

JONSN
MICRO GEAR PUMPS

Concentrate and focus on making every precision gear pump well.

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NEW PRODUCT

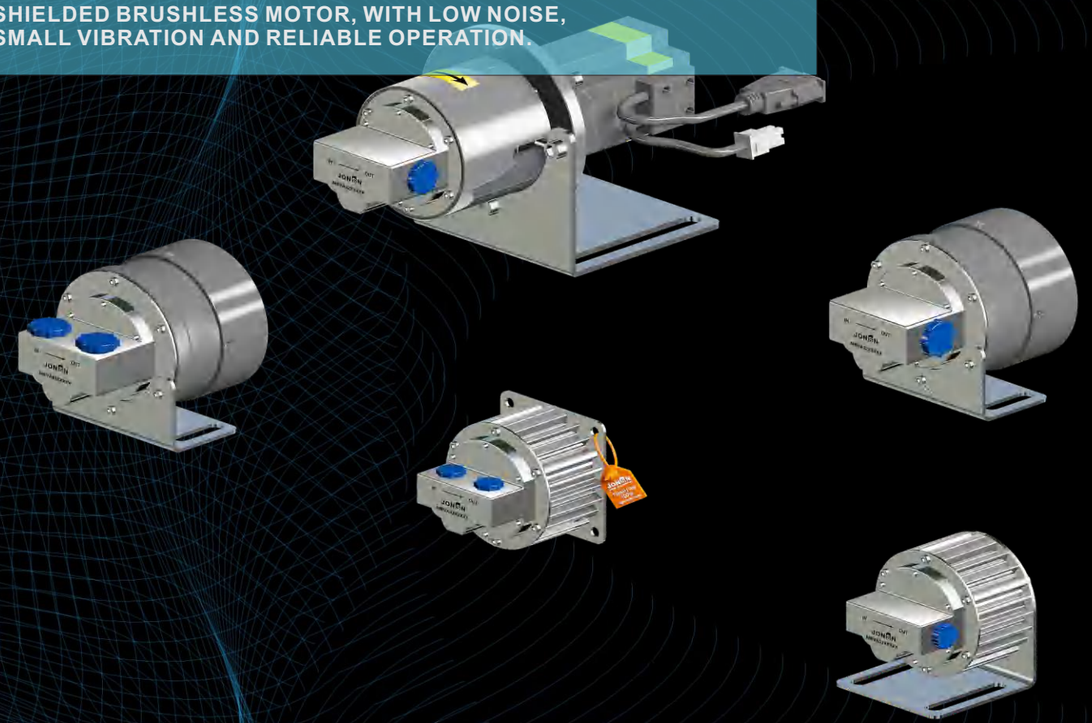
JONSN
PUMPS & TECHNOLOGY

THE MRV SERIES OF PRODUCTS ARE FULLY LAUNCHED ONLINE.
IT HAS BEEN ELABORATELY CRAFTED BY THE JOHNSON R & D TEAM FOR THREE YEARS.
DEVOTE WITH PASSION!

INTEGRATED COMPACT DESIGN WITH SMALL VOLUME.

EFFICIENT GEAR PROFILE DESIGN EFFECTIVELY IMPROVES THE VOLUMETRIC EFFICIENCY OF THE PUMP.

SHIELDED BRUSHLESS MOTOR, WITH LOW NOISE, SMALL VIBRATION AND RELIABLE OPERATION.



MRV

PRECISION MICRO GEAR 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

TECHNOLOGY PUM



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

Successfully renewed TÜV Rheinland ISO 9001:2015 quality management system certificationIncreased investment in R&D
JONSN successfully signed a contract with AMEC (Advanced Micro-Fabrication Equipment Inc.)

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

MACHINE TOOL

MRV SERIES

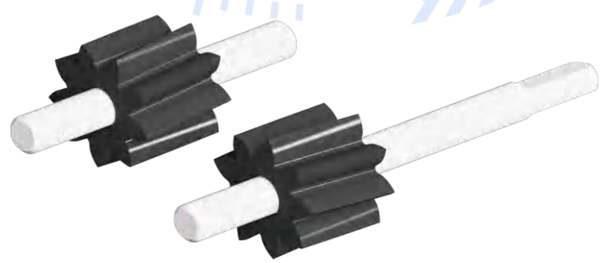
CHARACTERISTIC

The MRV series is mainly designed for equipment matching and narrow installation space, with flexible pipeline installation.
By simplifying the internal structure, the pump body is integrally cast in steel, which is sturdy and durable. The gear shaft is precisely processed with a PEEK gear + zirconia ceramic shaft.



DP GEAR PUMP VOLUMETRIC EFFICIENCY CURVE

- Pulsation-free precise conveying
- Strong vacuum suction high conveying pressure, stable
- No leakage
- Selection specialization
- Customize unique model and Logo for ancillary customers



CONFIGURATION CODE

MRV	A	32	S	Z	K	L	F	N	N	A	0

Series No.

