JONSN PUMPS & TECHNOLOGY

PRECISION MICRO GEAR PUMP COMPATIBLE WITH DC MOTORS

COMPREHENSIVE CATALOG

Attentively focus on producing each precision gear pump

INTEGRATED CATALOG

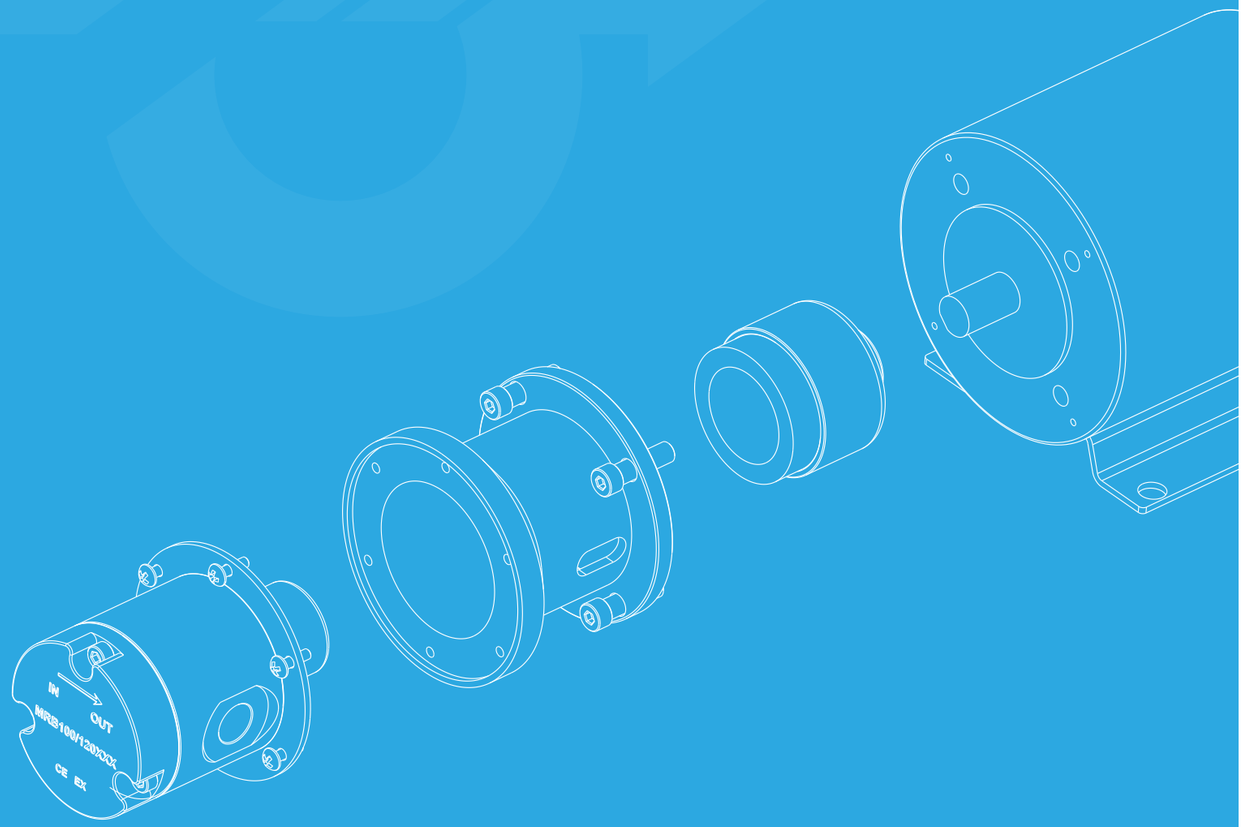


JONSN PUMPS & TECHNOLOGY

PRECISION-GRADE MICRO GEAR PUMP - DC MOTOR

- JONSN Precision Grade Micro Gear Pump - DC Motor
- Suitable for fluid transfer equipment that is small in size, cost-optimized, and structurally compact.
- It features good flow linearity and long service life.
- Selectable DC voltages such as 12V/24V/36V/48V can be used according to power supply requirements,
- and pump speed, and thus flow rate, can be controlled through methods like 0-5V or 0-10V, PWM, and potentiometers.

They play an important role in analytical or medical equipment, charging piles, semiconductors, inkjet, fuel cell technology, on-board urea systems, cooling circuits, and compact flow controllers. In this manual, you will find the performance curve of JONSN precision grade micro gear pumps with DC motors, facilitating the selection and use by technical engineers.



DEDICATE AND FOCUS ON CRAFTING EACH PRECISION-GRADE GEAR PUMP WITH UTMOST CARE

CATALOG

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MRC + DC MOTOR PERFORMANCE CURVE. 36-41
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MRE+BLDC MOTOR
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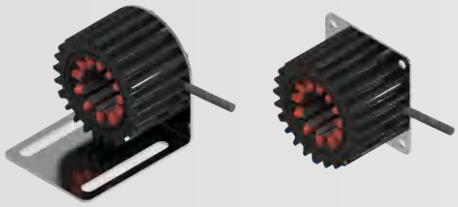
MRE+ Brushless Motor Dimension Drawing. 43
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MRV+BLDC MOTOR
50-54

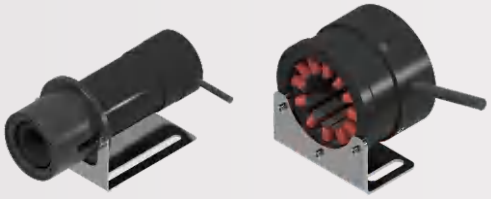
MRV+ Brushless Motor Dimension Drawing. 51
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BLDC MOTOR



40-70w



100-120-150w



200-300-400w



600-1000-1500-2000w

DC MOTOR POWER MATCHING TABLE

pump size	Brushed motor	Brushed motor											
	24V25W	24V40W	24V70W	24V100W	24V120W	24V150W	24V200W	24V300W	24V400W	24V600W	24V1000W	48V1500W	48V2000W
MPG	*	*											
MRA	*	*	*	*	*	*	*	*					
MRB			*	*	*	*	*	*					
MRC								*	*	*	*	*	
MRE										*	*	*	*
MRF										*	*	*	*

BASIC PARAMETERS

voltage	DC24V	DC24V	DC24V	DC24V	DC24V	DC24V	DC24V	DC24V	DC48V	DC48V	DC48V
power	40W	70W	100W	150W	300W	400W	600W	1000W	1000W	1500W	2000W
Speed regulation	Analog signal: 0 - 5V / PWM										
speed range	500~4000 rpm (Other speeds can be customized)										
Starting voltage	0. 5V										
Insulation class	Class F										
Ambient temperature	-40~60										
Locked - rotor protection	Locked-rotor current: 3A	Locked-rotor current: 3A	Locked-rotor current: 4A	Locked-rotor current: 5.5A	Locked-rotor current: 12A	Locked-rotor current: 16A	Locked-rotor current: 25A	Locked-rotor current: 41A	Locked-rotor current: 20A	Locked-rotor current: 31A	Locked-rotor current: 41A
Over - temperature protection	√	√	√	√	√	√	√	√	√	√	√

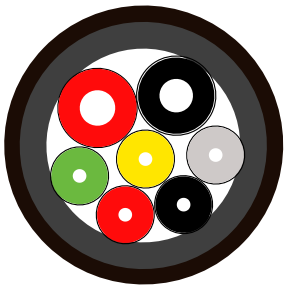
PROTECTION FUNCTIONS

Locked - rotor protection	When the motor starts, if faults such as pump overpressure or jamming occur, the motor will shut down immediately. The power supply needs to be restarted after the fault is eliminated to remove the protection.
Over - temperature protection	The motor driver will shut down for protection when its temperature exceeds 130°C. The protection will be automatically released after the driver cools down, allowing restart.

NOTE

1.The green wire is the speed regulation signal input. The input voltage must not exceed 5V (or the equivalent voltage of the PWM duty cycle). Otherwise, it will cause a driver failure.

2.The yellow wire is the output line for the speed pulse signal. No live signal must be input into it, otherwise it will cause a failure in the speed feedback function.

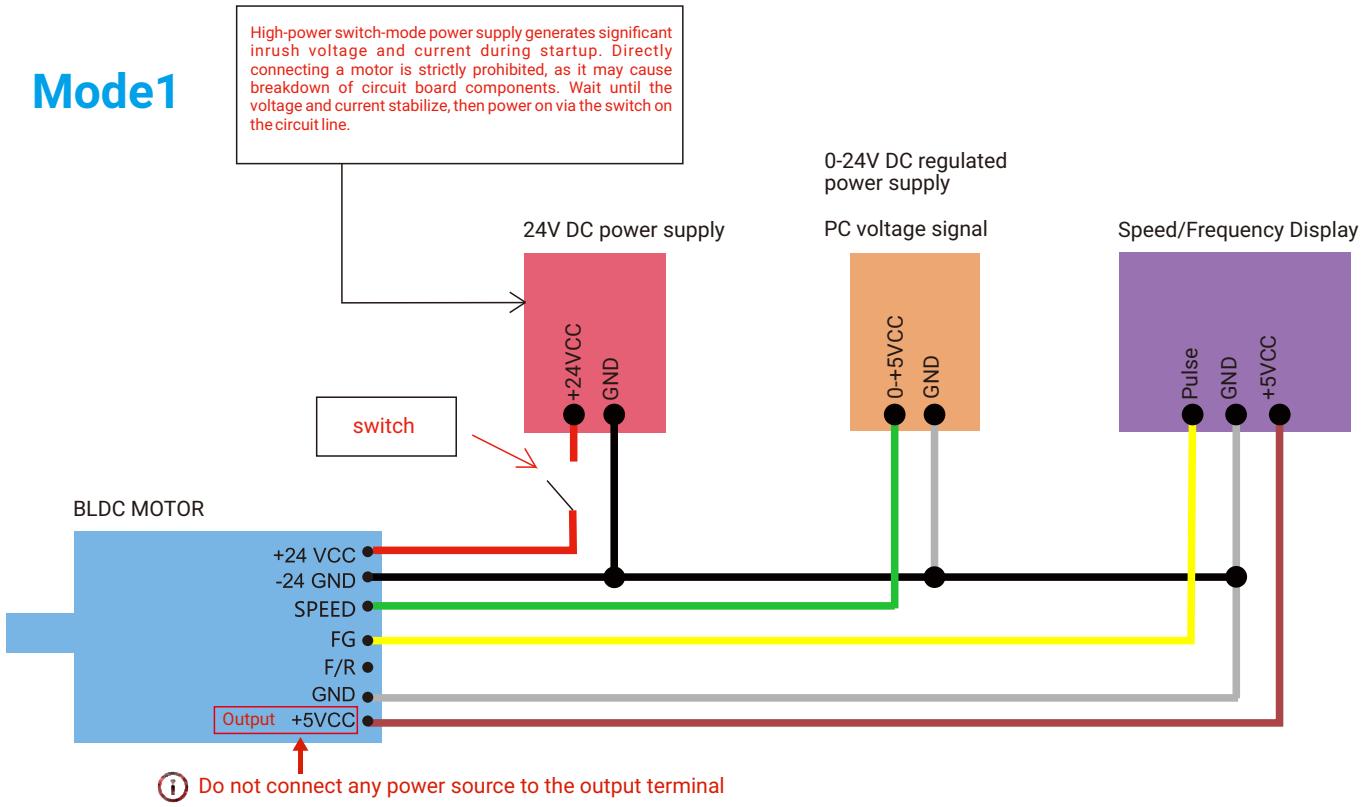


POWER SUPPLY CORD DEFINITION

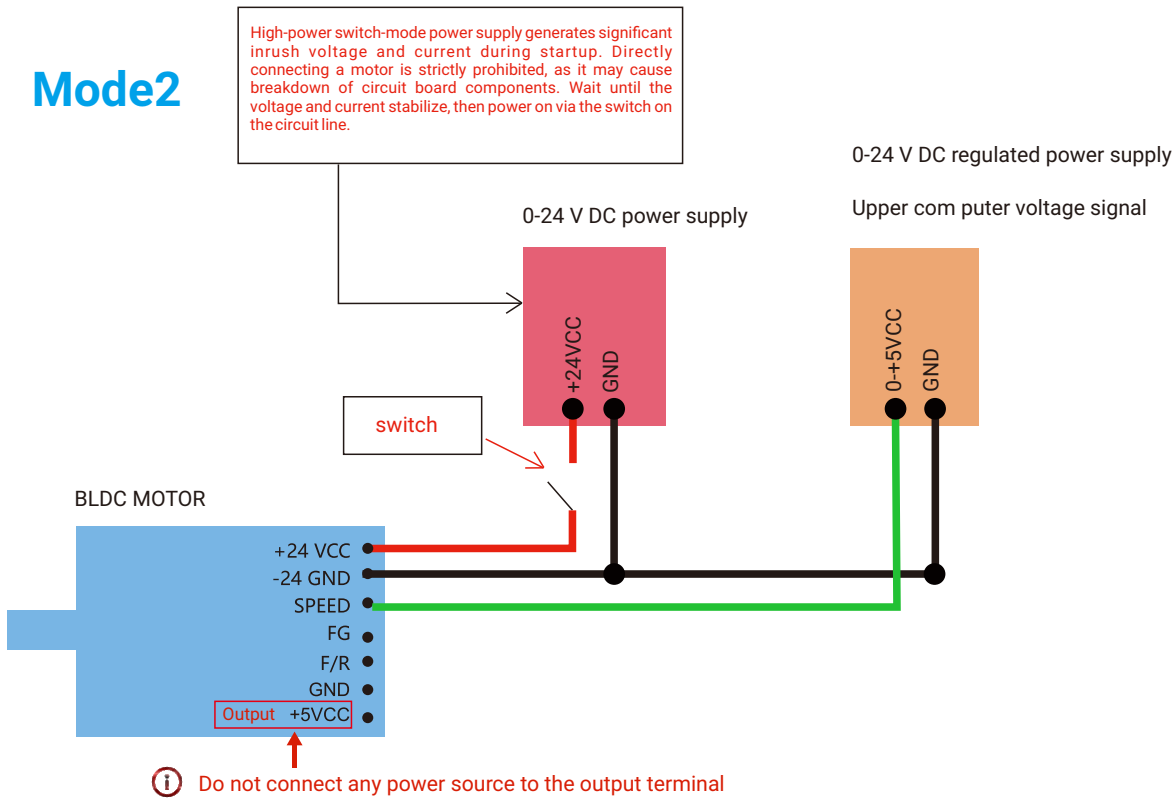
● Red wire: Vcc+	24V+ power supply input	The continuous operating voltage must not exceed 10% above the rated voltage.
● Black wire: GND / V-	GND (Common ground), 24V- (Negative 24V power supply), Speed control voltage V- (Negative terminal of speed control voltage), Speed feedback instrument V- (Negative terminal of speed feedback signal)	
● Green wire	0-5V+ or PWM speed control signal input	
● Yellow wire	Speed pulse signal output (2 pulses per motor revolution)	
○ White wire	Forward/Reverse Control Line (Default: Forward when open, Reverse when connected to GND)	
● Red thin wire	5V Output (Reserved for potentiometer knob speed control. When the potentiometer is not in use, ensure proper insulation/isolation to prevent accidental contact with other circuits which may cause malfunctions.)	
● Black thin wire	GND Common (Reserved for potentiometer knob speed control.When the potentiometer is not in use, ensure proper insulation to prevent accidental contact with other circuits that may cause malfunctions.)	

PROTECTION FUNCTIONS

Mode1

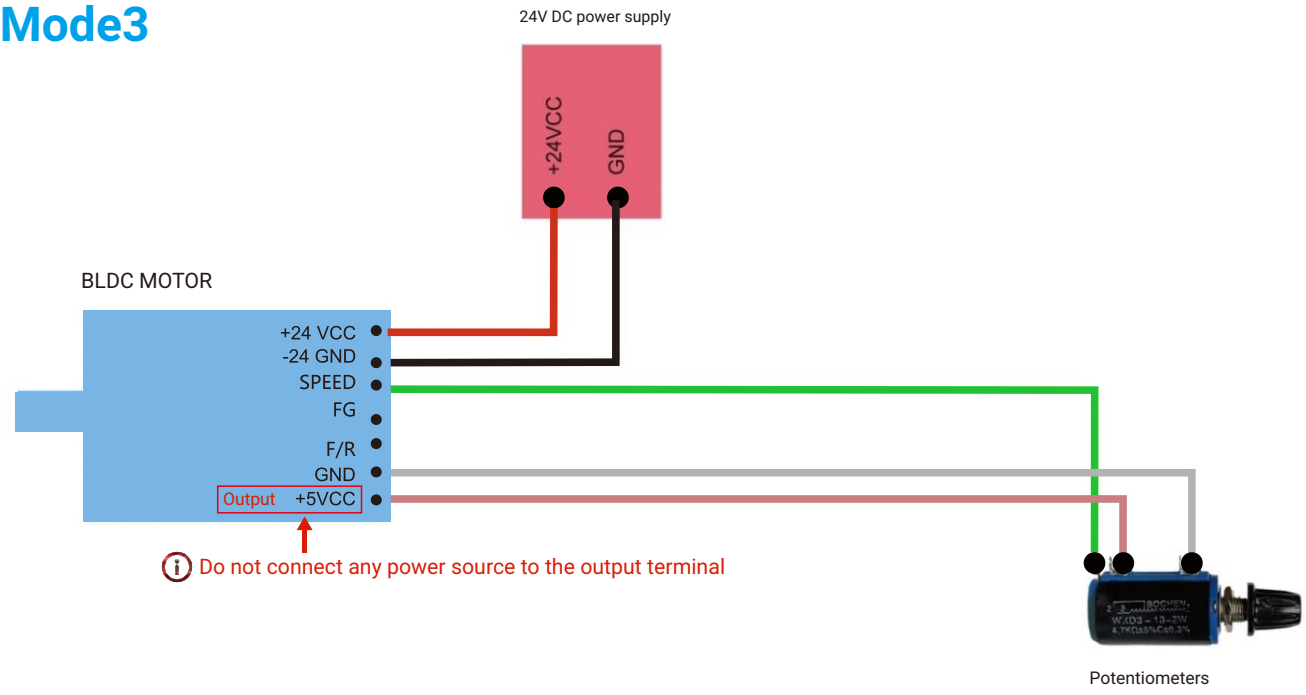


Mode2

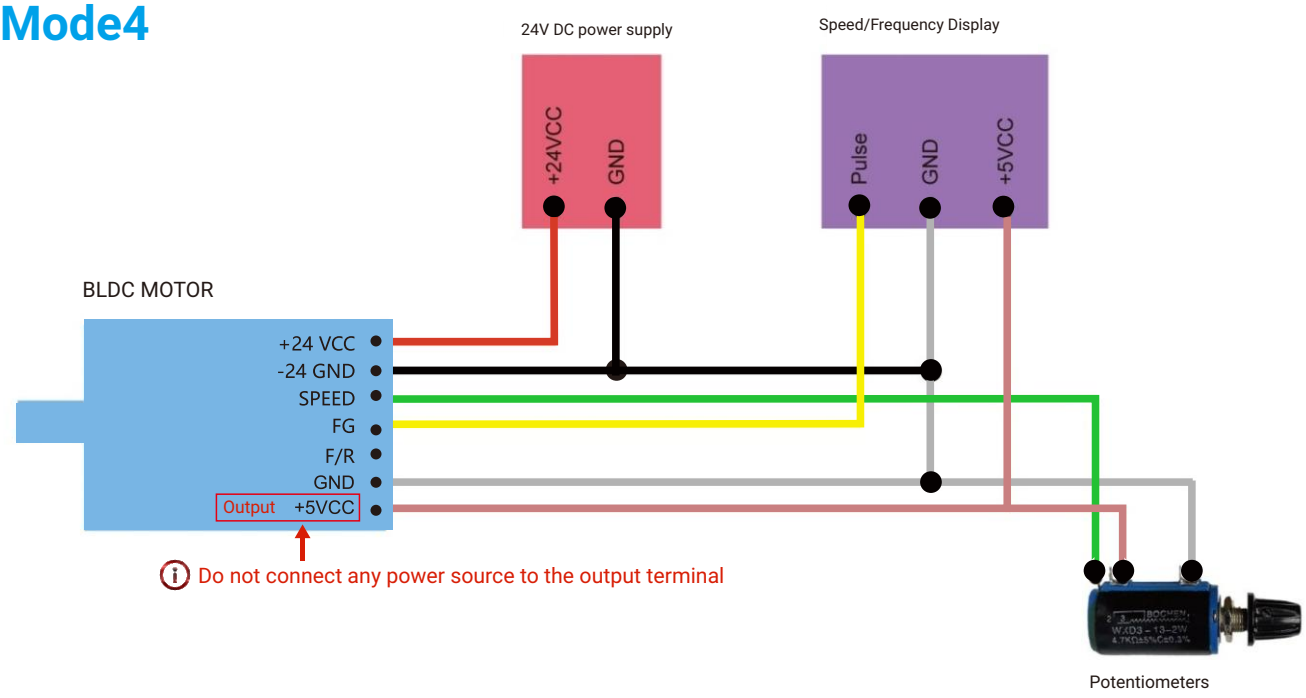


PROTECTION FUNCTIONS

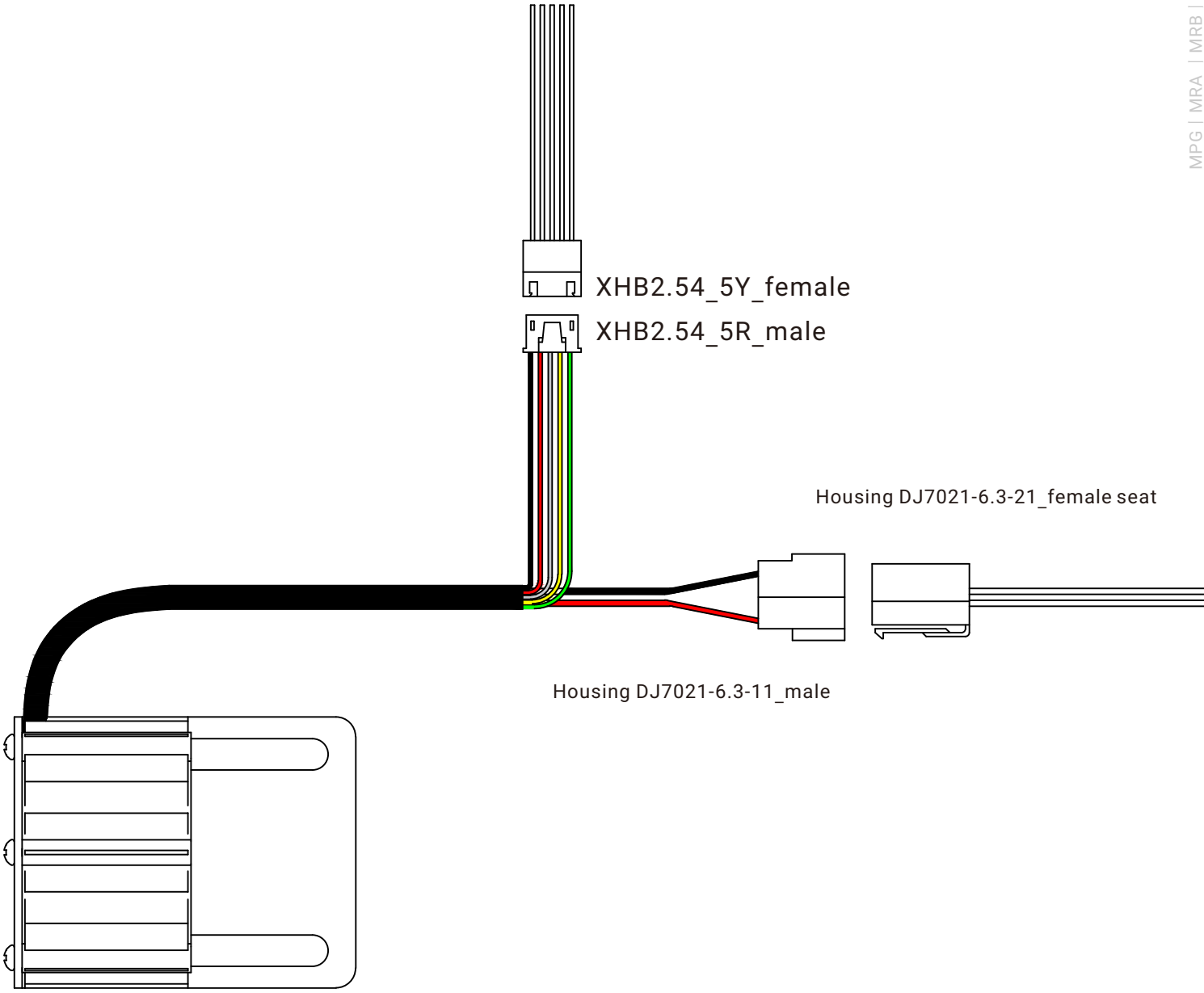
Mode3



Mode4



POWER CORD QUICK CONNECTOR SPECIFICATIONS



APPLICABLE MOTOR

40W/70W/100W/150W

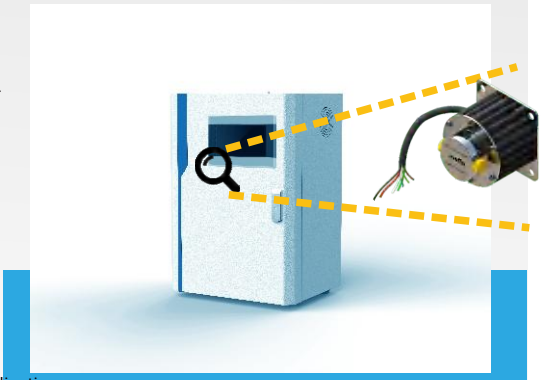


INDUSTRY APPLICATIONS

ANALYTICAL INSTRUMENT EQUIPMENT

MPG | MRA

Industry Characteristics	Precisely control fluid parameters, including flow rate, pressure, stable flow velocity, and chemical compatibility. These parameters and control methods collectively ensure the stability and accuracy of the analytical instruments, making them suitable for a wide variety of analytical requirements.
Application Points	Function Modules: Reagent delivery, sample aspiration, dispensing, dilution, mixing, cleaning, and waste liquid disposal, along with analytical equipment support systems. Transport Medium: Reagents and corrosive aqueous solutions.
Conveying Medium	Reagents and corrosive aqueous solutions.
Flow Range	Variable flow rates up to 1000 mL/min (current minimum displacement: 0.04 cc/rev)
Pressure Range	Variable pressures up to 6 Bar (maximum operating pressure)
Suitable Pump Types	MPGA004、MPGA008、MRA5/13、MRA7/13、MRA10/13、MRA12/13
Suitable Motors	Brushless DC Motors: 24V 40W / 24V 70W (standard high-efficiency models) Precision Control Alternatives: Servo motors or stepper motors for high-accuracy applications



Our Advantages:

The JONSN precision micro gear pump features high accuracy and pulse-free linear flow output.

- Adopts shielded leak-free structural design with modular installation, enabling easy cleaning and maintenance
- Made of 316L stainless steel with precision machining forming
- Gears adopt high-strength VICTREX® PEEK, heat treatment technology and wear-resistant zirconia ceramic
- The sliding bearing adopts modified PEEK composite nano-ceramic formula
- Gears and sliding bearings deliver excellent wear resistance, with an overall service life of up to 20,000 hours

HIGH POWER LIQUID-COOLED SUPERCHARGING STATION

MRV

Industry Characteristics	he maximum output power of liquid-cooled ultra-fast charging piles is usually 600 kW. Equipped with a liquid cooling heat dissipation system,it effectively dissipates massive heat generated by high-power charging, ensures stable operation of charging equipment, extends service life,and improves charging efficiency and operational safety.
Application Points	Stable flow rate, low motor energy consumption, compact structure, and strong adaptability to outdoor environments
Conveying Medium	Low-viscosity silicone oil for circulating cooling
Flow Range	Common flow rate: 4–6 L/min; partial models: 10–15 L/min
Pressure Range	less than 6 ba
Suitable Pump Types	MRV220
Suitable Motors	Brushless motor, 24V 150W



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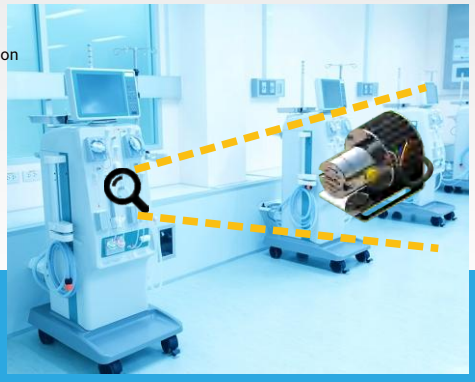


INDUSTRY APPLICATIONS

DIALYSIS MACHINE

MRV MRA

Industry Characteristics	As the power source for fluid delivery in hemodialysis machines and renal dialysate circulation, the pump delivers stable and controllable flow.
Flow rate	approx. 2 L/min, with stable delivery and a wide flow range. The rotating speed is adjustable on demand to meet the flow velocity requirements of dialysate.
Operating Pressure	< 3 bar, negative pressure at pump inle
Temperature	High-temperature sterilization at 80–90 is required.
Applicable Pump Types	MRA12/13 , MRB12/16, MRV125
Applicable Motors	Motors are selected according to the hemodialysis machine model Brushless: 24V 40W, 24V 70W; or Brushed: 24V 25W



Our Advantages:

Gears adopt high-strength VICTREX® PEEK, heat treatment technology and wear-resistant zirconia ceramic

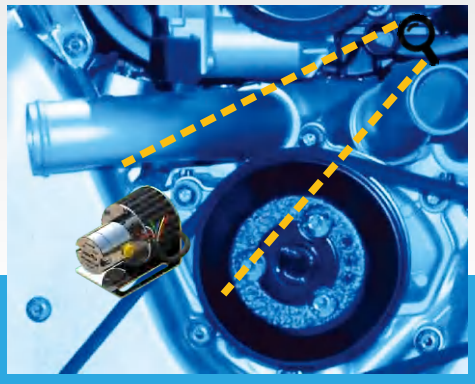
The sliding bearing adopts modified PEEK composite nano-ceramic formula

Gears and sliding bearings deliver excellent wear resistance, with an overall service life of up to 20,000 hours

DIESEL ENGINE SELECTIVE CATALYTIC REDUCTION (SCR) EMISSION CONTROL SYSTEM

MRA MRB

Industry Characteristics	It reduces NOx in exhaust gas into harmless nitrogen (N) and water vapor (H O), effectively controlling emissions and meeting regulatory requirements.
Application Points	Linear and stable flow delivery
Medium	30% Urea Solution
Flow Range	900 L/h, adjustable
Pressure Range	6–10 bar
Applicable Pump Types	MRA7/13 、MRB12/16、MRB19/16、MRC12/37、MRE24/37、MRV175
Applicable Motors	24V 70W, 24V 150W, 24V 300W, 24V 600W, 24V 1000W



Our Advantages:

The JONSN precision micro gear pump features high accuracy and pulse-free linear flow output.

- Adopts shielded leak-free structural design with modular installation, enabling easy cleaning and maintenance
- Made of 316L stainless steel with precision machining forming
- Gears adopt high-strength VICTREX® PEEK, heat treatment technology and wear-resistant zirconia ceramic
- The sliding bearing adopts modified PEEK composite nano-ceramic formula
- Gears and sliding bearings deliver excellent wear resistance, with an overall service life of up to 20,000 hours

BLDC MOTORS

MPG pump head + DC brushless motor

MPG Series Micro Gear PumpFlow rate: 1–135ml/min

MPG004Displacement: 40 μl/r. It covers a flow range of 1–135 ml/min, featuring a wide adjustable range for micro flow, with a working differential pressure of 2 bar.

MPG008Displacement: 80 μl/r. It covers a flow range of 15–280 ml/min, featuring a wide adjustable range for micro flow, with a working differential pressure of 5 bar.

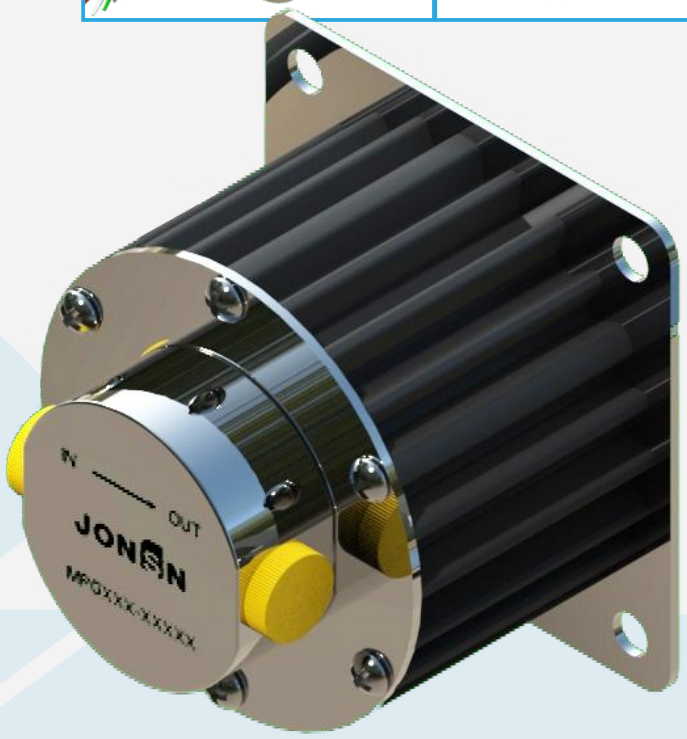
The MPG series micro gear pumps deliver stable and precise flow with compact size. They are widely applied in medical treatment, biochemical instruments, fuel cells, renal dialysis, inkjet printing, experimental analyzers and other industries.

