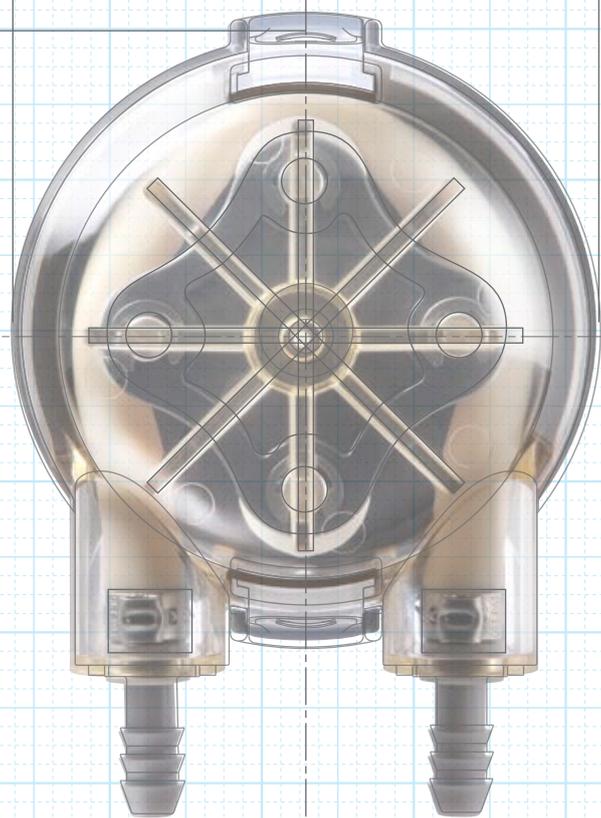


Pump Your Needs.

