt, sugar solution, catalyst, chemical agent, cosmeticdye/fill/ detergent, emulsion, epoxy resin, chemical fiber, foam, fller, hot-melt adhesive, ink, isocyanate,kerosene, mineral oil,monobase, oil Paint, plastic, polyurethane, plasticizer, pigment, resin, silicon copper, surface activator, antifoam, tackifier, sprayingtar, urethane, varnish, viscose,paraffin, polymer, filling, etc



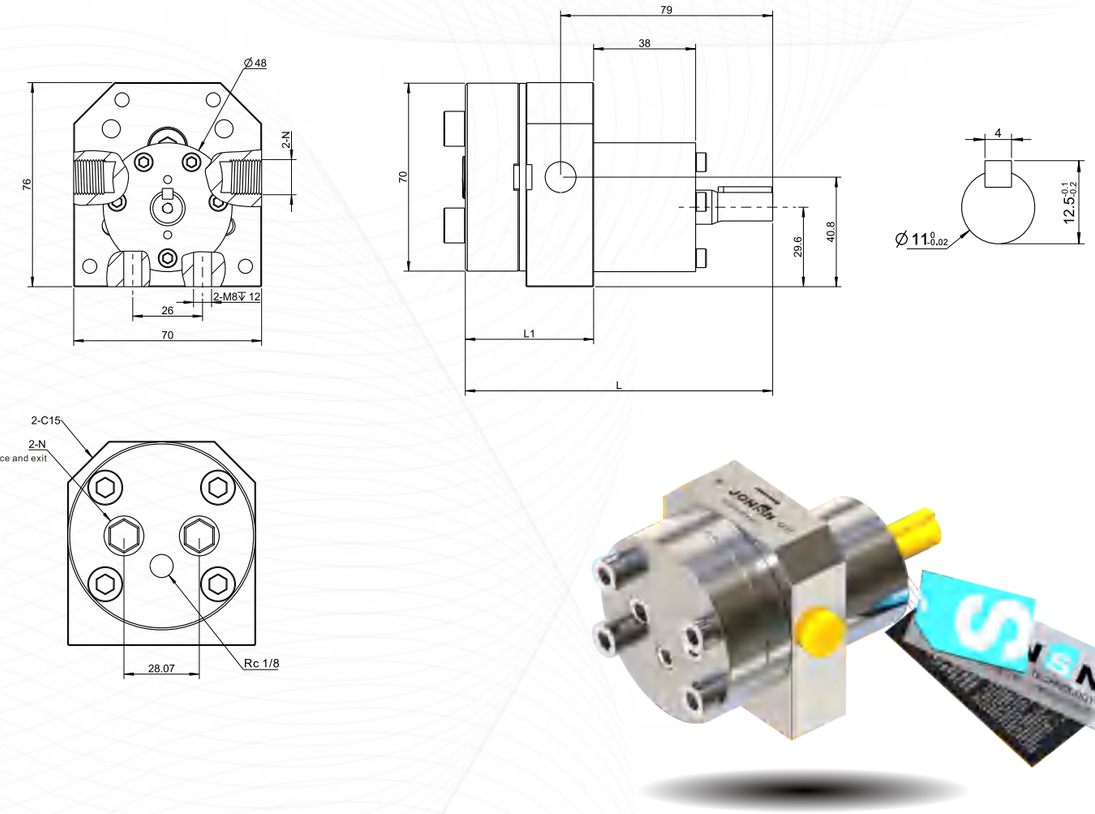






DP

PRECISION GEAR METERING PUMP
0.2cc

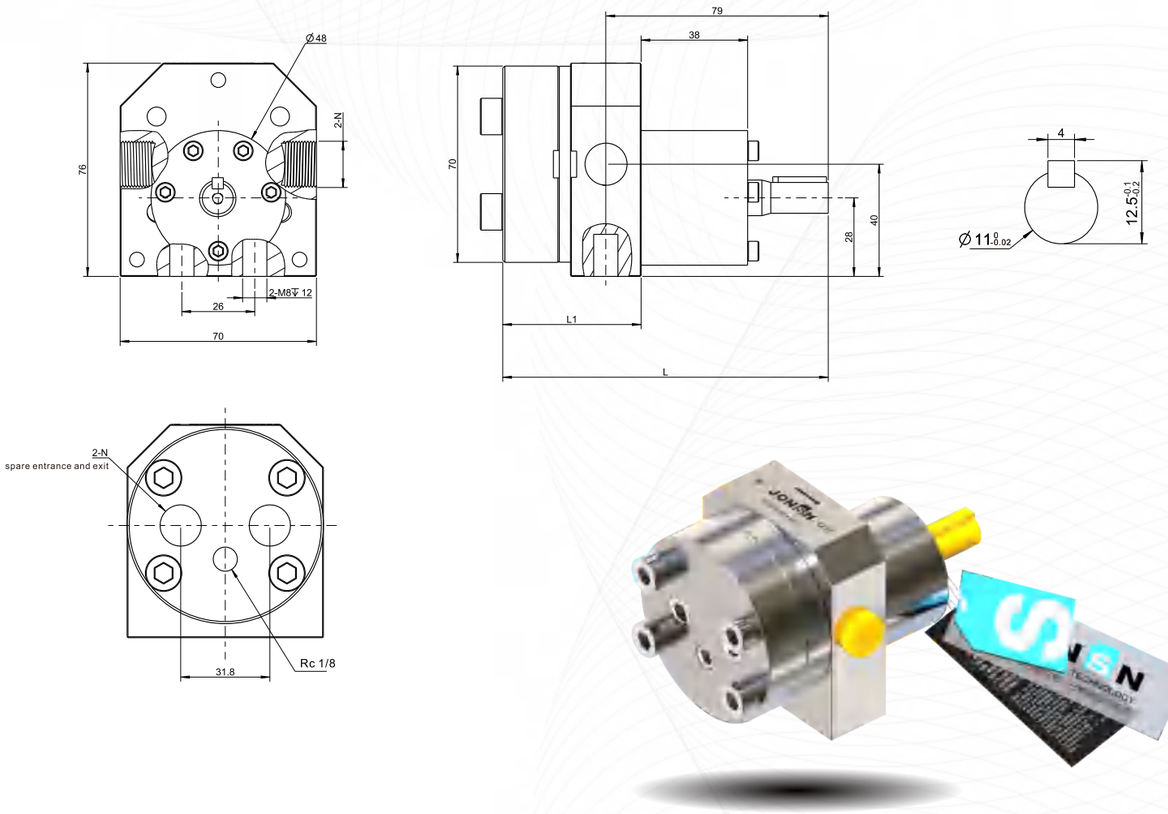


Note: We can provide you with detailed selection data solutions/dimensional drawing /STEP drawing