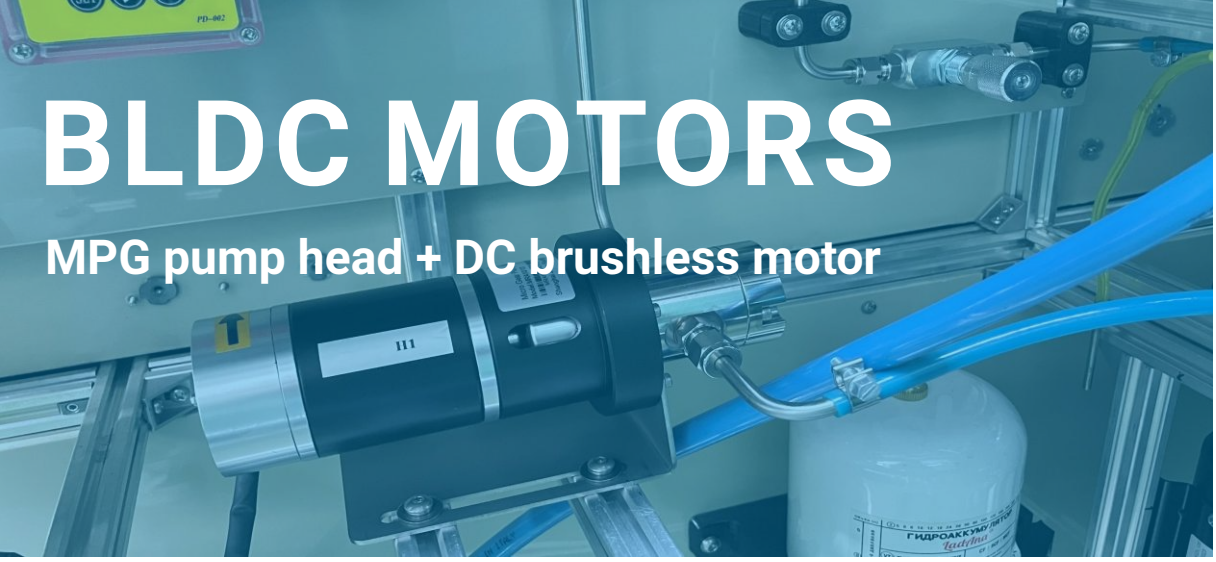
MPG + 40/70W



MPG + 100/120W



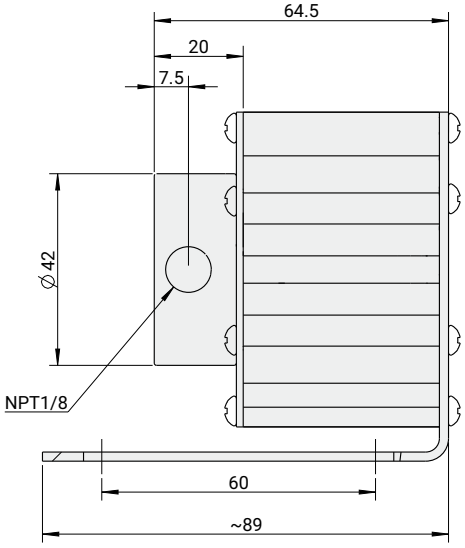


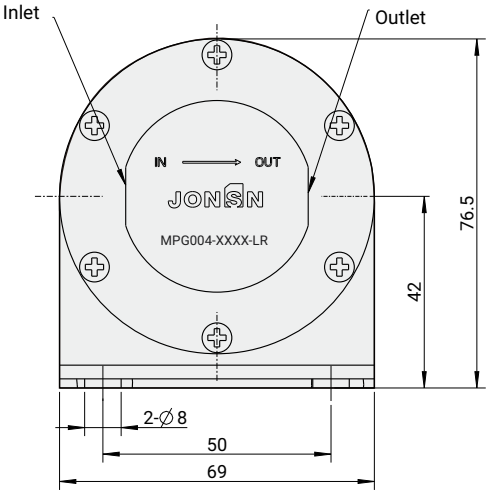


BLDC MOTORS

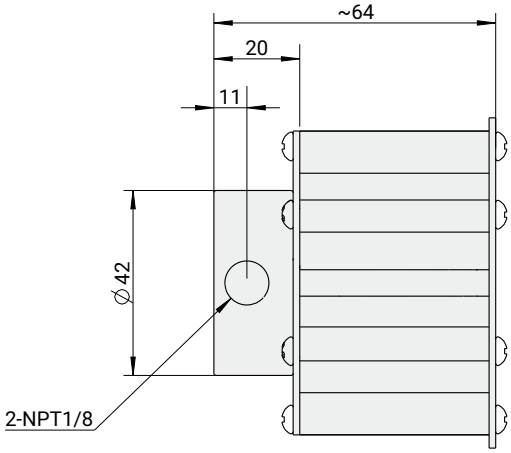
MPG pump head + DC brushless motor

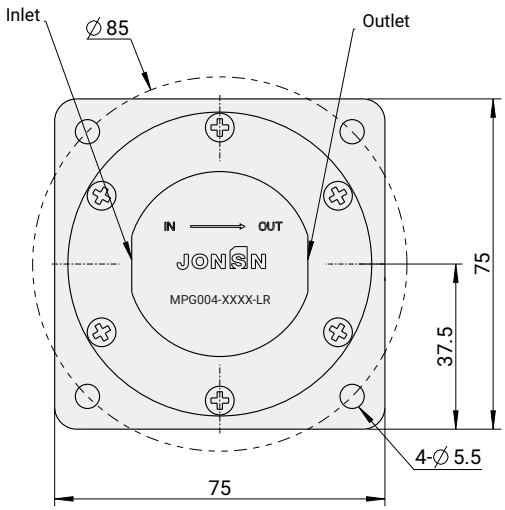
Pump Model	Brushless Motor	
MPGA004 MPGA008	40W/70W brushless motor, base plate mounting	unified dimension



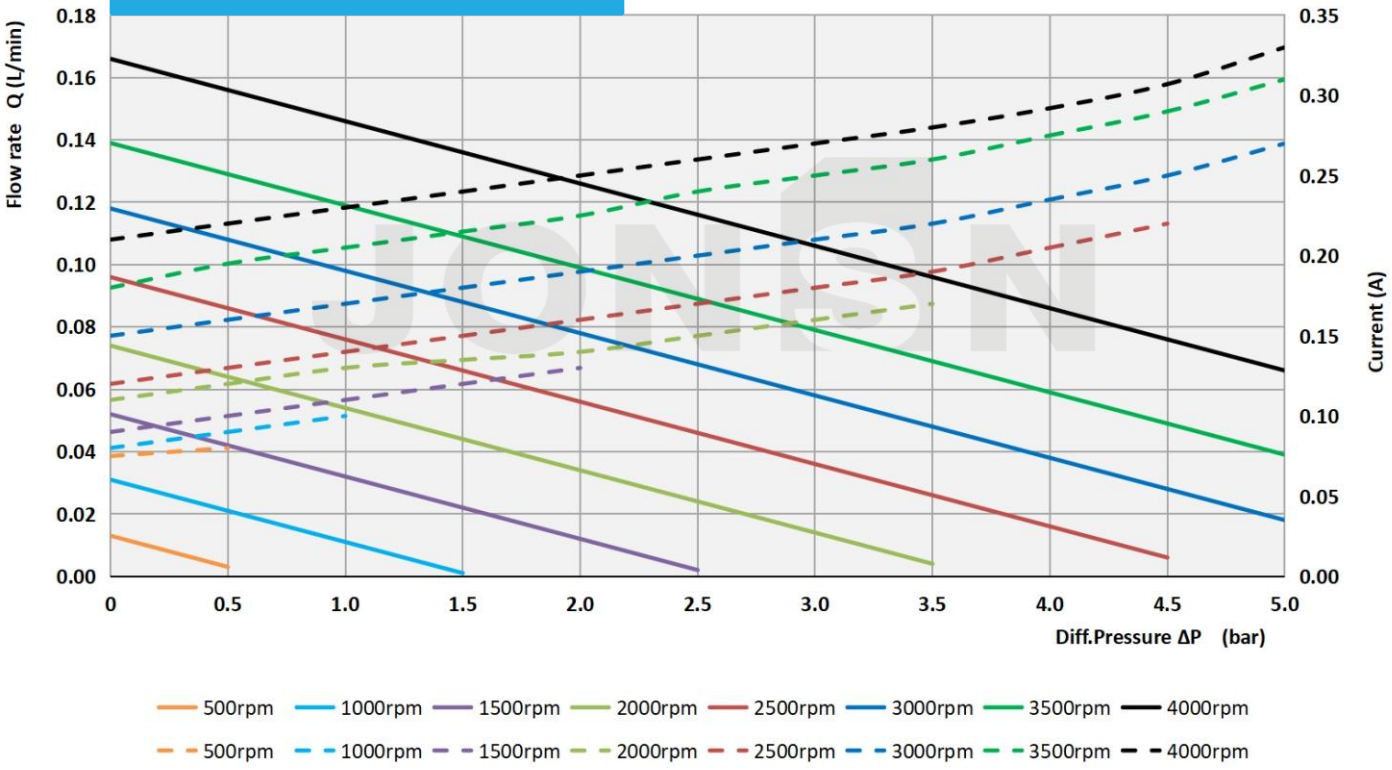


Pump Model	Brushless Motor	
MPGA004 MPGA008	40W/70W brushless motor, square flange mounting	unified dimension

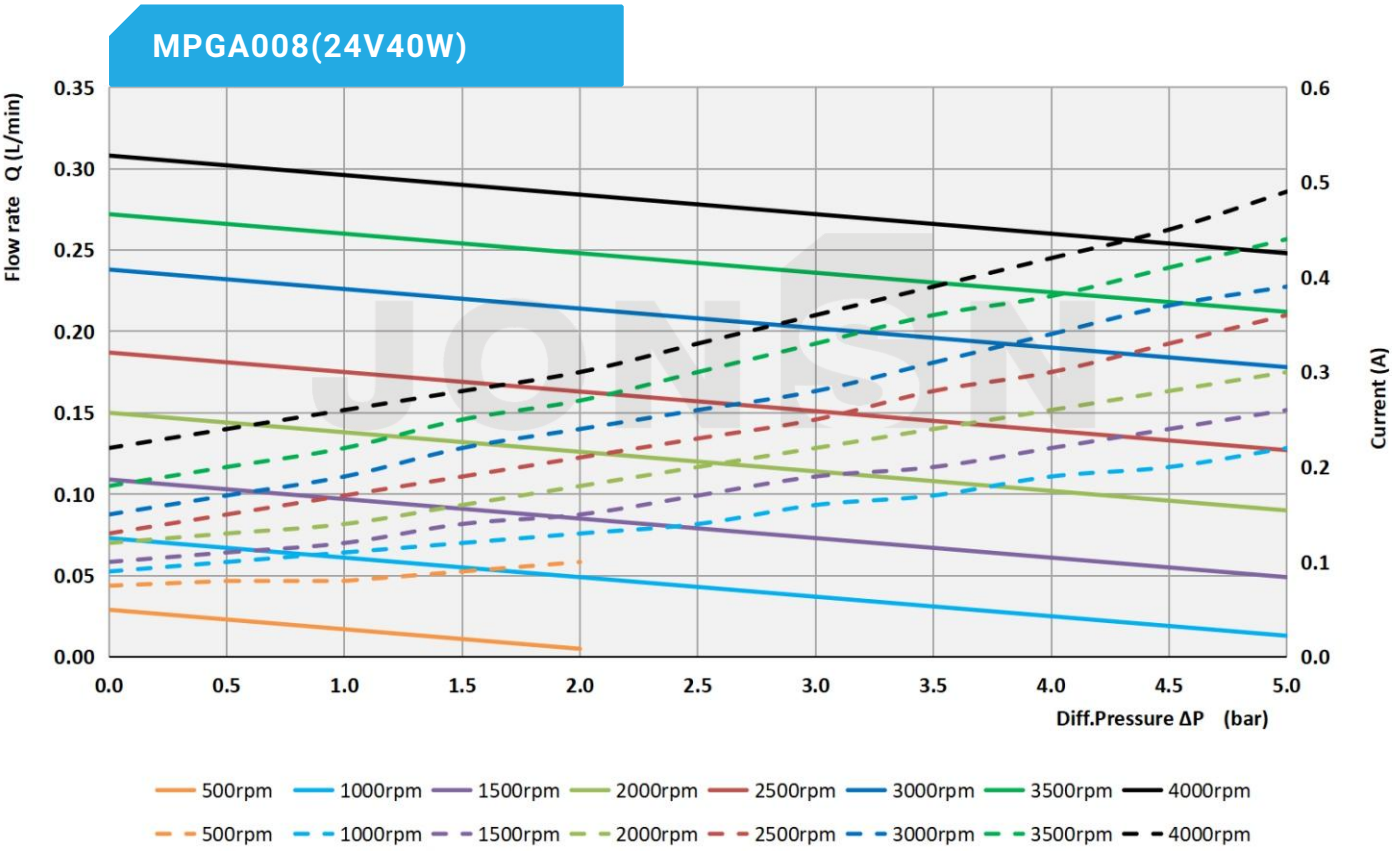


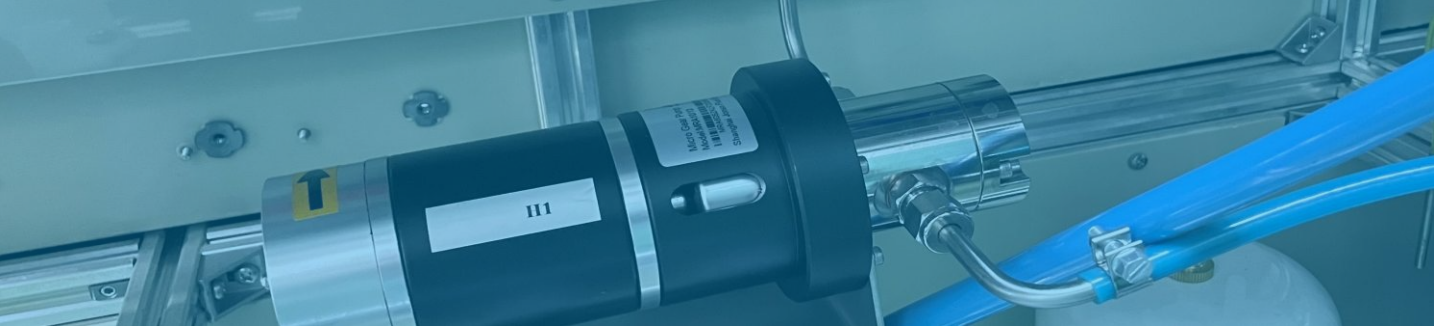


MPGA004(24V40W)



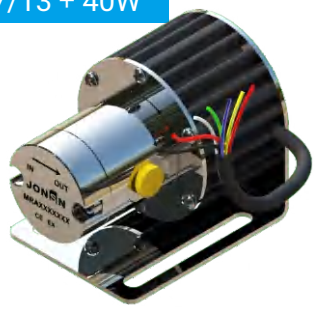
MPGA008(24V40W)





HOW TO FIND CALCULATIONS FOR MOTOR SPEED AND SHAFT POWER?

MRA7/13 + 40W



FOR EXAMPLE

1 Operating Condition: Transport Medium - Water.

Flow Rate Requirement: 0.6L/min.

2 Pressure: 4 bar.

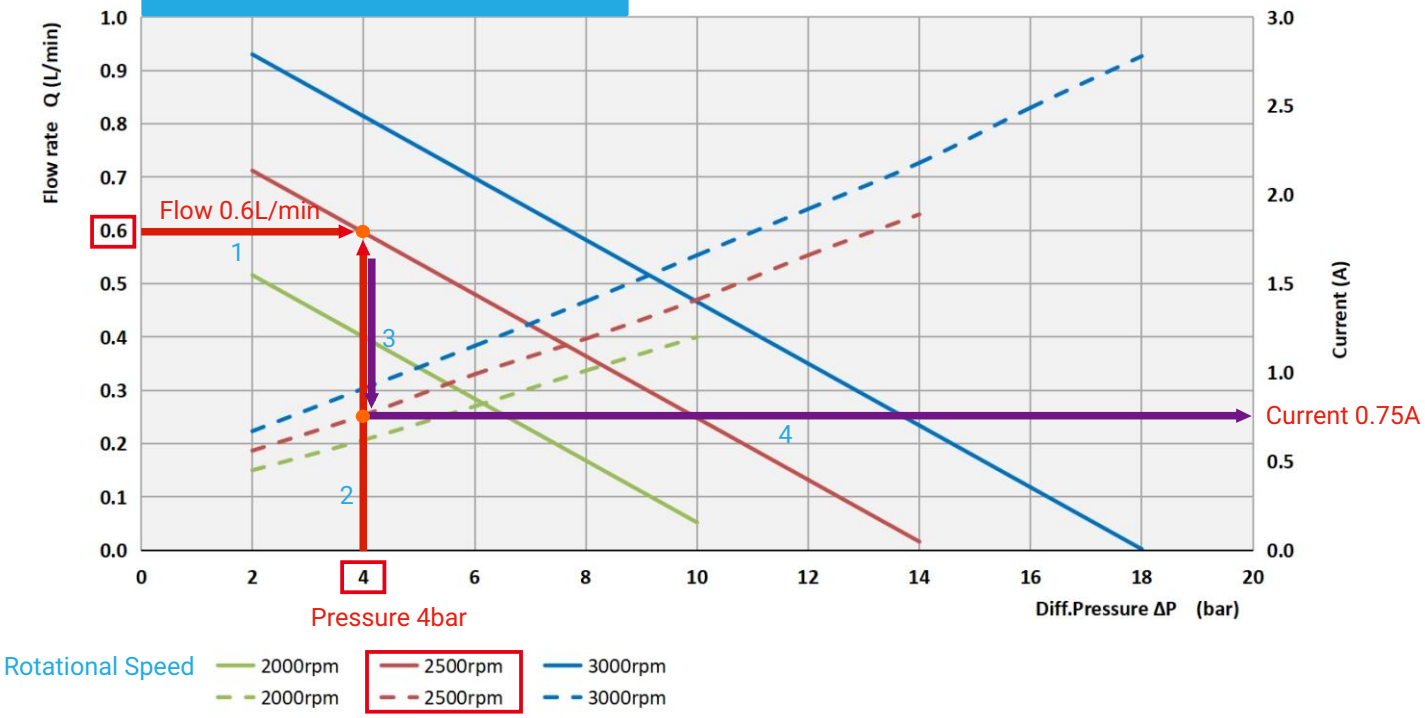
To find the motor speed and calculate the shaft power, locate the flow point at 0.6L/min and the pressure point at 4 bar.

The corresponding red solid line indicates a speed of 2500 rpm.

3 At the pressure point of 4 bar, the corresponding red dashed curve indicates a speed of 2500 rpm.

4 The corresponding current is: 0.75A. The shaft power P = 24V * 0.75A = 18W.

MRA7/13 (24V40W)



BLDC MOTORS

MRA + DC Brushless Motor

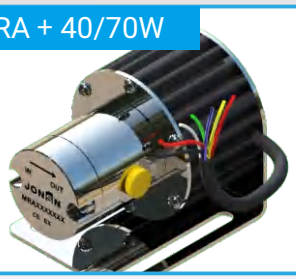
MRA Series Micro Gear Pump & 100ml-2500ml/min.

Capable of handling flow rates from 100ml to 2500ml/min and working pressure differentials from 0.5 to 25 bar.

Viscosity range from 0.4 to 3000 mPa·s (approximately similar to water) under operating conditions, with a pump pressure resistance of 4 Mpa.

JONSN Precision-grade Micro Magnetic Gear Pump can be used for: micro-dosing, addition, lubrication, spraying, dispensing, sampling, inkjet printing, pressurization, circulation, coating, spraying, metering, and other pumping systems for liquids.

MRA + 40/70W

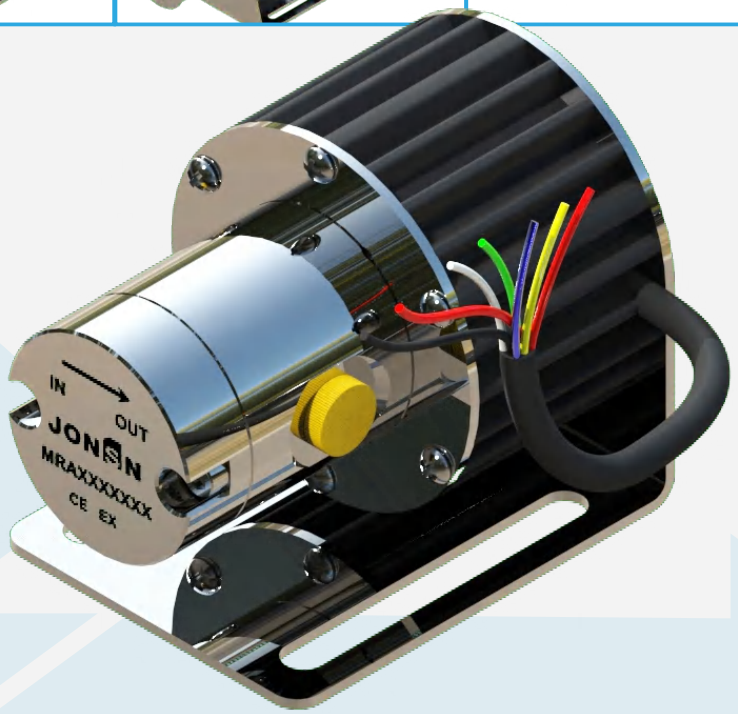


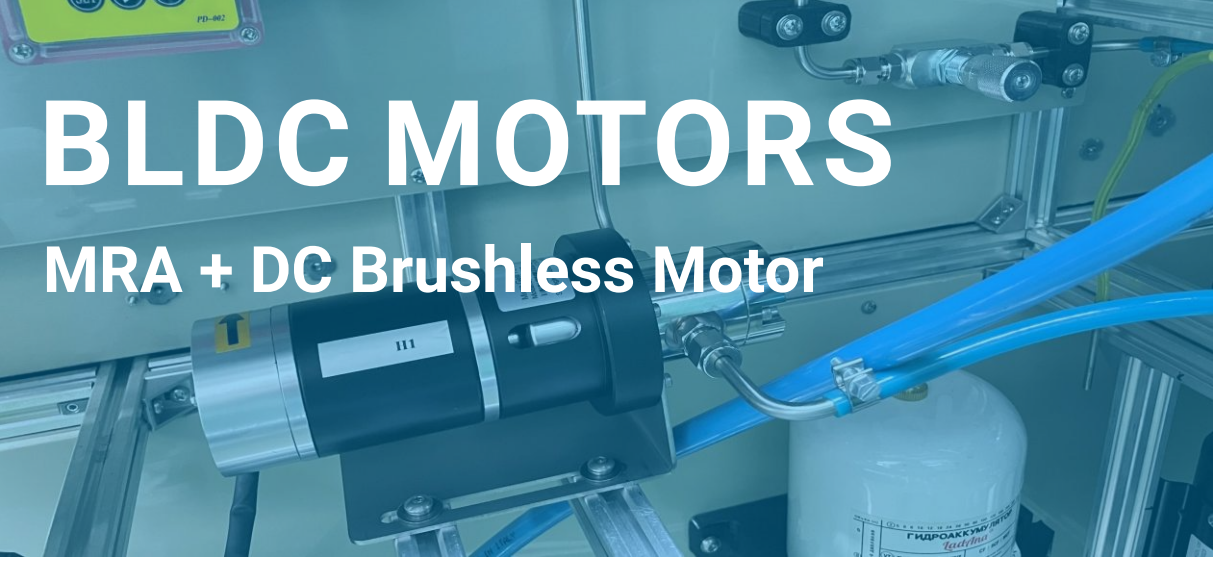
MRA + 100/120W



MRA + 300W



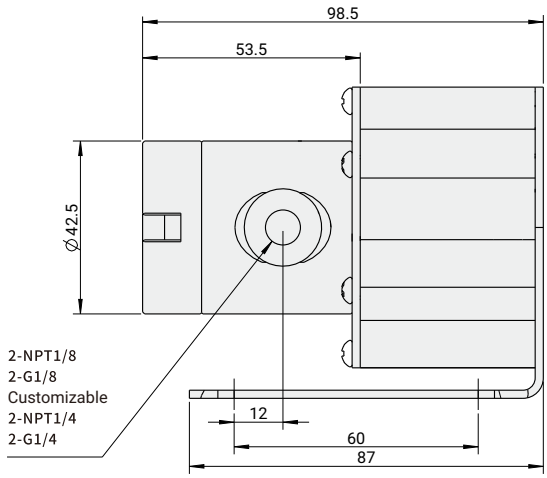


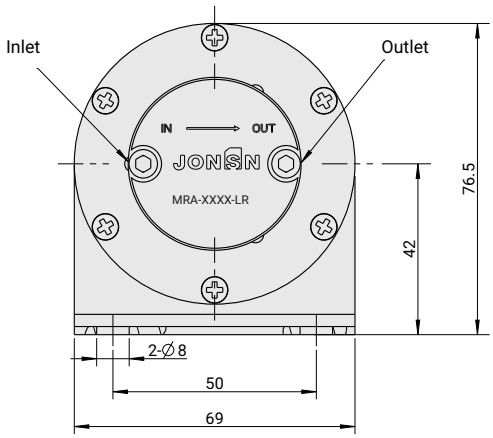


BLDC MOTORS

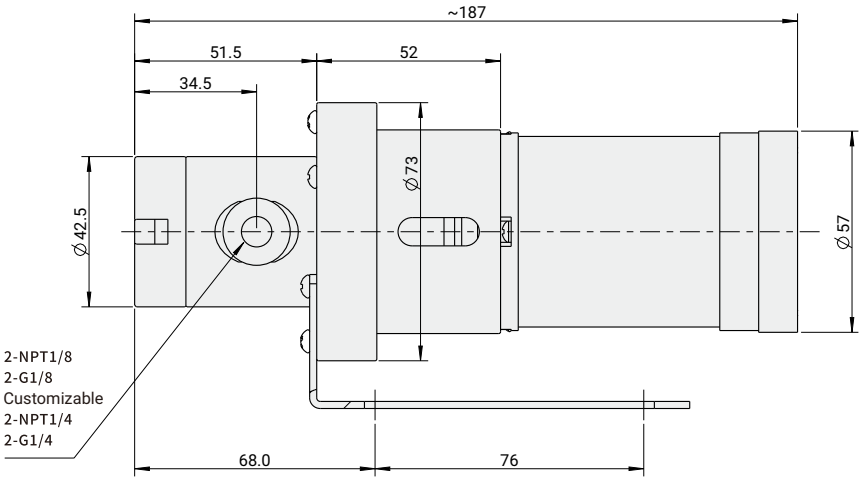
MRA + DC Brushless Motor

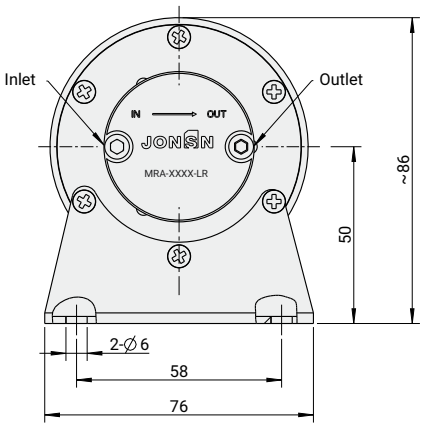
Pump Model	BLDC	
MRA5/13	40w/70w BLDC	Unified Dimensions
MRA7/13		
MRA10/13		
MRA12/13		



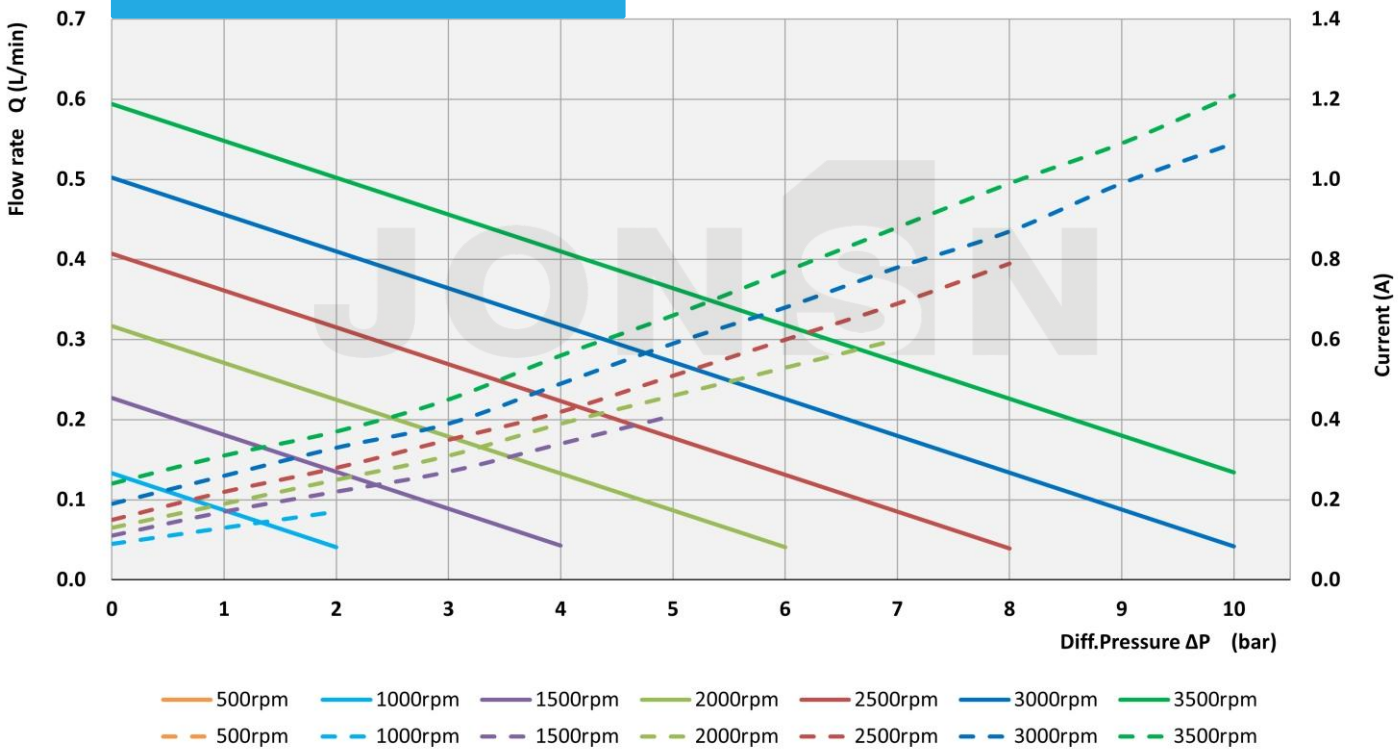


Pump Model	BLDC	
MRA5/13	100w BLDC	Unified Dimensions
MRA7/13		
MRA10/13		
MRA12/13		

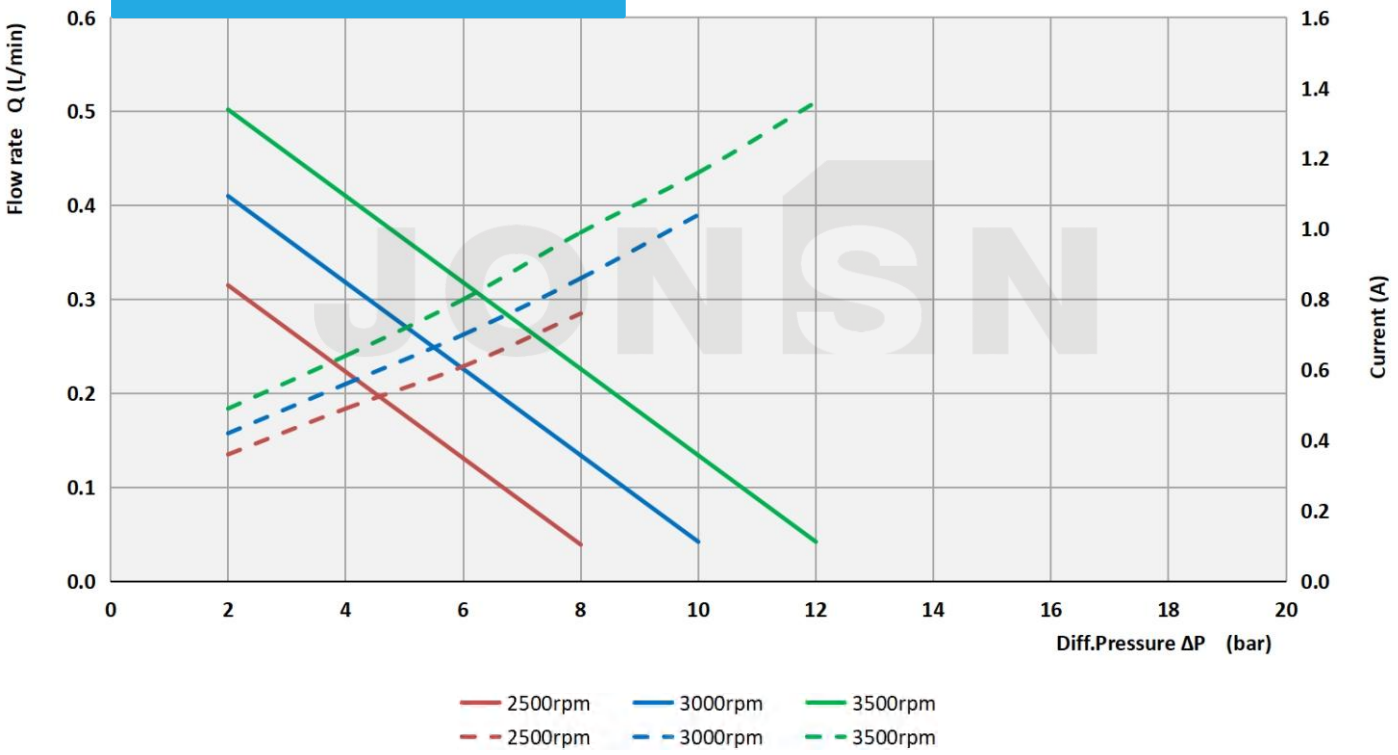




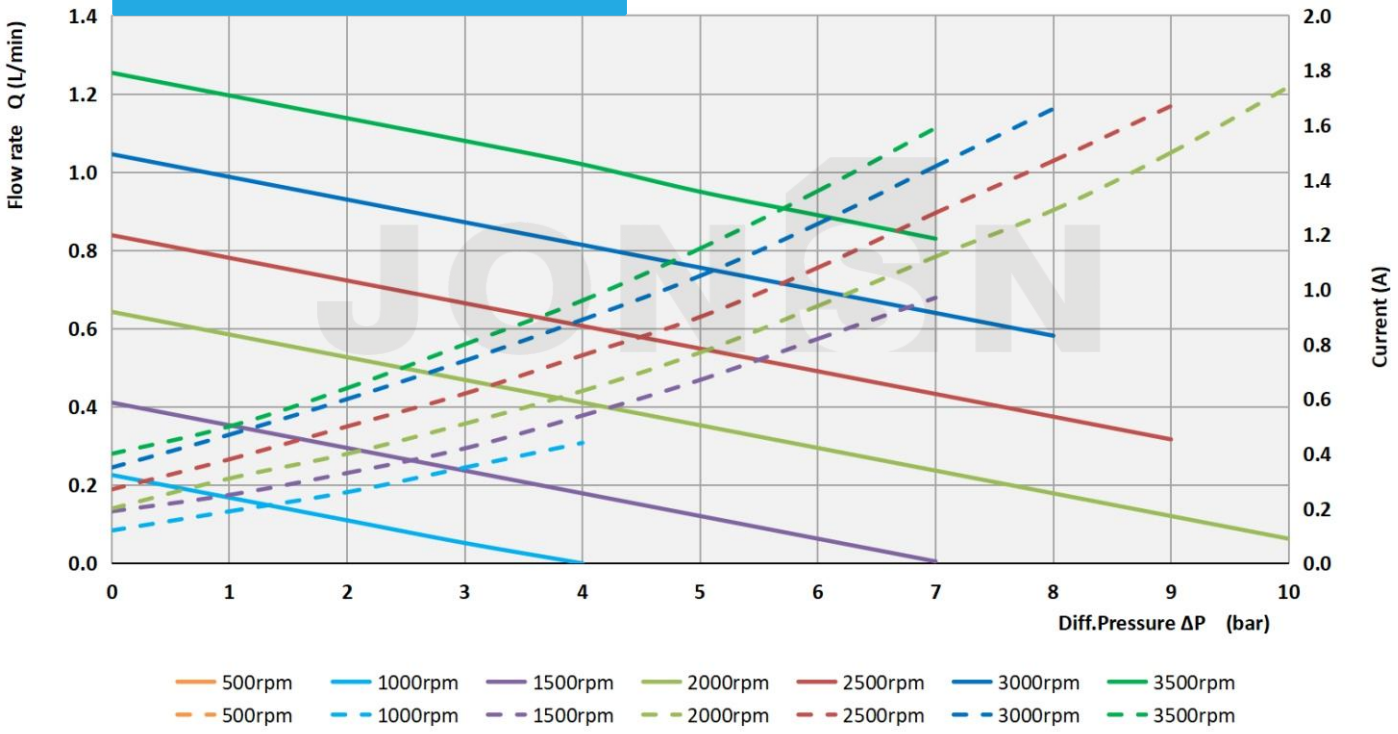
MRA5/13 (24V40W)



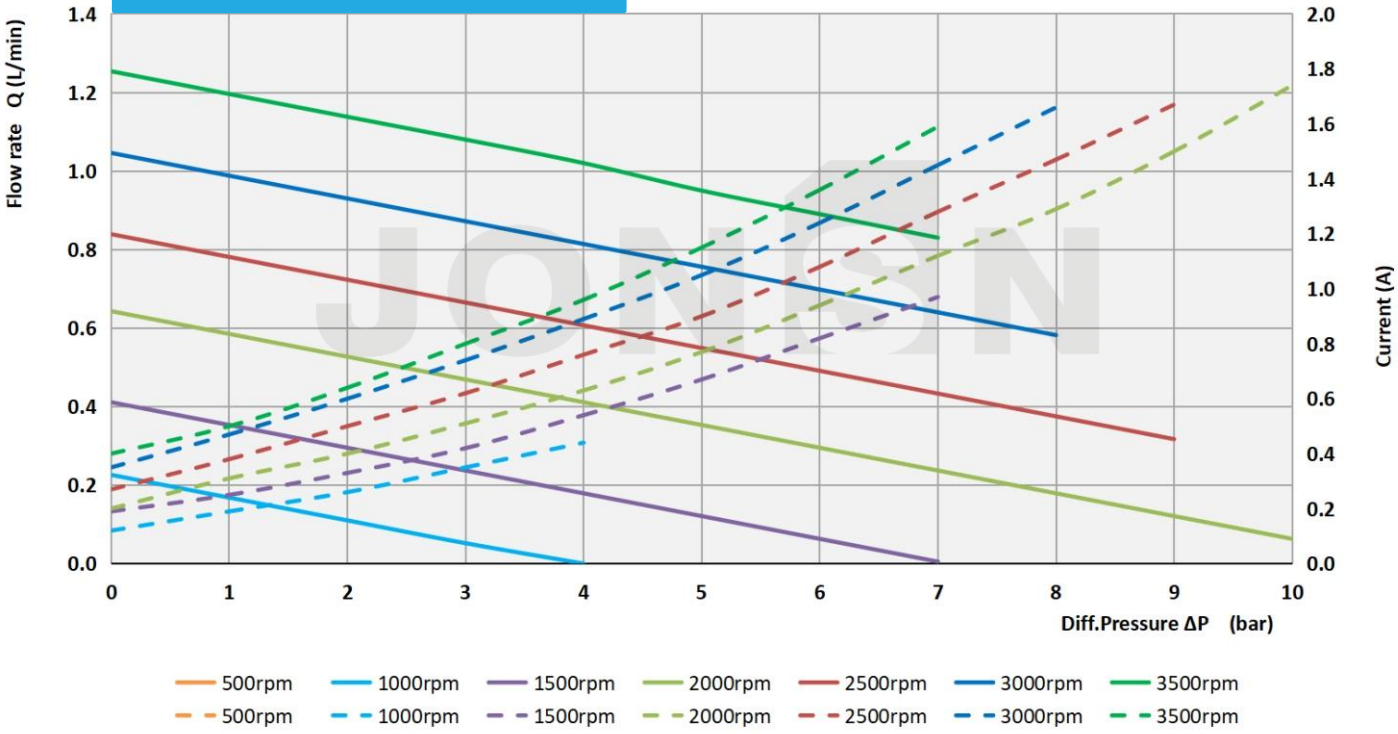
MRA5/13 (24V70W) High Pressure



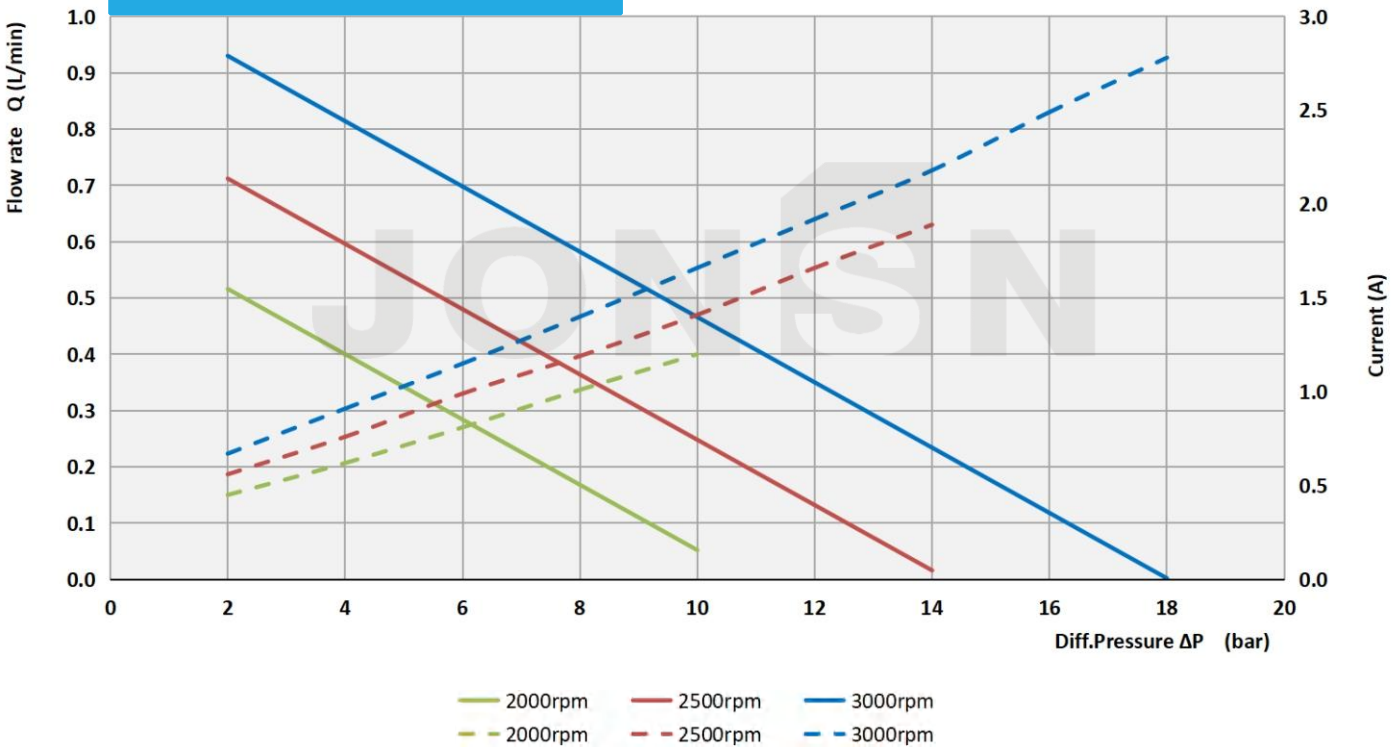
MRA7/13(24V40W)



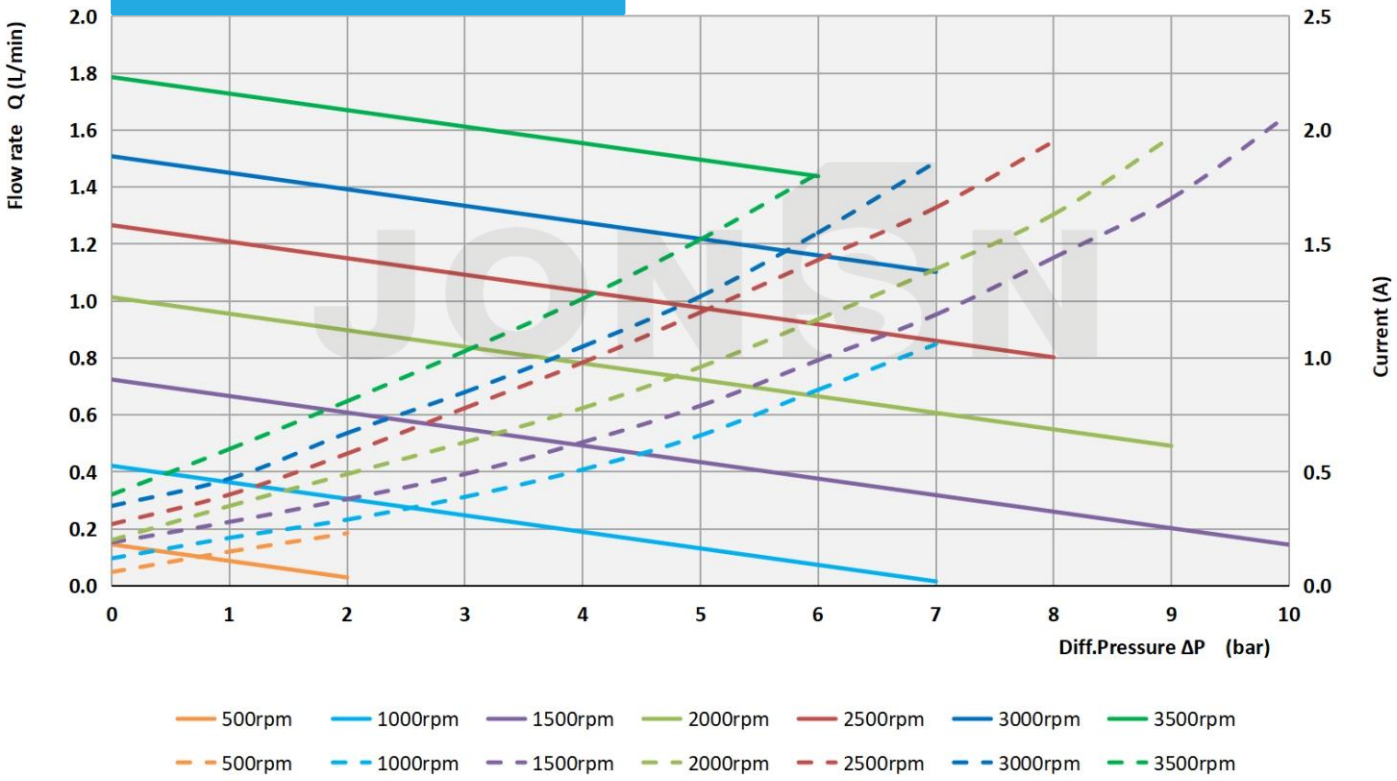
MRA7/13(24V70W)



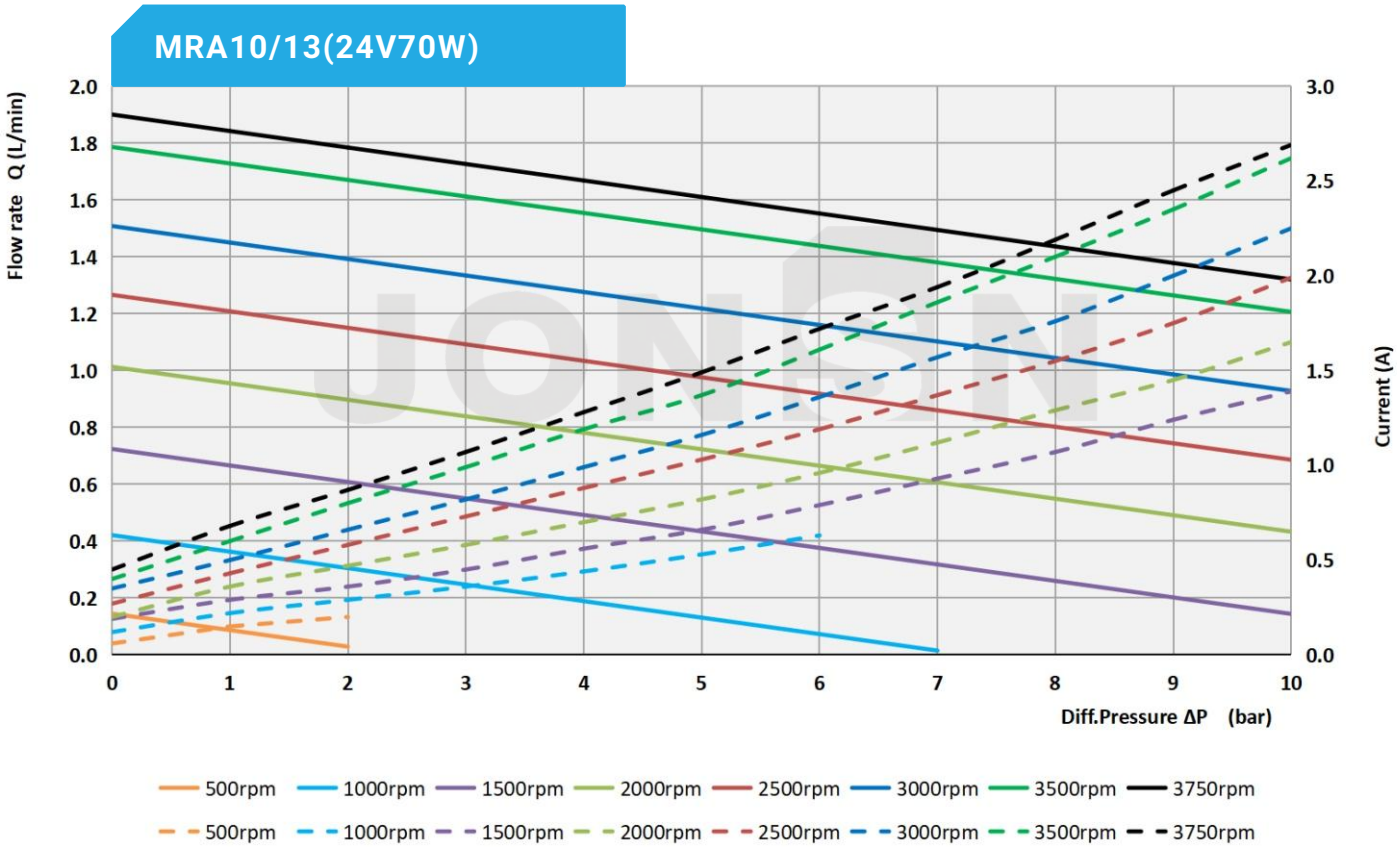
MRA7/13(24V100W) High Pressure



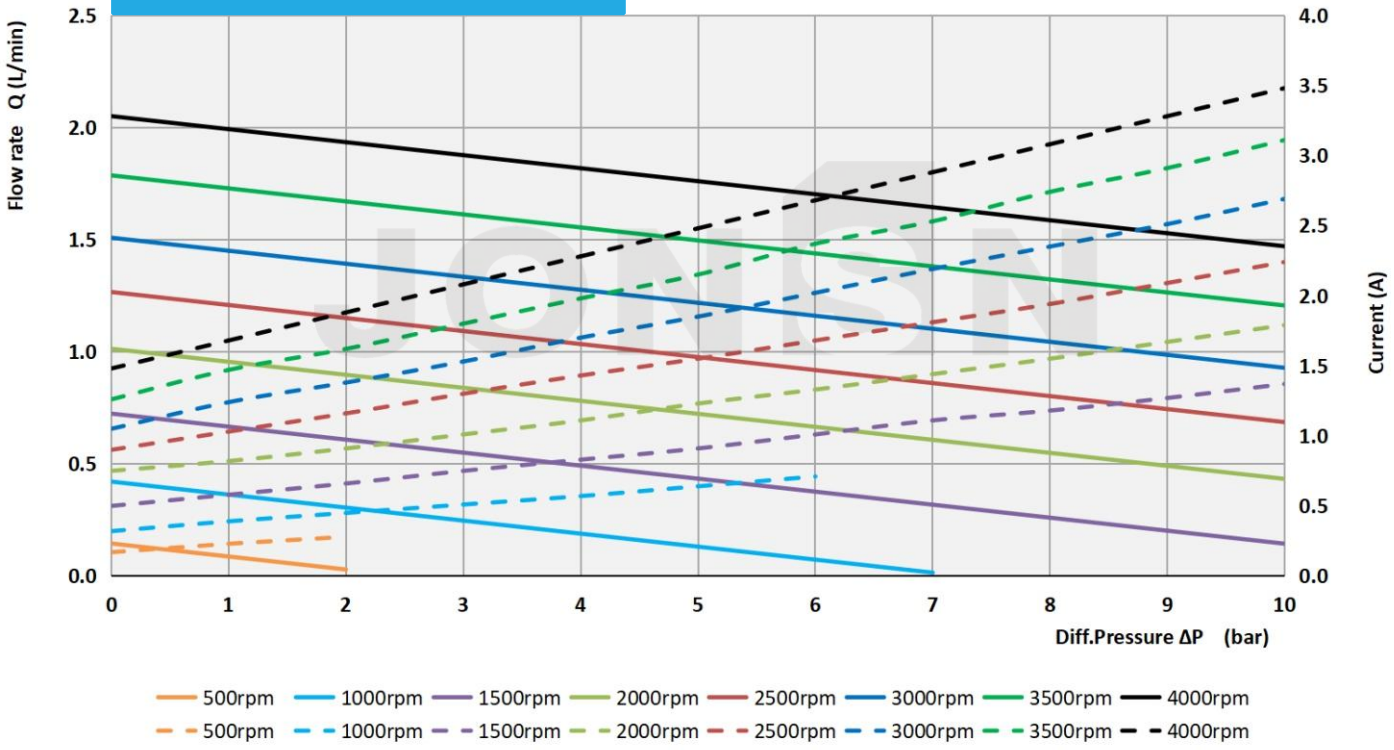
MRA10/13(24V40W)



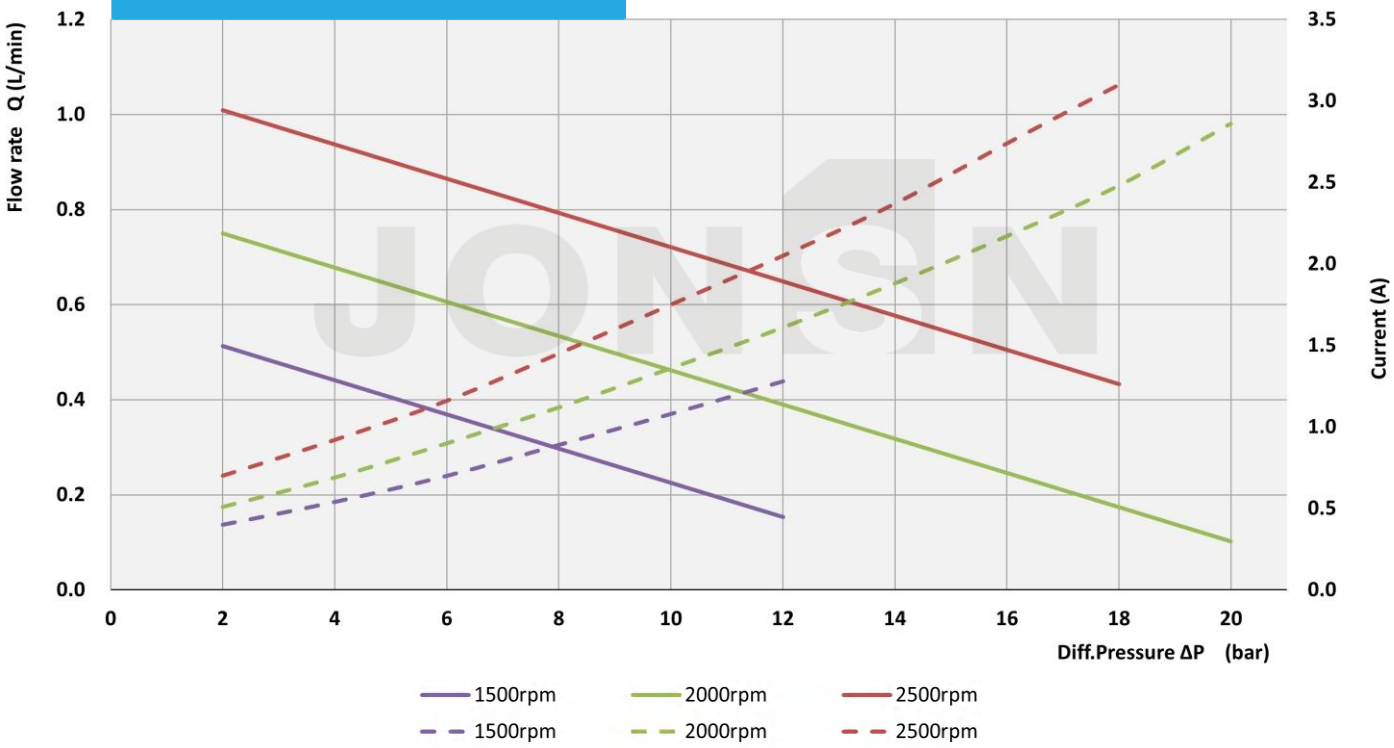
MRA10/13(24V70W)



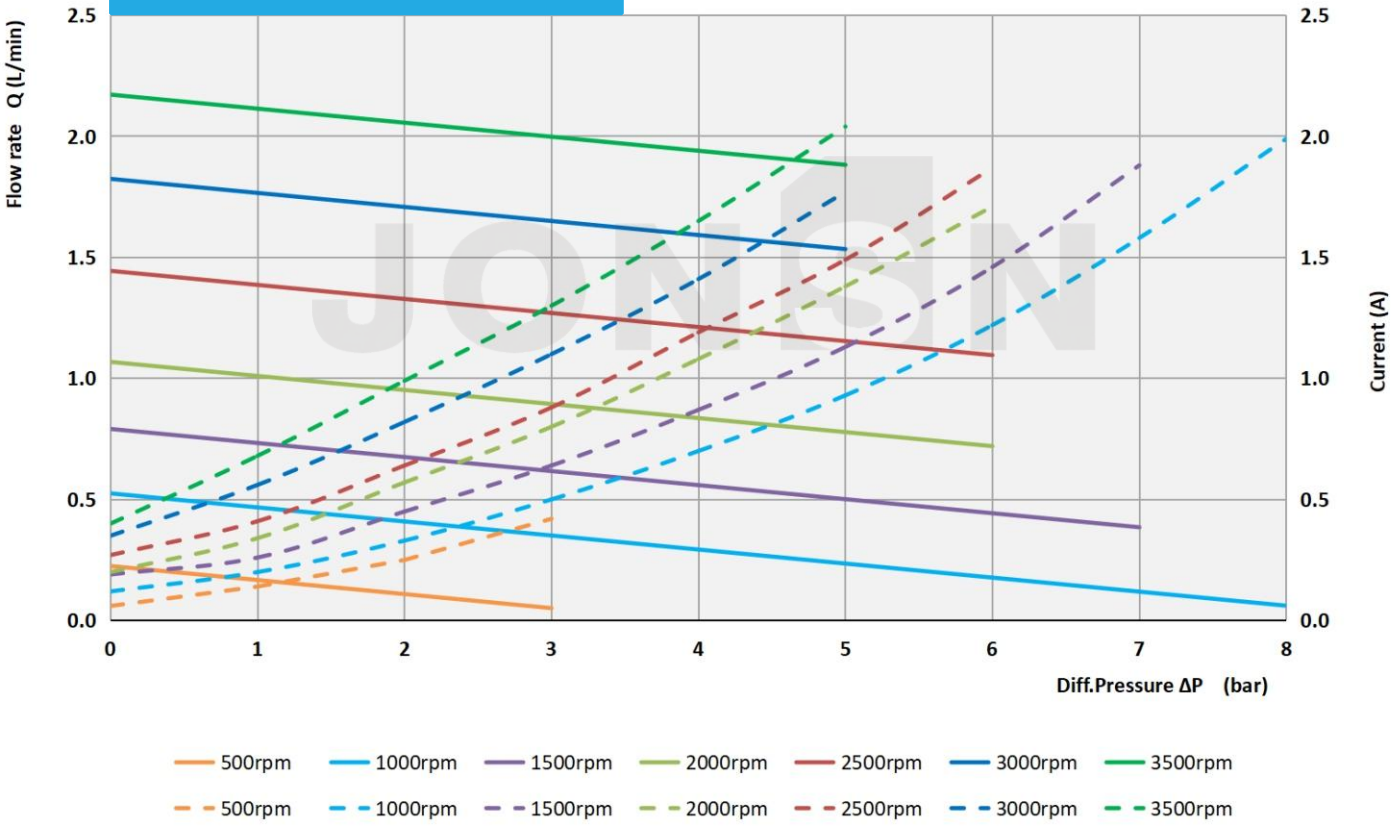
MRA10/13(24V300W)



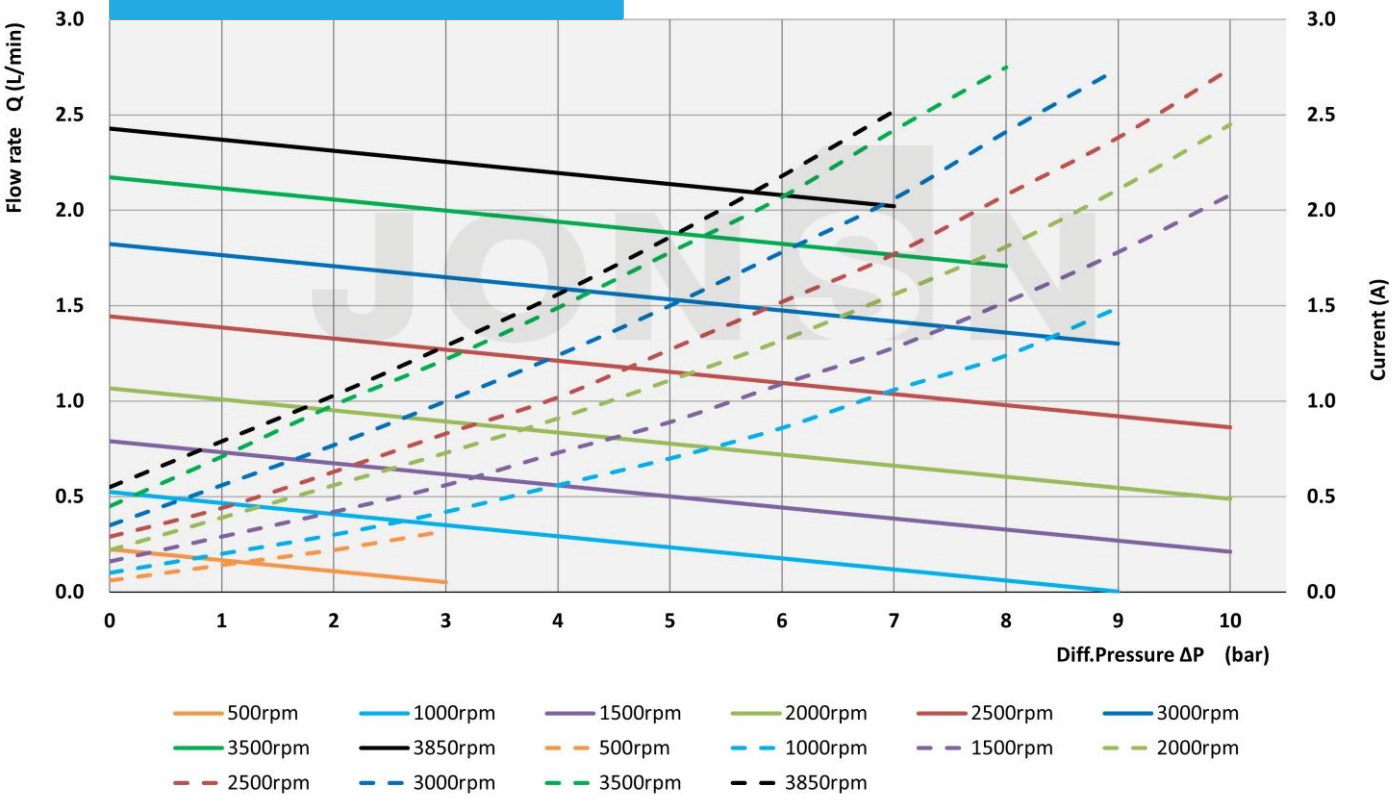
MRA10/13(24V100W) High Pressure



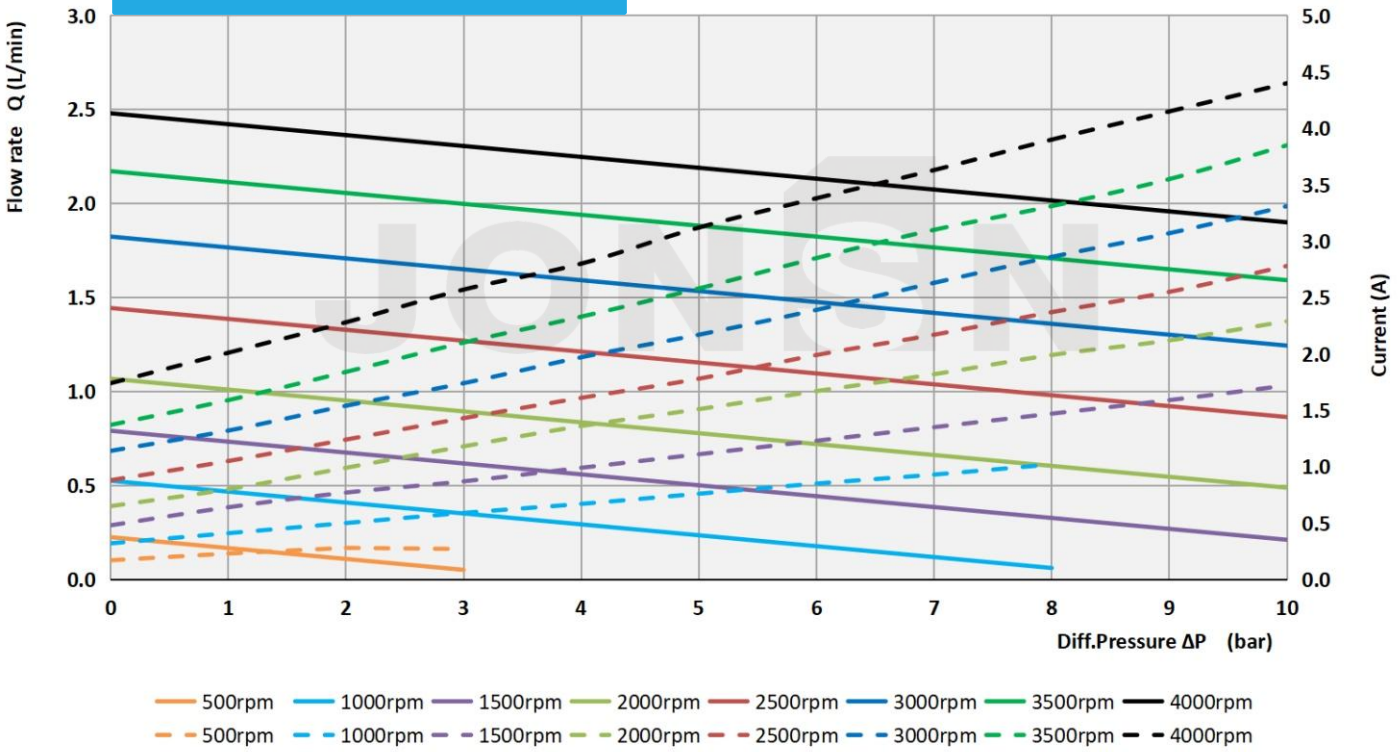
MRA12/13(24V40W)



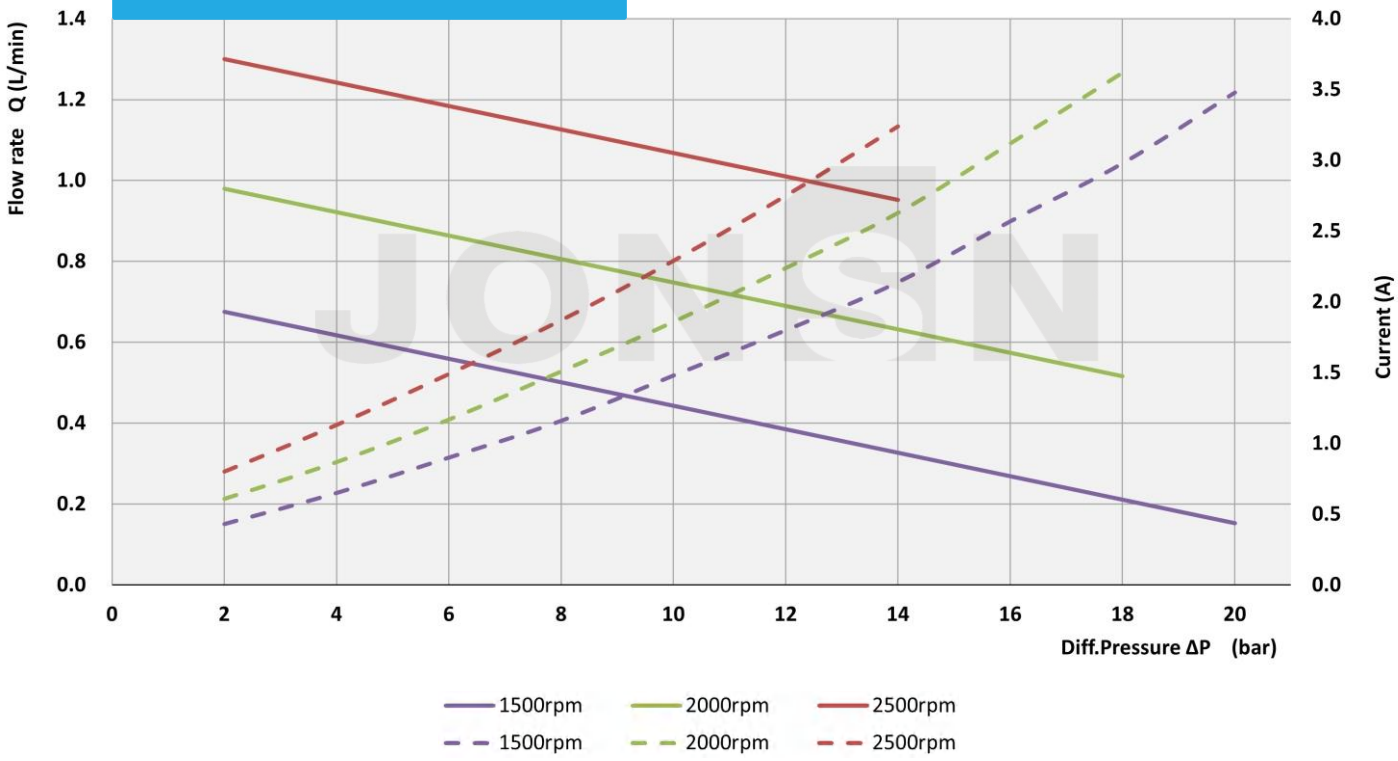
MRA12/13(24V70W)



MRA12/13(24V300W)



MRA12/13(24V100W) High Pressure



BLDC MOTORS

MRB + BLDC MOTORS

MRB Series Micro Gear Pump & 400ml-6000ml/min.

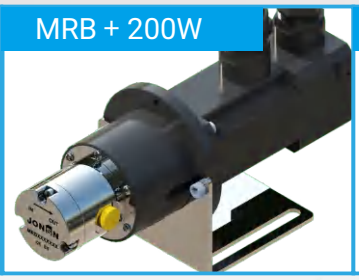
Capable of handling flow rates from 400ml to 6000ml/min, working pressure differentials from 0.5 to 25 bar, and viscosity range from 0.4 to 3000 mPa·s (approximately similar to water) under operating conditions, with a pump pressure resistance of 4 Mpa.

JONSN Precision-grade Micro Magnetic Gear Pump can be used for:
micro-dosing, addition, lubrication, spraying, dispensing, sampling, inkjet printing, pressurization, circulation, coating, spraying, metering, and other pumping systems for liquids.

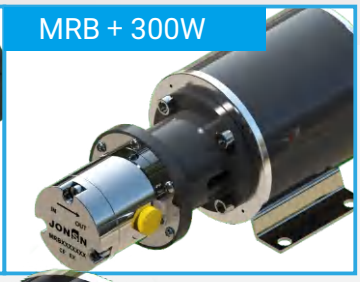
MRB + 100W



MRB + 200W

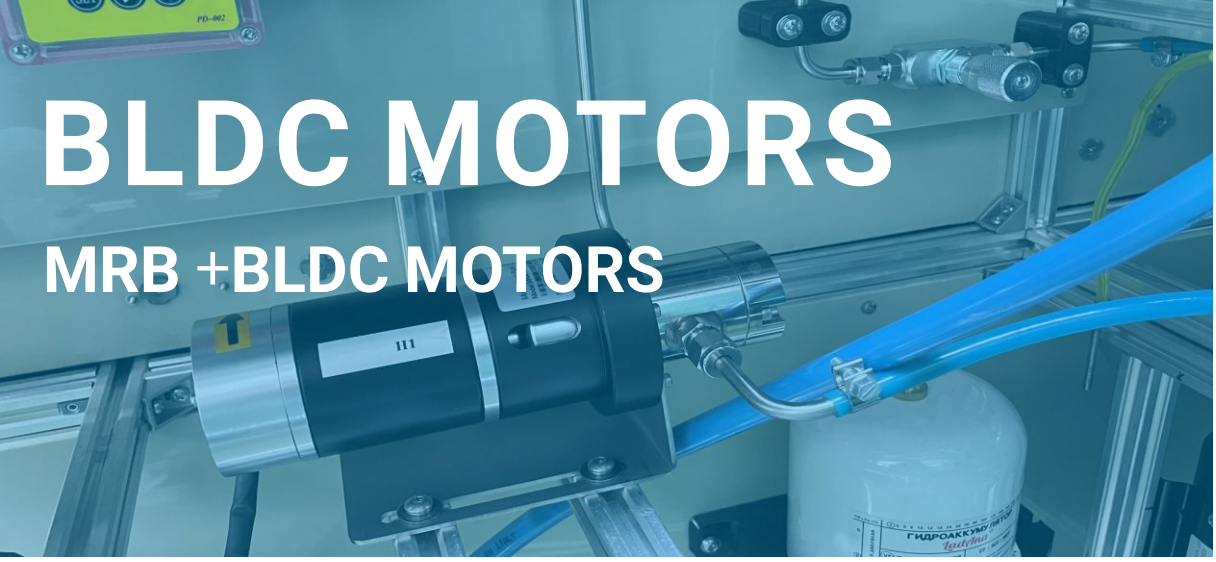


MRB + 300W



MRB + 40/70W

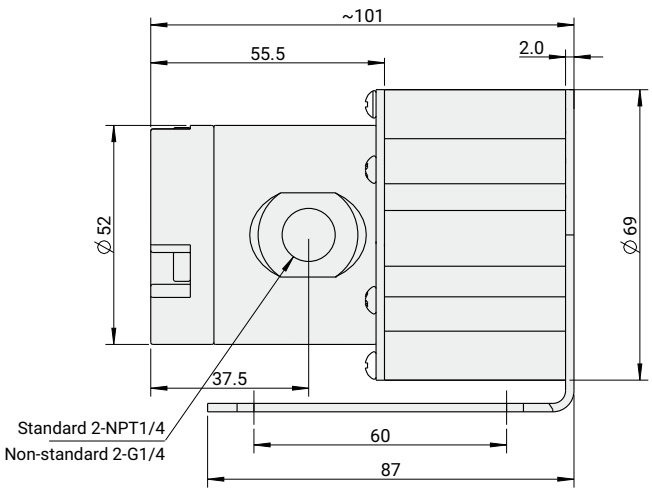


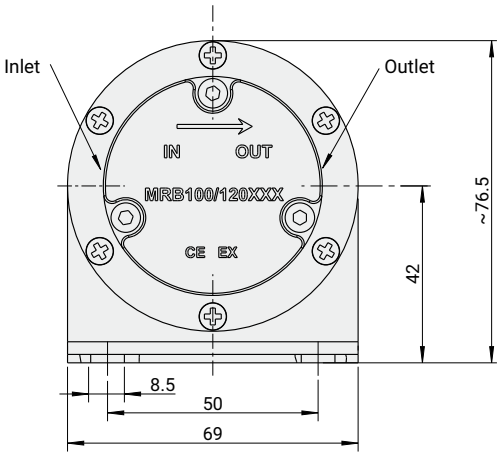


BLDC MOTORS

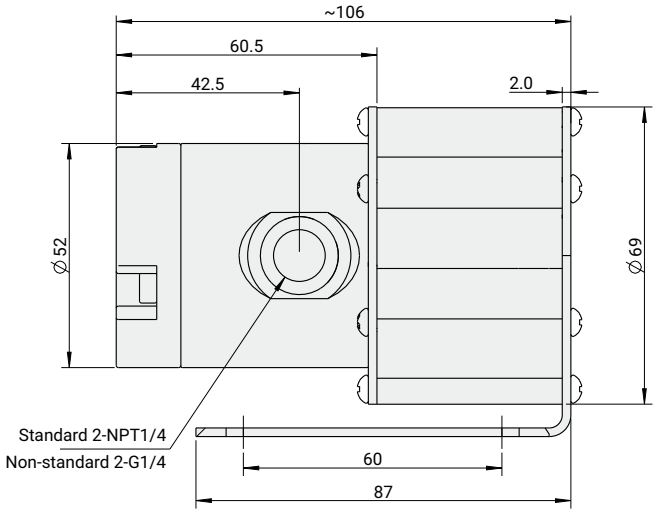
MRB +BLDC MOTORS

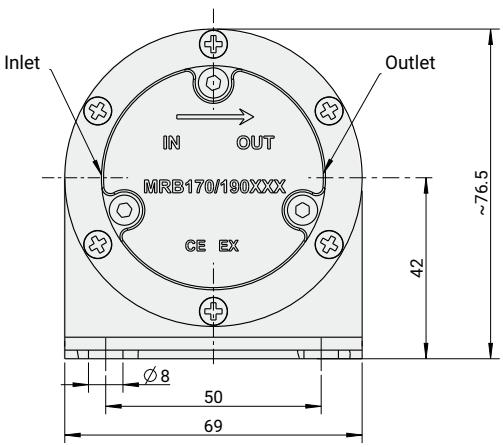
Pump Model	BLDC MOTORS	
MRB10/16	40w/70w BLDC	Unified Dimensions
MRB12/16		

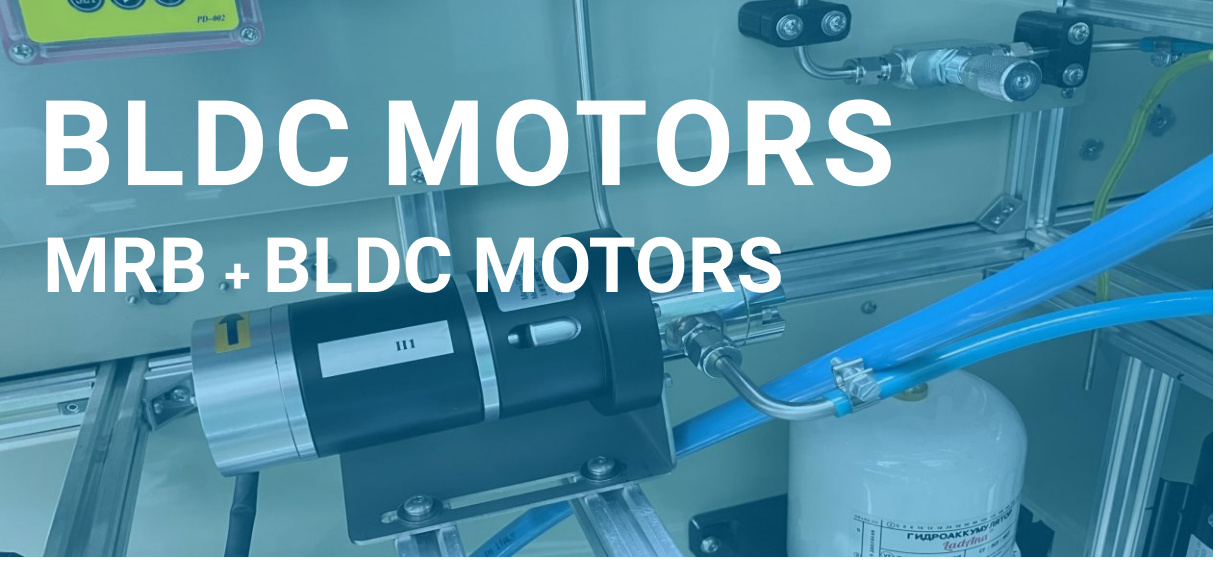




Pump Model	BLDC MOTORS	
MRB17/16	40w/70w BLDC	Unified Dimensions
MRB19/16		



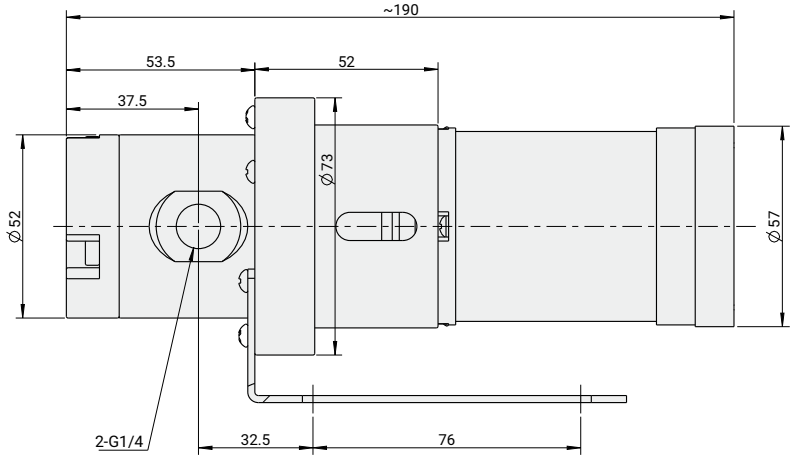


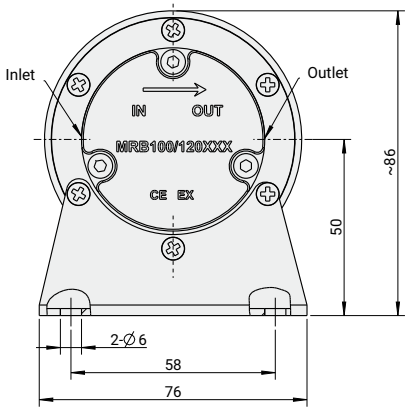


BLDC MOTORS

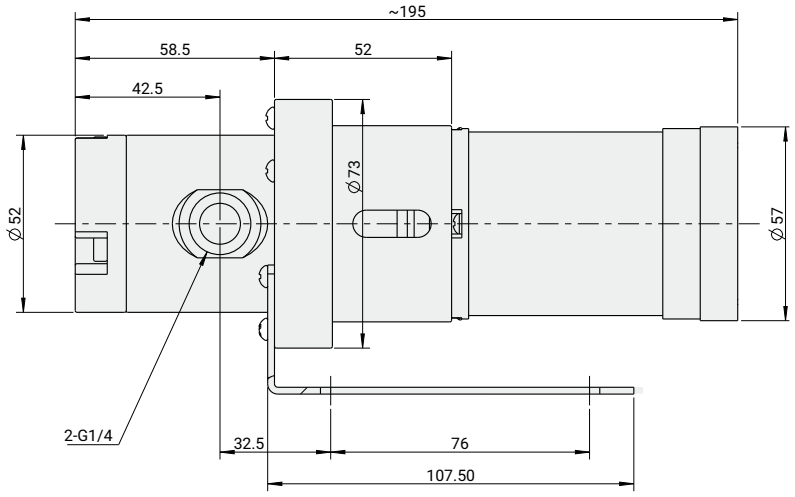
MRB + BLDC MOTORS

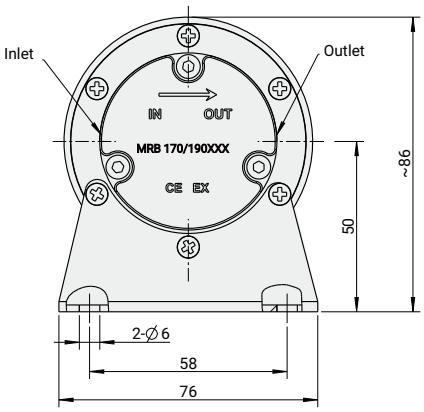
Pump Model	BLDC MOTORS	
MRB10/16	100w BLDC	Unified Dimensions
MRB12/16		

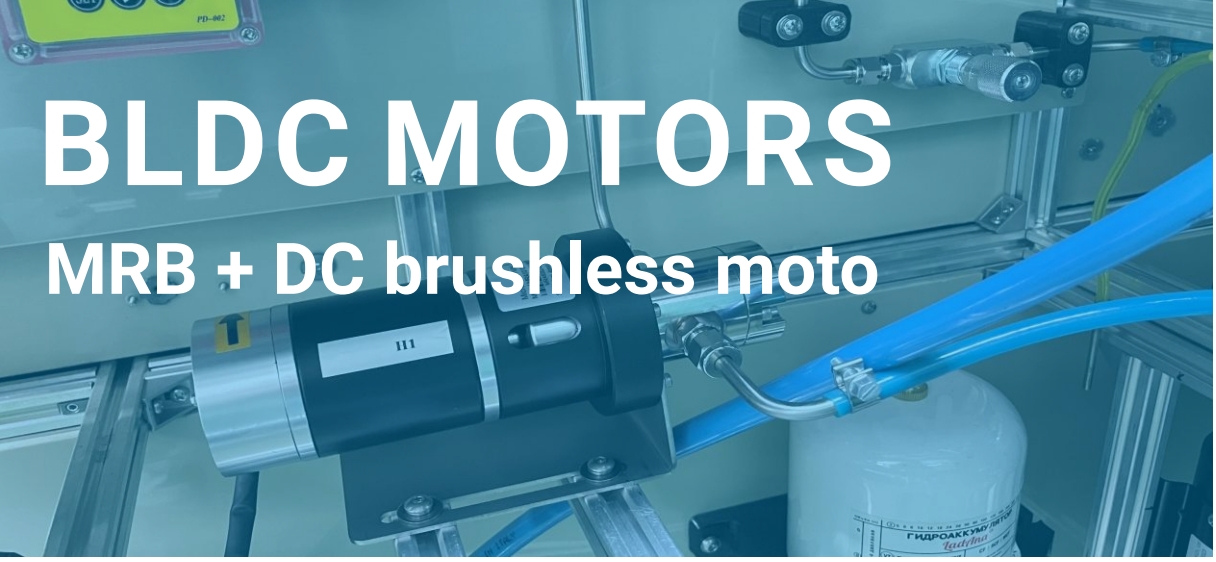




Pump Model	BLDC MOTORS	
MRB17/16	100w BLDC	Unified Dimensions
MRB19/16		



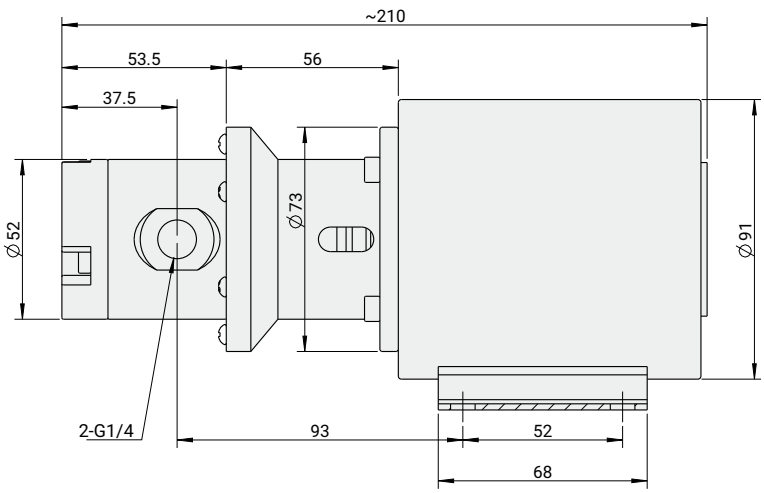


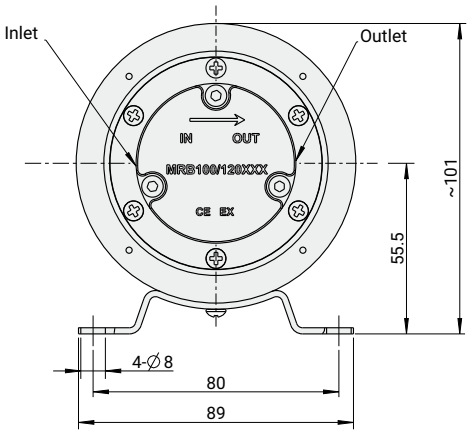


BLDC MOTORS

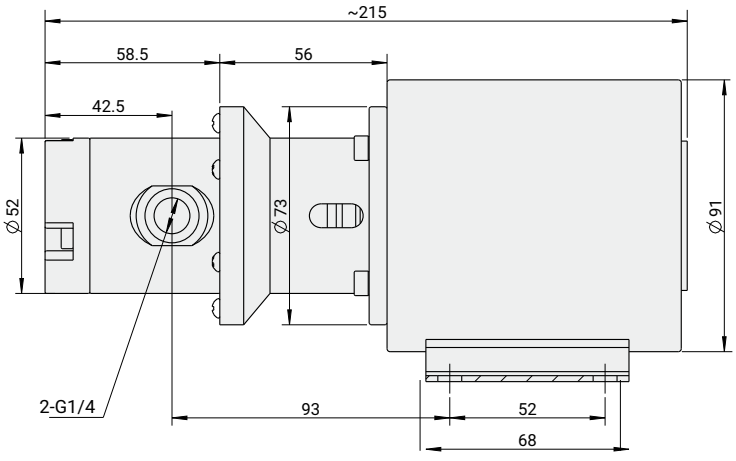
MRB + DC brushless moto

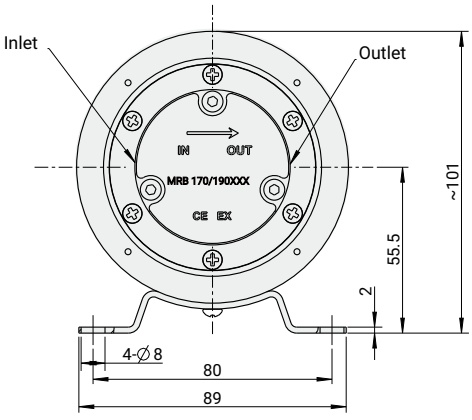
Pump Model	BLDC MOTORS	
MRB10/16 MRB12/16	200w/300w BLDC	Unified Dimensions



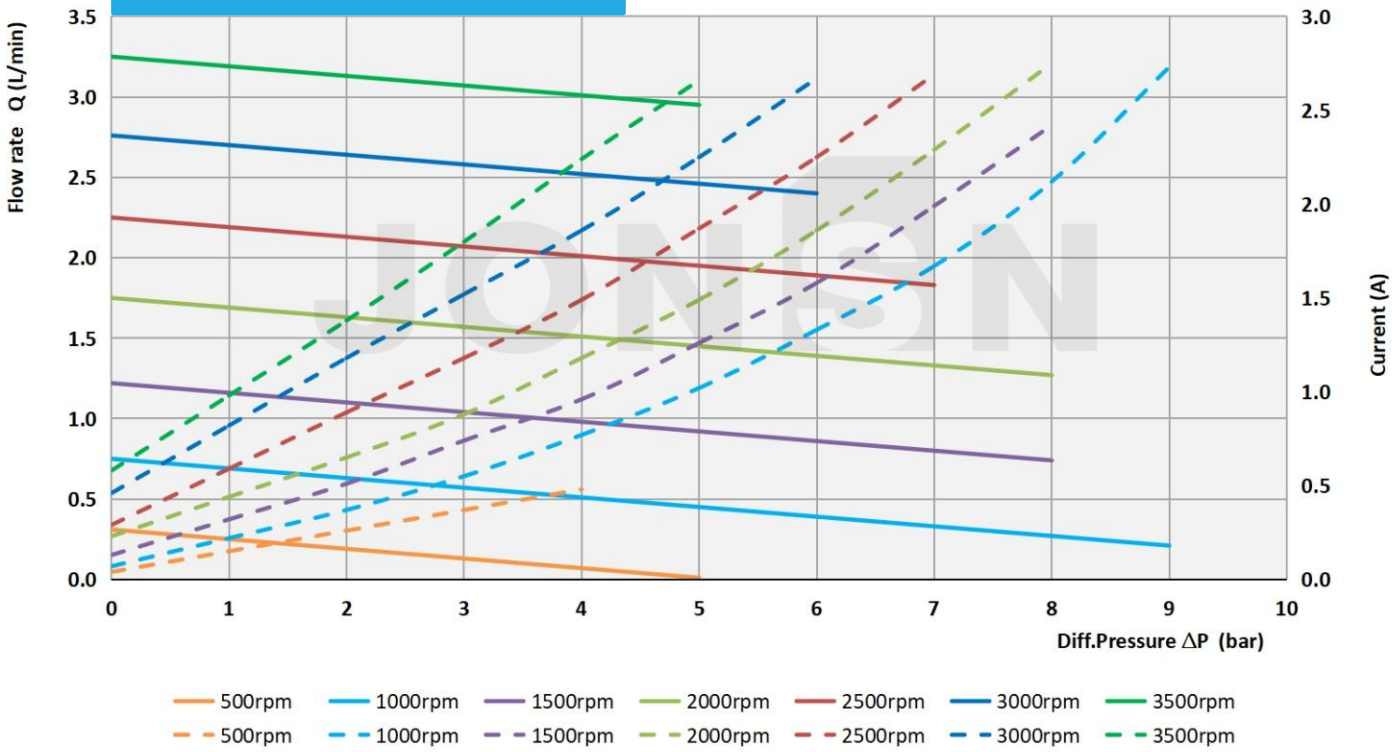


Pump Model	BLDC MOTORS	
MRB17/16 MRB19/16	200w/300w BLDC	Unified Dimensions

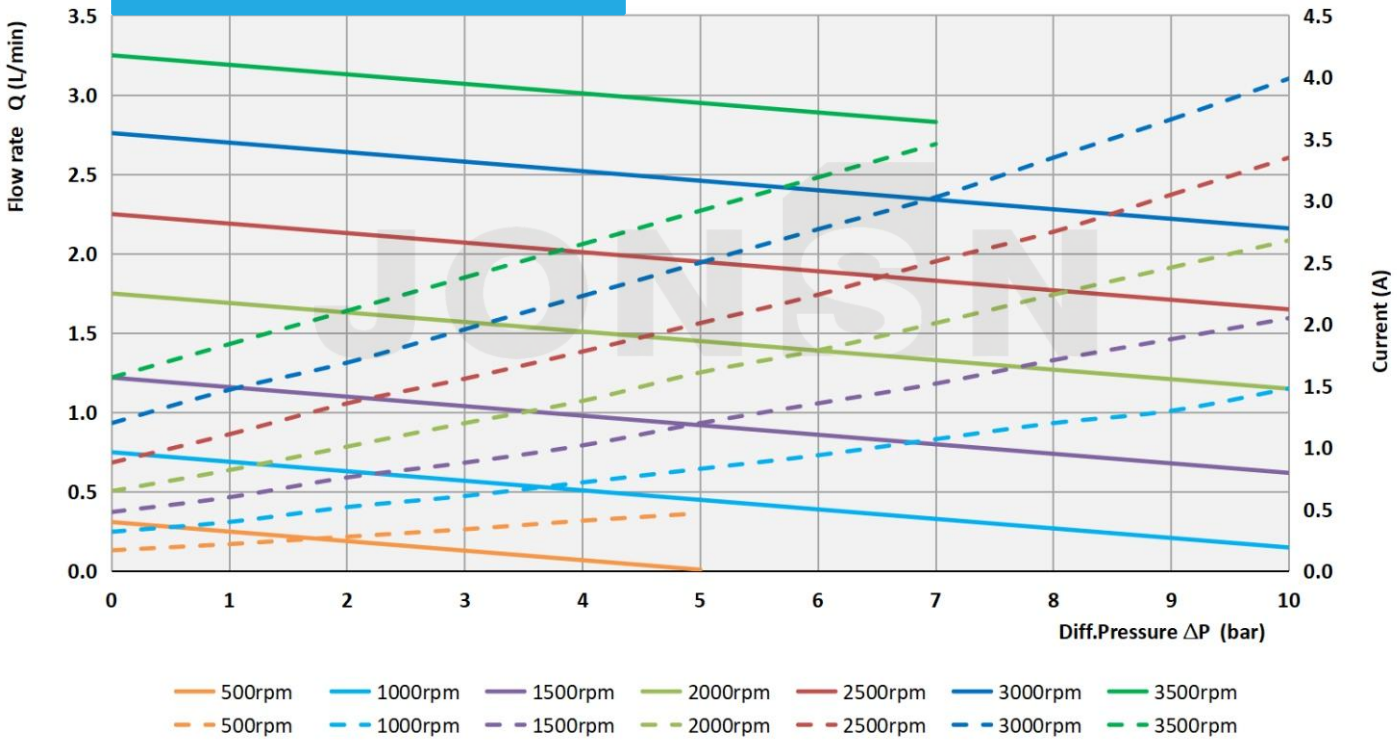




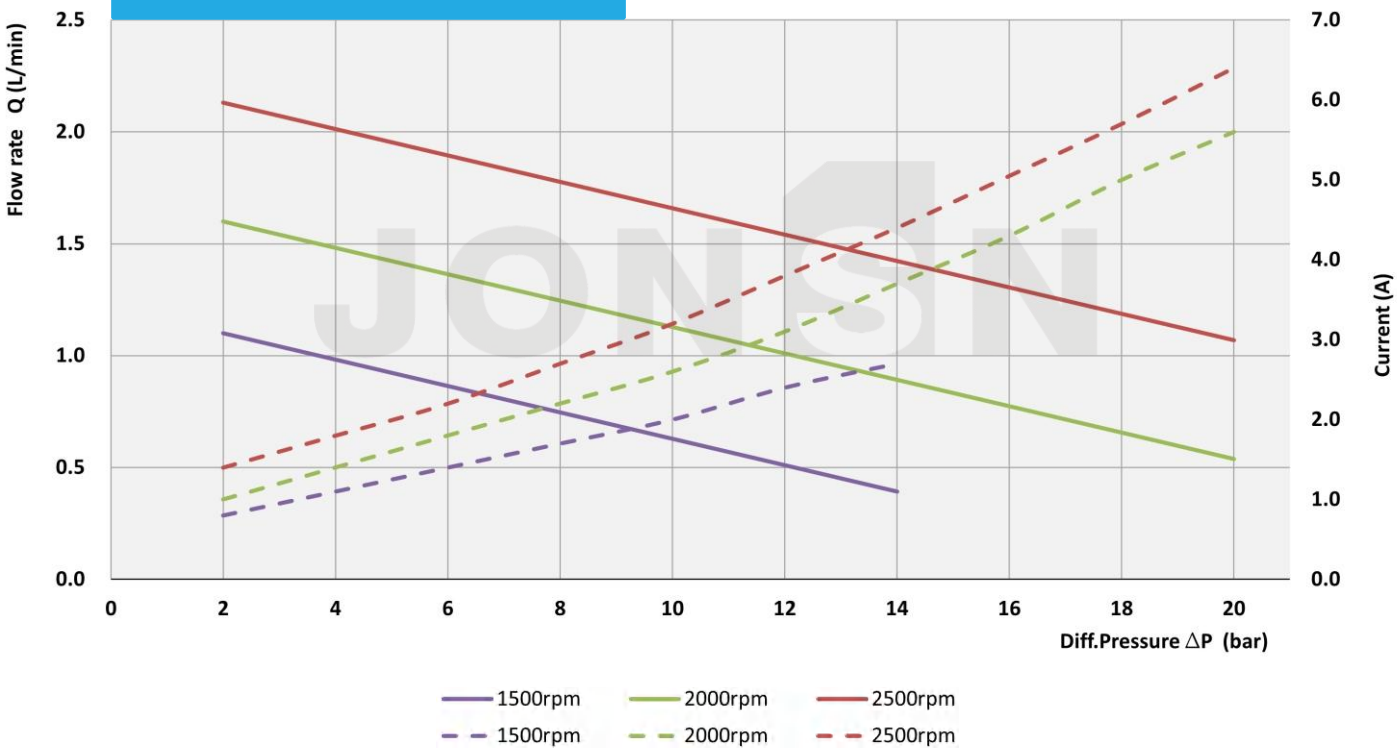
MRB10/16(24V70W)



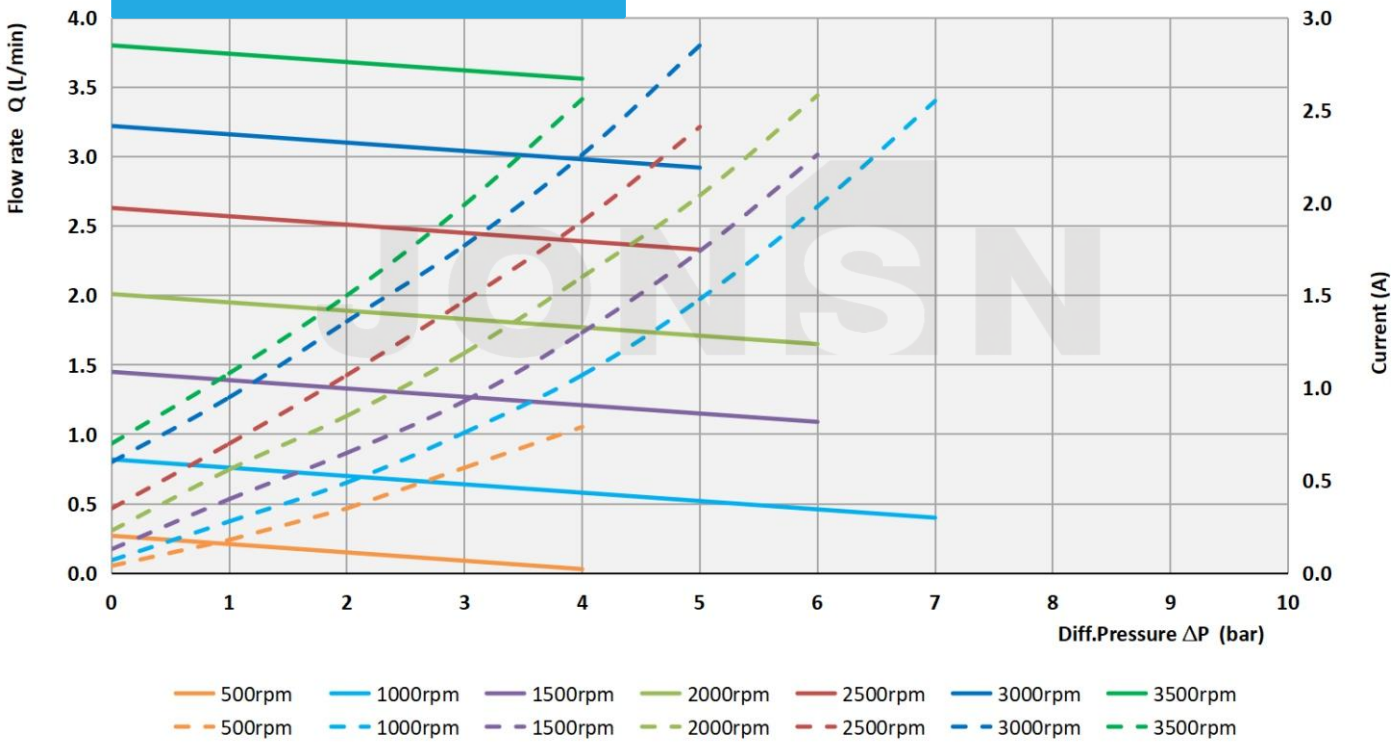
MRB10/16(24V300W)



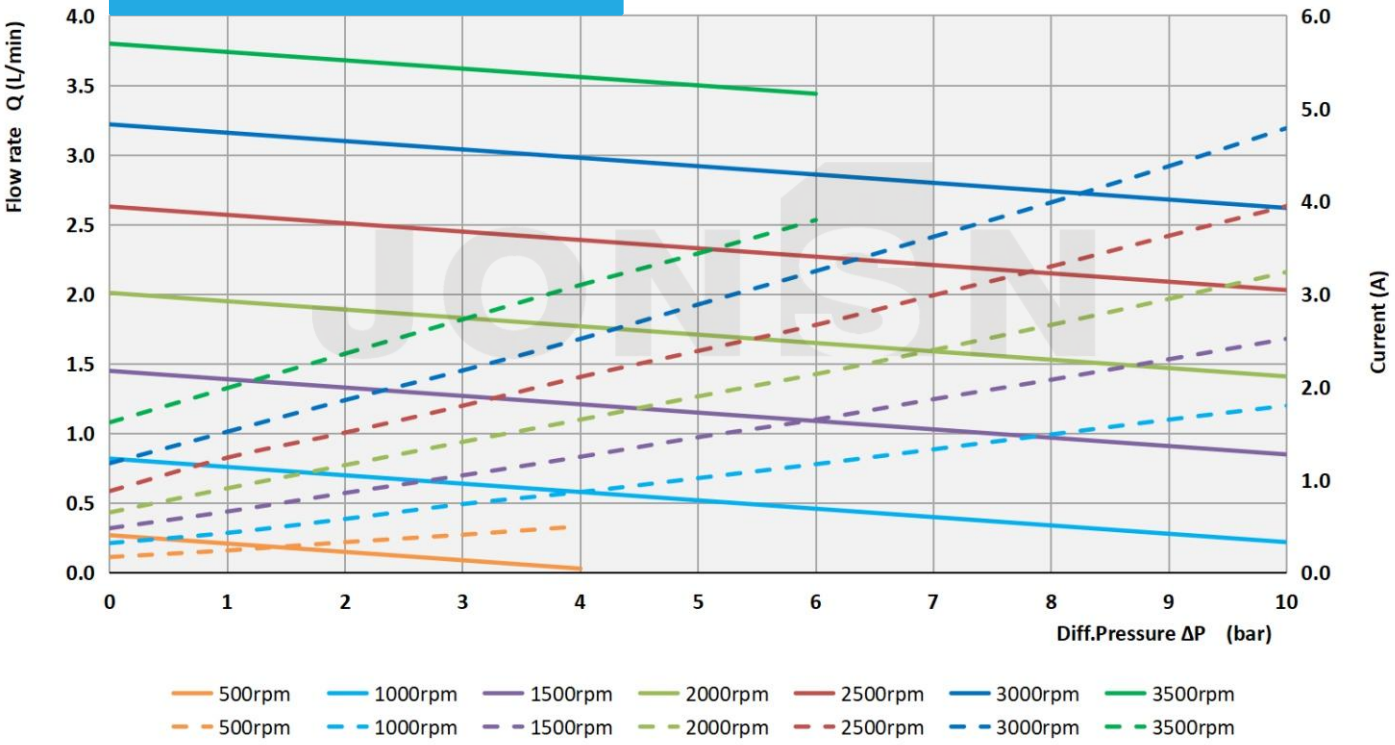
MRB10/16(24V300W) High Pressure



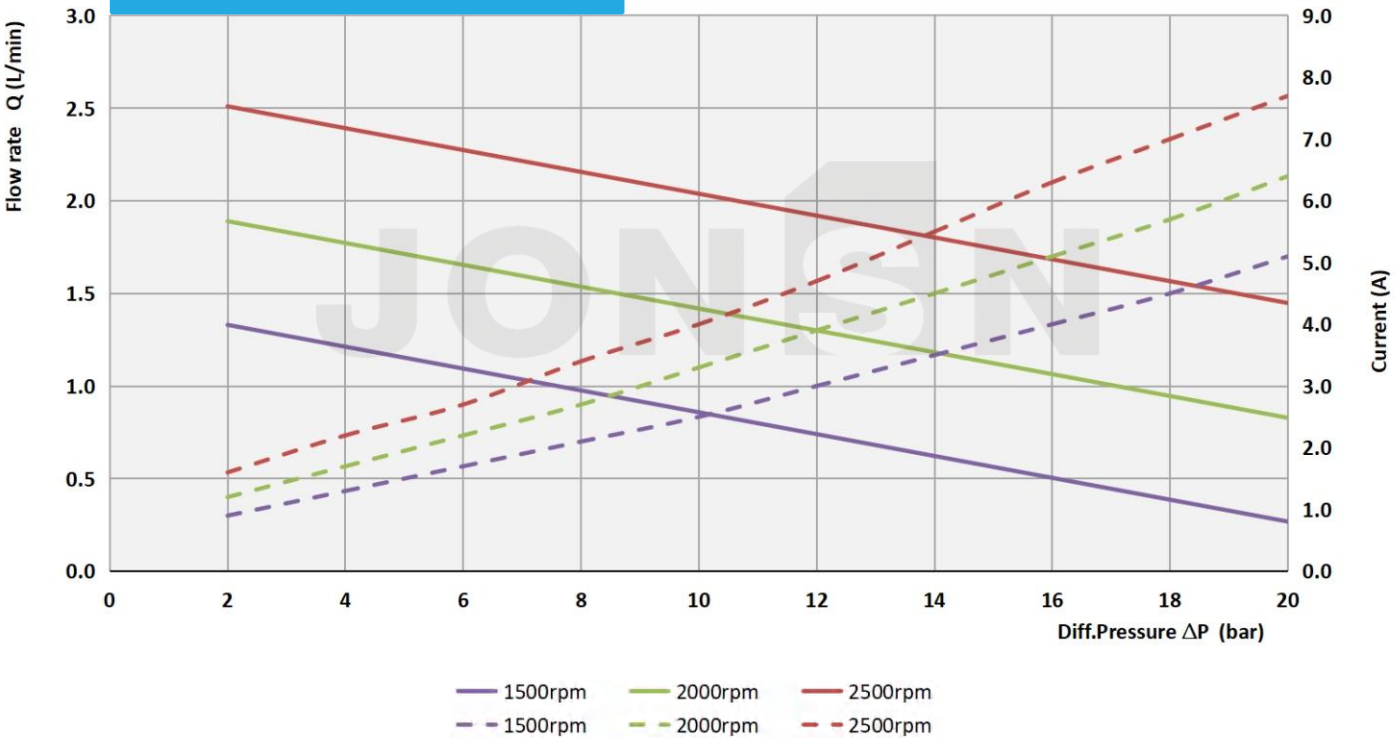
MRB12/16(24V70W)



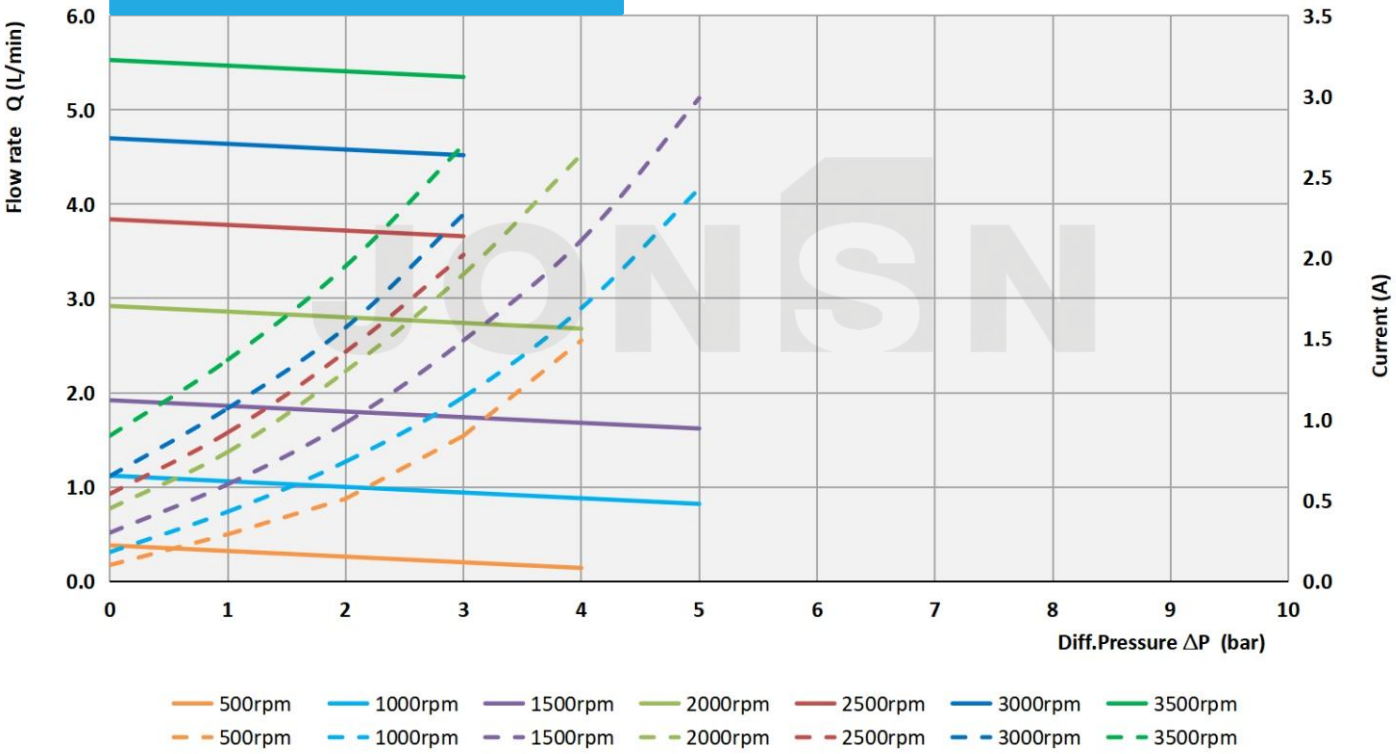
MRB12/16(24V300W)



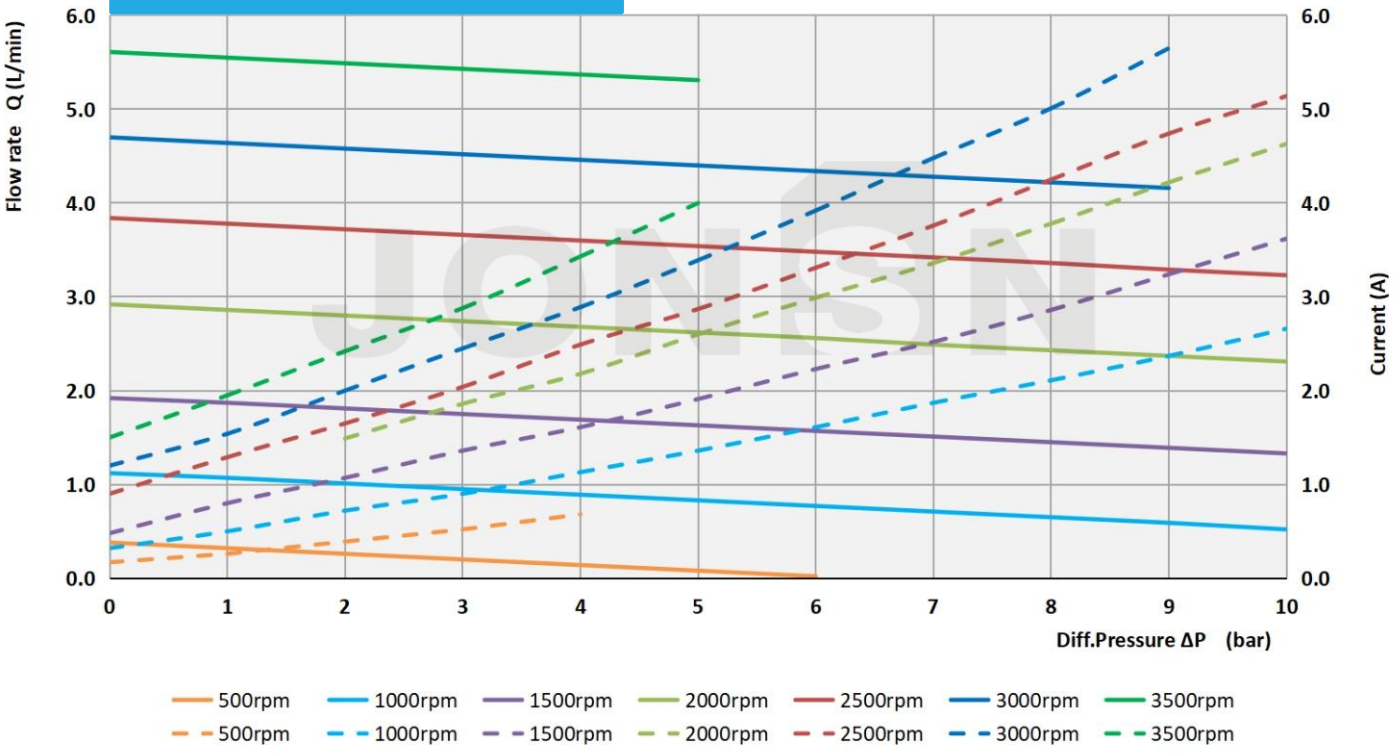
MRB12/16(24V300W) High Pressure



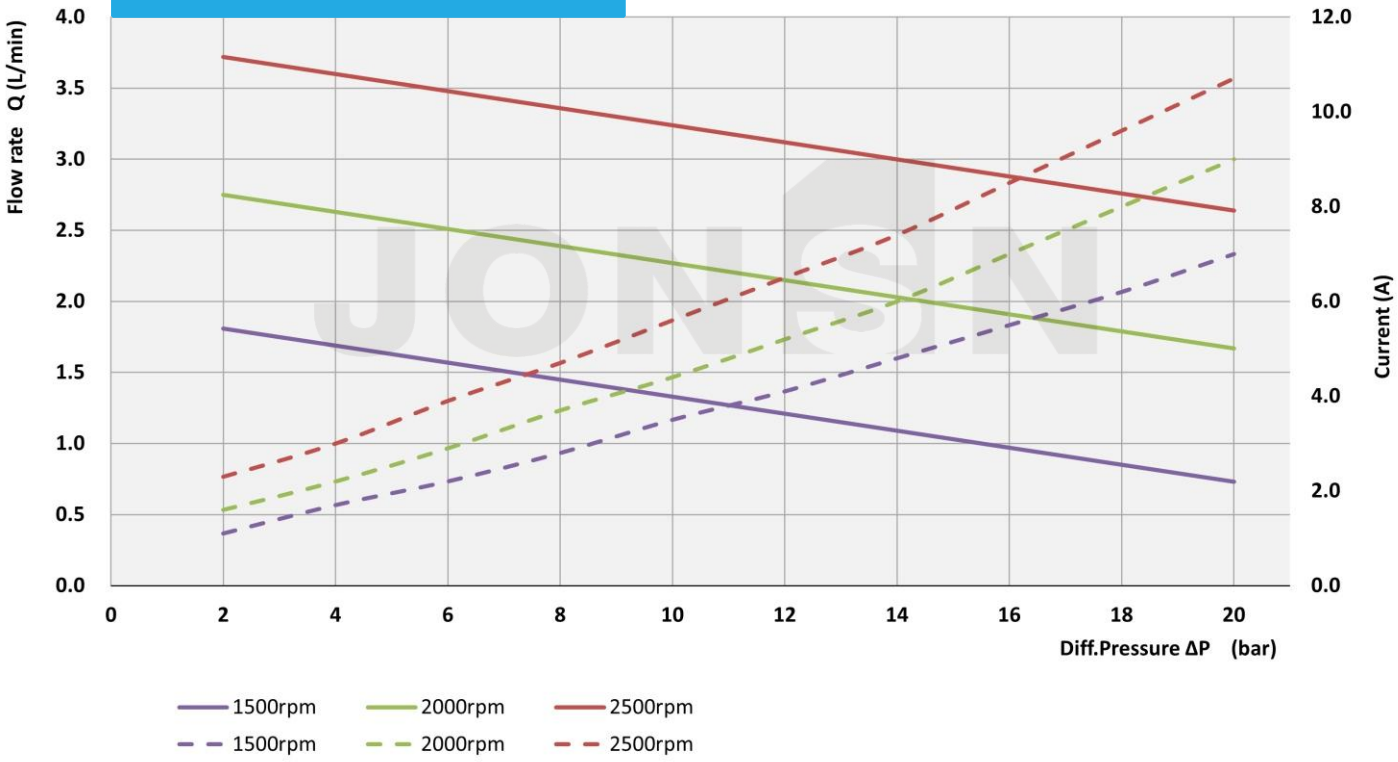
MRB17/16(24V70W)



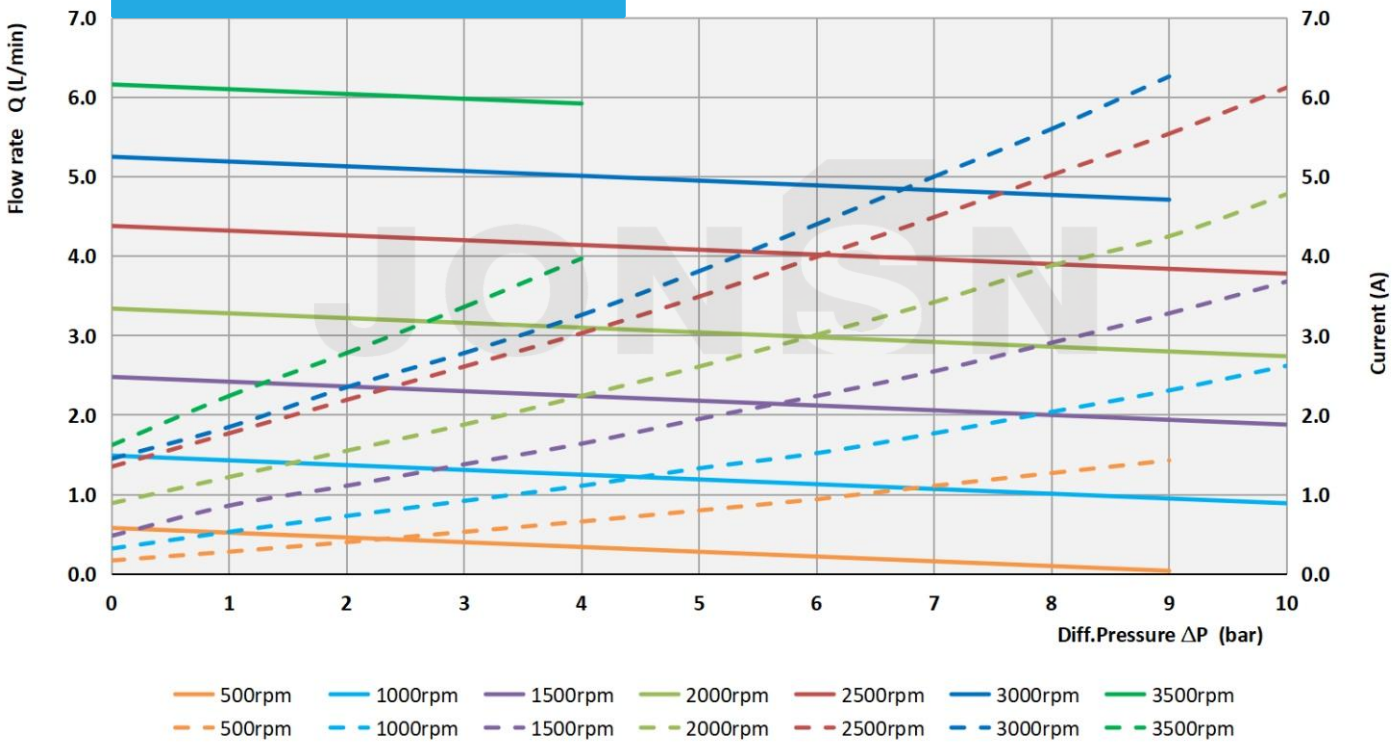
MRB17/16(24V300W)



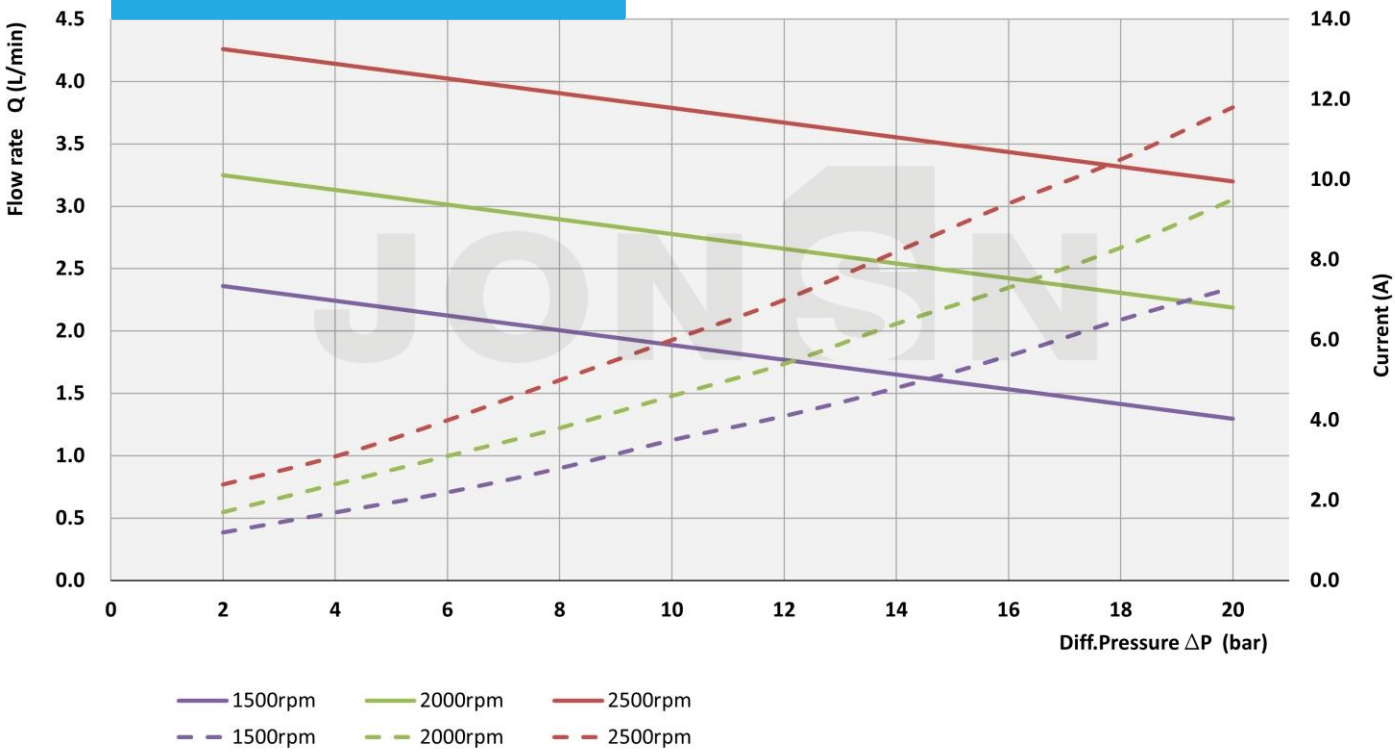
MRB17/16(24V300W) High Pressure



MRB19/16(24V300W)



MRB19/16(24V300W) High Pressure



BLDC MOTORS

MRC + DC brushless motor

MRC Series Micro Gear Pump

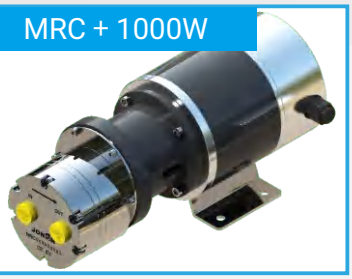
Flow rate: 0.8–18 L/minWorking differential
pressure: 0.5–25 bar
Applicable viscosity: 0.4–3000 mPa·s (similar to water)
Pump pressure resistance: 6 MPa

JONSN precision micro magnetic gear pumps are suitable for conveying:
deionized water, methanol, urea solution, kerosene, additives, auxiliaries, lubricating oil, lye, ammonia liquid, cobalt liquid, dialysate, ethylene glycol, freon, ink, glycerol, phenolic resin, curing agent, flavors and fragrances, fluorinated liquid in pumping systems.

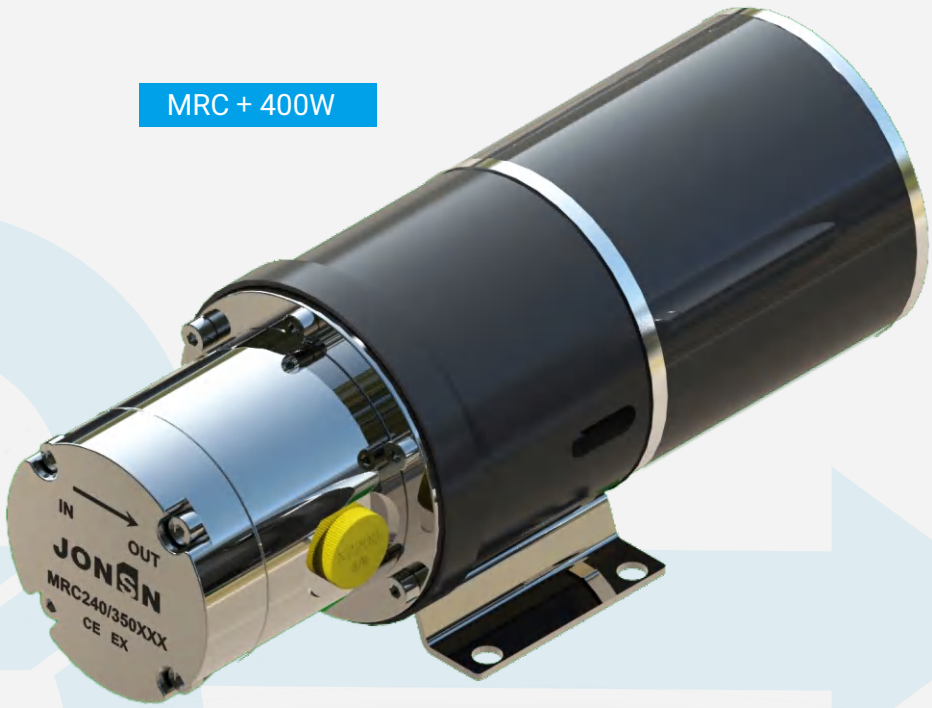
MRC + 600W

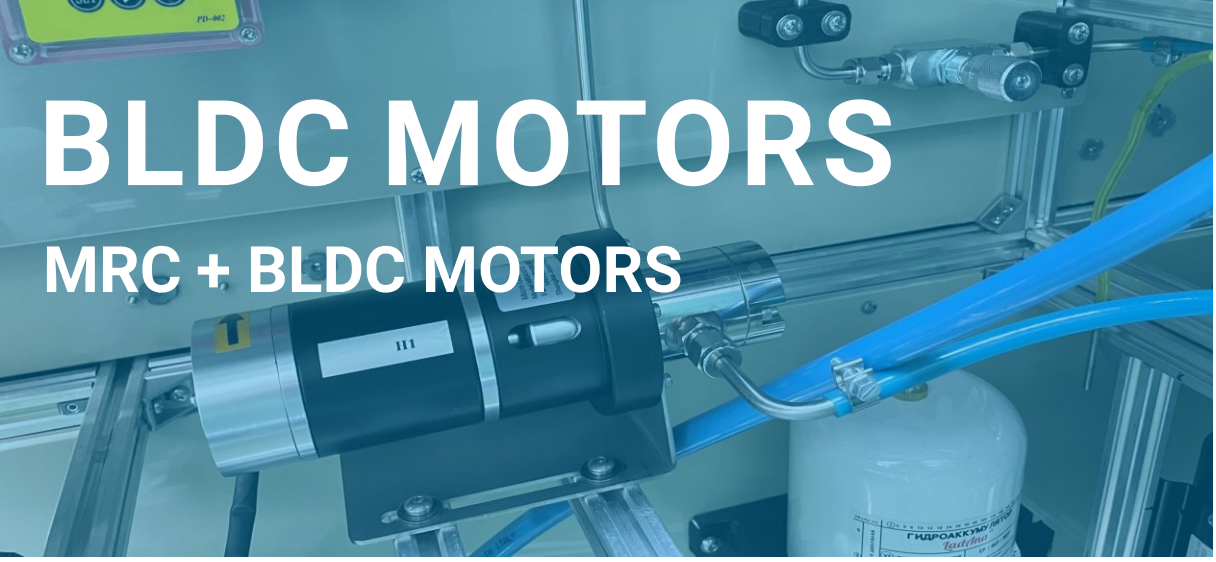


MRC + 1000W



MRC + 400W

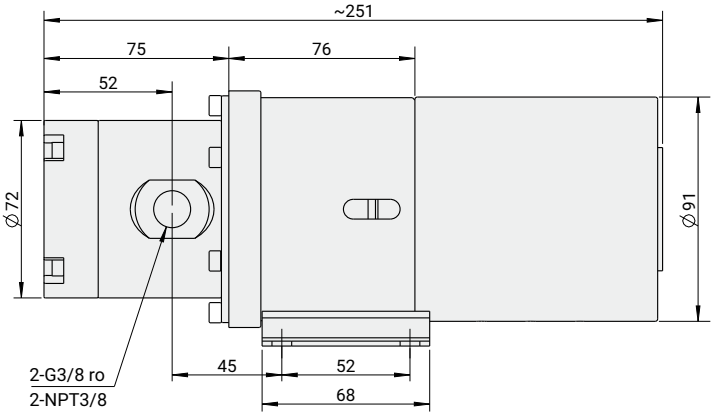


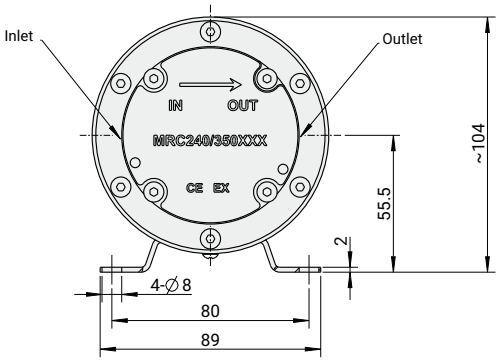


BLDC MOTORS

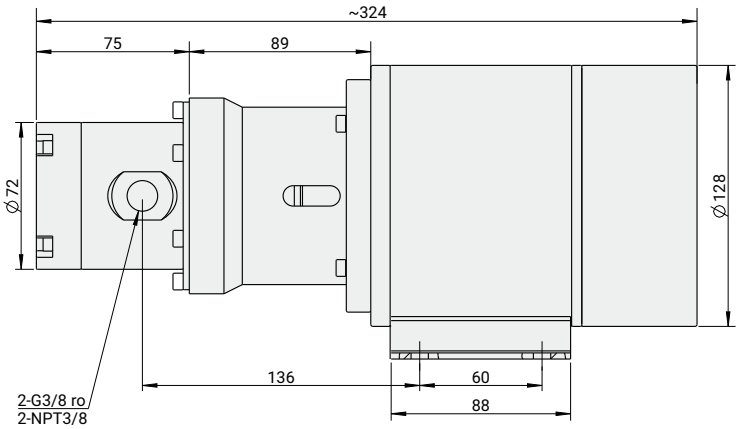
MRC + BLDC MOTORS

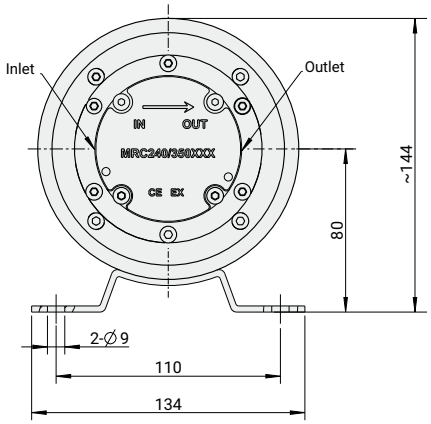
Pump Model	BLDC MOTORS	
MRC15/22 MRC20/22	300w/400w BLDC	Unified Dimensions

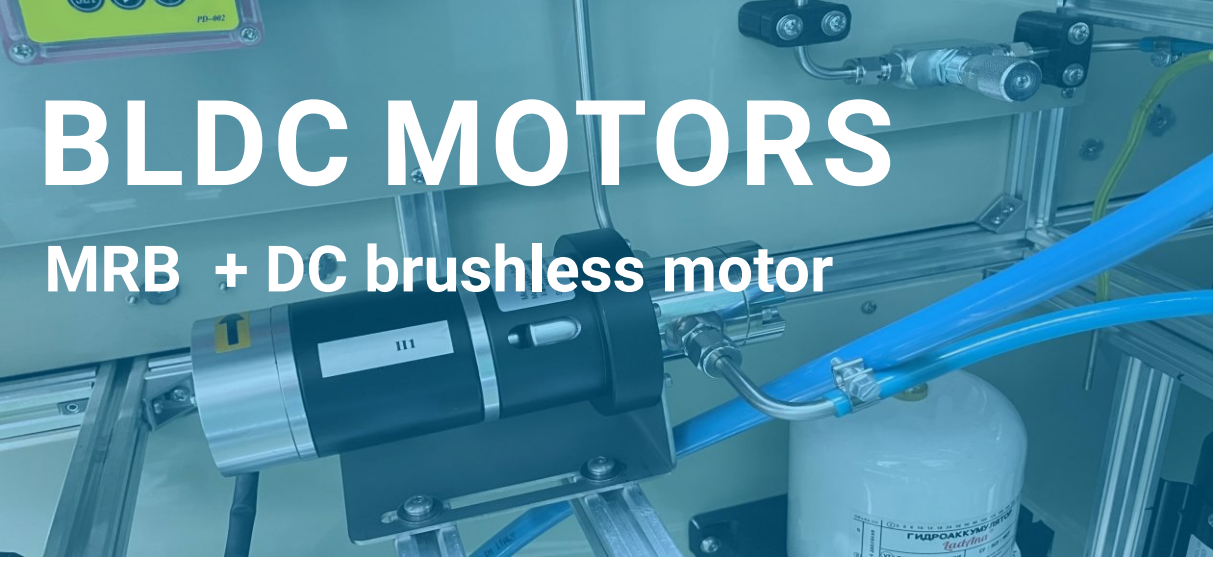




Pump Model	BLDC MOTORS	
MRC15/22 MRC20/22	600w BLDC	Unified Dimensions



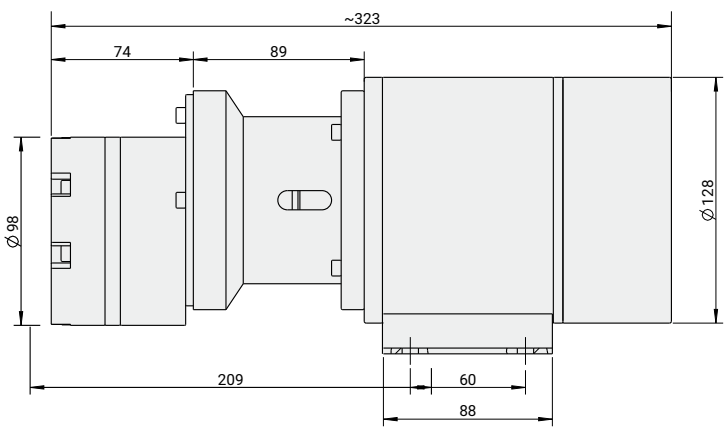


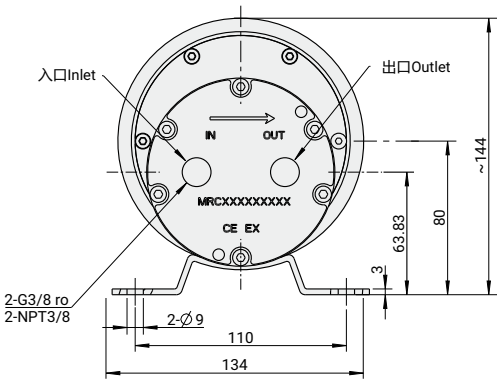


BLDC MOTORS

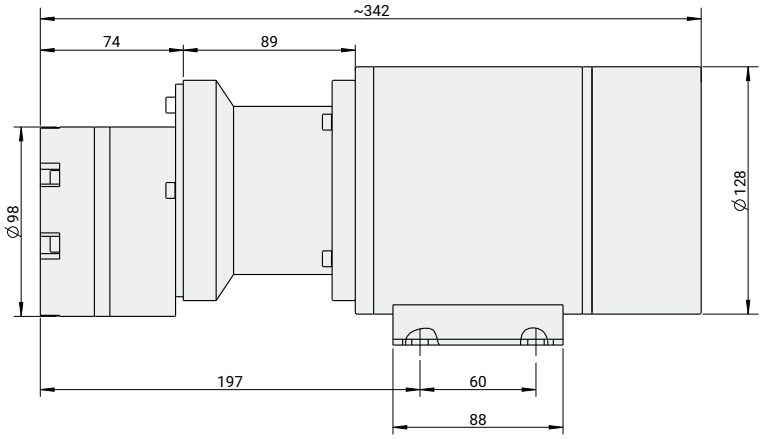
MRB + DC brushless motor

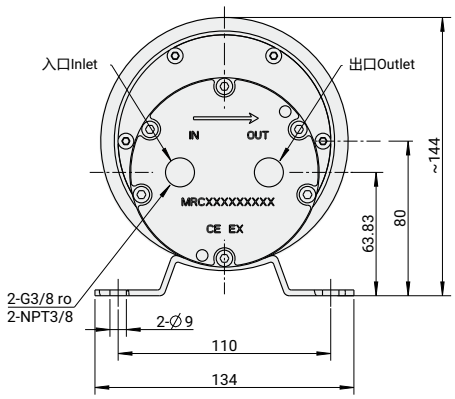
Pump Model	Brushless Motor	
MRC8/37	600w Brushless Motor	unified dimension
MRC12/37		



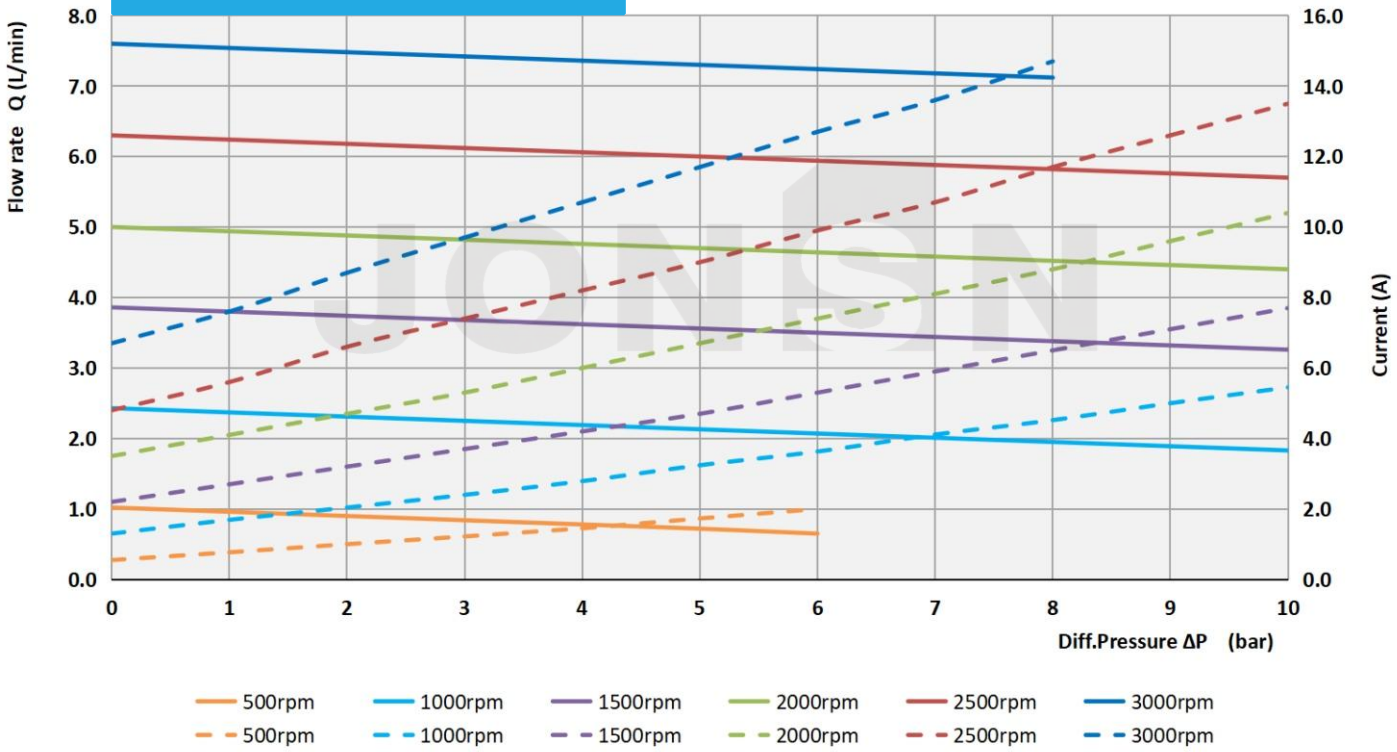


Pump Model	Brushless Motor	
MRC8/37	1500w/2000w Brushless Motor	unified dimension
MRC12/37		

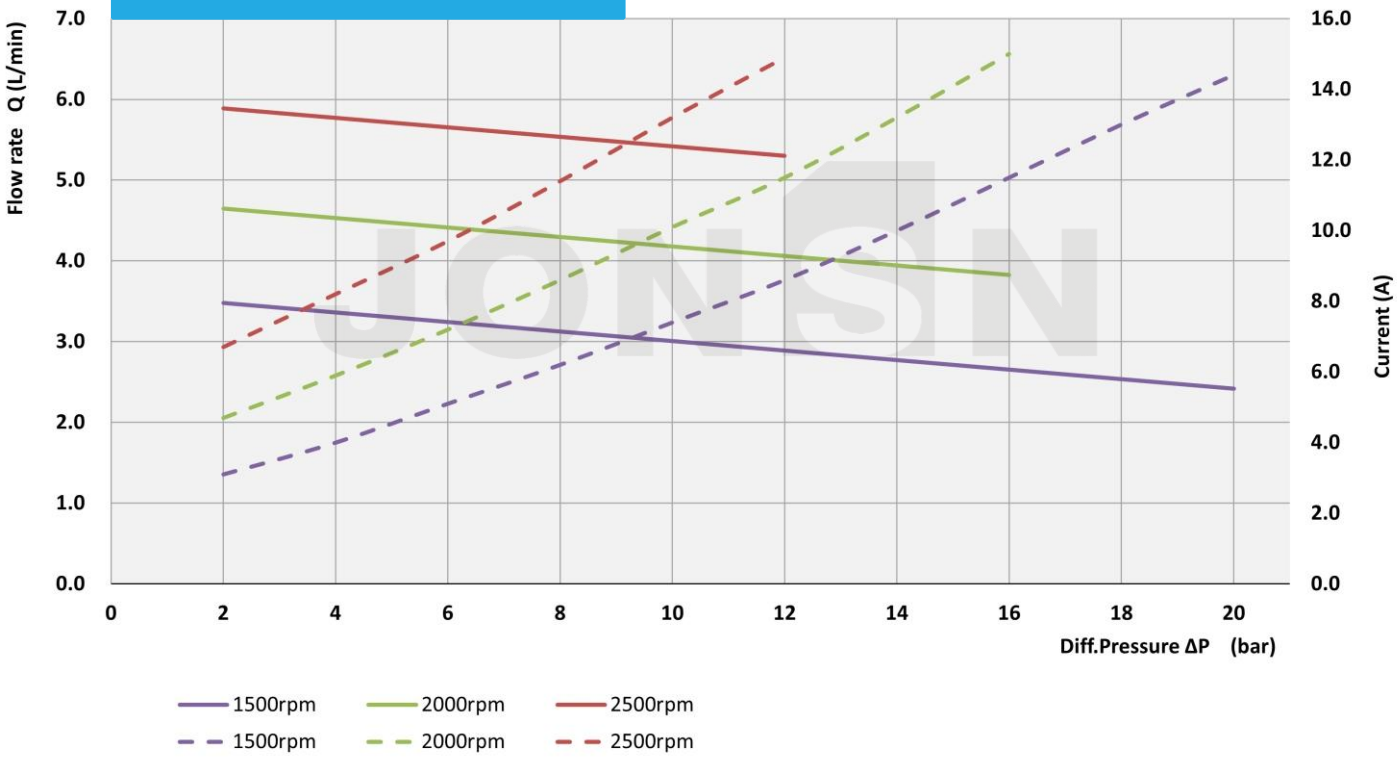




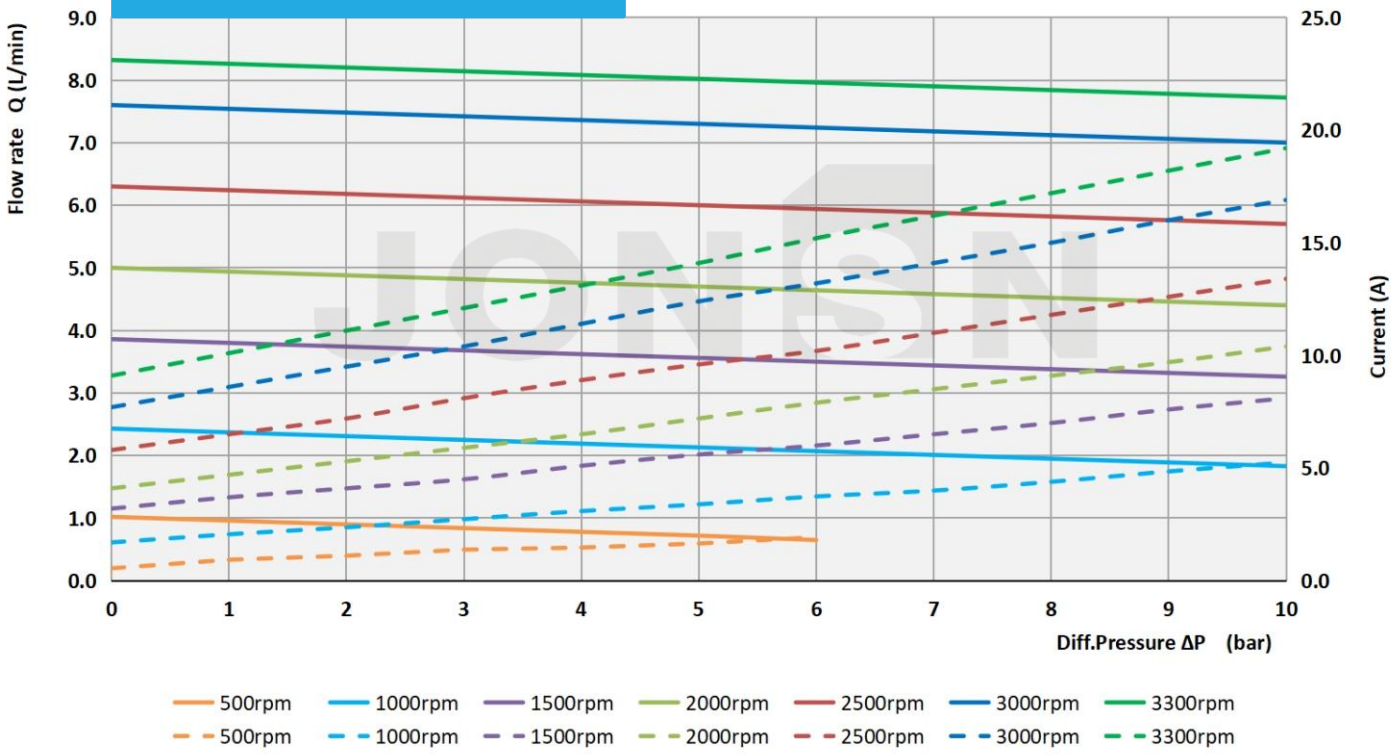
MRC15/22(24V400W)



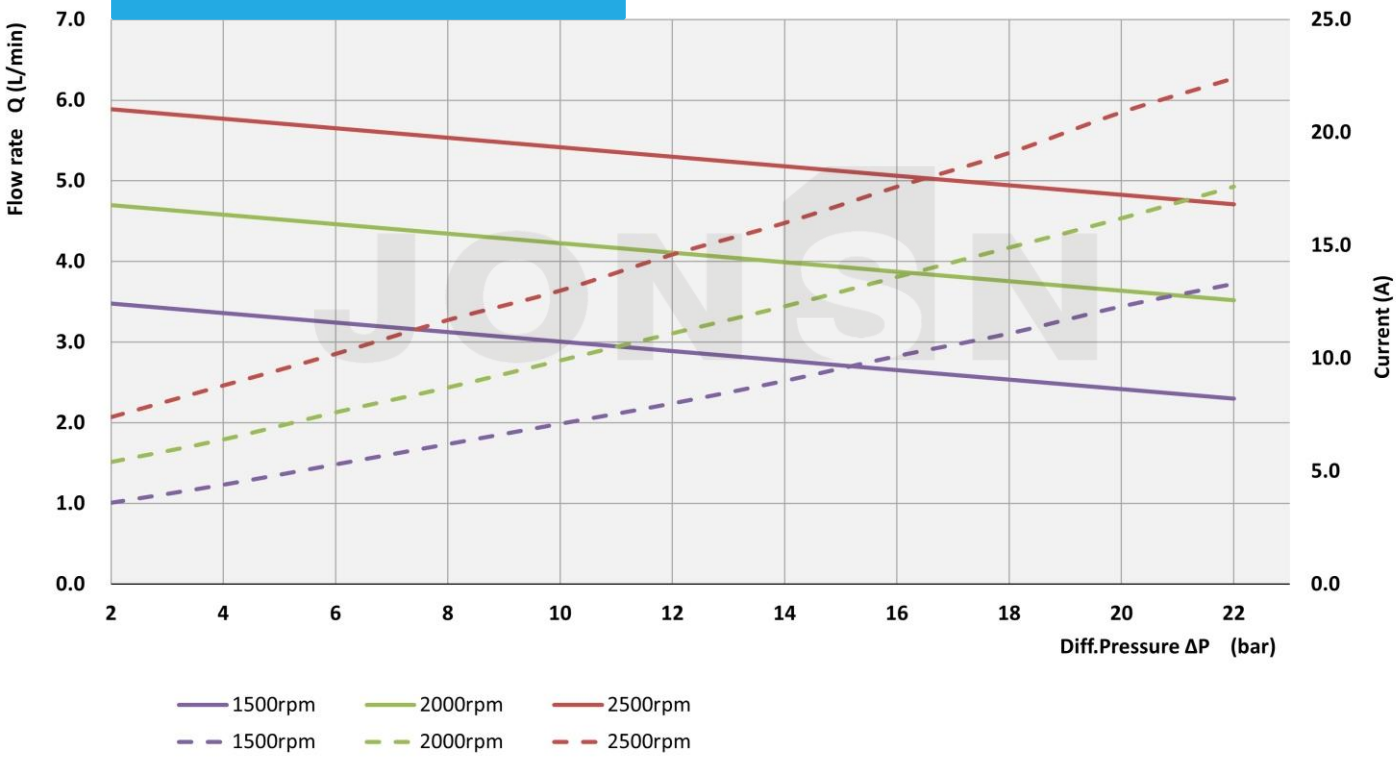
MRC15/22(24V400W) High pressure



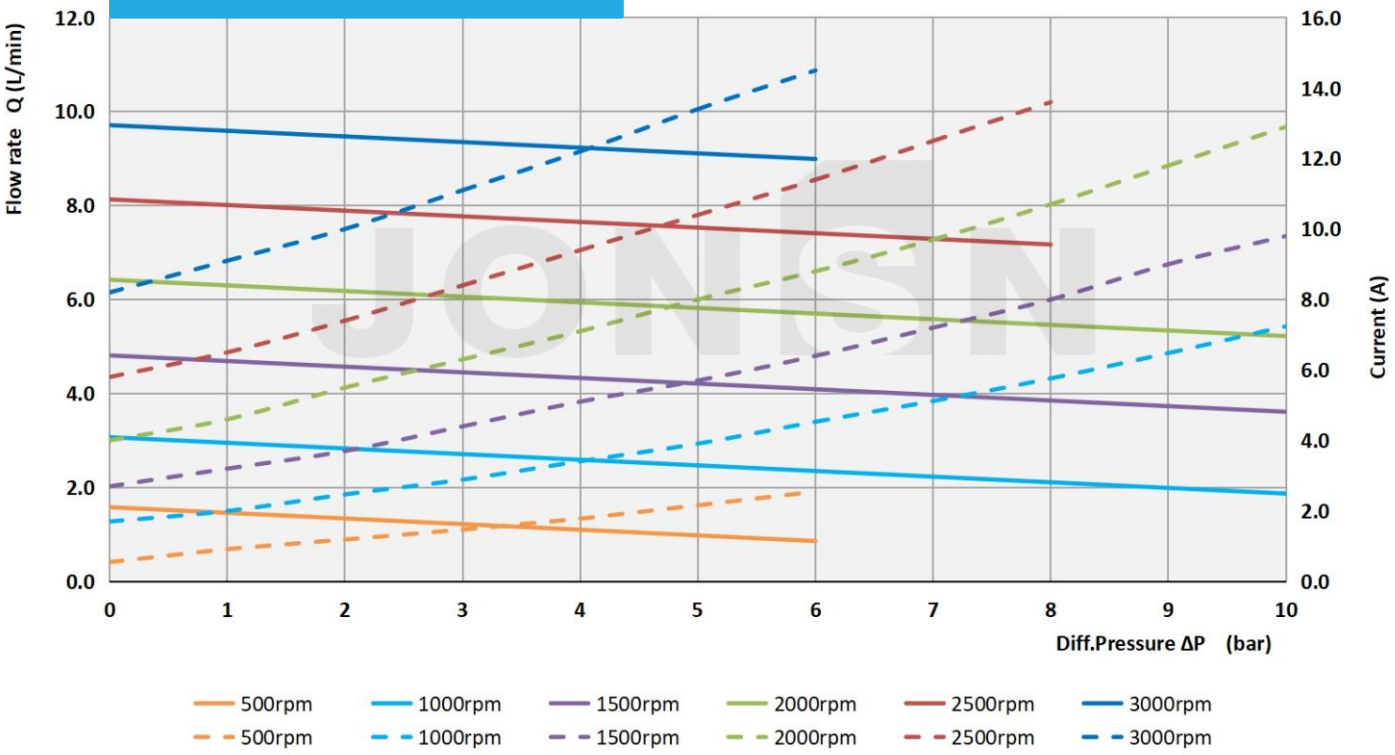
MRC15/22(24V600W)



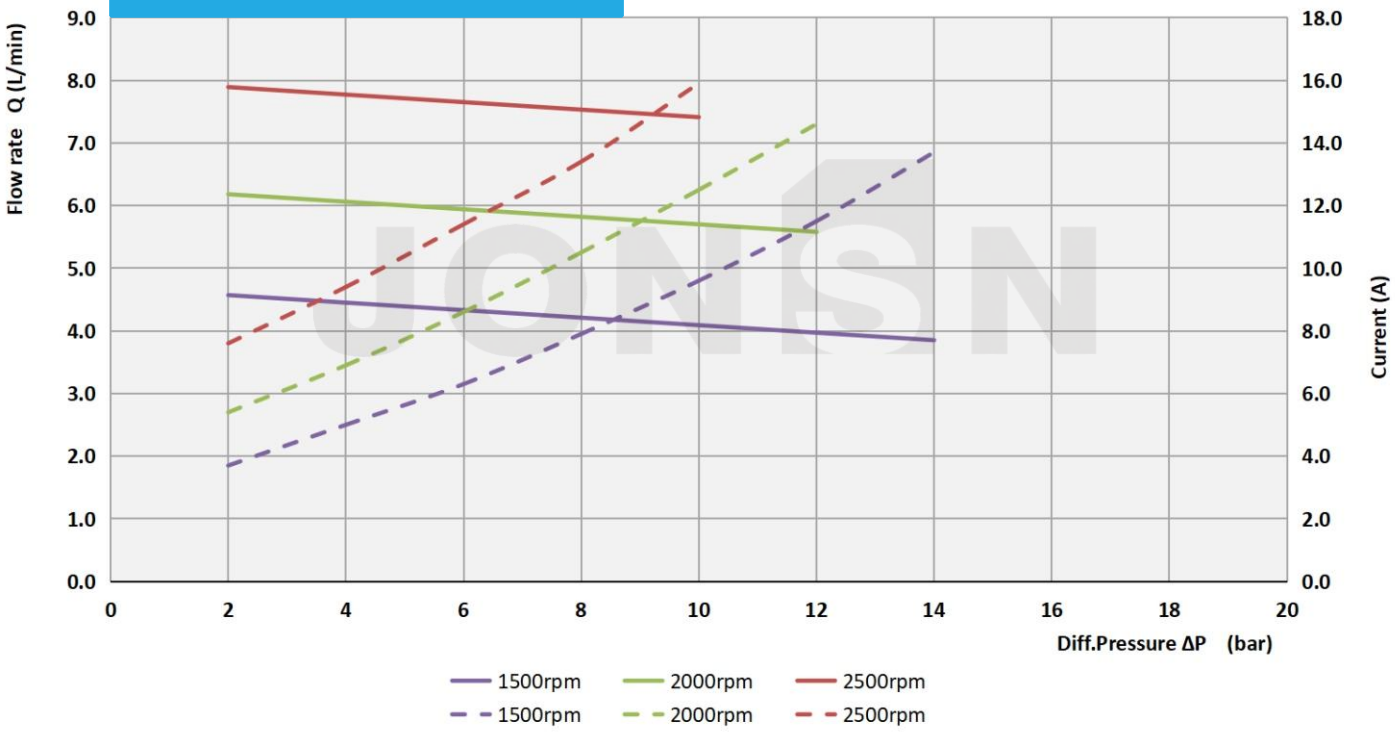
MRC15/22 (24V600W) High pressure



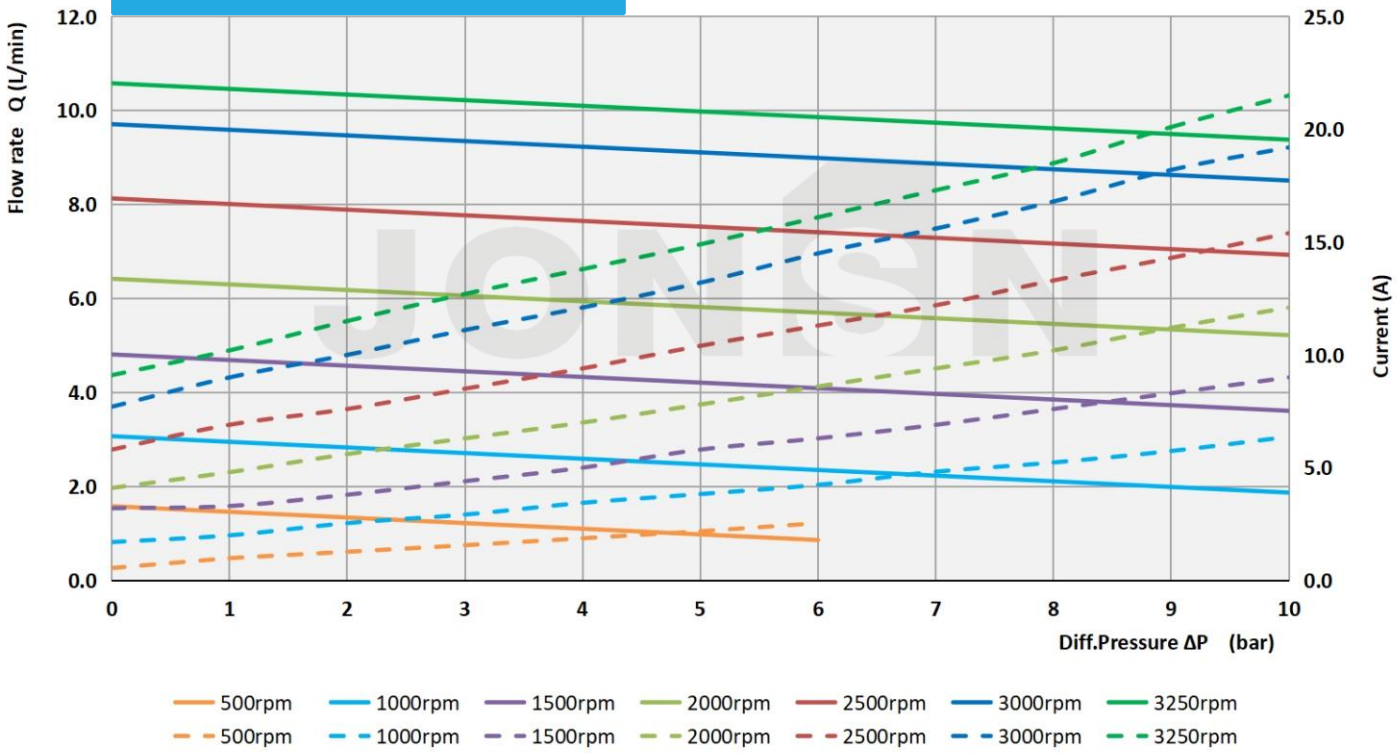
MRC20/22(24V400W)



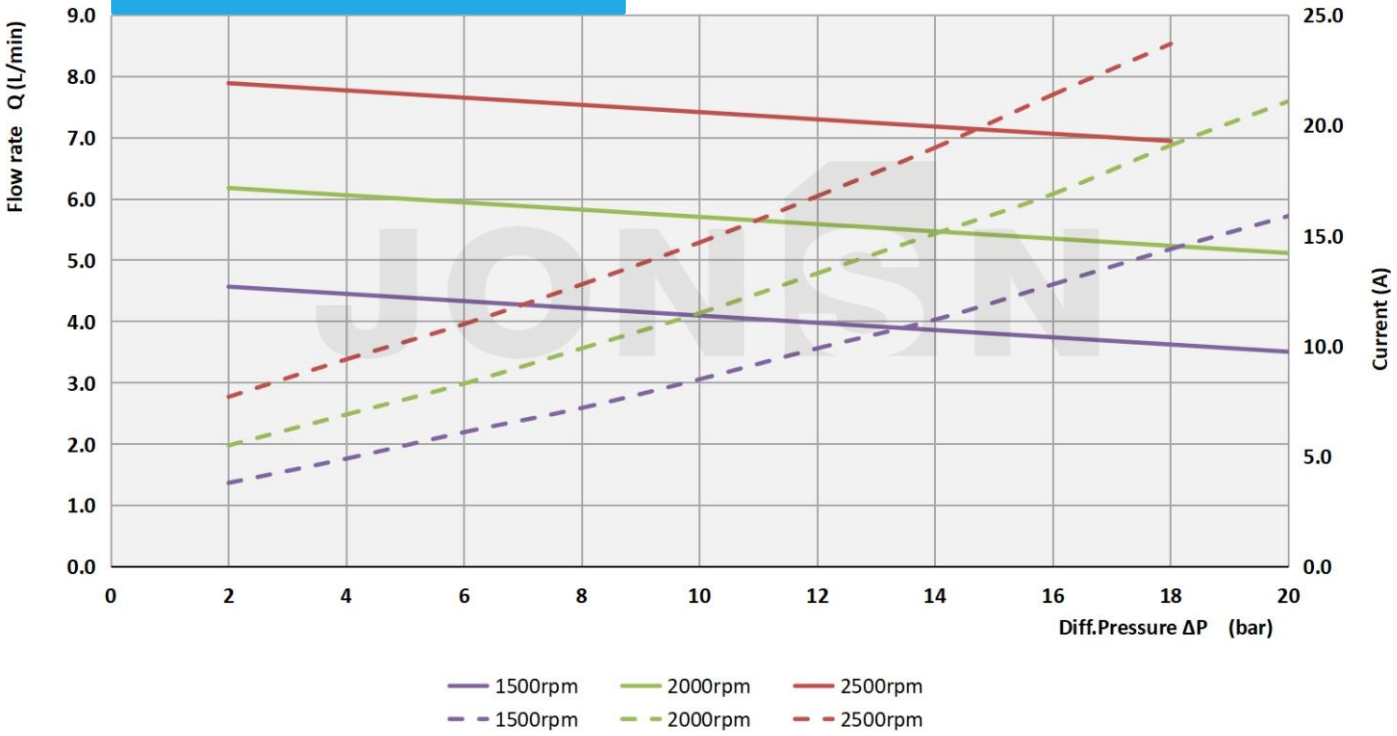
MRC20/22(24V400W) High pressure



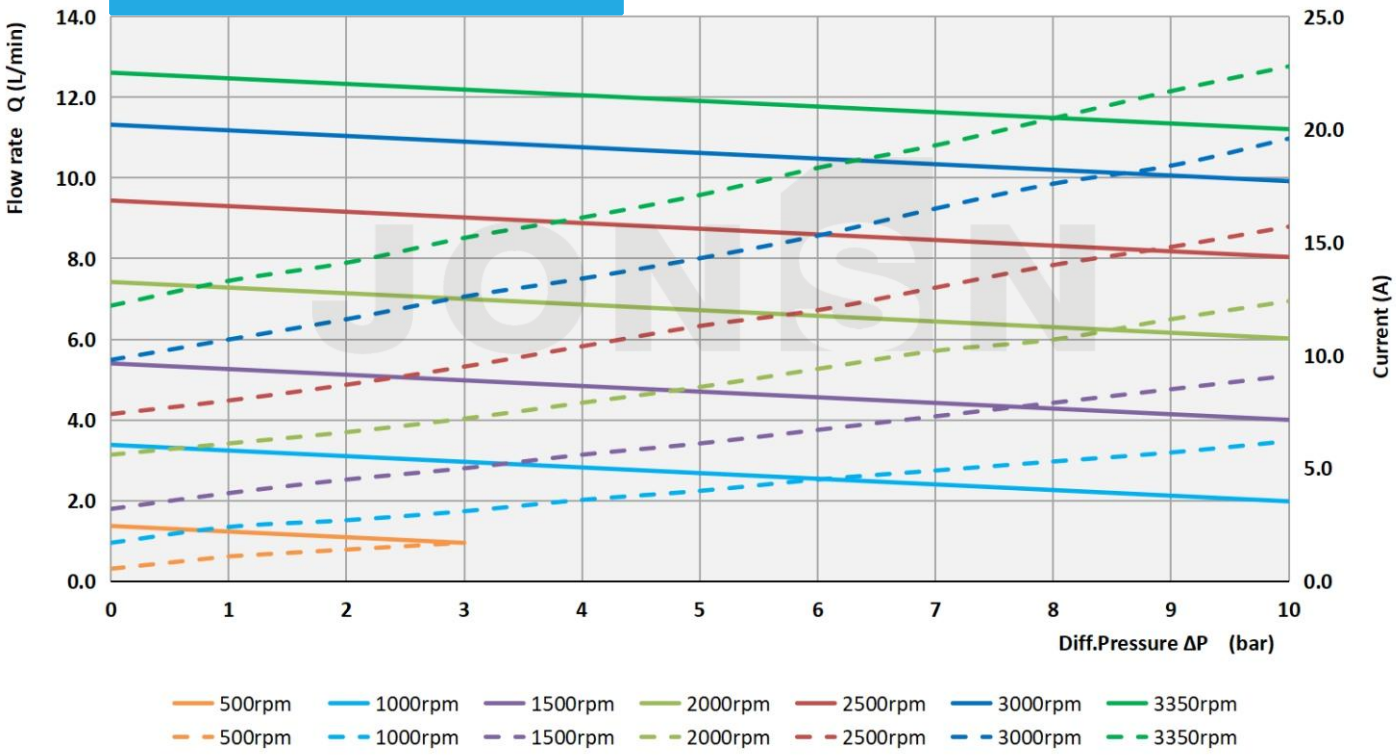
MRC20/22(24V600W)



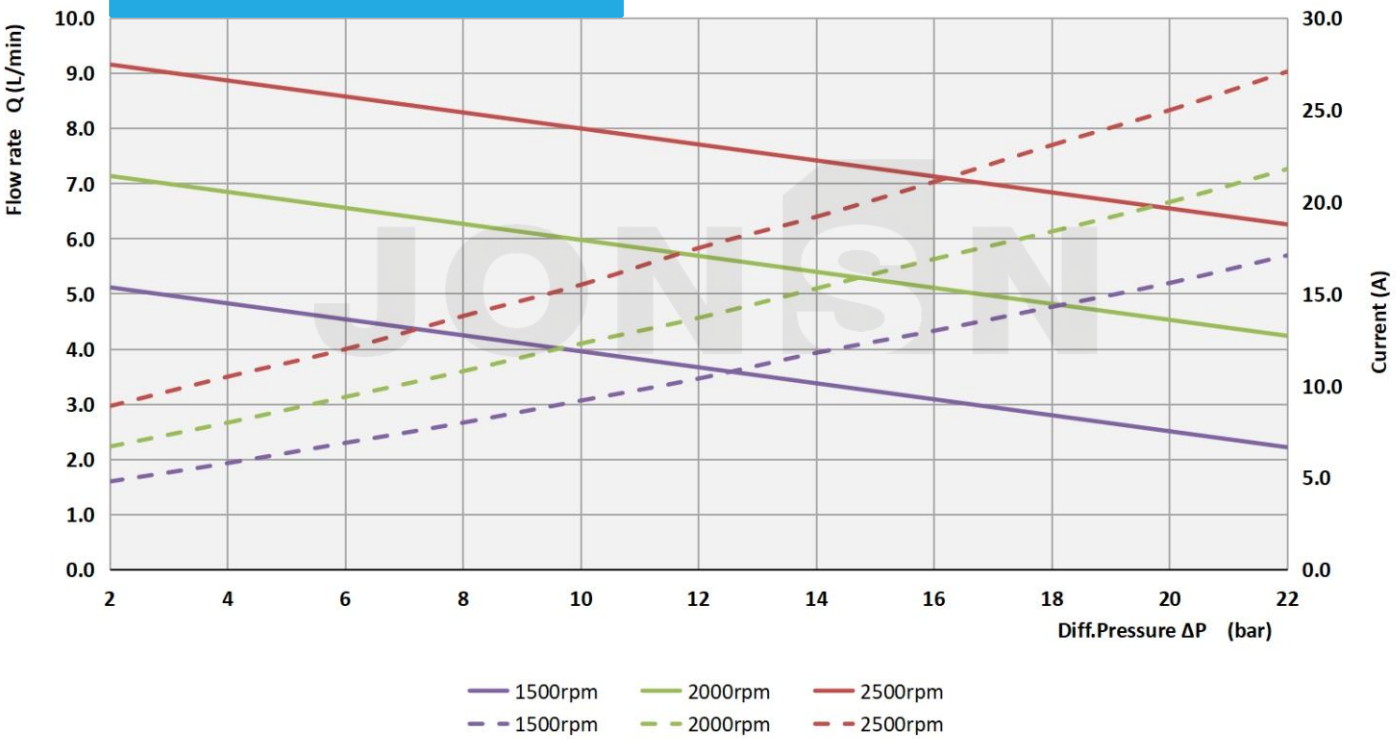
MRC20/22 (24V600W) High pressure



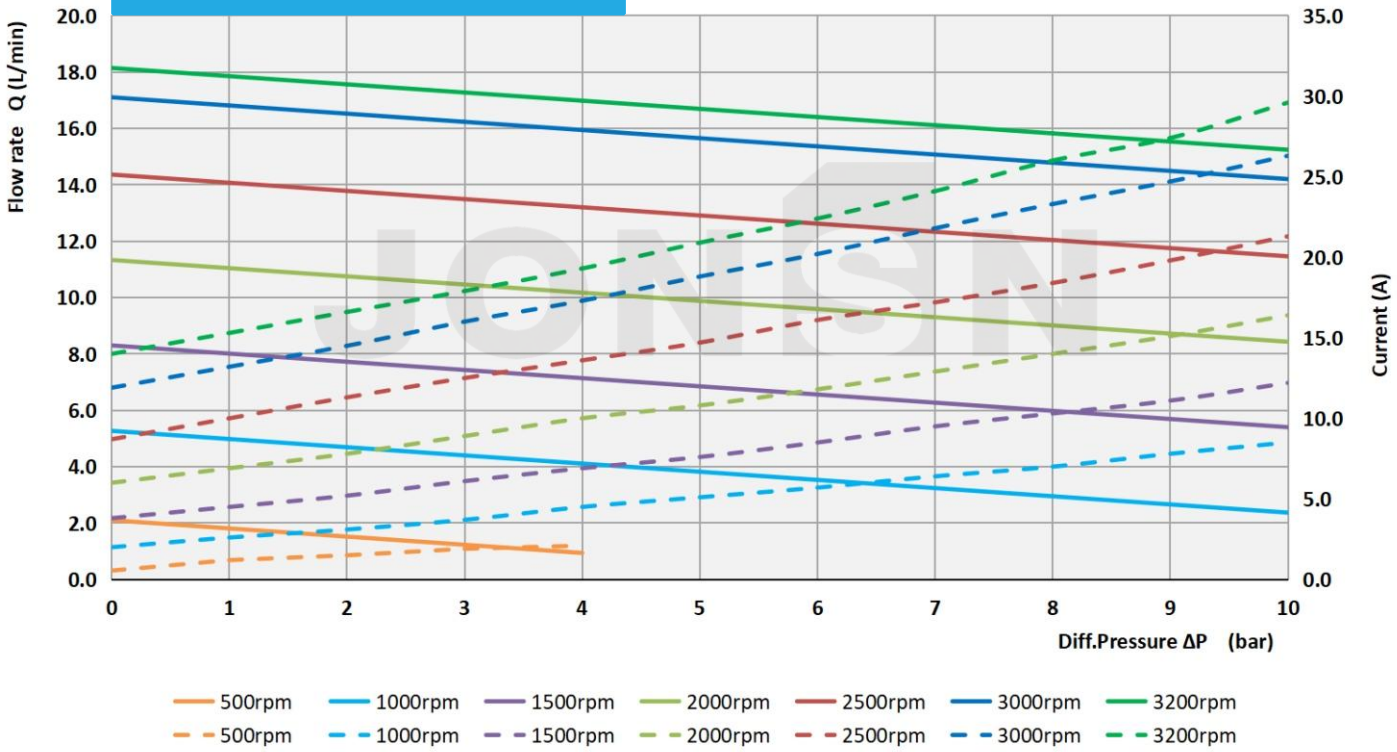
MRC8/37(24V1000W)



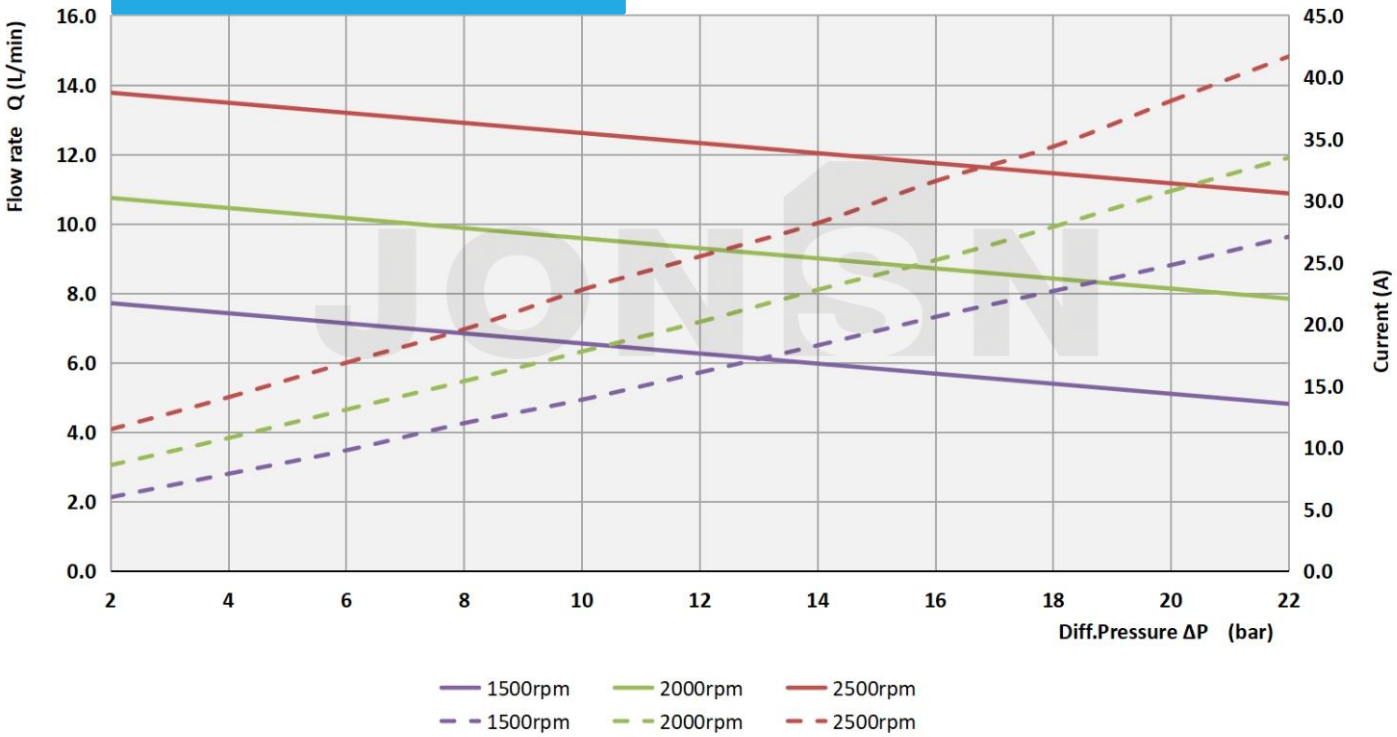
MRC8/37(24V1000W) High pressure



MRC12/37(24V1000W)



MRC12/37 (24V1000W) High pressure



BLDC MOTORS

MRE+DC brushless motor

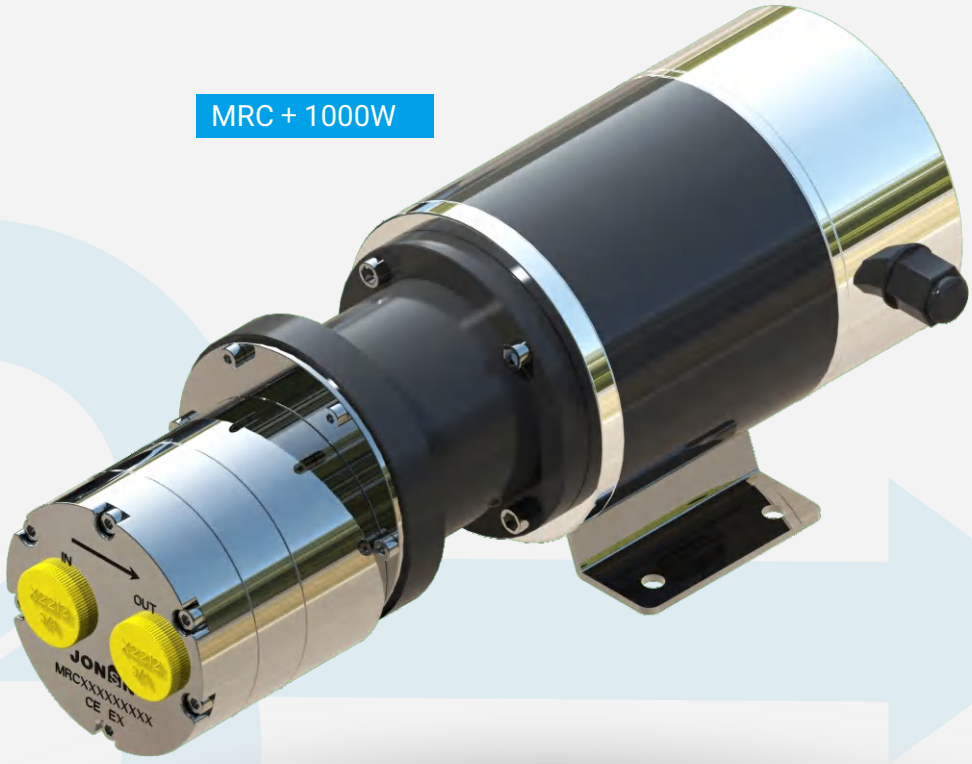
MRE Series Micro Gear Pump
Flow range: 4–40 L/minWorking differential
pressure: 0.5–25 bar
Applicable viscosity: 0.4–3000 mPa·s (similar to water)
Pump max pressure resistance: 6 MPa

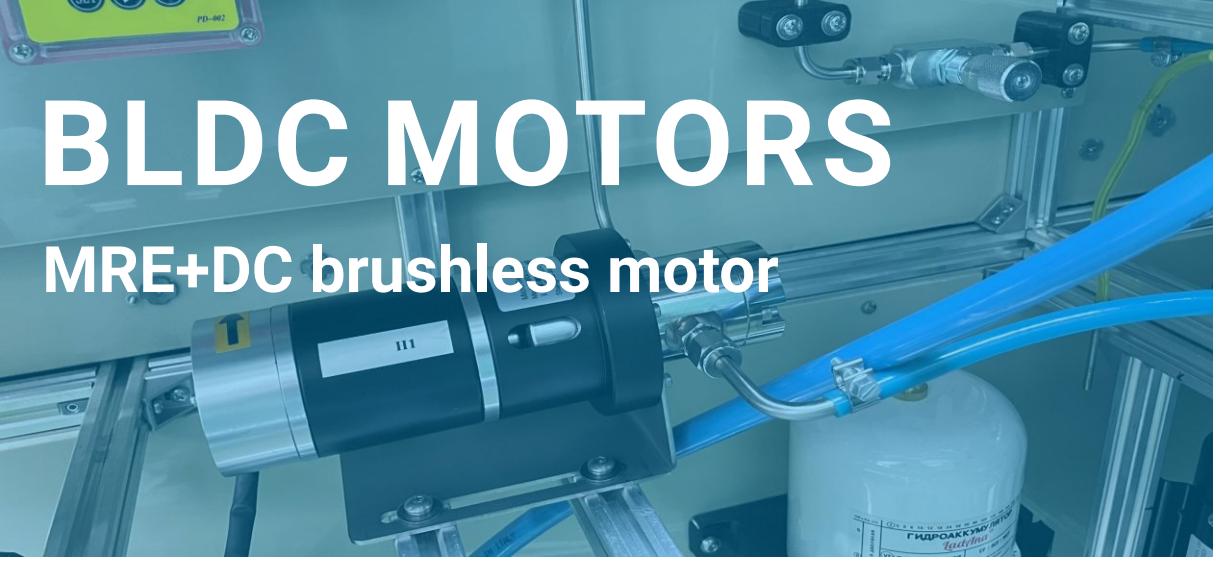
JONSN precision micro magnetic gear pumps are applicable for the pumping systems of:
deionized water, methanol, urea solution, kerosene, lubricating oil, additives, auxiliaries, lye, ammonia solution, cobalt liquid, dialysate, ethylene glycol, freon, ink, glycerin, phenolic resin, curing agent, flavors and fragrances, fluorinated liquid.

MRC + 1500W



MRC + 1000W

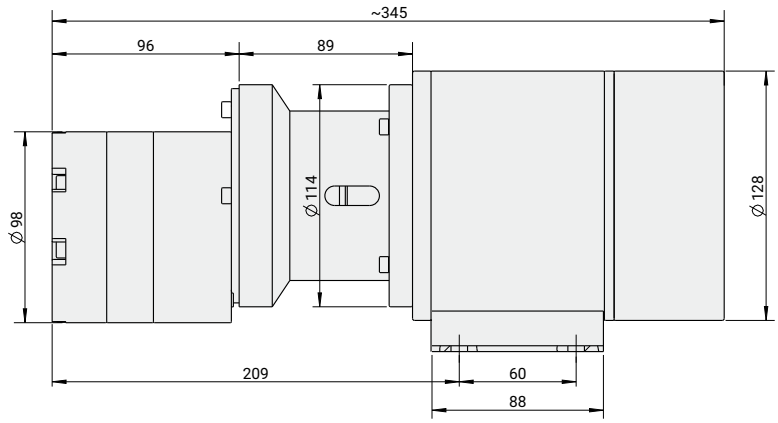


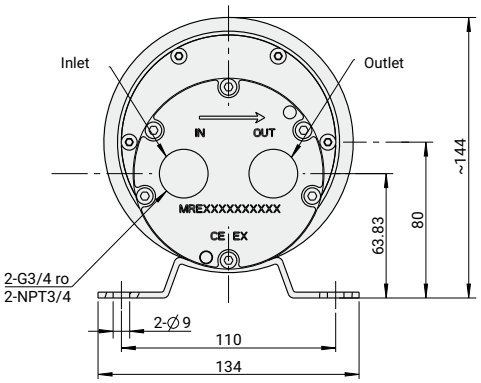


BLDC MOTORS

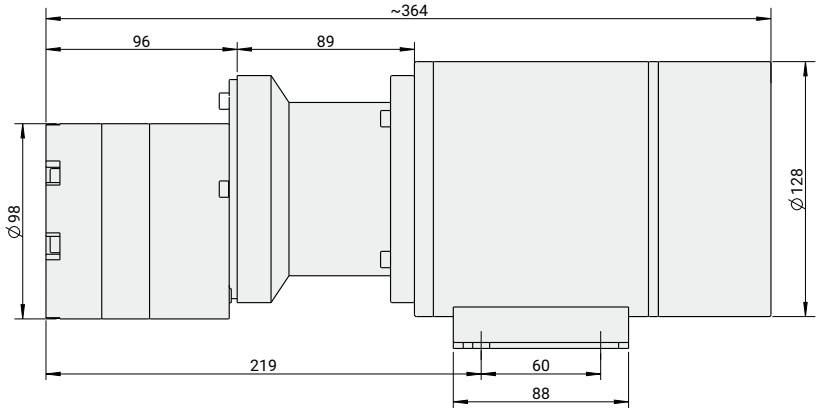
MRE+DC brushless motor

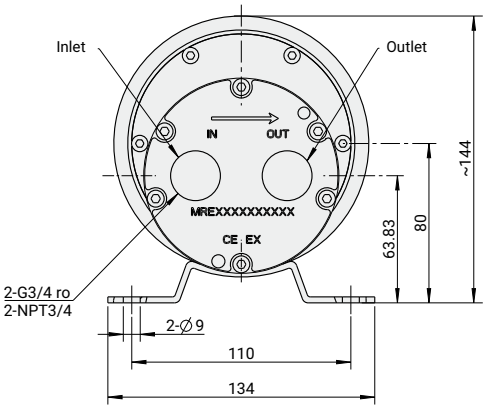
Pump Model	Brushless motor	
MRE18/37	600w brushless motor	unified dimension
MRE24/37		
MRE34/37		



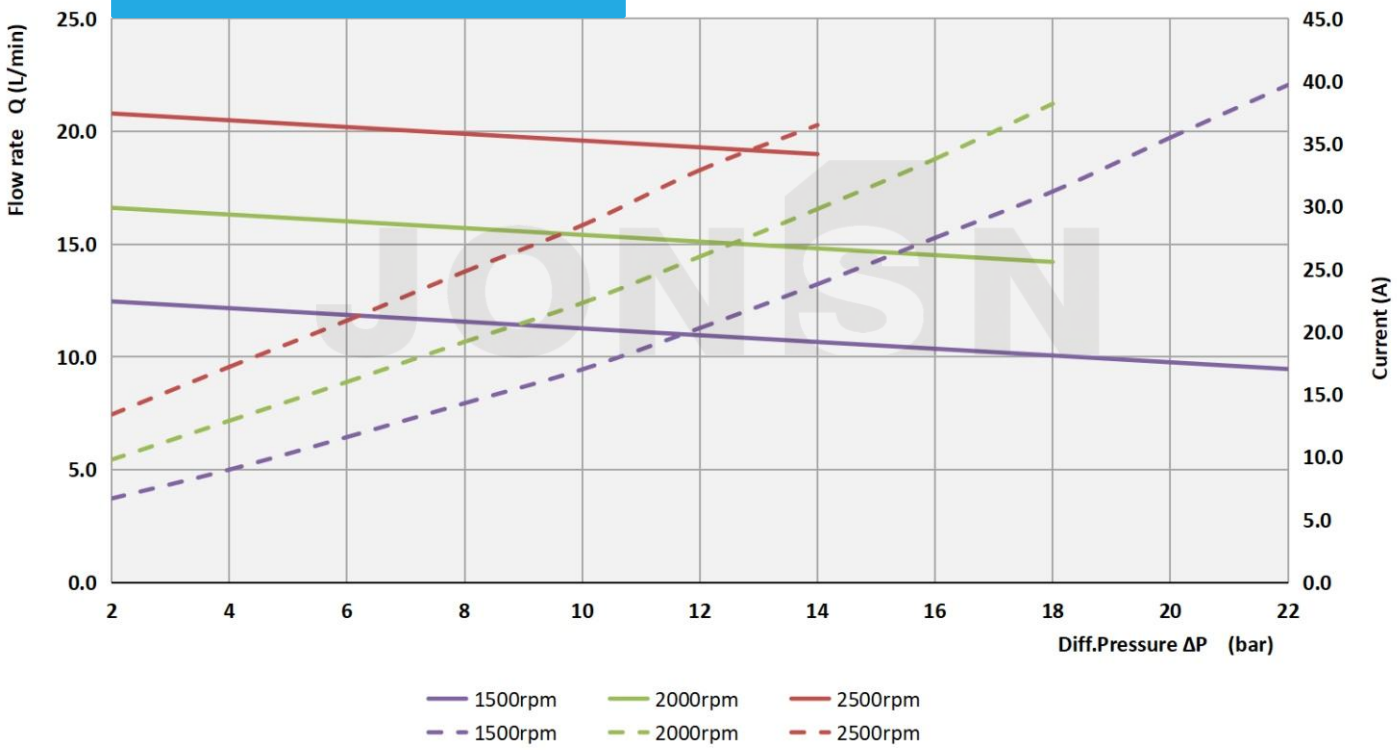


Pump Model	Brushless motor	
MRE18/37	1500w/2000w brushless motor	unified dimension
MRE24/37		
MRE34/37		

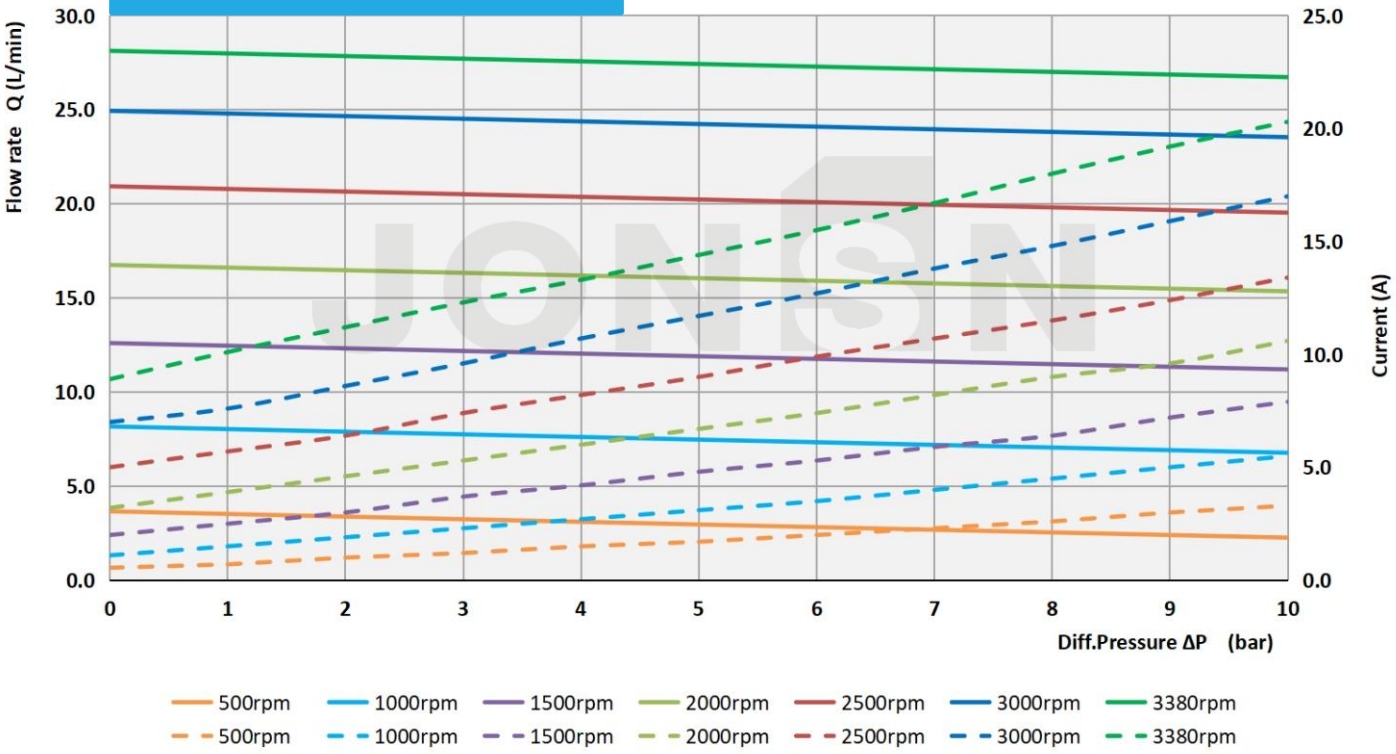




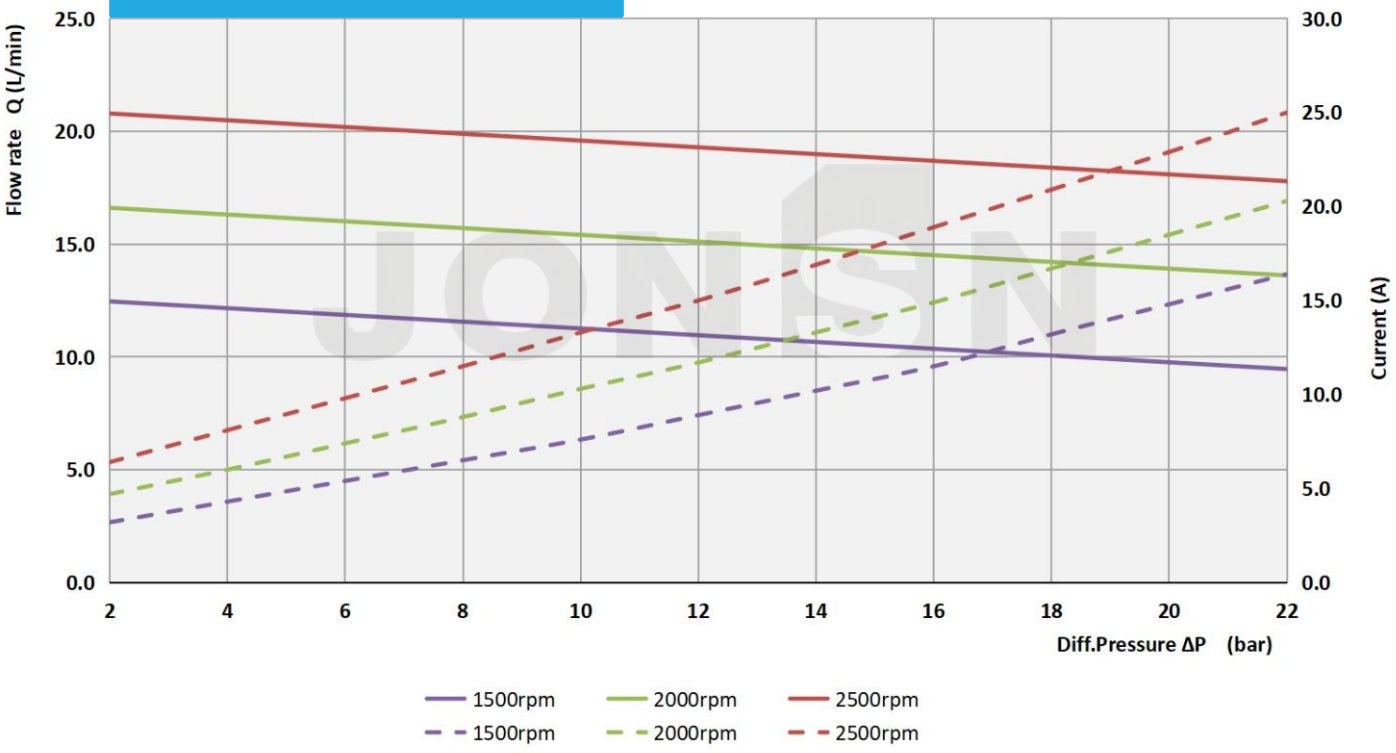
MRE18/37(24V1000W) High pressure



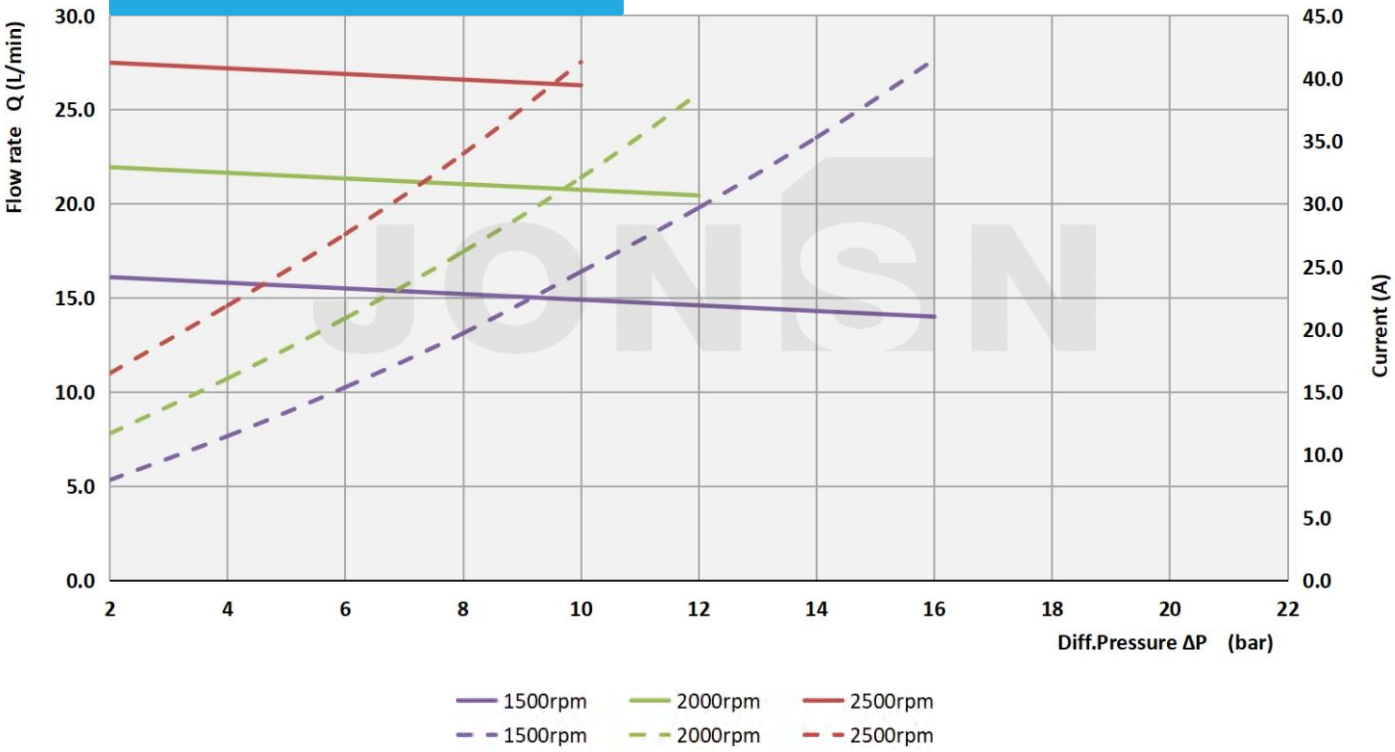
MRE18/37(48V1500W)



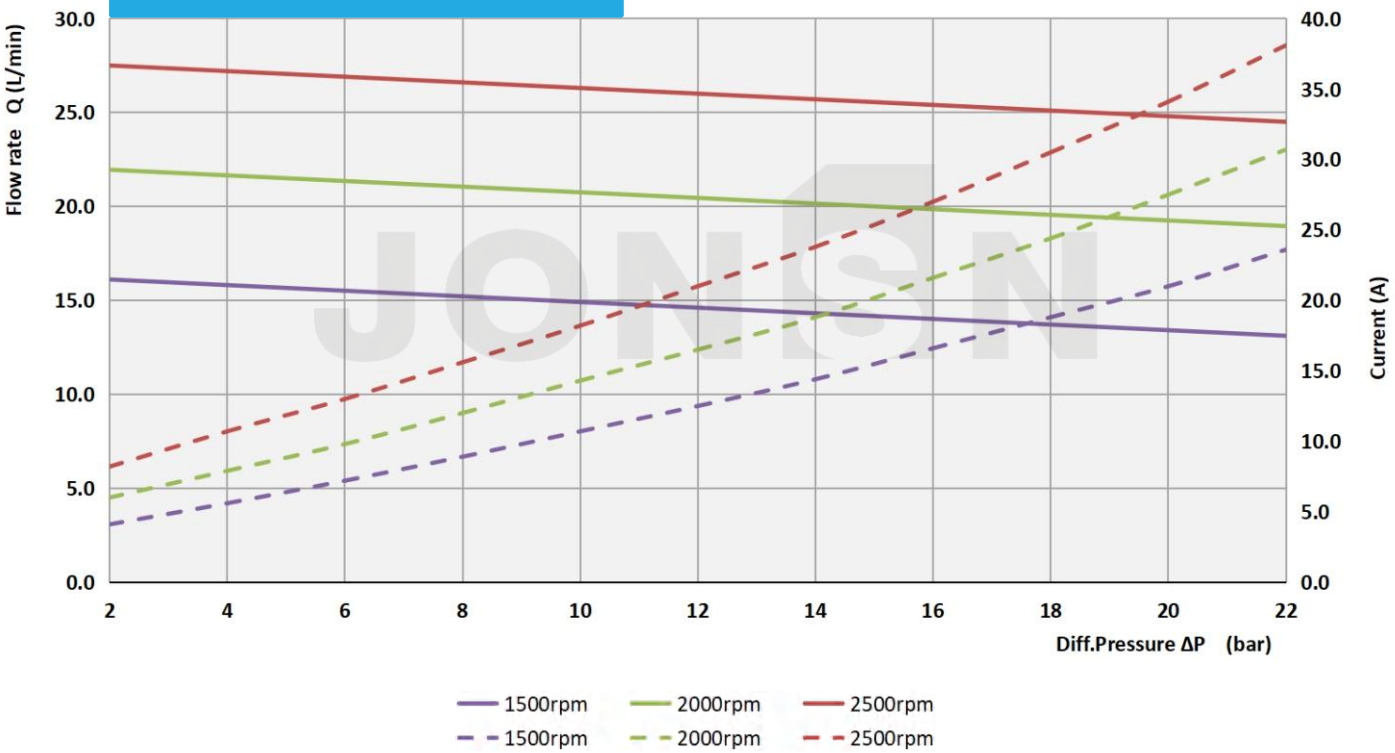
MRE18/37 (48V1500W) High pressure



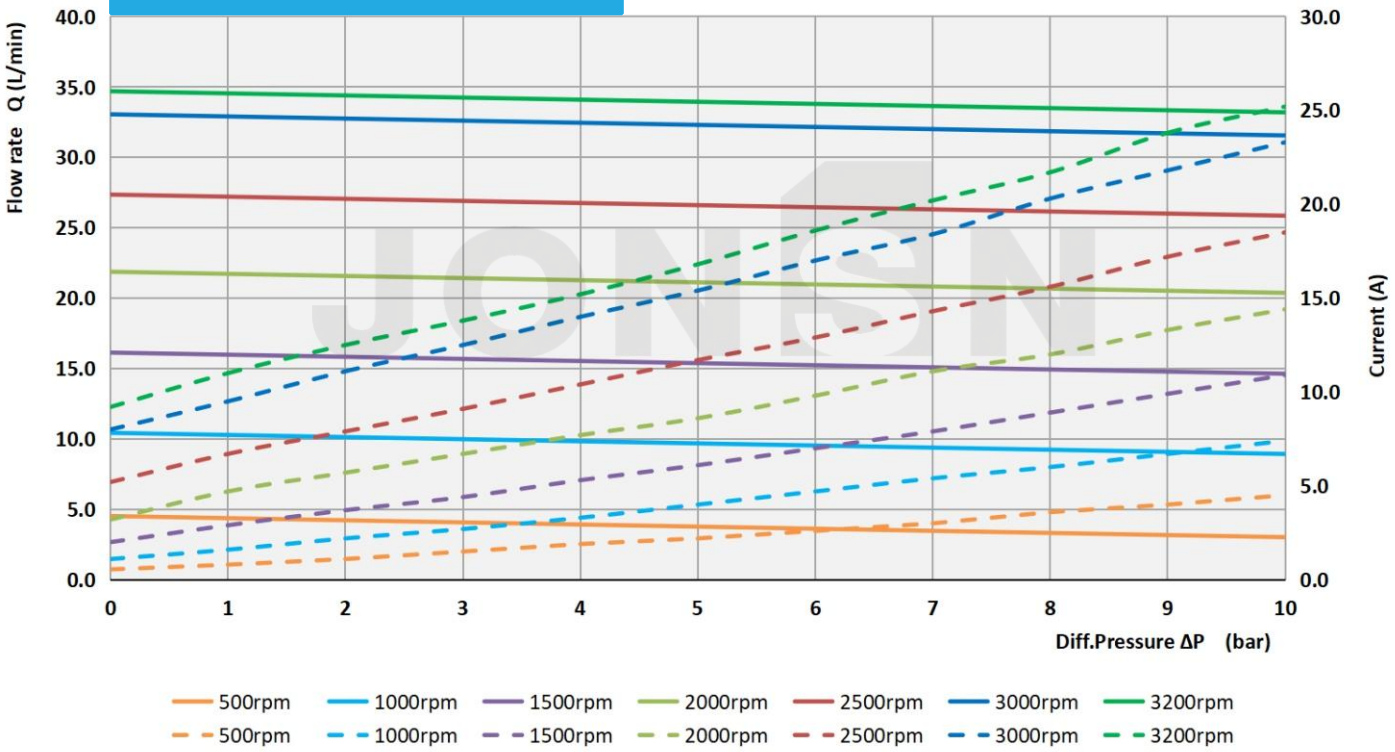
MRE24/37(24V1000W) High pressure



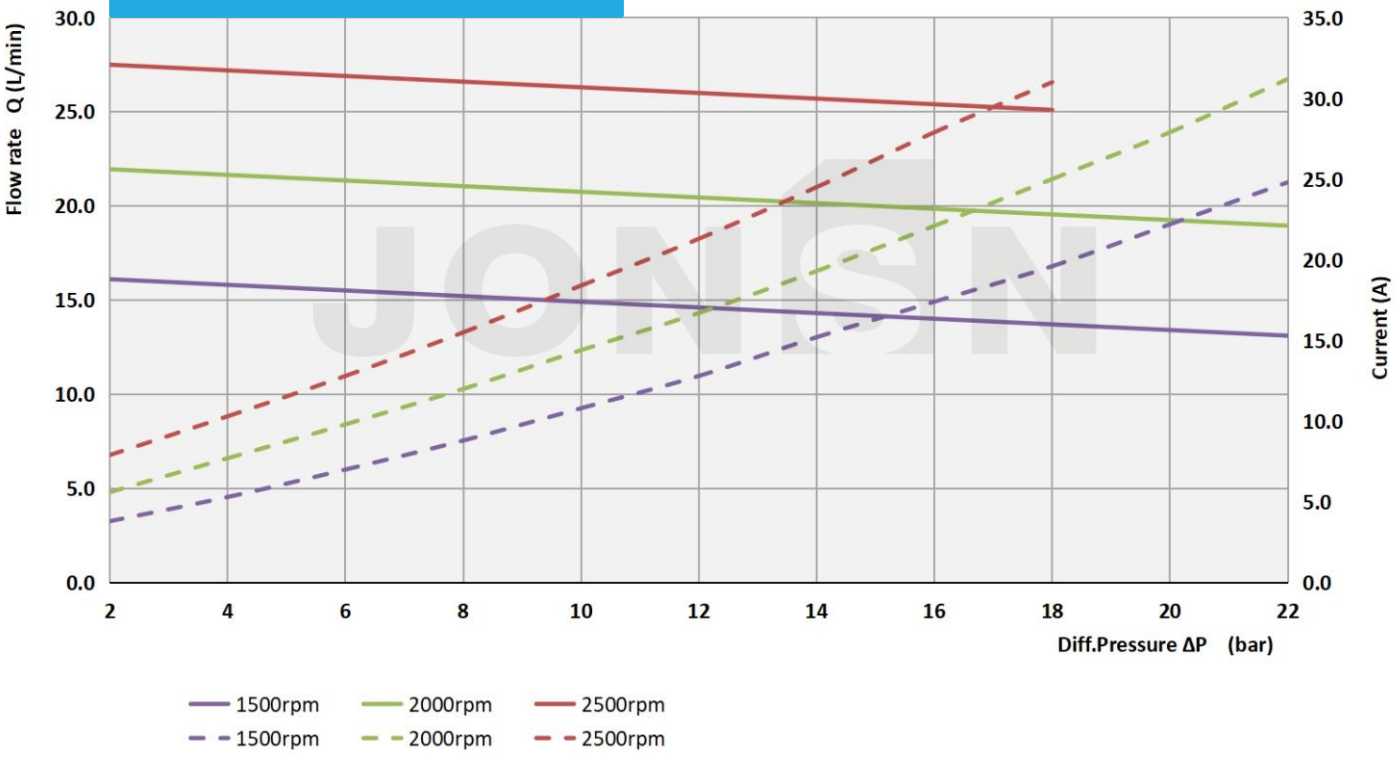
MRE24/37 (24V2000W) High pressure



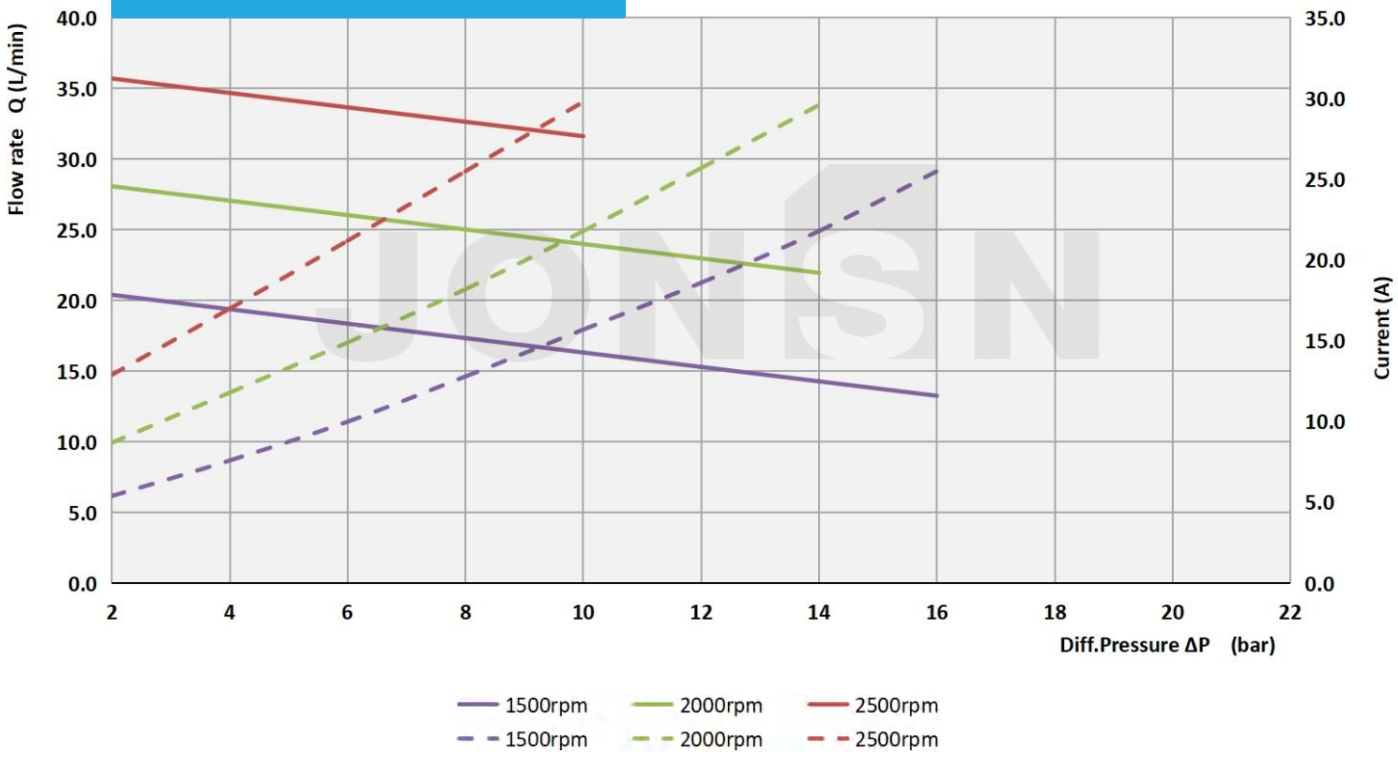
MRE24/37(48V1500W)



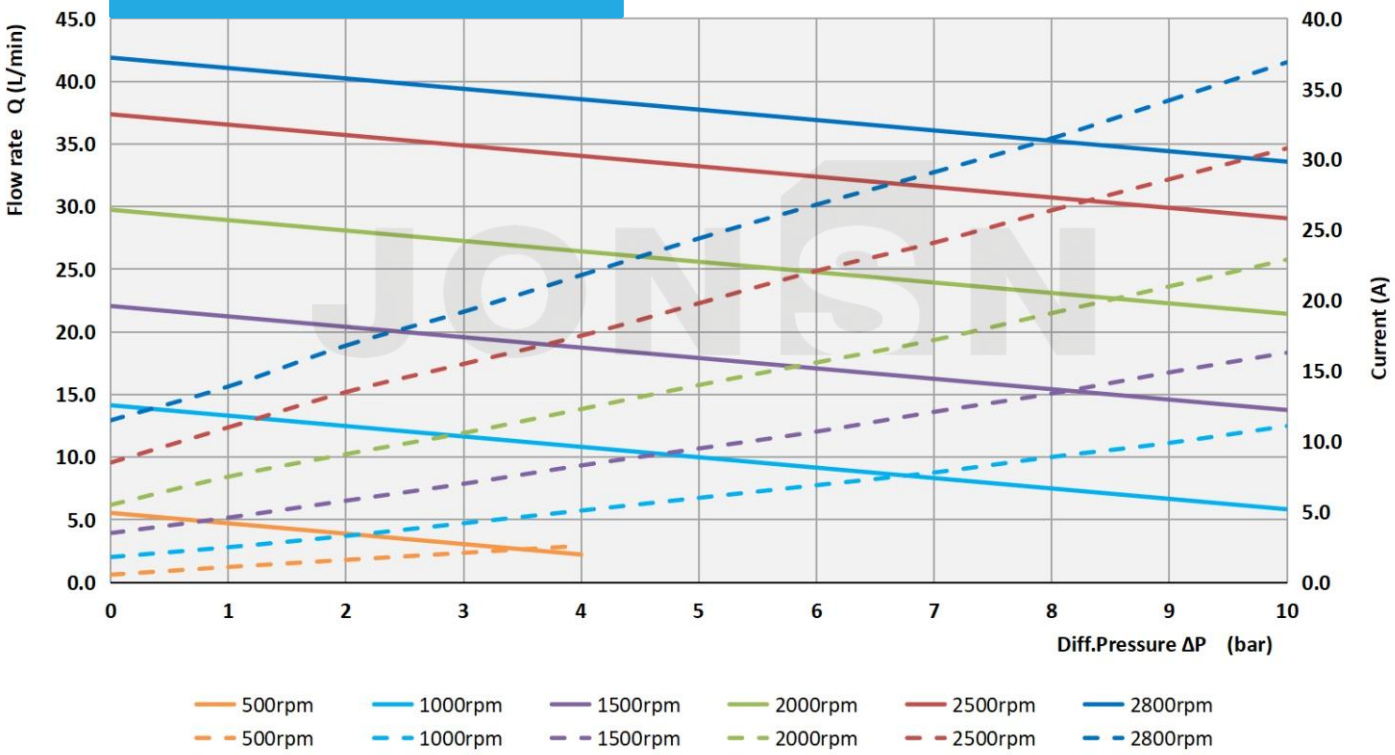
MRE24/37(48V1500W) High pressure



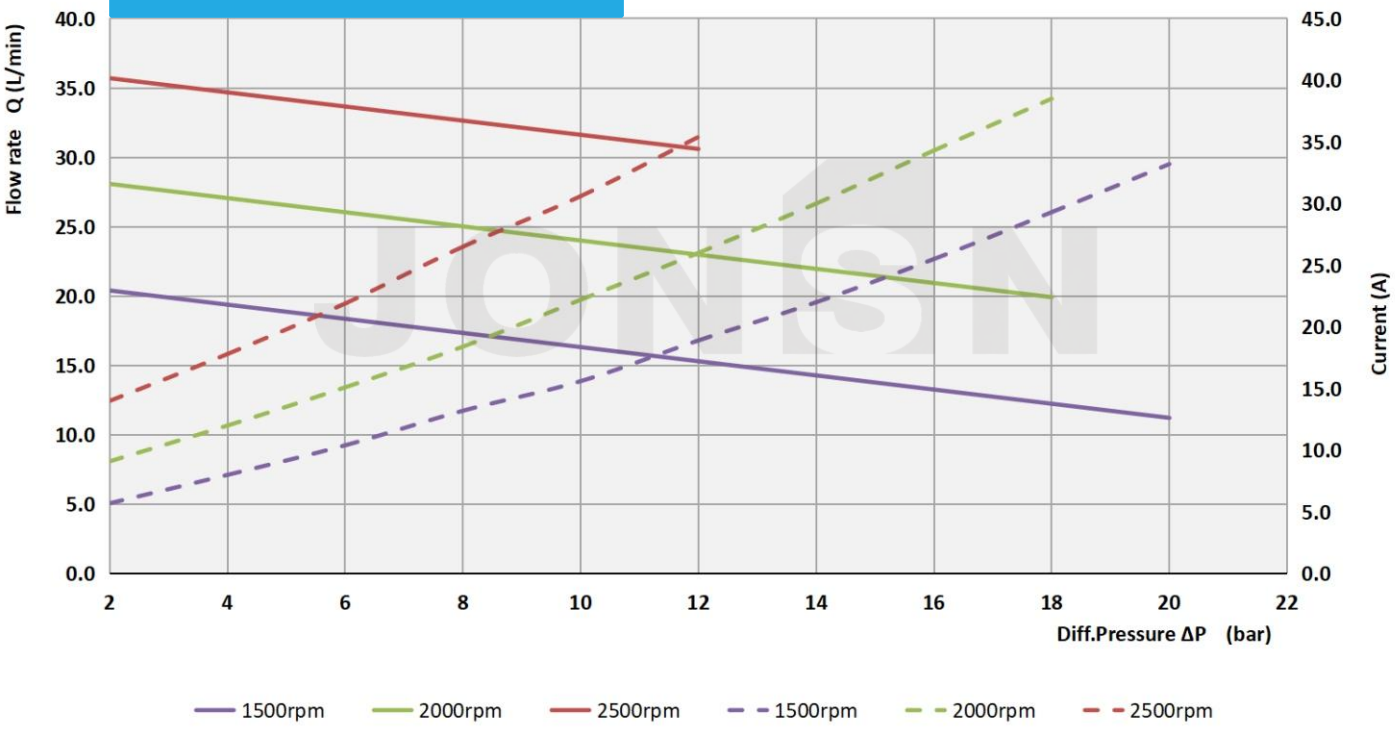
MRE34/37 (48V1500W) High pressure



MRE34/37(48V2000W)



MRE34/37(48V2000W) High pressure



BLDC MOTORS

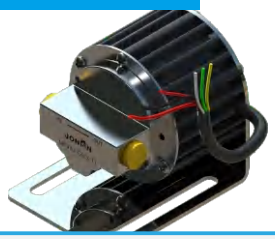
MRV + DC brushless motor

MRV Compact Commercial Supporting Gear Pump & 0.4–6.8 L/min

The MRV series is specially designed for equipment supporting applications and limited installation spaces, featuring flexible pipeline installation. With a simplified internal structure and one-piece cast steel pump body, it delivers robust construction and long-lasting durability.

JONSN precision micro magnetic gear pumps are applicable to pumping systems including micro-volume liquid transfer, dosing, lubrication, spraying, dispensing, sampling, coding, pressurization, circulation, coating, painting and metering.

MRV + 150W



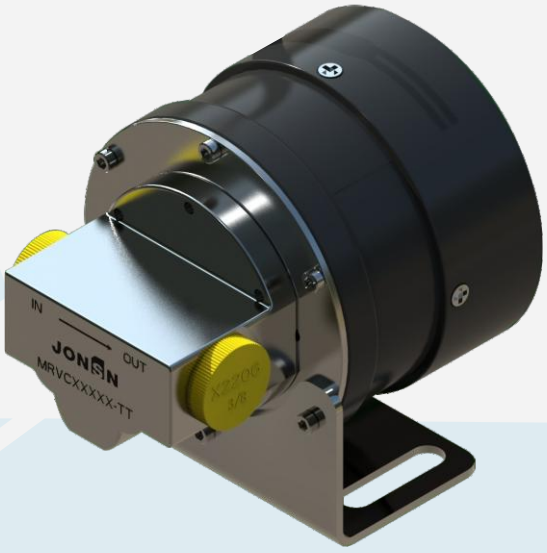
MRV + 150W

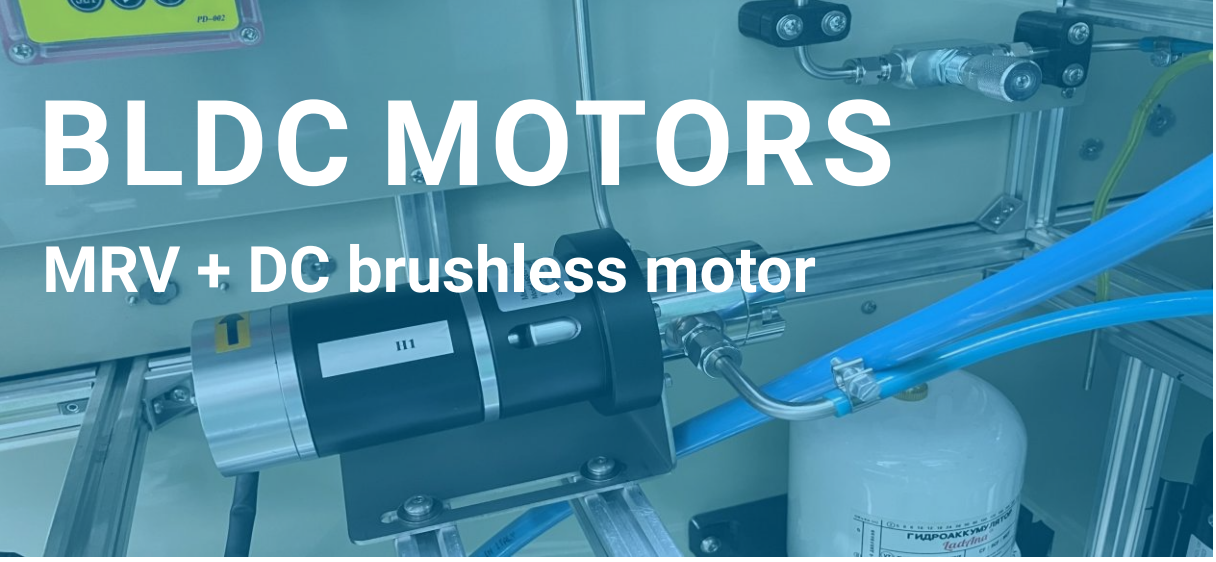


MRV + 150W



MRV + 150W

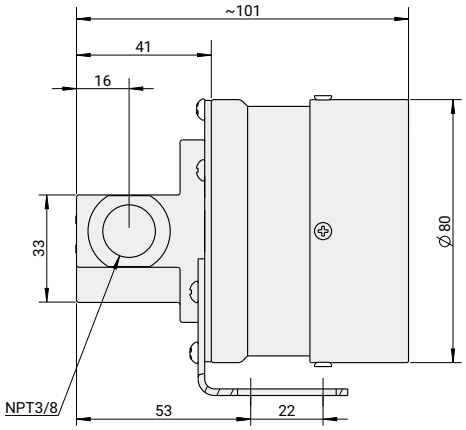


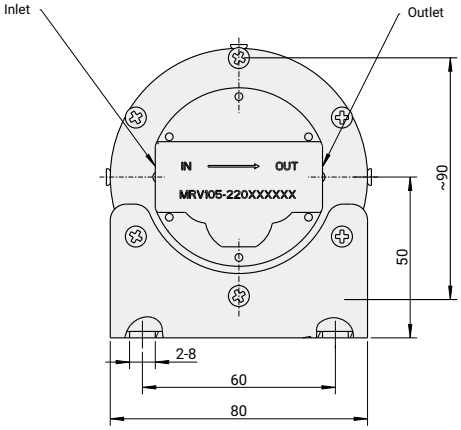


BLDC MOTORS

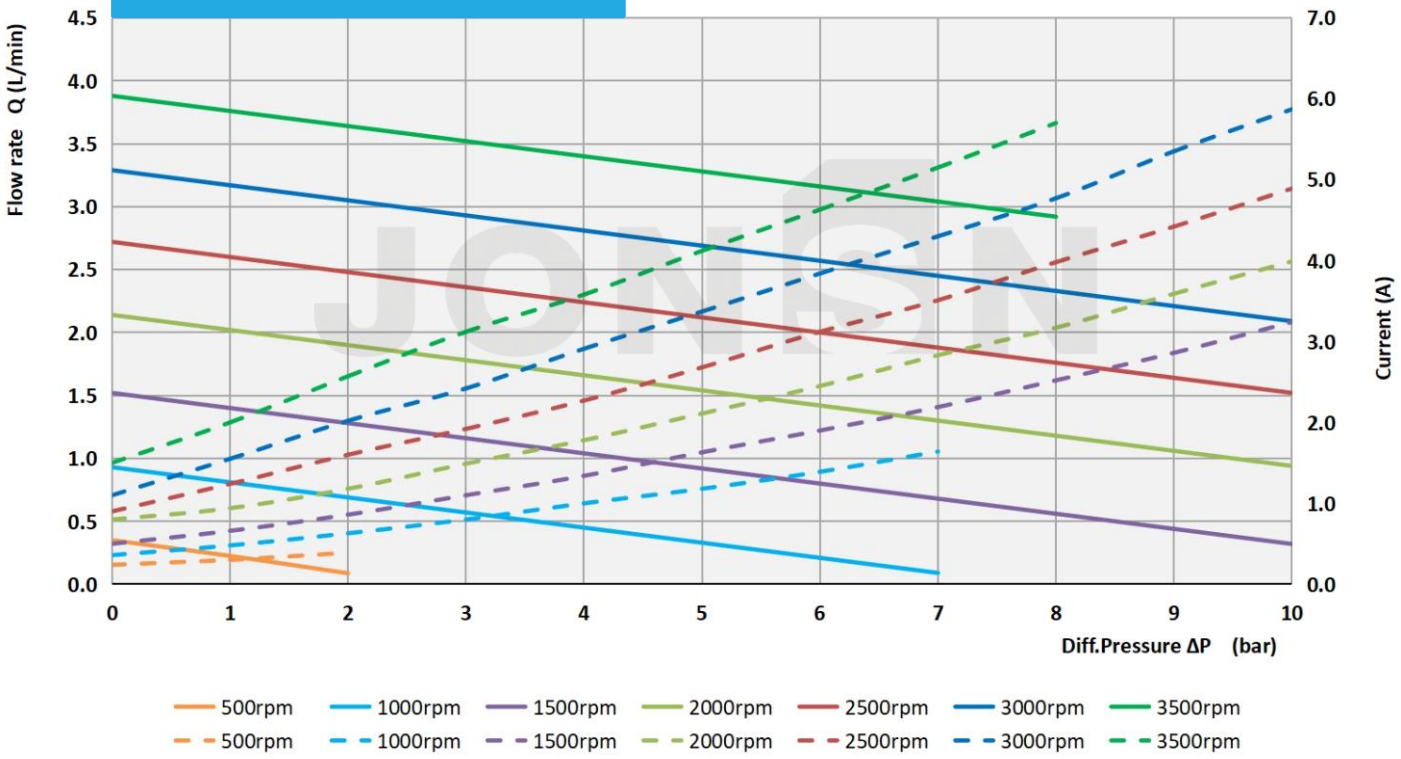
MRV + DC brushless motor

Pump Model	Brushless motor	
MRV125	150w/200w brushless motor	unified dimension
MRV175		
MRV220		

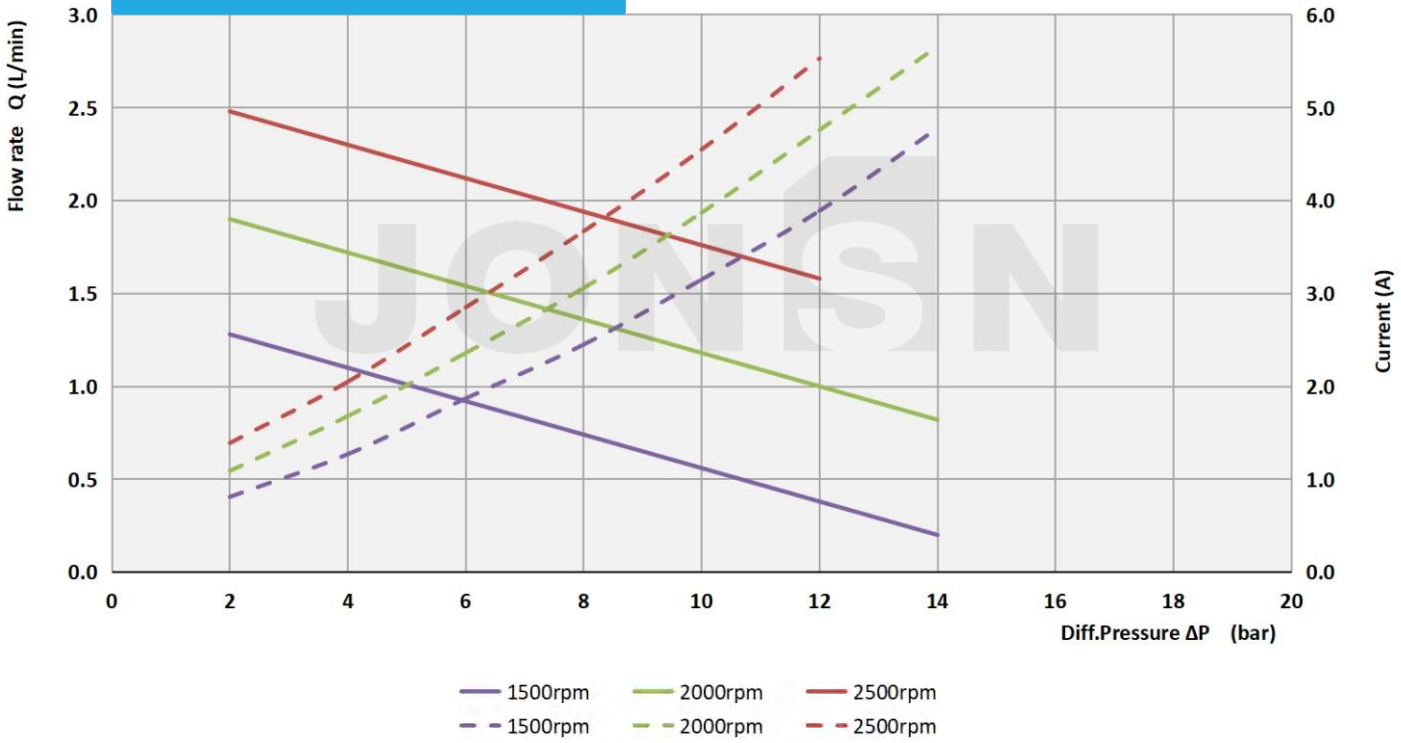




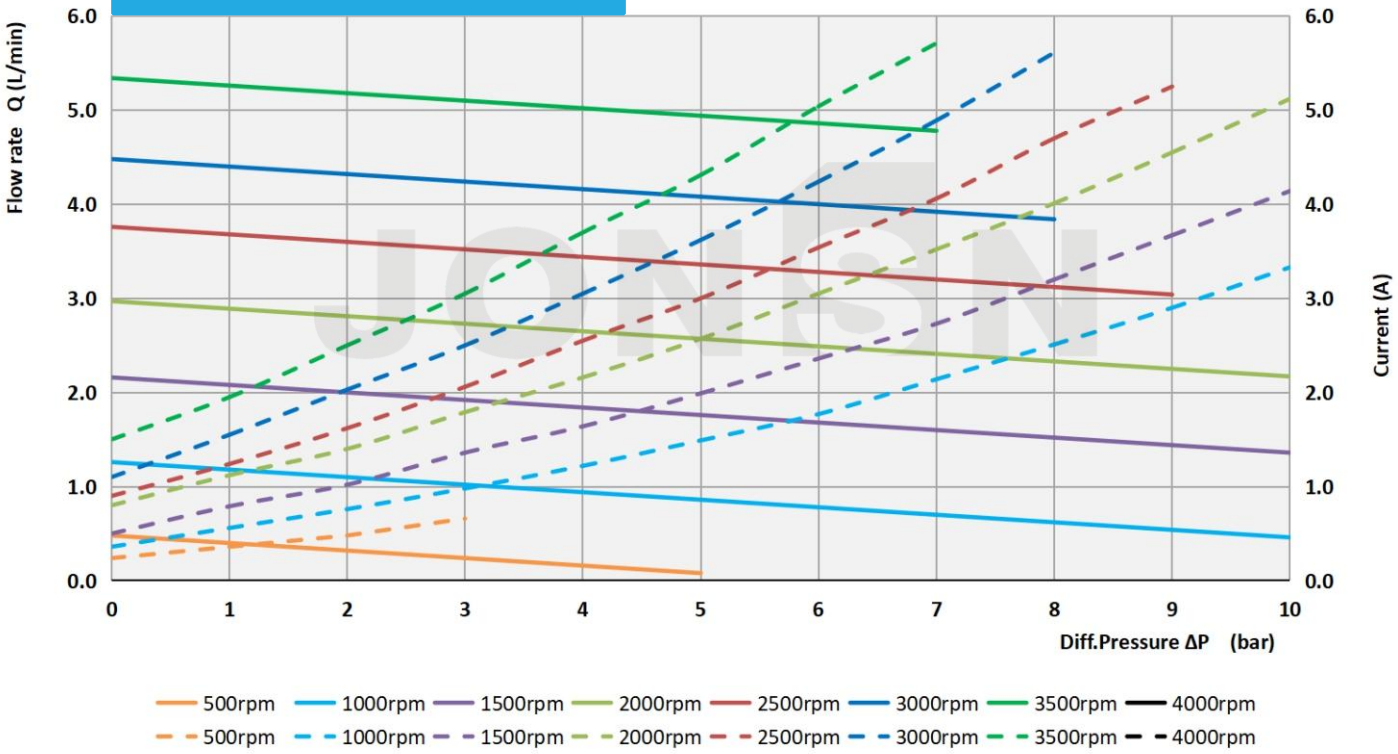
MRV125(24V150W)



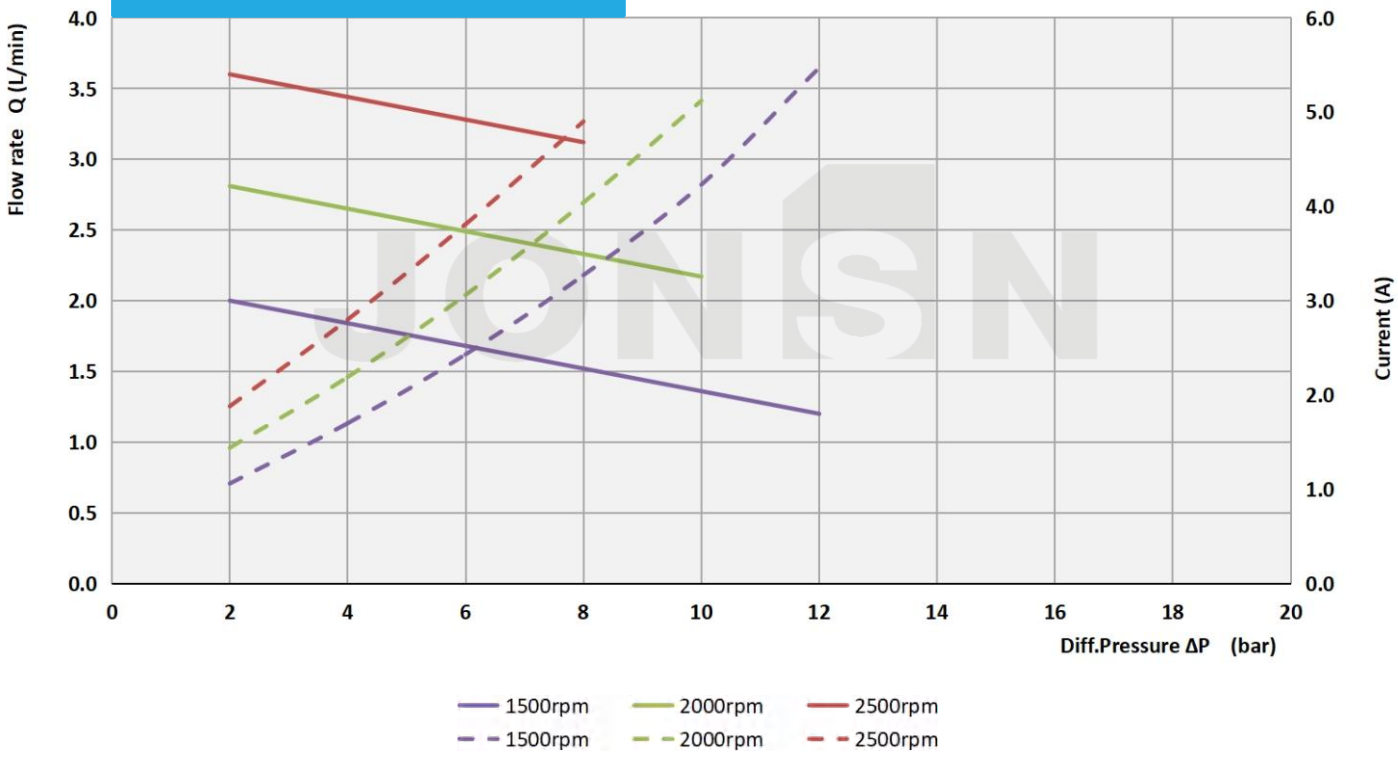
MRV125(24V150W) High pressure



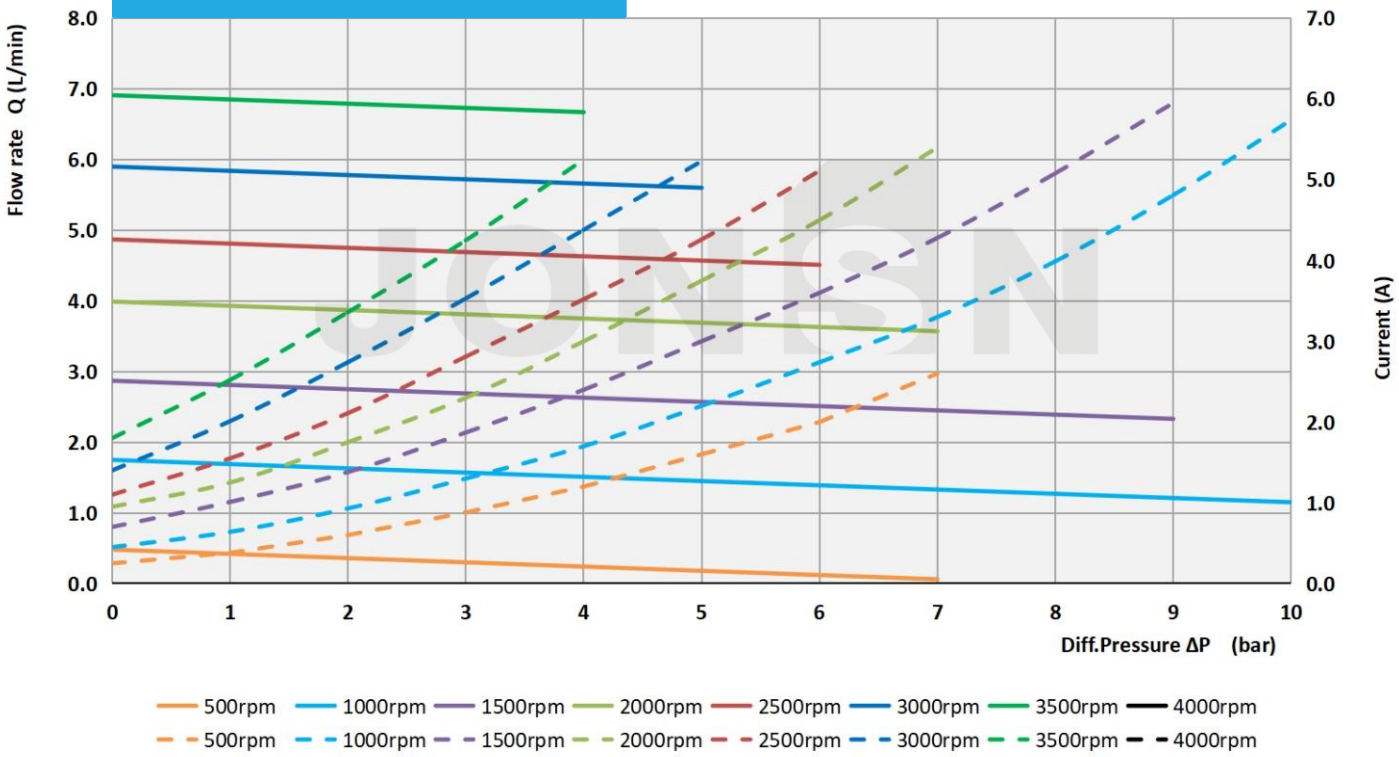
MRV175(24V150W)



MRV175 (24V150W) High pressure



MRV220(24V150W)



JONSN
MICRO GEAR PUMPS

Attentively focus on producing each precision gear pump

■ SHANGHAI JONSN FLUID EQUIPMENT CO., LTD

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