Import and export threads

A	NPT1/8
B	NPT1/4
C	NPT3/8

Displacement

032/065/080/125/175/220	032= 0.32cc/r

Pump body material

S	316L

Gear shaft material

Z	Gear PEEK + shaft nano-ceramic (standard)

Plain bearing

K	PEEK

Import and export direction

L	180° (standard)
B	90°& other

Static sealing ring

F	PTFE
M	FKM
E	EPDM
P	FFKM
L	CR

Type of shaft seal

N	Shielded magnetic drive

Magnet material

N	NdFeB
M	Sintered NdFeB.
Y	Ferrite

Installation plate

A	Type A pressure plate.
B	Type B pressure plate.
0	Standard configuration

Particular treatment

0	No special treatment.
1	DLC coating
2	Electrolysis
3	Welded joint
4	Electric heating
5	G thread
9	non-standard tailoring

Technical parameters

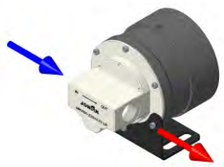
Displacement(cc/rev)	0.001-8 L/min
Inlet pressure	-0.98 - 25bar
Pressure difference	0.98bar - 10bar
Temperature	-60℃ - 100 ℃
Viscosity range	3000 mPas
Maximum density	1.8 g/cm³
Motor	DC brushed / brushless motor, stepper motor, AC motor.
Inlet and outlet threads	NPT1/8 NPT1/4 NPT3/8
Non-standard customization support.	

MRV SERIES

INSTALLATION METHOD

Medium conveying direction.

The synchronous rotation of the motor shaft and the gear pump.



Installation Method 1 (default)



Installation Method 2



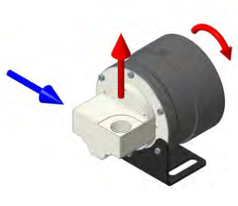
Installation Method 3



Installation Method 4 (customized)



Installation Method 5 (customized)

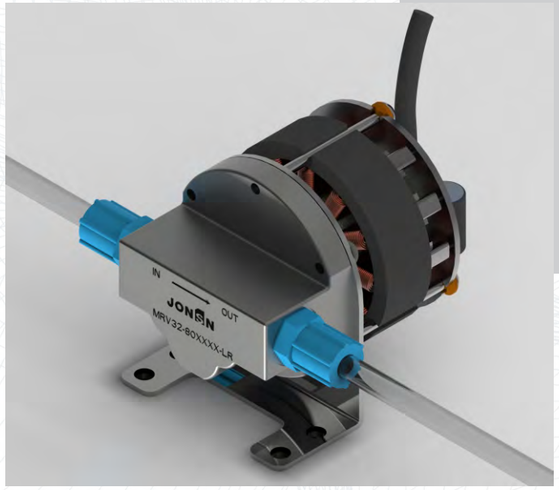


Installation Method 6 (customized)



Installation Method 7 (customized)





MRV SERIES

APPLICATION

THE MRV SERIES PRECISION MICRO MAGNETIC GEAR PUMP CAN BE USED IN: TRACE TRANSPORTATION, ADDITION, LUBRICATION, SPRAYING, DISPENSING, SAMPLING, MARKING, PRESSURIZATION, CIRCULATION, COATING, SPRAYING, METERING AND OTHER TRANSPORTATION SYSTEMS OF LIQUIDS.



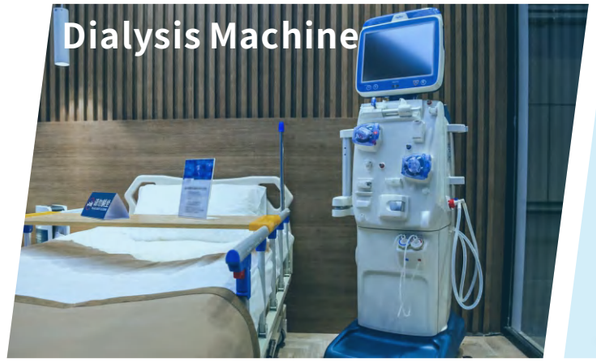


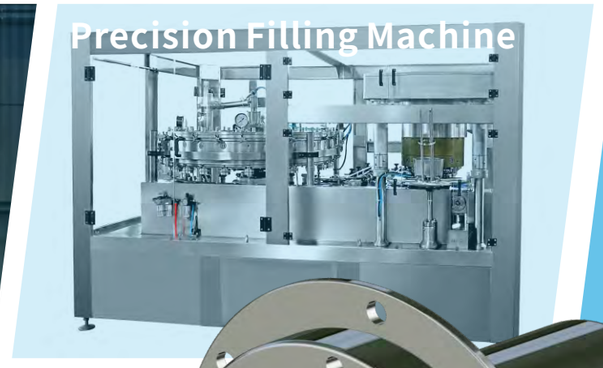


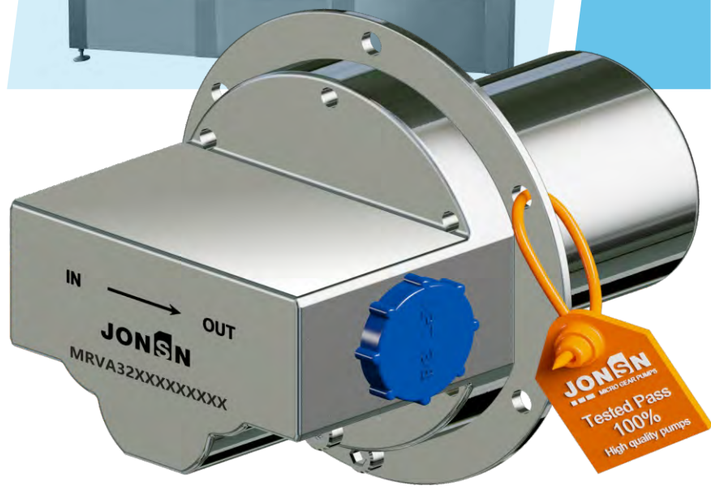


BE WIDELY APPLIED TO:

Automation and process control systems, trace transportation systems, circulation pressurization systems, automatic feeding (medication) systems, waste heat recovery systems, sampling equipment (including vacuum suction), chip processing equipment, laboratory equipment, cooling systems (refrigerant circulation pumps), foundry machinery, packaging machinery, cleaning systems, auxiliaries filling systems, chemical metering systems, small-scale/testing devices, and other occasions requiring small flow, no pulse, high linearity, high pressure difference, no leakage, precise measurement, and stable flow transportation.