Displacement cc/rev	L1	L	N
0.2	47.8	114.5	Rc1/4

DP

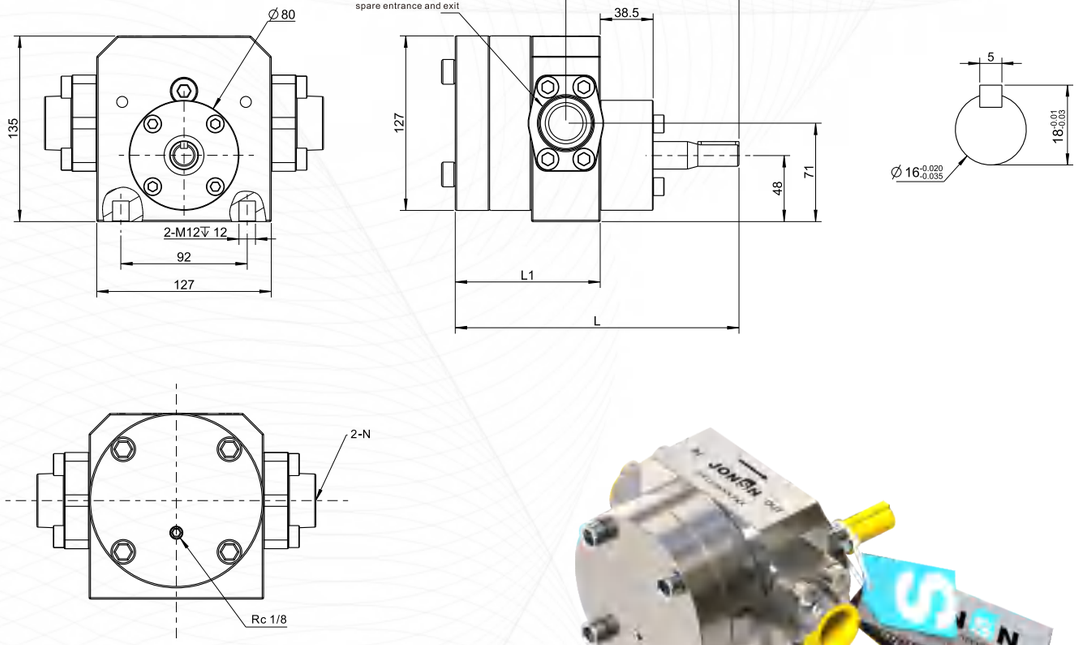
PRECISION GEAR METERING PUMP
0.6-3.6cc



Note: We can provide you with detailed selection data solutions/dimensional drawing /STEP drawing

Displacement cc/rev	L1	L	N
0.6	49.3	116.0	Rc3/8
1.2	53.3	120.1	Rc3/8
2.4	61.4	128.2	Rc3/8
3	62.5	132.2	Rc3/8
3.6	69.5	136.3	Rc3/8

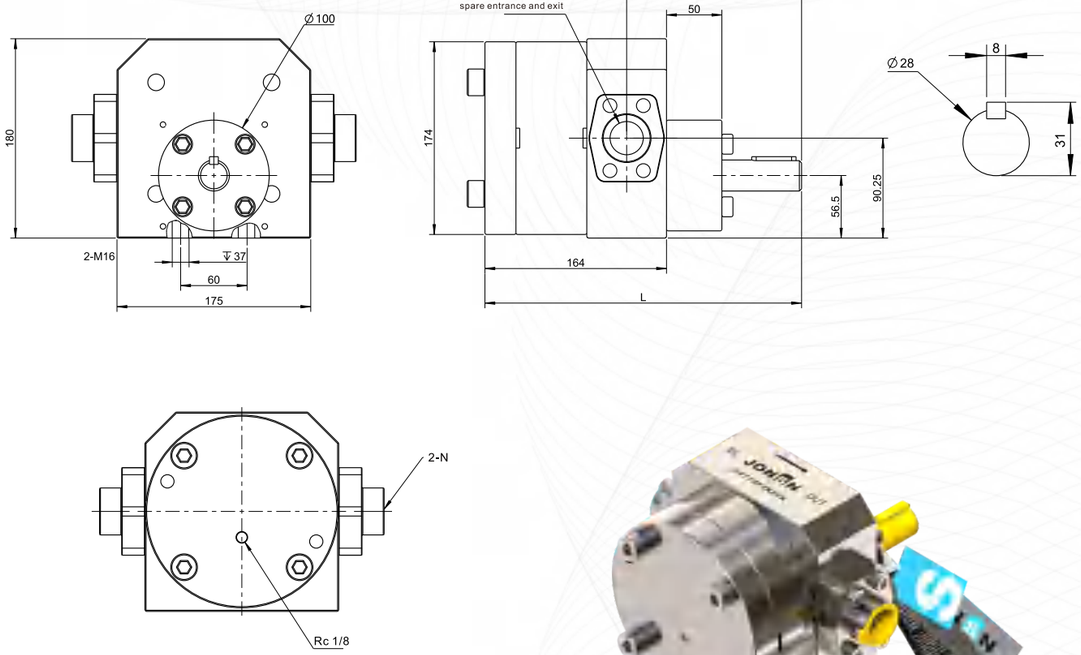
DP PRECISION GEAR METERING PUMP 5.0-40cc