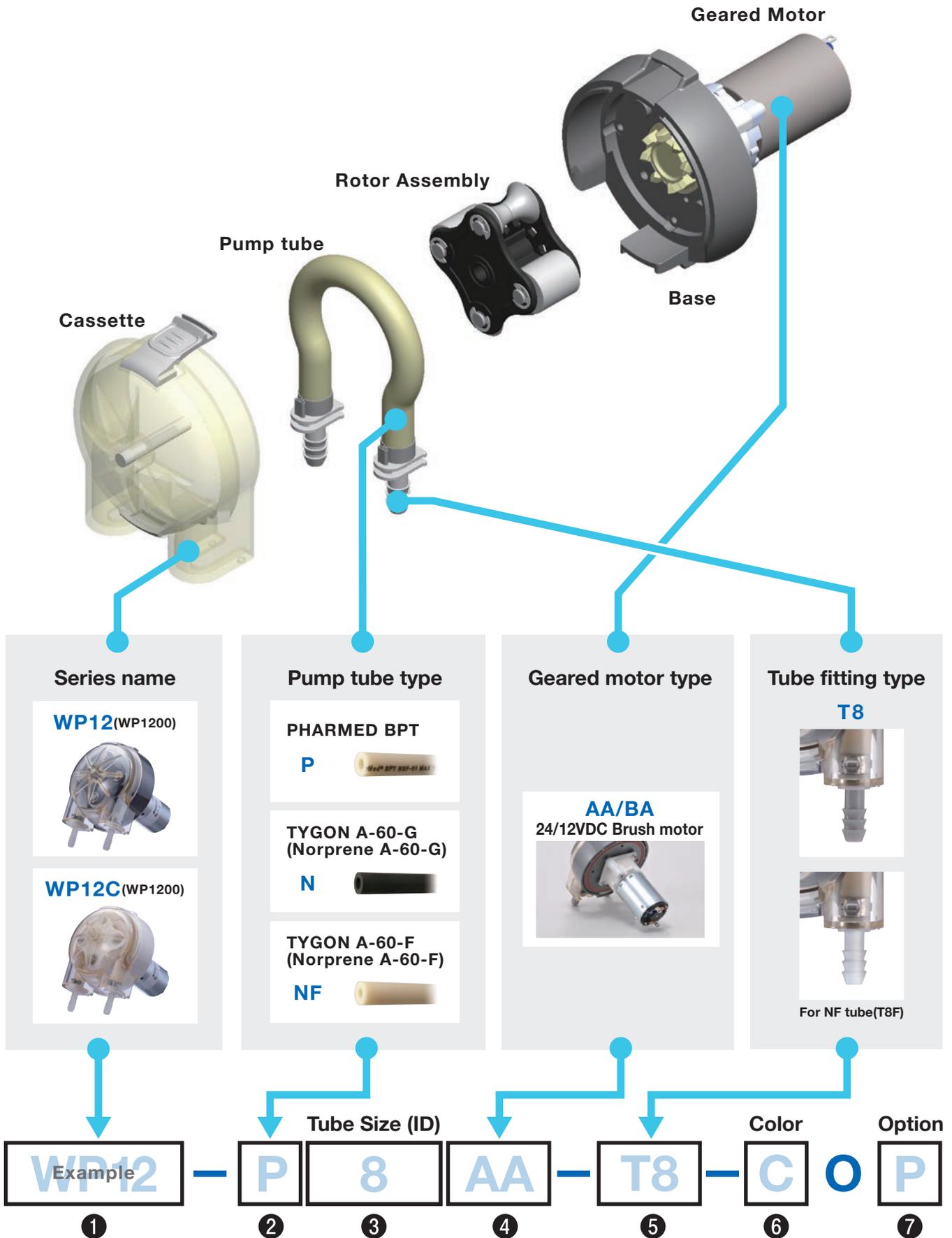


**WELCO's easy ordering system  
can match the best product to the customer's needs**

# **WP1200 PERISTALTIC PUMP SELECTION GUIDE**

A specification of WELCO Peristaltic pumps can be determined by many combination of parts.

Please select each parts according to your requirement.



## 2 Pump tube type: Material (Selectable according to fluid type)

WP12 - P 8 - - - O

↑ ↑

| Tube type   | Product Description  | Regulatory compliance/meets               |
|---|--|---|
| <b>PHARMED BPT</b><br><b>P</b>                         | *Great resistant to general chemicals, acid, alkali and oxidizing agents<br>*Compatible with virtually all commercial cleaners and sanitizers<br>*Lasts up to 30 times longer than silicone tubes.   | USP Class VI                              |
| <b>TYGON A-60-G</b><br>(Norprene A-60-G)<br><b>N</b>   | *Lasts and perform better than EPDM and other speciality rubber tubes<br>*Ozone and UV Light resistant<br>*Applicable to soap and disinfectant dispensing, printing ink transfer, and etc...   | -   |
| <b>TYGON A-60-F</b><br>(Norprene A-60-F)<br><b>NF</b>  | *Food process tube for critical processing applications in the food, dairy and cosmetic industries.<br>*Compatible with virtually all commercial cleaners and sanitizers<br>*Great resistant to general chemicals, acid, alkali and oxidizing agents | FDA 21 CFR Part 177.2600<br>NSF 51<br>3-A |

Note: Pharmed, Tygon (Norprene) are manufactured by Saint-Gobain Group.

## 3 Flow amount benchmark (flow amount per rotation)

|                          |            |          |
|--------------------------|------------|----------|
| Tube inner diameter (mm) | <b>7.9</b> | <b>8</b> |
| Available tube material  | N, NF      | P        |
| Wall thickness (mm)      | 2.38       | 2.0      |
| Flow amount (ml/rev)     | 5.9        | 5.25     |

Caution: The above table describes the initial benchmark flow amounts during water suction. This may vary considerably depending on the tube type, use period, ambient temperature, and lot tolerances, etc. Measure the specifications with reasonable leeway.

# 4 Gear motor types



WP12 - P 8 AA - [ ] - [ ] 0 [ ]

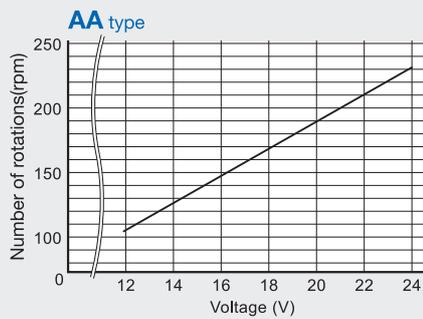
## DC Brush Motor & Gear

### Geared motor Specification

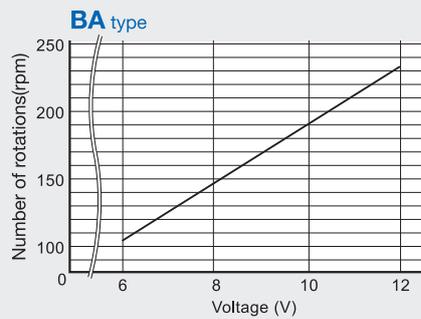
|                             |                        |                   |
|-----------------------------|------------------------|-------------------|
| Geared motor model          | AA type                | BA type           |
| Rated voltage               | DC24V                  | DC12V             |
| RPM (load: 400mNm)          | 230rpm(24V input)      | 230rpm(12V input) |
| Recommended voltage         | 12V-24V                | 6V-12V            |
| Consumption current         | 1.0A                   | 2.0A              |
| Rotaly Direction            | CW,CCW                 |                   |
| Motor operating temperature | less than 70°C (158°F) |                   |
| Motor Insulation class      | A                      |                   |

Caution: The consumption current described above is the value during normal operations. An approximately threefold inrush current occurs during rotation startup.  
Available operating time: continuously Max 5 min, OFF Duty 50%.

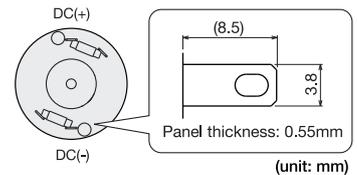
### 24VDC Brush Motor & Gear



### 12VDC Brush Motor & Gear



### Motor wiring and terminal dimensions diagrams



Caution: Short circuit between terminals may occur due to end of motor life or short circuit between commutator slits by specific operating environment and condition. In order to prevent circuit burnout, please take protective measures such as using fuses.