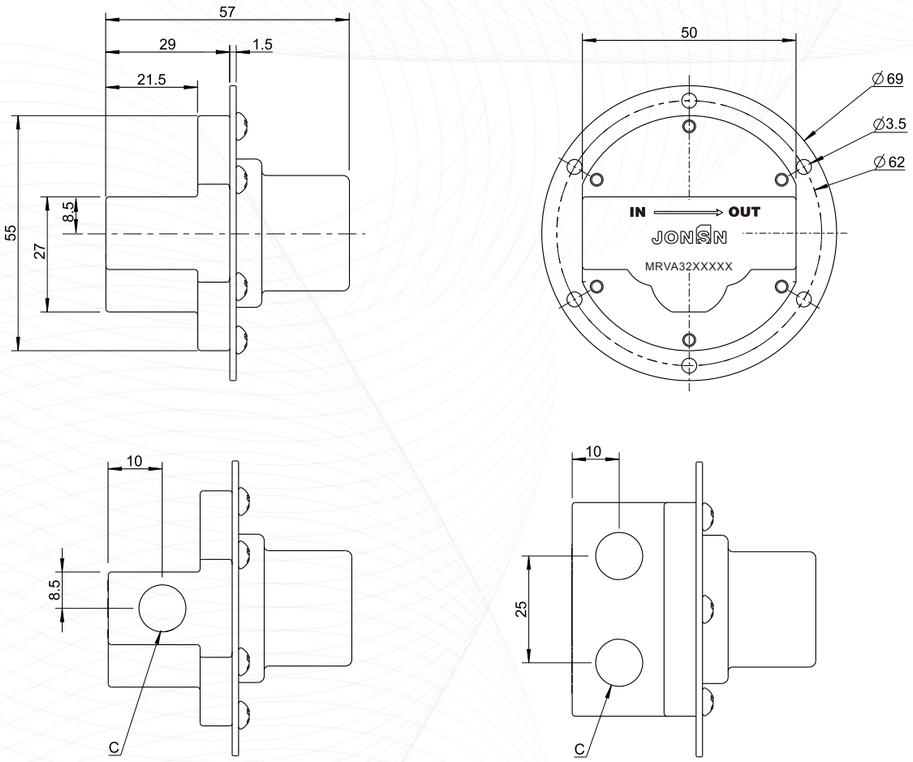




MRV SERIES

MRV

PRECISION GEAR METERING PUMP
32-80 cc



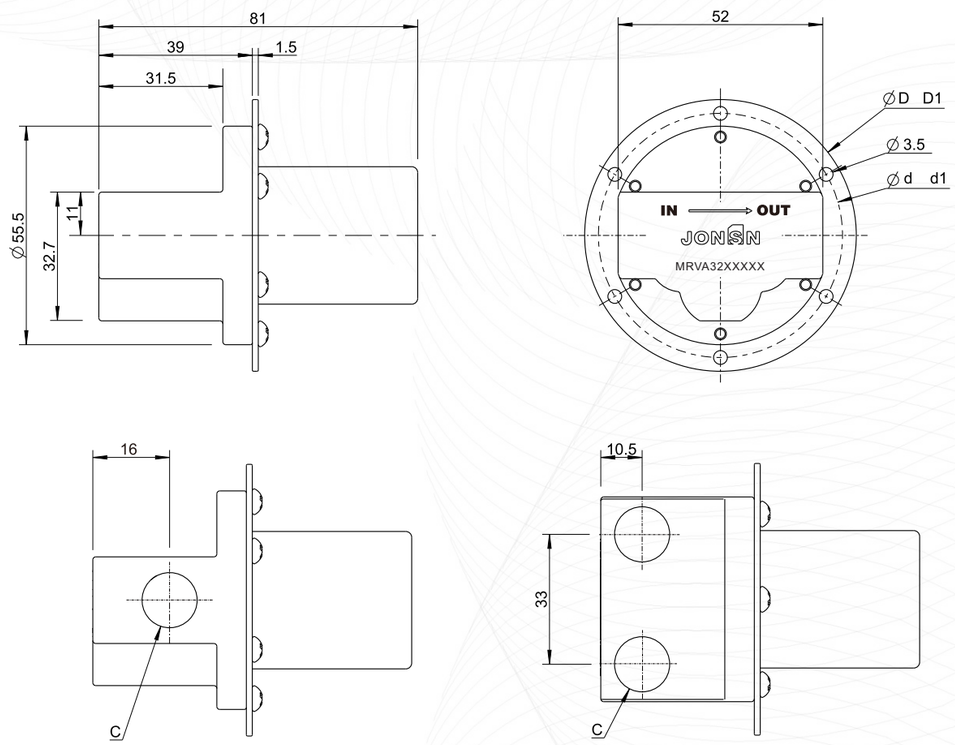


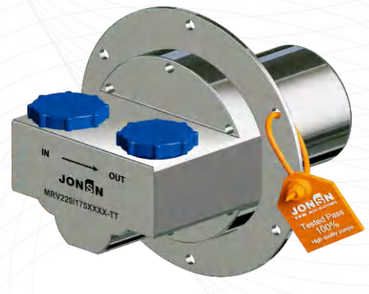
Note: We can provide you with detailed selection data solutions/dimensional drawing /STEP drawing