Note: We can provide you with detailed selection data solutions/dimensional drawing /STEP drawing

Displacement cc/rev	L1	L	N
5	82.6	183.6	SAE1″
10	90.2	191.2	SAE1″
20	105.5	206.5	SAE1″
30	120.7	221.7	SAE1″
40	136	237	SAE1″

DP PRECISION GEAR METERING PUMP 70-100cc



Note: We can provide you with detailed selection data solutions/dimensional drawing /STEP drawing

Displacement cc/rev	L1	L	N
70	145	267	SAE1 1/4″
100	164	286	SAE1 1/4″

DP SERIES

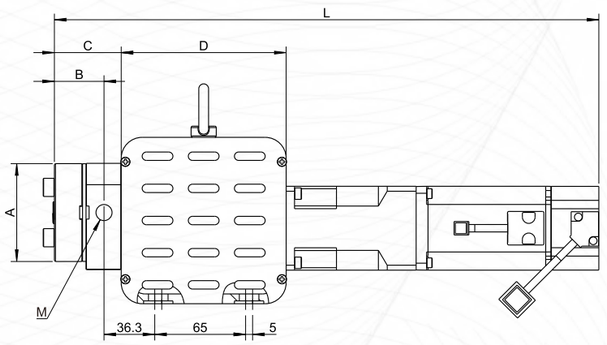
Motor configuration

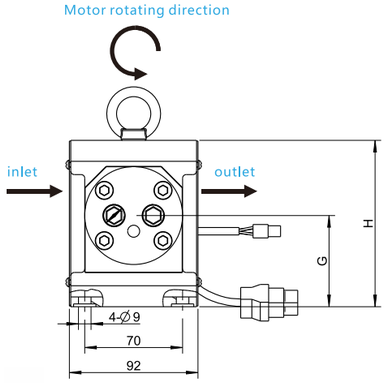
DP 0.2-3.6 cc + Servo motor (as default)

Servo Motor
220V/110V
60 Frame



Standard: Delta
Optional: Siemens,Panasonic, Mitsubishi, Yaskawa
Others motor can be offered by client, Jonsn will help to install.





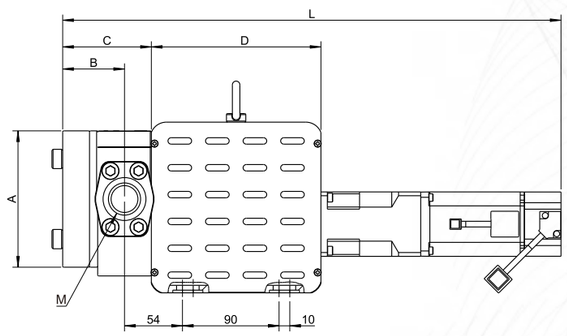
Pumps order NO.	M	A	B	C	D	G	H	L
0.2cc & psf60	Rc1/4	70	36.5	47.8	118	65.2	119	389.5
0.6cc & psf60	Rc3/8	70	36.8	48.3	118	66	119	391.0
1.2cc & psf60	Rc3/8	70	40.9	53.4	118	66	119	395.1
2.4cc & psf60	Rc3/8	70	49.0	61.5	118	66	119	403.2
3.0cc & psf60	Rc3/8	70	53.0	65.5	118	66	119	407.2
3.6cc & psf60	Rc3/8	70	57.1	69.6	118	66	119	411.3

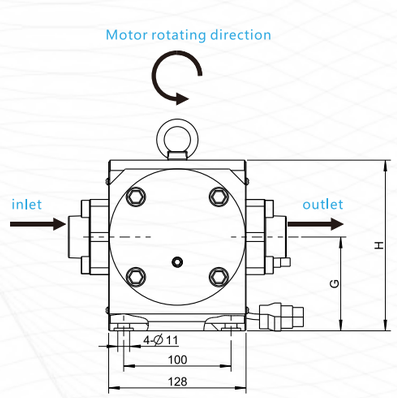
DP 5-40cc + Servo motor (as default)

Servo Motor
220V/110V
60/90 Frame



Standard: Delta
Optional: Siemens,Panasonic, Mitsubishi, Yaskawa
Others motor can be offered by client, Jonsn will help to install.





