



For accessories, visit  
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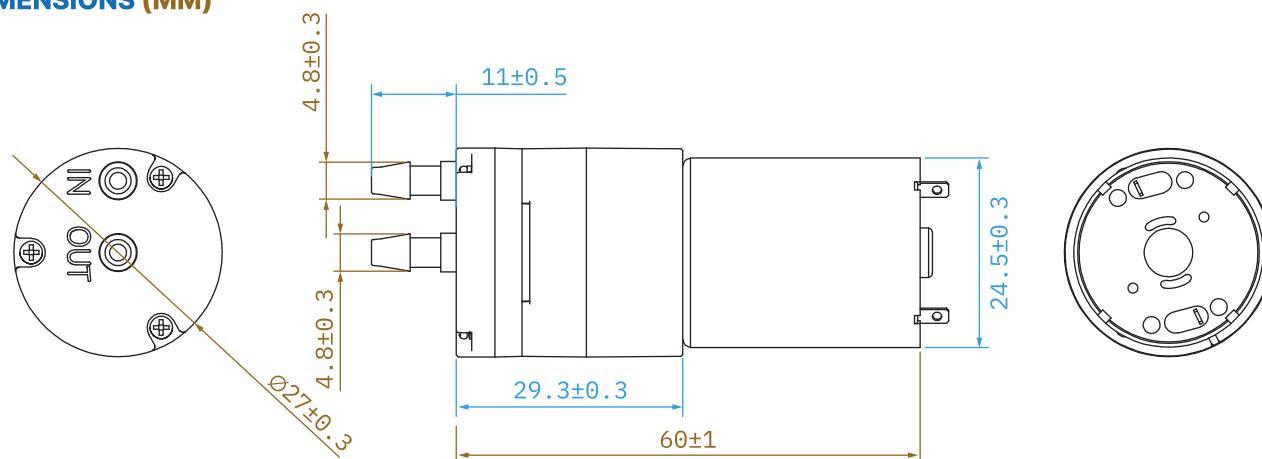
1. High suction lift, self-priming
2. Adjustable speed
3. Fully customizable
4. RoHS / FDA certified models available
5. Temperature-resistant up to 100 °C



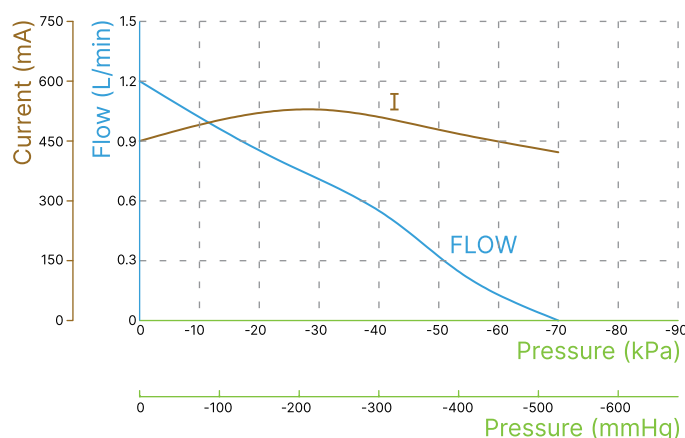
**Medical Medical devices**  
**Food Tea machines, coffee machines & water dispensers**

| SPECIFICATIONS |                    |                                     | Model 1 | Model 2 | Model 3  |
|----------------|--------------------|-------------------------------------|---------|---------|----------|
| 1              | Rated Voltage      | VDC                                 | 3.7     | 6       | 12       |
| 2              | Rated Current      | mA                                  | < 800   | < 700   | < 400    |
| 3              | Flow Rate          | L/min                               | > 0.4   | > 0.4   | > 0.4    |
| 4              | Noise Level        | dB                                  | < 60    | < 60    | < 60     |
| 5              | Estimated Lifetime | cycles                              | 300 hrs | 300 hrs | 300 hrs  |
| 6              | Life Cycle Testing | On 30 sec, off 10 sec for a circle. |         |         |          |
| MATERIALS      |                    |                                     |         |         |          |
| 1              | Valve              |                                     |         |         | EPDM     |
| 2              | Diaphragm          |                                     |         |         | EPDM     |
| 3              | Motor              |                                     |         |         | Brush DC |

## DIMENSIONS (MM)



## FLOW CURVES @6V





1. High suction lift, self-priming
2. Adjustable speed
3. Fully customizable
4. RoHS / FDA certified models available
5. Temperature-resistant up to 100 °C

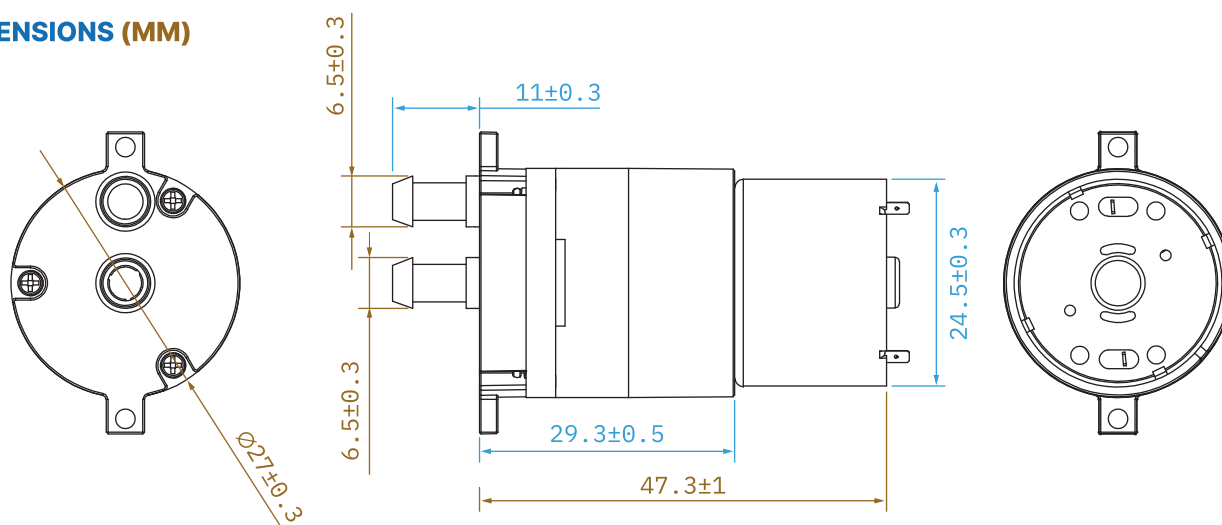


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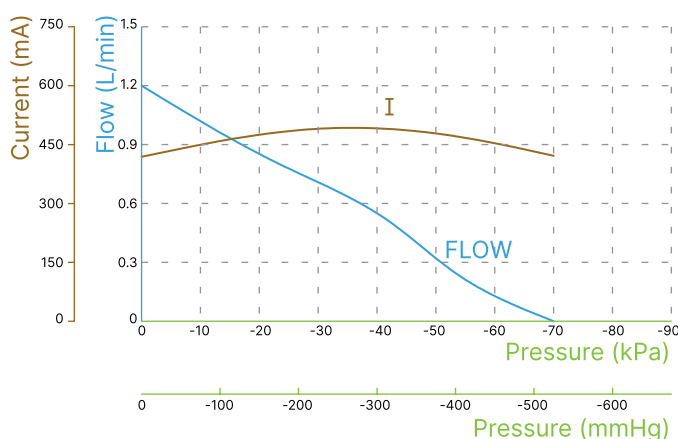
**Medical** Medical devices  
**Food** Tea machines, coffee machines & water dispensers

| SPECIFICATIONS |                    |                                   | Model 1        | Model 2        |
|----------------|--------------------|-----------------------------------|----------------|----------------|
| 1              | Rated Voltage      | VDC                               | 3.7            | 6              |
| 2              | Rated Current      | mA                                | < 900          | < 600          |
| 3              | Flow Rate          | L/min                             | > 0.4          | > 0.4          |
| 4              | Noise Level        | dB                                | < 60           | < 60           |
| 5              | Estimated Lifetime | cycles                            | 100,000 cycles | 100,000 cycles |
| 6              | Life Cycle Testing | On 2 sec, off 2 sec for a circle. |                |                |
| MATERIALS      |                    |                                   |                |                |
| 1              | Valve              | EPDM                              |                |                |
| 2              | Diaphragm          | EPDM                              |                |                |
| 3              | Motor              | Brush DC                          |                |                |

#### DIMENSIONS (MM)



#### FLOW CURVES @6V



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1. Duo-purpose, transferring air and liquid
2. High suction lift, self-priming
3. Adjustable speed with PWM control
4. Ultra-low noise
5. CE / RoHS / LVD certified

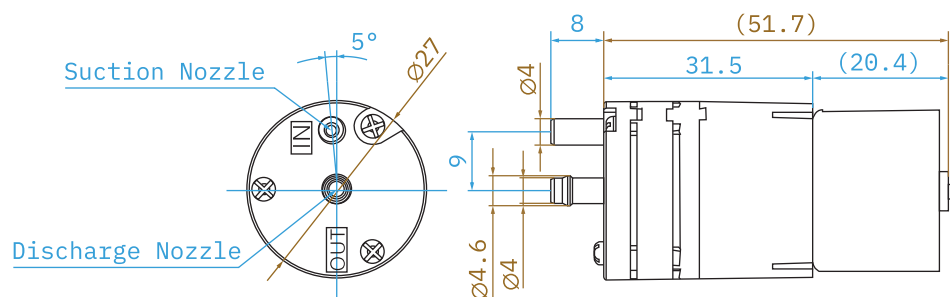


**Medical** Medical devices & blood analyzers  
**Food** Coffee machines & water dispensers

| SPECIFICATIONS |                                                                         | Model 1 |                                 |
|----------------|-------------------------------------------------------------------------|---------|---------------------------------|
| 1              | Rated Voltage                                                           | VDC     | 12 or 24                        |
| 2              | Starting Voltage                                                        | VDC     | ≥ 8                             |
| 3              | Noise Level                                                             | dB      | < 30                            |
| 4              | Estimated Lifetime                                                      | hr      | > 6,000 hrs, continuous testing |
| 5              | Insulation Class                                                        | Class A |                                 |
| 6              | Weight                                                                  | g       | 60                              |
| 7              | Permissible Ambient Temperature                                         | °C      | 5 – 50°C                        |
| 8              | Permissible Ambient Humidity                                            | %       | 0 – 90% RH                      |
| MATERIALS      |                                                                         |         |                                 |
| 1              | EPDM valve, EPDM diaphragm, and BLDC motor with PWM control / FG output |         |                                 |

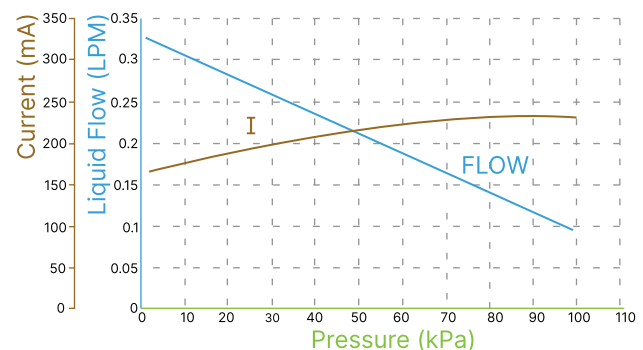
#### DIMENSIONS (MM)

| PIN ARRANGEMENT |         |
|-----------------|---------|
| 1               | GND     |
| 2               | 12V     |
| 3               | FG      |
| 4               | PWM     |
| 5               | CW /CCW |

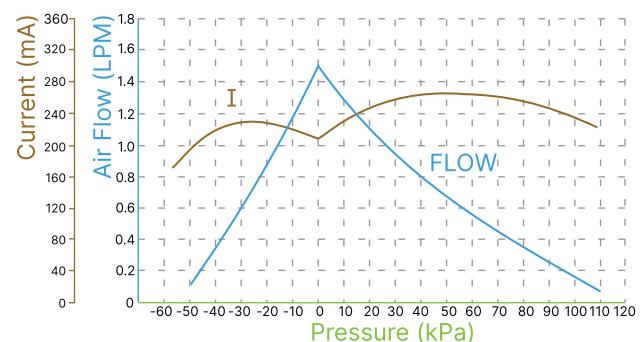


#### FLOW CURVES @12V

| FOR LIQUID |                     |                 |
|------------|---------------------|-----------------|
| 1          | Rated Voltage       | VDC 12          |
| 2          | Liquid Flow         | LPM 0.32 ± 0.05 |
| 3          | Current Consumption | mA 250          |
| 4          | Suction Height      | meter > 2       |
| 5          | Max. Pressure       | kPa > 90        |



| FOR AIR |                     |               |
|---------|---------------------|---------------|
| 1       | Rated Voltage       | VDC 12        |
| 2       | Air Flow            | LPM 1.1 – 1.5 |
| 3       | Current Consumption | mA 320        |
| 4       | Max. Vacuum         | kPa > -40     |
| 5       | Max. Pressure       | kPa > 90      |



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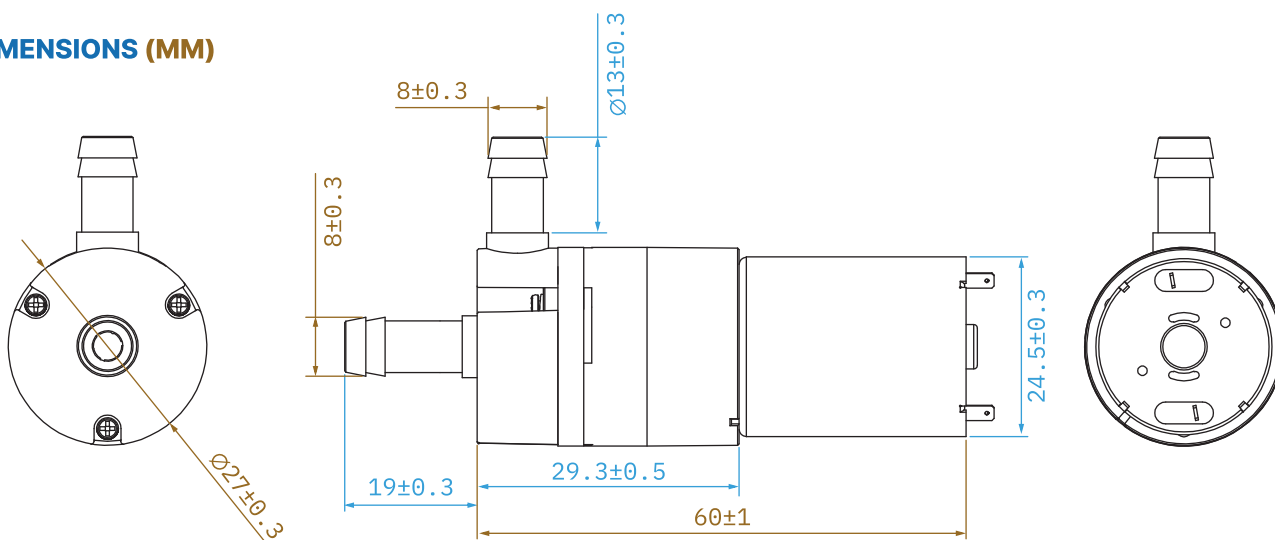


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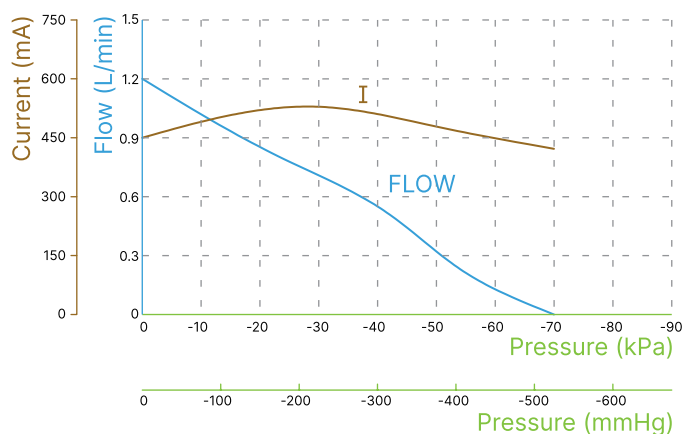
**Medical** Medical devices  
**Food** Tea machines, coffee machines & water dispensers

| SPECIFICATIONS |                    |                                      | Model 1      | Model 2      | Model 3      |
|----------------|--------------------|--------------------------------------|--------------|--------------|--------------|
| 1              | Rated Voltage      | VDC                                  | 3.7          | 6            | 12           |
| 2              | Rated Current      | mA                                   | < 900        | < 600        | < 400        |
| 3              | Flow Rate          | L/min                                | > 0.4        | > 0.4        | > 0.4        |
| 4              | Noise Level        | dB                                   | < 60         | < 60         | < 60         |
| 5              | Estimated Lifetime | cycles                               | 5,000 cycles | 5,000 cycles | 5,000 cycles |
| 6              | Life Cycle Testing | On 120 sec, off 10 sec for a circle. |              |              |              |
| MATERIALS      |                    |                                      |              |              |              |
| 1              | Valve              | EPDM                                 |              |              |              |
| 2              | Diaphragm          | EPDM                                 |              |              |              |
| 3              | Motor              | Brush DC                             |              |              |              |

#### DIMENSIONS (MM)



#### FLOW CURVES @6V



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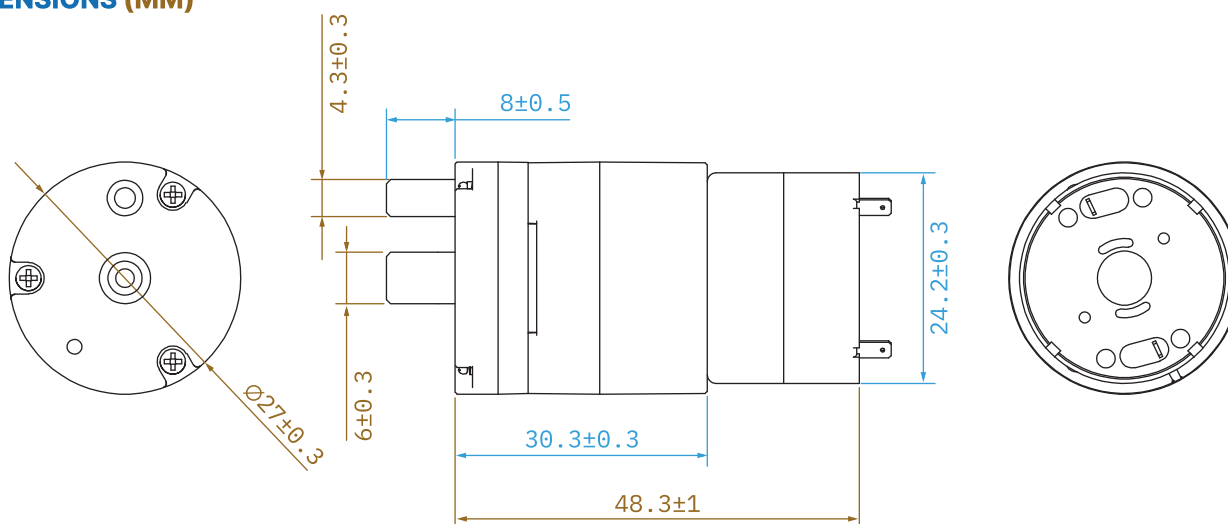
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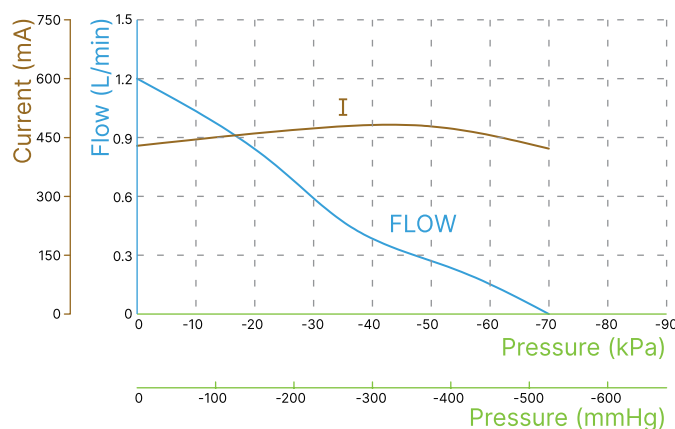
**Household Soap dispensers**

| SPECIFICATIONS |                    |                                   | Model 1        | Model 2        |
|----------------|--------------------|-----------------------------------|----------------|----------------|
| 1              | Rated Voltage      | VDC                               | 3.7            | 6              |
| 2              | Rated Current      | mA                                | < 600          | < 350          |
| 3              | Flow Rate          | L/min                             | 0.06           | 0.06           |
| 4              | Noise Level        | dB                                | < 60           | < 60           |
| 5              | Estimated Lifetime | cycles                            | 100,000 cycles | 100,000 cycles |
| 6              | Life Cycle Testing | On 2 sec, off 2 sec for a circle. |                |                |
| MATERIALS      |                    |                                   |                |                |
| 1              | Valve              | EPDM                              |                |                |
| 2              | Diaphragm          | EPDM                              |                |                |
| 3              | Motor              | Brush DC                          |                |                |

## DIMENSIONS (MM)



## FLOW CURVES @6V





1. High suction lift, self-priming
2. Adjustable speed
3. Fully customizable
4. RoHS / FDA certified models available

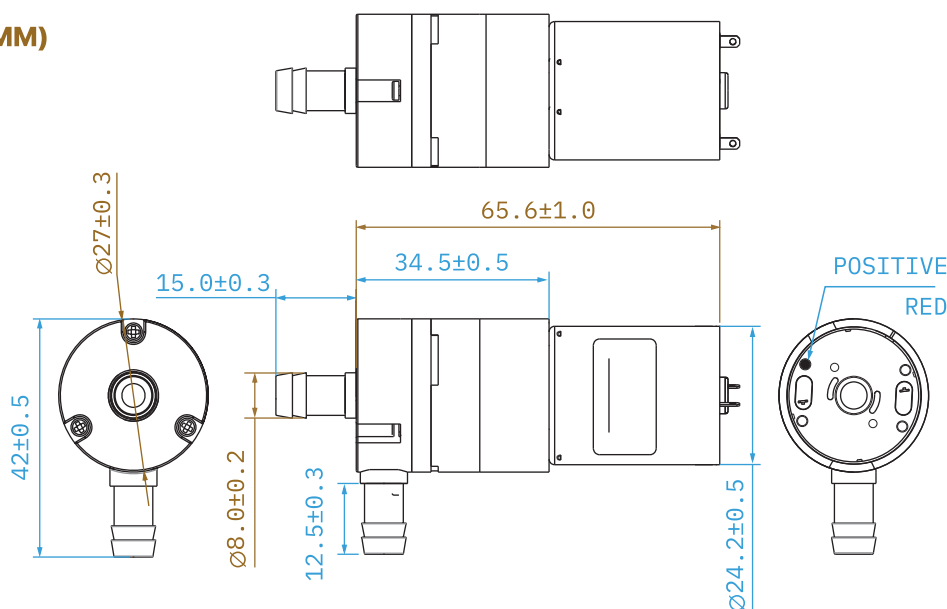


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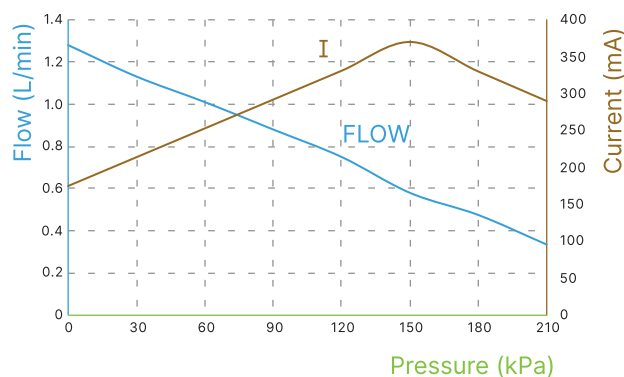
**Medical Medical devices**  
**Food Tea machines, coffee machines & water dispensers**

| SPECIFICATIONS |                    | Model 1                                                   |
|----------------|--------------------|-----------------------------------------------------------|
| 1              | Rated Voltage      | VDC 12                                                    |
| 2              | Rated Current      | mA < 350                                                  |
| 3              | Flow Rate          | L/min > 1.2                                               |
| 4              | Max. Pressure      | kPa > 200                                                 |
| 5              | Noise Level        | dB < 60                                                   |
| 6              | Estimated Lifetime | hr 300 hrs                                                |
| 7              | Life Cycle Testing | On 40 sec, off 20 sec with a suction height of 15 cm @12V |
| MATERIALS      |                    |                                                           |
| 1              | Valve              | EPDM                                                      |
| 2              | Diaphragm          | EPDM                                                      |
| 3              | Motor              | Brush DC                                                  |

#### DIMENSIONS (MM)



#### FLOW CURVES



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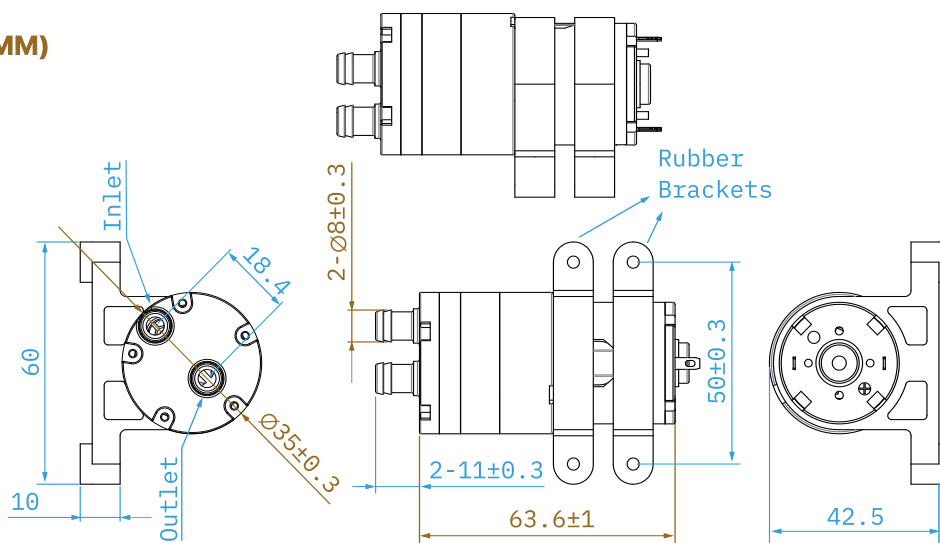
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4. RoHS / FDA certified models available
5. Temperature-resistant up to 100 °C



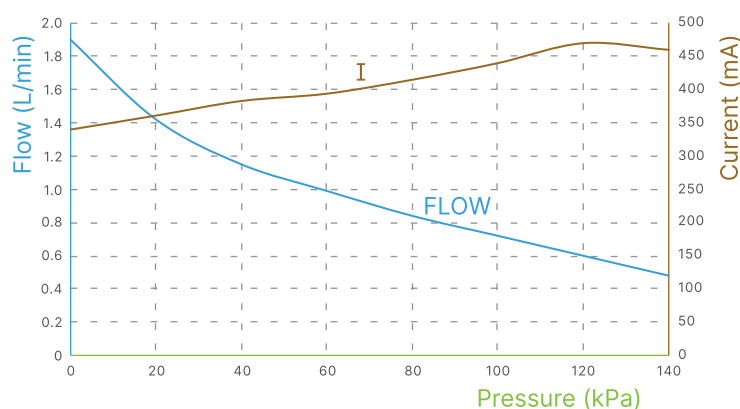
**Medical Medical devices**  
**Food Tea machines, coffee machines & water dispensers**

| SPECIFICATIONS |                    | Model 1                    |
|----------------|--------------------|----------------------------|
| 1              | Rated Voltage      | VDC<br>12                  |
| 2              | Rated Current      | mA<br>< 550                |
| 3              | Flow Rate          | L/min<br>> 1.6             |
| 4              | Max. Pressure      | kPa<br>150                 |
| 5              | Noise Level        | dB<br>< 55                 |
| 6              | Estimated Lifetime | hr<br>500 hrs              |
| 7              | Life Cycle Testing | On 40 sec, off 20 sec @12V |
| MATERIALS      |                    |                            |
| 1              | Valve              | EPDM                       |
| 2              | Diaphragm          | EPDM                       |
| 3              | Motor              | Brush DC                   |

## DIMENSIONS (MM)

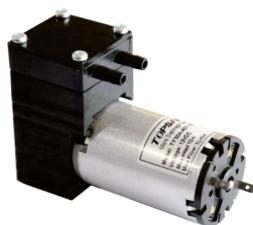


## FLOW CURVES



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1. Self-priming, dry-run safe and 100% oil-free
2. Can be mounted in any position
3. Various motor and material options
4. RoHS-certified



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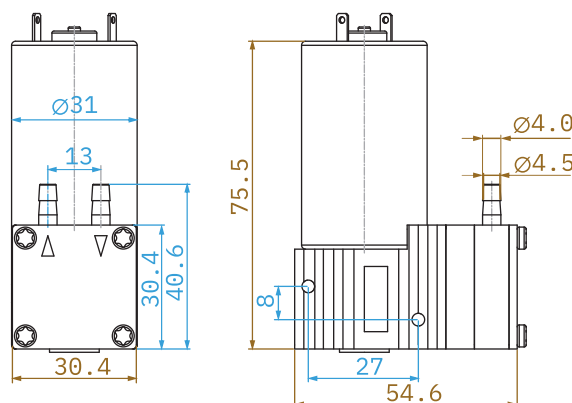
**Medical** Medical devices  
**Lab** Pipettes, explosive, drug & leak detectors  
**Printing** Inkjet printers, copiers, clean station & photo processing equipment  
**Packaging** Marking & labeling equipment, case erectors & packers

| SPECIFICATIONS                     |        | Model 1           | Model 2            |
|------------------------------------|--------|-------------------|--------------------|
| 1 Part No.                         |        | TF30A-A01-12-W101 | TF30A-A01-12-W1006 |
| 2 Rated Voltage                    | VDC    | 12                | 12                 |
| 3 No Load Current                  | A      | ≤ 0.4             | ≤ 0.4              |
| 4 Max. Vacuum                      | kPa    | -60               | -70                |
| 5 Max. Head                        | M      | ≥ 10              | ≥ 10               |
| 6 Flow Rate                        | L/min  | ≥ 1.0             | ≥ 0.6              |
| 7 Noise                            | dBA/1M | 65                | 65                 |
| 8 Estimated Lifetime               | hr     | 3,000 hrs         | 3,000 hrs          |
| 9 Delivery Mode                    |        | Intermittent      | Intermittent       |
| 10 Insulation Class                |        | Class F           | Class F            |
| 11 Weight                          | g      | 220               | 220                |
| 12 Permissible Ambient Temperature | °C     | 5 – 70°C          | 5 – 70°C           |
| 13 Permissible Media Temperature   | °C     | 5 – 60°C          | 5 – 60°C           |

## MATERIALS

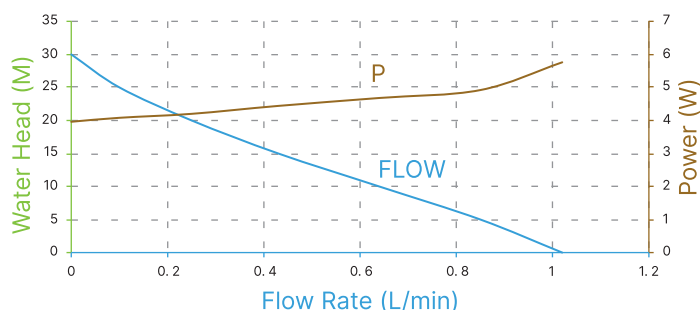
|             |          |
|-------------|----------|
| 1 Pump Head | Nylon    |
| 2 Valve     | EPDM     |
| 3 Diaphragm | EPDM     |
| 4 Motor     | Brush DC |

## DIMENSIONS (MM) TF30A-A01-12-W1006

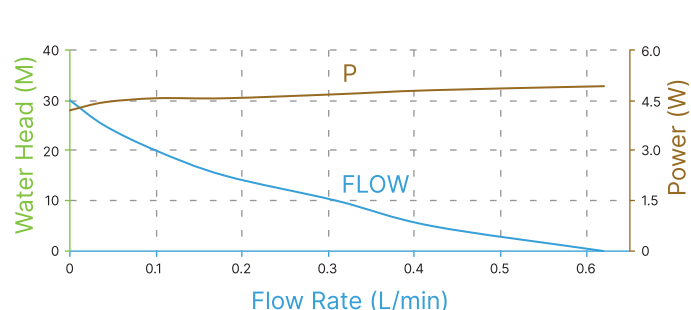


## FLOW CURVES

TF30A-A01-12-W101



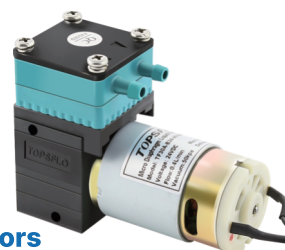
TF30A-A01-12-W1006





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1. Self-priming, dry-run safe and 100% oil-free
2. Can be mounted in any position
3. Various motor and material options
4. RoHS-certified



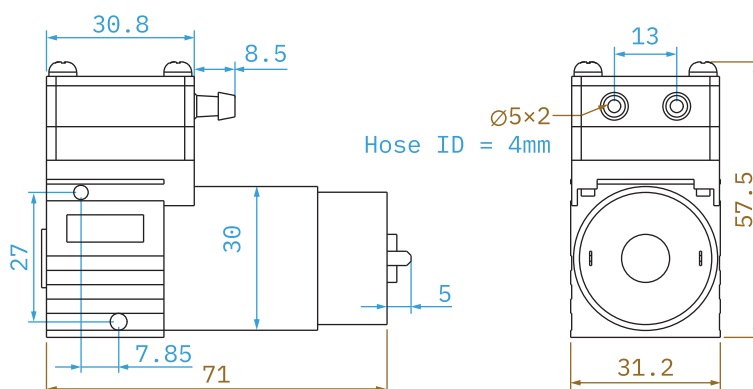
**Medical** Medical devices  
**Lab** Pipettes, explosive, drug & leak detectors  
**Printing** Inkjet printers, copiers, clean station & photo processing equipment  
**Packaging** Marking & labeling equipment, case erectors & packers

| SPECIFICATIONS                     |        | Model 1         |
|------------------------------------|--------|-----------------|
| 1 Part No.                         |        | TF30A-B12-W1004 |
| 2 Rated Voltage                    | VDC    | 6/12/24         |
| 3 No Load Current                  | A      | 0.4/0.24/0.15   |
| 4 Max. Vacuum                      | kPa    | -50             |
| 5 Max. Head                        | M      | ≥ 10            |
| 6 Flow Rate                        | L/min  | ≥ 0.4           |
| 7 Noise                            | dBA/1M | 65              |
| 8 Estimated Lifetime               | hr     | 1,000 hrs       |
| 9 Delivery Mode                    |        | Intermittent    |
| 10 Insulation Class                |        | Class F         |
| 11 Weight                          | g      | 150             |
| 12 Permissible Ambient Temperature | °C     | 5 – 70°C        |
| 13 Permissible Media Temperature   | °C     | 5 – 60°C        |

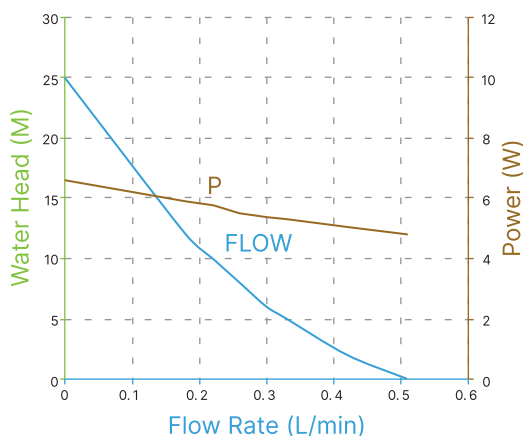
## MATERIALS

|             |          |
|-------------|----------|
| 1 Pump Head | Nylon    |
| 2 Valve     | EPDM     |
| 3 Diaphragm | EPDM     |
| 4 Motor     | Brush DC |

## DIMENSIONS (MM)



## FLOW CURVES



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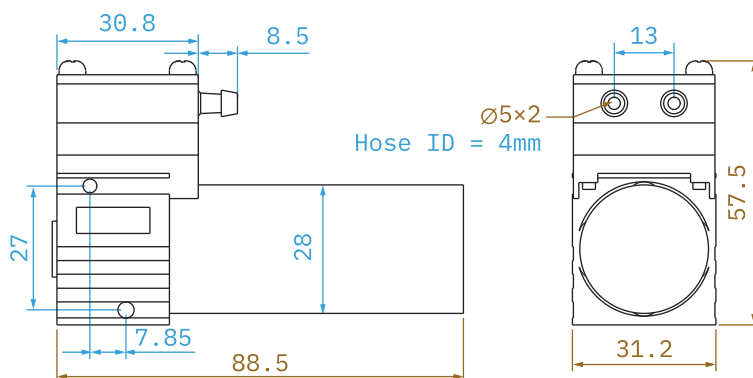
**Medical** Medical devices  
**Lab** Pipettes, explosive, drug & leak detectors  
**Printing** Inkjet printers, copiers, clean station & photo processing equipment  
**Packaging** Marking & labeling equipment, case erectors & packers

| SPECIFICATIONS                     |        | Model 1                 |
|------------------------------------|--------|-------------------------|
| 1 Part No.                         |        | TF30A-C12-W1004         |
| 2 Rated Voltage                    | VDC    | 6/12/24                 |
| 3 No Load Current                  | A      | 0.4/0.24/0.15           |
| 4 Max. Vacuum                      | kPa    | -70                     |
| 5 Max. Head                        | M      | ≥ 10                    |
| 6 Flow Rate                        | L/min  | ≥ 0.4                   |
| 7 Noise                            | dBA/1M | 60                      |
| 8 Estimated Lifetime               | hr     | 15,000 hrs              |
| 9 Delivery Mode                    |        | Intermittent/Continuous |
| 10 Insulation Class                |        | Class F                 |
| 11 Weight                          | g      | 250                     |
| 12 Permissible Ambient Temperature | °C     | 5 – 70°C                |
| 13 Permissible Media Temperature   | °C     | 5 – 60°C                |

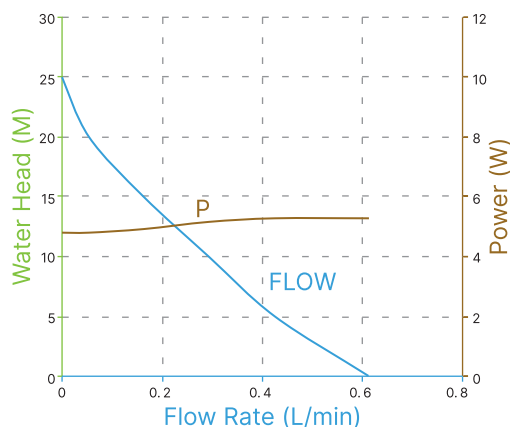
## MATERIALS

|             |           |
|-------------|-----------|
| 1 Pump Head | Nylon     |
| 2 Valve     | EPDM/FPM  |
| 3 Diaphragm | EPDM/PTFE |
| 4 Motor     | BLDC      |

## DIMENSIONS (MM)



## FLOW CURVES



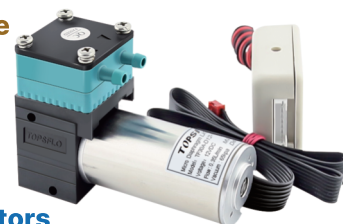
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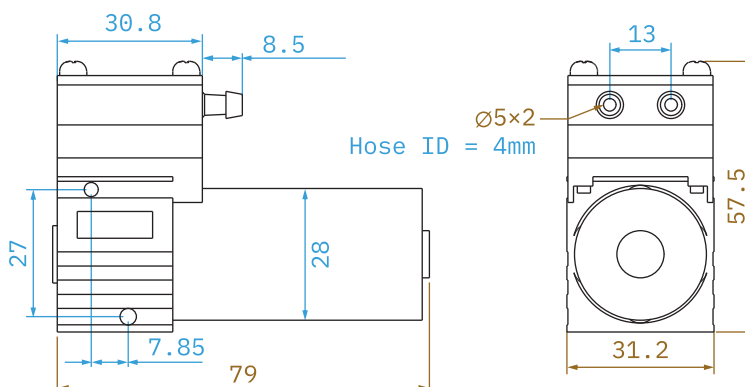
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**Lab** Pipettes, explosive, drug & leak detectors  
**Printing** Inkjet printers, copiers, clean station & photo processing equipment  
**Packaging** Marking & labeling equipment, case erectors & packers

| SPECIFICATIONS                     |        | Model 1                 |
|------------------------------------|--------|-------------------------|
| 1 Part No.                         |        | TF30A-D12-W1004         |
| 2 Rated Voltage                    | VDC    | 6/12/24                 |
| 3 No Load Current                  | A      | 0.4/0.24/0.15           |
| 4 Max. Vacuum                      | kPa    | -70                     |
| 5 Max. Head                        | M      | ≥ 10                    |
| 6 Flow Rate                        | L/min  | ≥ 0.4                   |
| 7 Noise                            | dBA/1M | 60                      |
| 8 Estimated Lifetime               | hr     | 15,000 hrs              |
| 9 Delivery Mode                    |        | Intermittent/Continuous |
| 10 Insulation Class                |        | Class F                 |
| 11 Weight                          | g      | 260                     |
| 12 Permissible Ambient Temperature | °C     | 5 – 70°C                |
| 13 Permissible Media Temperature   | °C     | 5 – 60°C                |

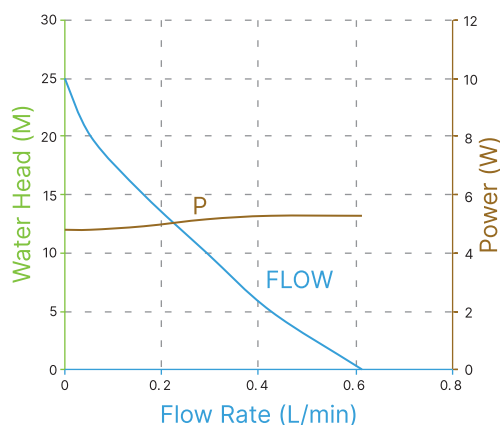
## MATERIALS

|             |           |
|-------------|-----------|
| 1 Pump Head | Nylon     |
| 2 Valve     | EPDM/FPM  |
| 3 Diaphragm | EPDM/PTFE |
| 4 Motor     | BLDC      |

## DIMENSIONS (MM)

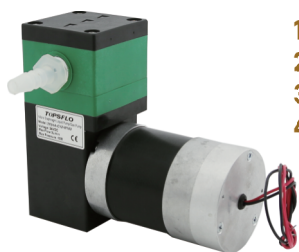


## FLOW CURVES



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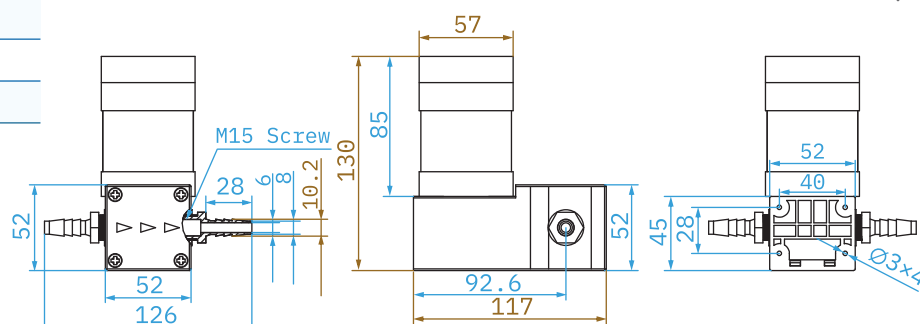
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Lab Pipettes, explosive, drug & leak detectors  
**Printing** Inkjet printers, copiers, clean station & photo processing equipment  
**Packaging** Marking & labeling equipment, case erectors & packers

| SPECIFICATIONS                     |        | Model 1                 |
|------------------------------------|--------|-------------------------|
| 1 Part No.                         |        | TF51A-C12-W103          |
| 2 Rated Voltage                    | VDC    | 12/24                   |
| 3 No Load Current                  | A      | 1.0/0.65                |
| 4 Max. Vacuum                      | kPa    | -40                     |
| 5 Max. Head                        | m      | ≥ 10                    |
| 6 Flow Rate                        | L/min  | ≥ 3.0                   |
| 7 Noise                            | dBA/1M | 60                      |
| 8 Estimated Lifetime               | hr     | 15,000 hrs              |
| 9 Delivery Mode                    |        | Intermittent/Continuous |
| 10 Insulation Class                |        | Class F                 |
| 11 Weight                          | g      | 900                     |
| 12 Permissible Ambient Temperature | °C     | 5 – 70°C                |
| 13 Permissible Media Temperature   | °C     | 5 – 60°C                |

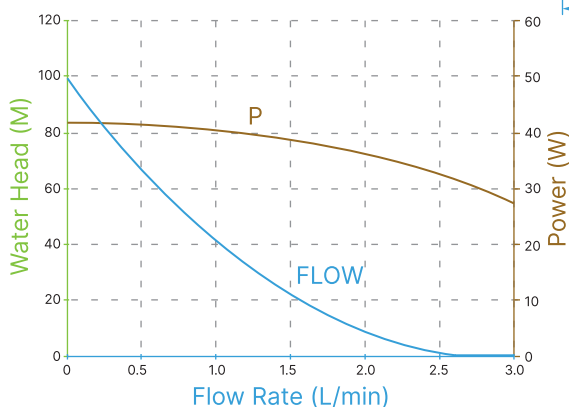
## MATERIALS

|             |           |
|-------------|-----------|
| 1 Pump Head | Nylon     |
| 2 Valve     | EPDM/FPM  |
| 3 Diaphragm | EPDM/PTFE |
| 4 Motor     | BLDC      |

## DIMENSIONS (MM)



## FLOW CURVES



Specifications are subject to change without prior notice.

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