Pump model	inlet and outlet direction "C"	
	L	B
MRVA32	NPT1/8 or NPT 1/4	
MRVA65		
MRVA80		

MRV

PRECISION GEAR METERING PUMP
125-220 cc





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

Pump model	inlet and outlet direction "C"		The size of the motor connection flange.			
			Big mounting plate		Small mounting plate	
	L	B	D	d	D1	d1
MRVA125	NPT1/4 or NPT 3/8		79.5	74	69	62
MRVA175						
MRVA220						

MRV SERIES

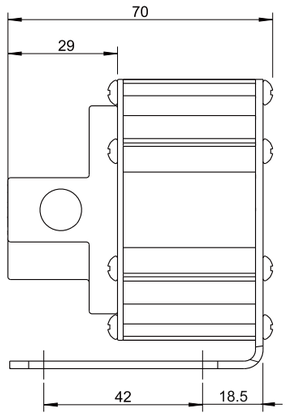
PUMP SIZE DRAWING

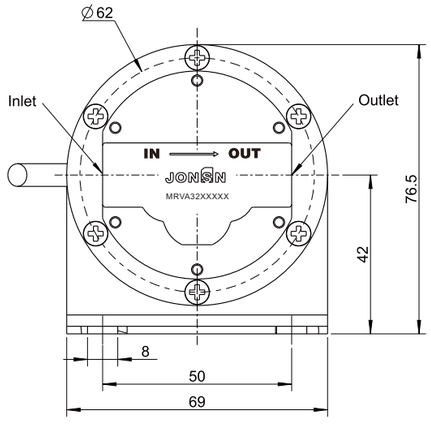
MRV

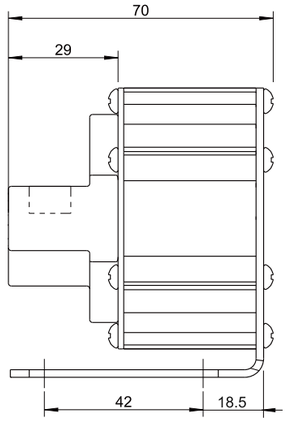
32/65/80+BLDC
24V 40W

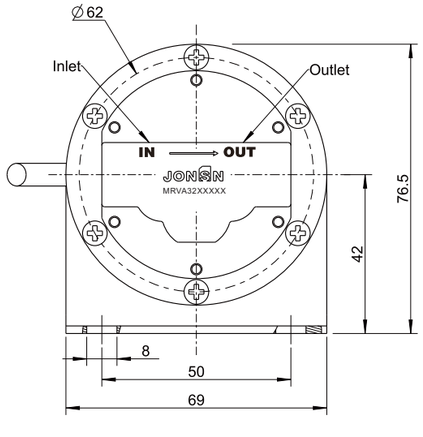


Floorboard installation.







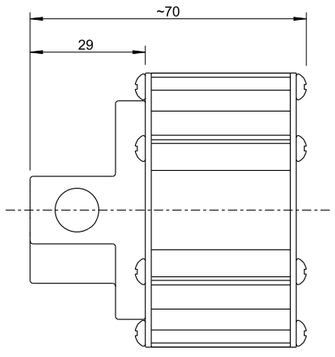


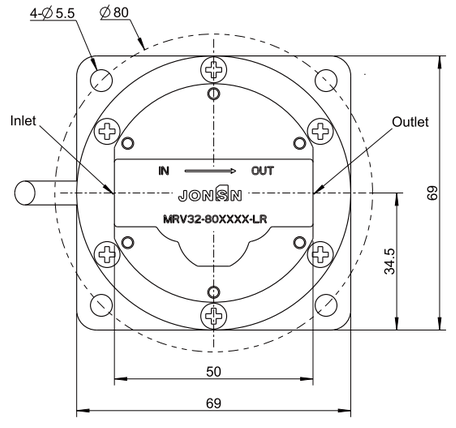
MRV

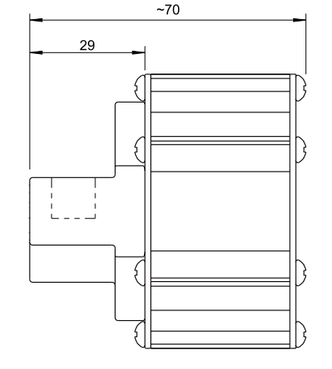
32/65/80+BLDC
24V 40W

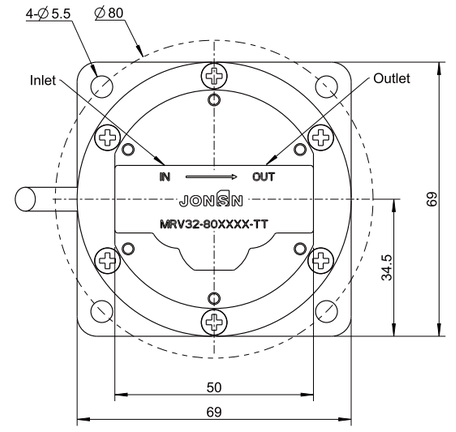


Mounting plate





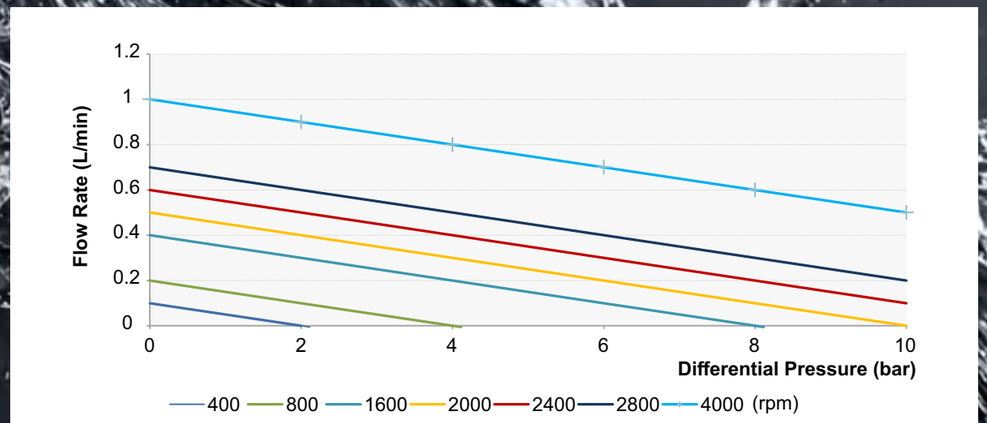




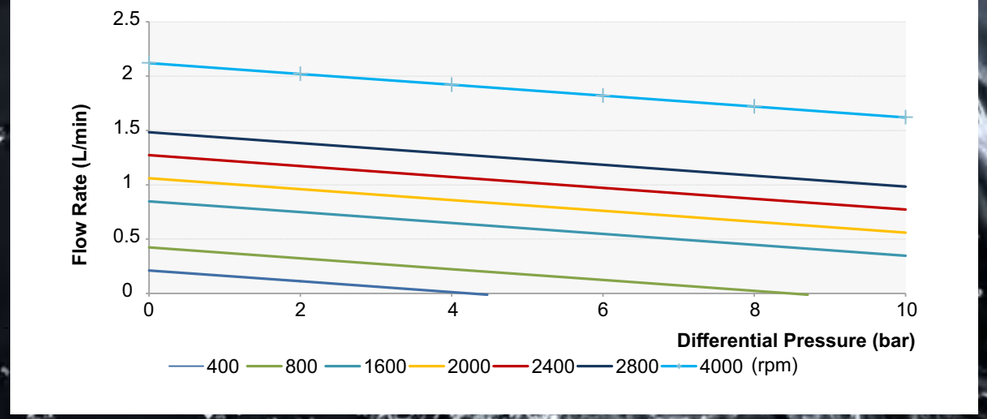
MRV **Series**
Performance Curves

water

Pump Head MRVA 32
Measured with water 1 mPas 40℃

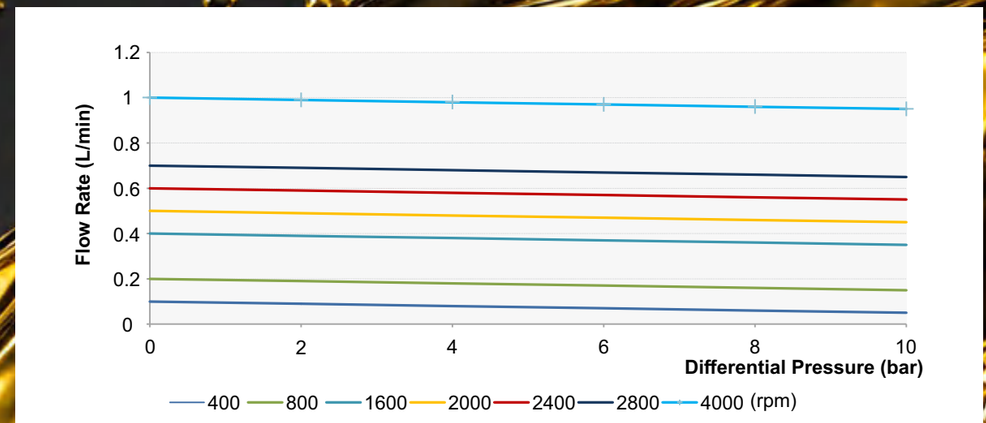


Pump Head MRVA 65
Measured with water 1 mPas 40℃

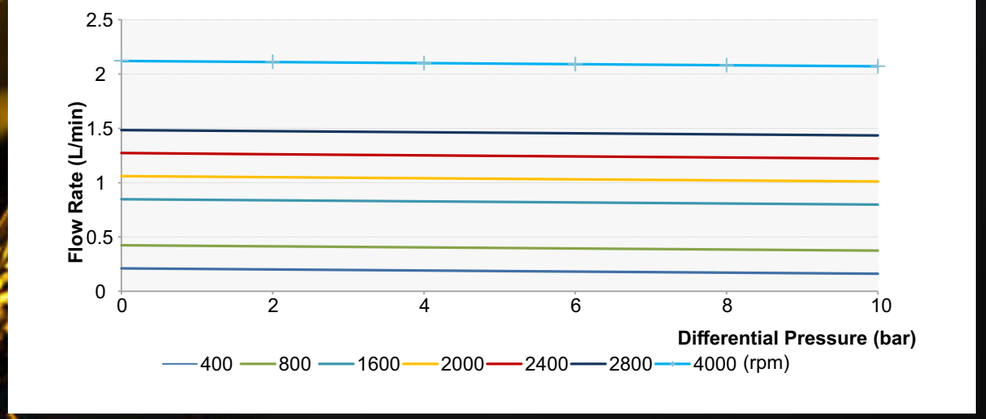


oil

Pump Head MRVA 32
Measured with oil 100 mPas



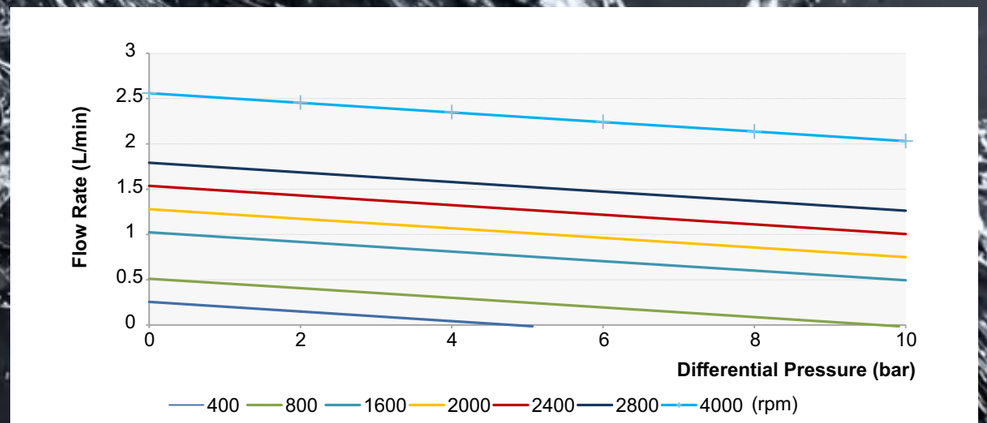
Pump Head MRVA 65
Measured with oil 100 mPas