Pumps order NO.	M	A	B	C	D	G	H	L
5cc & psf60	SAE1"	127	57.6	82.6	158	87.4	159	464.3
10cc & psf60	SAE1"	127	65.3	90.3	158	87.4	159	472
20cc & psf60	SAE1"	127	80.5	105.5	158	87.4	159	487
20cc & psf90	SAE1"	127	80.5	105.5	158	87.4	159	543
30cc & psf90	SAE1"	127	95.8	120.8	158	87.4	159	558
40cc & psf90	SAE1"	127	111	136	158	87.4	159	573

DP SERIES

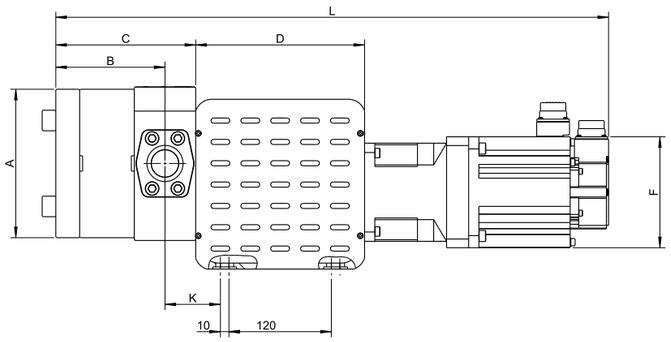
Motor configuration

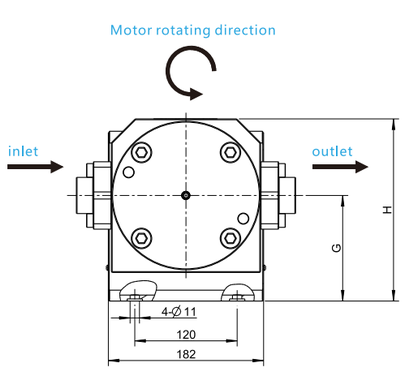
DP 70-100cc + Servo motor (as default)

Servo Motor
220V/110V
60 Frame



Standard: Delta
Optional: Siemens,Panasonic, Mitsubishi, Yaskawa
Others motor can be offered by client, Jonsn will help to install.





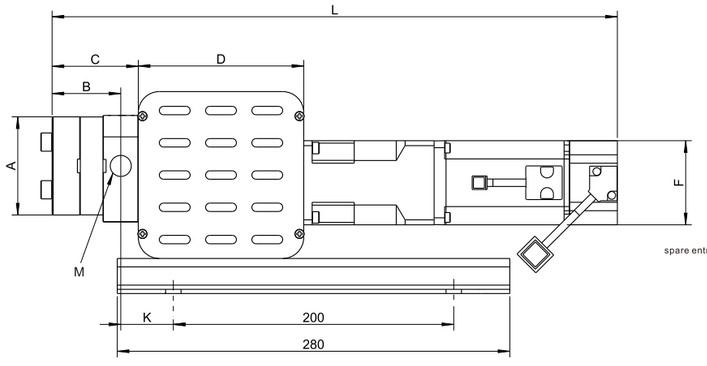
Pumps order NO.	M	A	B	C	D	F	G	H	K	L
70cc & psf130	SAE1 1/4"	174	128	164	198	130	123.75	213.5	65	648
100cc & psf130	SAE1 1/4"	174	147	183	198	130	123.75	213.5	65	667

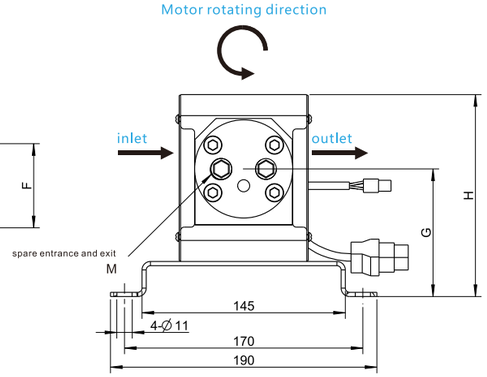
DP 0.2-3.6 cc + Servo motor + baseplate(option)

Servo Motor
220V/110V
60 Frame



Standard: Delta
Optional: Siemens,Panasonic, Mitsubishi, Yaskawa
Others motor can be offered by client, Jonsn will help to install.





Pumps order NO.	M	A	B	C	D	F	G	H	K	L
0.2cc & psf60	2-Rc1/4	70	36.5	47.8	118	60	90.2	144	37.3	389.5
0.6cc & psf60	2-Rc3/8	70	36.8	48.3	118	60	91	144	37.5	391.0
1.2cc & psf60	2-Rc3/8	70	40.9	53.4	118	60	91	144	37.5	395.1
2.4cc & psf60	2-Rc3/8	70	49.0	61.5	118	60	91	144	37.5	403.2
3.0cc & psf60	2-Rc3/8	70	53.0	65.5	118	60	91	144	37.5	407.2
3.6cc & psf60	2-Rc3/8	70	57.1	69.6	118	60	91	144	37.5	411.3

DP SERIES

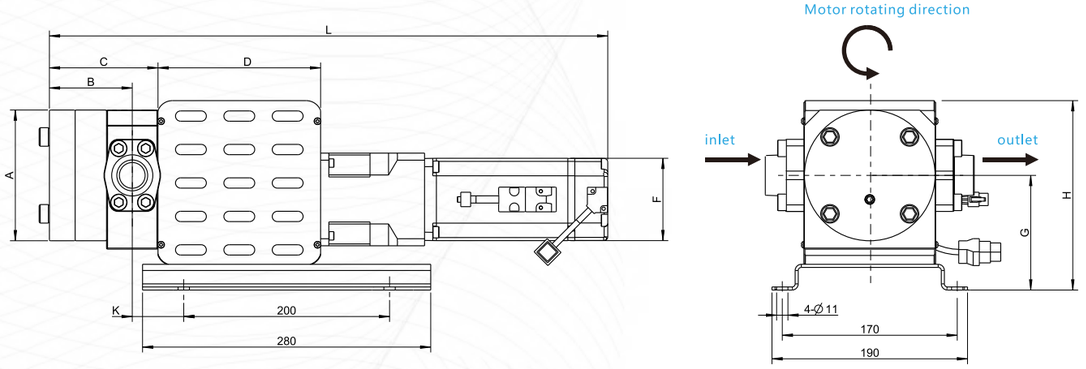
Motor configuration

DP 5-40cc + Servo motor + baseplate(option)

Servo Motor
220V/110V
60/90 Frame



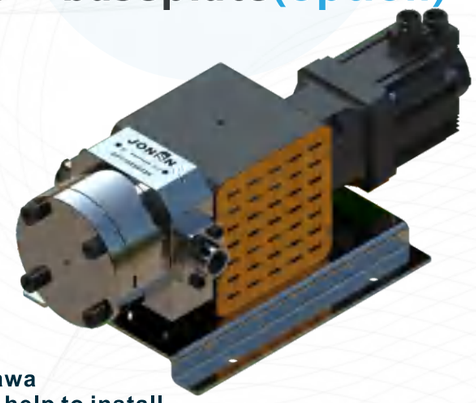
Standard: Delta
Optional: Siemens,Panasonic, Mitsubishi, Yaskawa
Others motor can be offered by client, Jonsn will help to install.



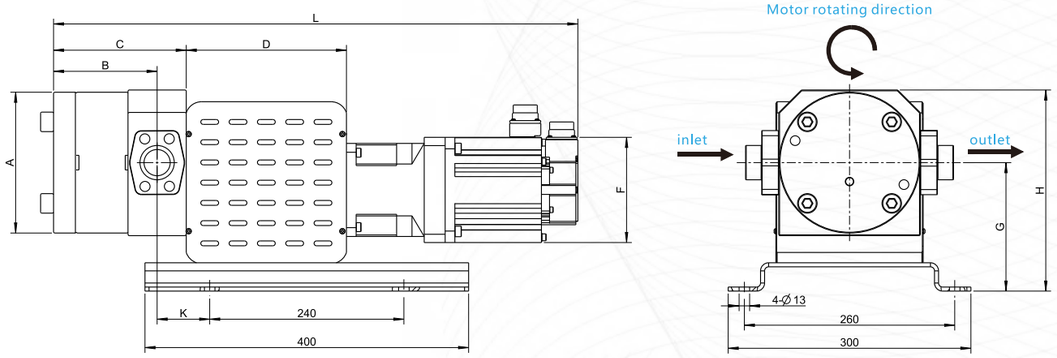
Pumps order NO.	A	B	C	D	E	F	G	H	K	L
5cc & psf60	127	57.6	82.6	158	93	60	112.4	184	50	464.3
10cc & psf60	127	65.3	90.3	158	93	60	112.4	184	50	472
20cc & psf60	127	80.5	105.5	158	93	60	112.4	184	50	487
20cc & psf90	127	80.5	105.5	158	101	80	111.4	184	50	543
30cc & psf90	127	95.8	120.8	158	101	80	111.4	184	50	558
40cc & psf90	127	111	136	158	101	80	111.4	184	50	573

DP 70-100cc + Servo motor + baseplate(option)

Servo Motor
220V/110V
60/90 Frame



Standard: Delta
Optional: Siemens,Panasonic, Mitsubishi, Yaskawa
Others motor can be offered by client, Jonsn will help to install.



Pumps order NO.	M	A	B	C	D	F	G	H	K	L
70cc & psf130	SAE1 1/4"	174	128	164	198	130	158.7	248.5	65	648
100cc & psf130	SAE1 1/4"	174	147	183	198	130	158.7	248.5	65	667

GEAR METERING PUMP SPEED CONTROL SYSTEM

We are committed to providing you with professional micro flow rate solutions with rich knowledge of fluid control.



Flow closed-loop control system module (design and development)

- The system integrates main components such as filters, gear metering pumps, servo motors, high-precision flow meters, pressure sensors, valves, etc.
- Through the closed-loop control of the flow meter signal and the gear pump servo motor, the set flow rate and the actual flow rate are automatically matched and adjusted, and online instantaneous flow and pressure fluctuations can be viewed in real time.
- Users only need to connect the inlet and outlet pipelines, set the corresponding parameters of the flow meter, and start the system. The operation is simple.
- Support RS485 MODBUS communication protocol.

SELECTION PARAMETERS

Customer code _____ Address _____

company _____ Extension _____

Name _____ Fax _____

Department _____ E-Mail _____

Medium

Name _____ Viscosity _____ cps

Application areas _____ Medium temperature _____ °C

Concentration _____ % Ambient temperature _____ °C

Whether explosive ☐ Yes ☐ No Solid content ☐ Yes ☐ No ☐ Soft ☐ Hard

Density _____ Media status ☐ Fluidity ☐ Thixotropy ☐ Sticky ☐ Curing

Operating conditions

flow _____ L/min or _____ L/h Outlet pressure _____ bar

Inlet pressure _____ kpa _____ M Working frequency ☐ Continuous ☐ Intermittent ☐ Intermittent

Positive pressure or Suction

Vacuum _____ Kpa

Drive motor

☐ Three phase ☐ 220 Servo motor

Application conditions

☐ No pulsation in the mouth ☐ Metering ☐ Coating ☐ Other

☐ Pressurization ☐ Circulation ☐ Lubricating ☐

Your requirements

Please describe your application here or write down your remarks: