PAQUIN SENSORS
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Peristaltic Pump

- Micro flow delivery ranging from 0 to 2 ml/min
- Compact size
- Supports customizable installation configurations
- Operates on low voltages (DC 3V / 6V / 12V) with power consumption under 2W
- BPT or Silicone tubing with standard 2-roller setup

About

The P162 is a compact DC peristaltic pump designed for precision microfluidic applications. It features a customizable installation layout and uses a brush DC gear motor to drive silicone tubing, providing flow rates ranging from 0 to 2 ml/min. Operating on low voltages (3V, 6V, or 12V DC) and under 2W of power, it delivers low-noise, smooth performance suited to low-pressure systems. With 2 rollers and options for BPT or silicone tubes, it supports continuous, constant-speed liquid delivery in tight spaces.

Applications

- ✓ Medical and Laboratory
- ✓ Environmental Monitoring
- ✓ Food and Beverage
- ✓ Consumer Appliances
- ✓ Industrial Automation
- ✓ And More

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Build Your Part Number

Series P162

Example: P162A6R2ETB15

Series
P162

Flow Rate - *select one*		
	mL/min	Required Tubing Size (See Page 5 for Details)
A	0 ... 0.3	0.5*1.5
B	0.2 ... 1.2	1*2
C	0.6 ... 2	1.5*2.5

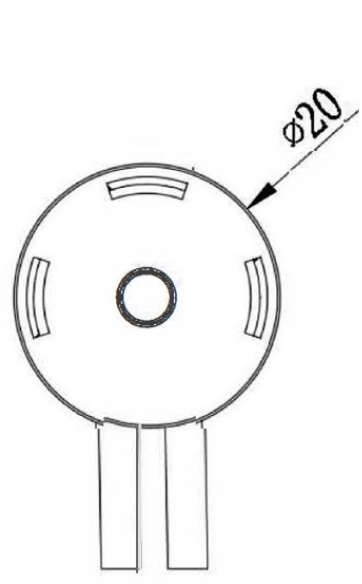
Supply Voltage – *select one*	
3	3 VDC
6	6 VDC
12	12 VDC

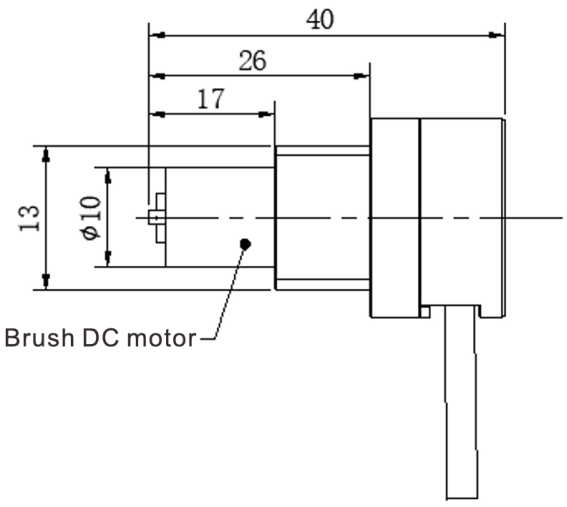
Roller Quantity – *select one*	
R2	2 Rollers (standard)

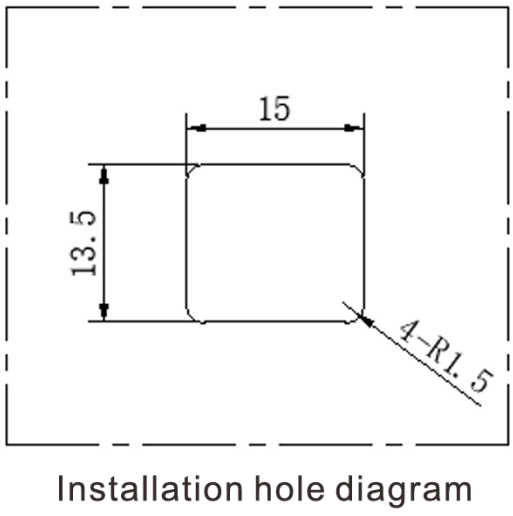
Tubing Connectors – *select one*	
S	Straight
E	Elbow

Tubing Material – *select one (leave blank if tubing is not desired)*	
TB	BPT (FDA, Reach, NSF, RoHS, USP Class VI; -50...+135°C; Can be sterilized by ethylene oxide, high-temp & pressure, or gamma ray
TS	Silicone (FDA, Reach, NSF, RoHS, USP Class VI, Food-Grade SGS, Medical-Grade FDA) -60...+200°C; Can be sterilized by high temp & pressure

Tubing Length – *please inform in meters, in steps of 1 (leave blank if tubing is not desired)*	
XX	Examples: 1 = 1 meter, 3 = 3 meters, 25 = 25 meters







Installation hole diagram

Note: (1) The above flow parameters are tested under the conditions of room temperature 23°C, standard atmospheric pressure, clean water, suction lift 0.2m, lift 0, and no pressure. For reference only. (2) Pump flow rate can be affected by viscosity, density, medium temperature, ambient temperature, inlet and outlet pressure, suction lift and lift of pump. To ensure the accuracy of the pump, it is necessary to keep the above factors without significant changes.

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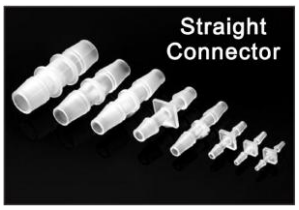
Technical Parameters

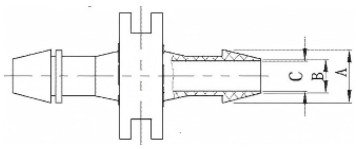
Technical Parameters		
Electrical	Motor Type	Micro brush reduction motor
	Control Method	Power-on operation
	Function	Fixed flow rate
	Working Voltage	3 VDC 6 VDC 12 VDC
	Power	≤2W
Environmental	Function	Constant speed; quantitative supply
	Working Temperature	32°F ... 113°F (0°C ... 45°C)
	Working Relative Humidity	<85% RH
Materials	Installation Method	Rubber Mounting plate (optional)
	Tube Material	Silicone
	Weight	13g

Connectors

Straight Connector

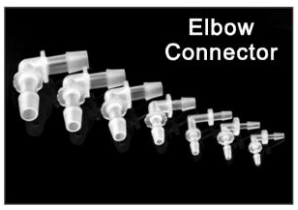
No	Product Name	Dimension A	Dimension B	Dimension C
1	1*3 Straight Connector	2.9	1.7	0.9
2	2*4 Straight Connector	3.2	2.4	1.6
3	3*5 Straight Connector	4.2	3	2
4	4*6 Straight Connector	5.7	4.2	3.5
5	16# Straight Connector	5	3.7	3
6	25# Straight Connector	6.7	5.3	4.3
7	16# Straight Connector (with O ring)	5.2	3.4	3
8	25# Straight Connector (with O ring)	6.5	5.5	4.5
9	17# Straight Connector	8.4	7.1	5.4
10	18# Straight Connector	9.9	8.6	6.9
11	25# Straight Connector (401)	7.5	5.2	4.5
12	17# Straight Connector (401)	8.4	6.1	5.4
13	35# Straight Connector	9.8	6.5	4.6
14	36# Straight Connector	11.2	8.4	6.9

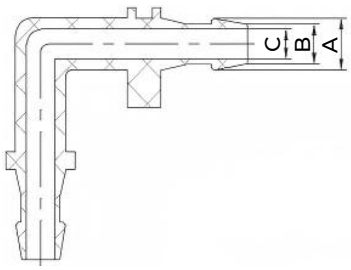




Elbow Connector

No	Product Name	Dimension A	Dimension B	Dimension C
1	18# Lateral Elbow Connector (Left)	9.8	7.4	6.9
2	18# Lateral Elbow Connector (Right)	9.8	7.4	6.9
3	3*5 Elbow Connector	4.2	3	2
4	4*6 Elbow Connector	5.7	4.2	3.5





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Tube Size Table

Tube Sizes				
Image	Tube Number	Inner Diameter (mm)	Outer Diameter (mm)	Wall Thickness (mm)
	0.5*1.5	0.5	1.5	0.5
	1*2	1	2	
	1.5*2.5	1.5	2.5	
	1*3	1	3	1
	2*4	2	4	
	3*5	3	5	
	4*6	4	6	
	14#	1.6	4.8	1.6
	19#	2.4	5.6	
	16#	3.2	6.4	
	25#	4.8	8	
	17#	6.4	9.6	
	18#	7.9	11.1	
	24#	6.4	11.2	2.4
	35#	7.9	12.7	
	36#	9.6	14.4	

Additional Information

Paquin Sensors' product portfolio is designed to provide options to fit the most diverse range of specifications.

We collaborate with our customers to match the best product technologies with your unique application requirements.

Please contact us or call +1 (800) 831-8217 anytime to discuss your needs!