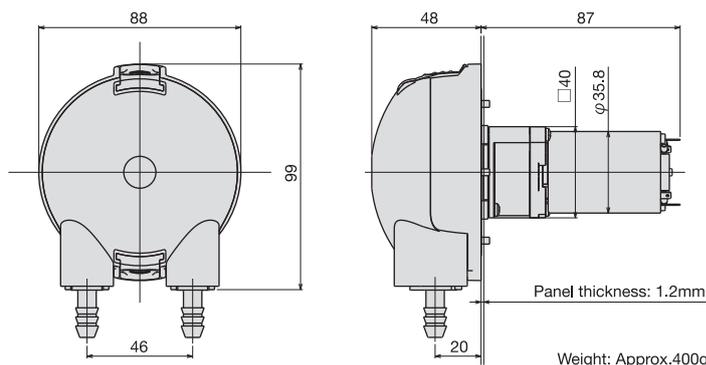
### Flow amount benchmark (flow amount per rotation)

|                          |       |      |
|--------------------------|-------|------|
| Tube inner diameter (mm) | 7.9   | 8    |
| Available tube material  | N, NF | P    |
| Wall thickness (mm)      | 2.38  | 2.0  |
| Flow amount (ml/rev)     | 5.9   | 5.25 |

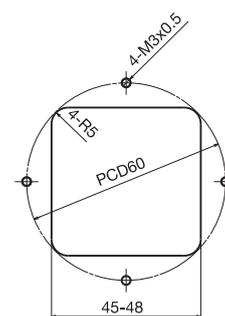
Caution: The above table describes the initial benchmark flow amounts during water suction. This may vary considerably depending on the tube type, use period, ambient temperature, and lot tolerances, etc. Measure the specifications with reasonable leeway.

## Dimensions (unit: mm)

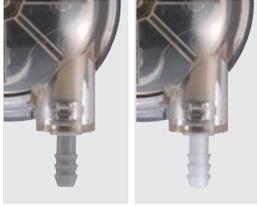
• WP12 - [ ] [ ] AA • WP12 - [ ] [ ] BA



### ■Cutting hole dimensions



## 5 Tube fitting type: Descriptions & Sizes



For NF tube(T8F)

Barbed type. Inserted directly into hose and used.

### T8

- Available pump tube sizes (ID)  
7.9mm or 8mm
- Connectable hose sizes (ID)  
8.0mm (Nylon or Polyethylene)

WP12 - P 8 AA - T8 - O

\*Please use sort of clamp band in order to avoid the hose slipping out.  
\*Clamp band is not included in accessories.

## 6 Color variation

A 5-color lineup that can be classified for use according to the type of liquids used



C: Clear



B: Blue



Y: Yellow



R: Red



G: Green

WP12 - P 8 AA - T8 - C O

## 7 Using an optional panel

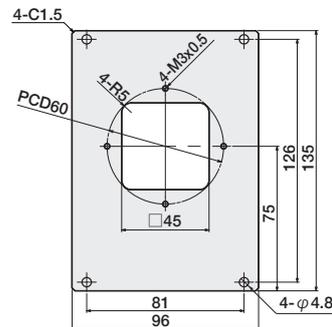
WP12 - P 8 AA - T8 - C O P

P: with bracket

N or Blank: without bracket



### Option bracket dimensions (unit: mm)



Thickness: 1.2mm  
Material properties: SUS304

## General specifications

|                                 |  |
|---------------------------------|--|
| Recommended installation height | 1.5 meter (4.9 ft.) max (Water suction)  |
| Liquid temperature range        | 5-50°C (41 to 122°F)   |
| Environment temperature range   | 0-50°C (32 to 122°F) (Note: Freezing must be prevented.)   |
| Ambient humidity range          | 20-80% RH (Note: Condensation must be prevented.)  |
| Certifications&Approvals        |      |

## Precautions

1. When selecting a tube, the customer should perform a verification test to verify the chemical suitability according to the usage environment and the intended application.
2. Regardless of the pump tube type, the phenomenon of peeling from inside of the tube starts with small amounts.
3. This product was not designed for medical use. Do not use for medical applications.
4. This product is not waterproof. If using in water-filled environments, design to protect against water.
5. Numerical data listed in this catalog reflect conditions measured over short periods of time. Their accuracy for long-term use is not assured.
6. There is a tendency for the flow rate to increase until the tube becomes acclimated, and even among the same model, different lots may have different flow rates within the specified tolerances. Also, the rotating speed of the DC motor may fluctuate depending on the load conditions and changes in the motor temperature. During the design stage, be sure to select a motor with ample capacity.



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Please see the web site to get more detailed information. <http://www.welco.net>

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