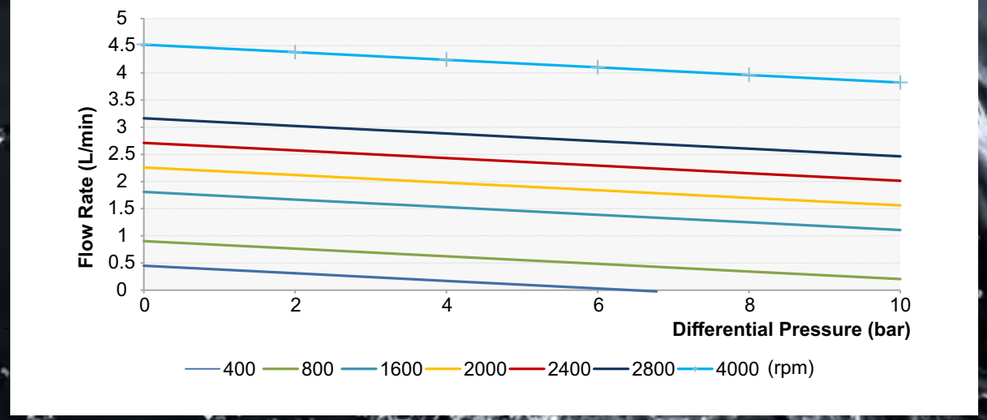
MRV **Series**
Performance Curves

water

Pump Head MRVA 80
Measured with water 1 mPas 40℃

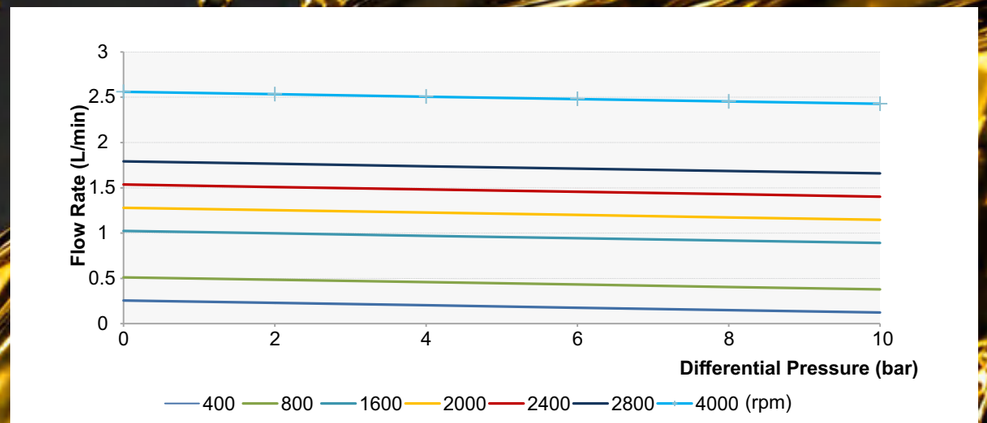


Pump Head MRVB 125
Measured with water 1 mPas 40℃

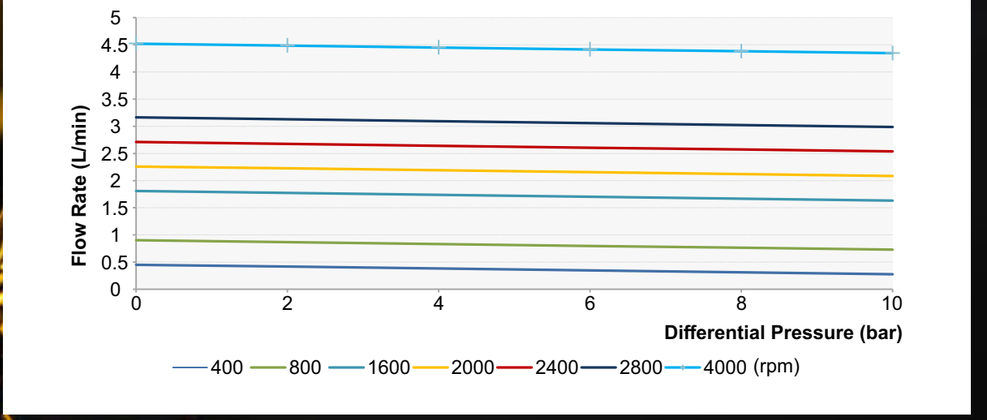


oil

Pump Head MRVA 80
Measured with oil 100 mPas



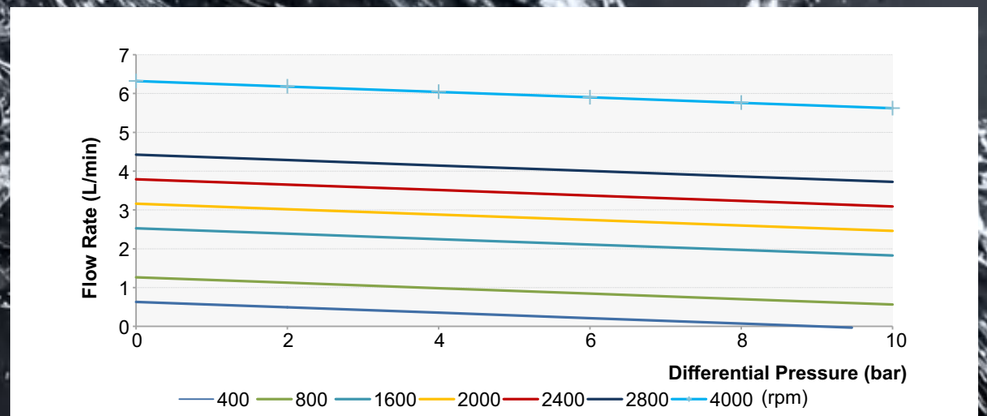
Pump Head MRVB 125
Measured with oil 100 mPas



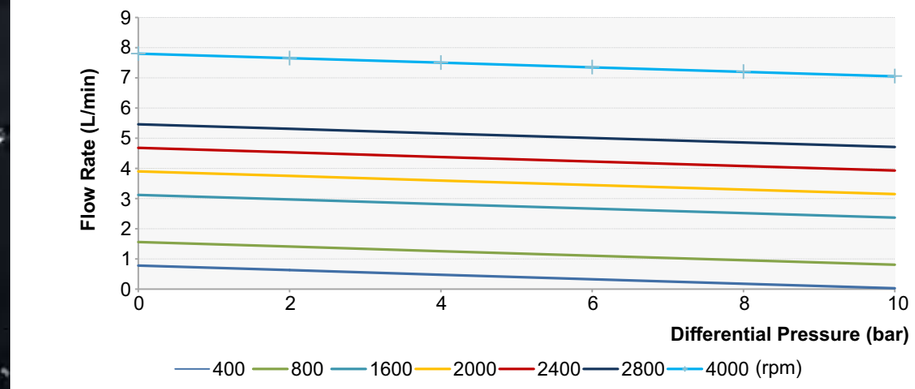
MRV **Series**
Performance Curves

water

Pump Head MRVB 175
Measured with water 1 mPas 40°C

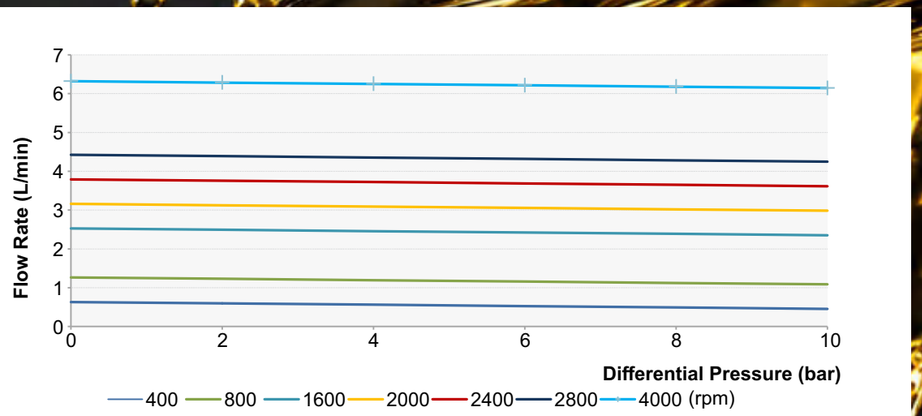


Pump Head MRVC 220
Measured with water 1 mPas 40°C

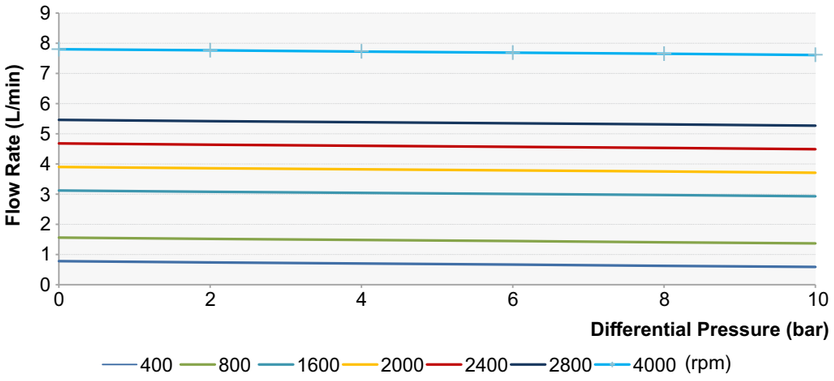


oil

Pump Head MRVB 175
Measured with oil 100 mPas



Pump Head MRVC 220
Measured with oil 100 mPas



MRV SERIES

MOTOR CONFIGURATION

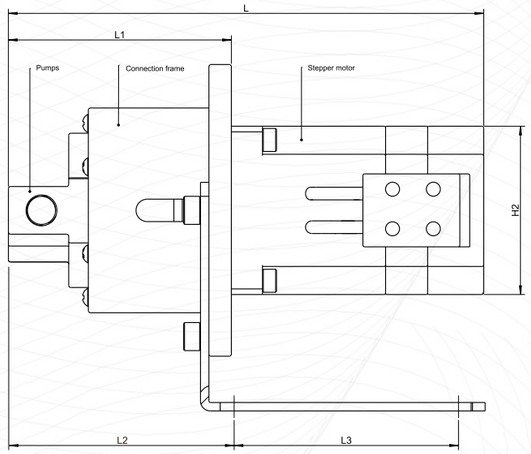
MRV + Servo Motor

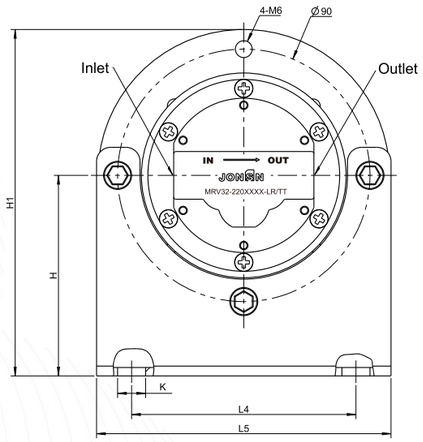
220V/110V

40/60 Frame



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





Pumps order NO.	L	L1	L2	L3	L4	L5	H	H1	H2	K
MRV32/65/80 & 42	~139	80	45	76	58	76	50	~86.5	40	6
MRV32/65/80 & 60	~170	80	80.5	80	80	105	71.5	~124	60	10
MRV100/125/175/220 & 40	~164.3	104.8	55	76	58	76	50	~86.5	40	6
MRV100/125/175/220 & 60	~194.8	104.8	105.8	80	80	105	71.5	~124	60	10

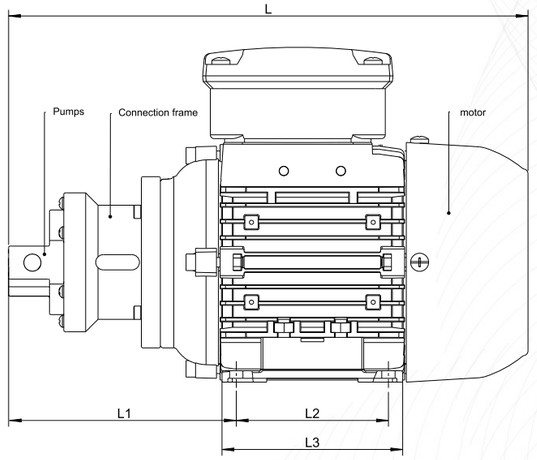
MRV + IEC Motor

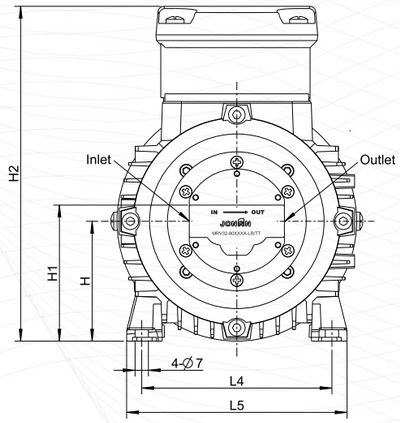
220V/110V

63/71 Frame



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





Pumps order NO.	L	L1	L2	L3	L4	L5	H	H1	H2
MRV32/65/80 & 63	~273	120	80	95	100	116	63	71.5	~176
MRV32/65/80 & 71	~299	133	90	108	112	135	63	71.5	~176
MRV125/175/220 & 63	~308	146	80	95	100	116	71	82	~190
MRV100/125/175/220 & 71	~334	159	90	108	112	135	71	82	~190

MRV SERIES

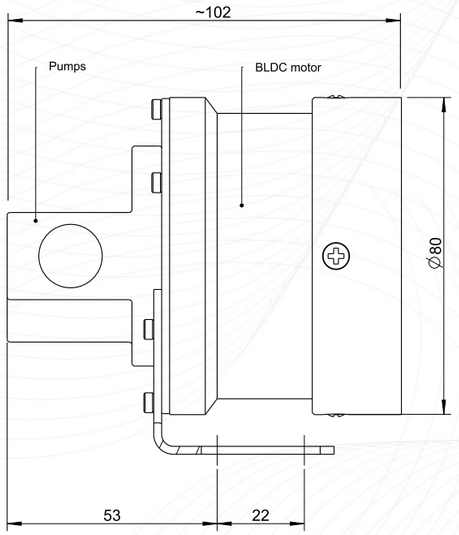
MOTOR CONFIGURATION

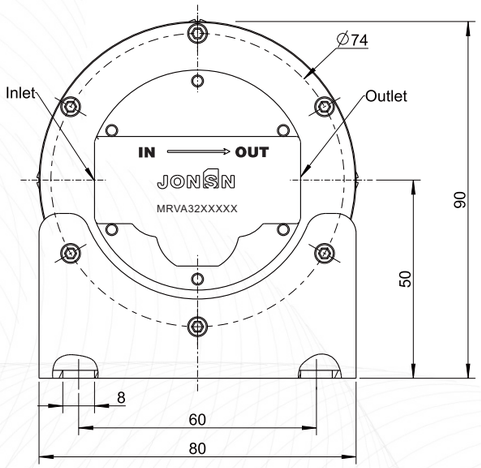
MRV + BLDC Motor

24V 150W



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





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: