



**Pan World**

# **SEALLESS MAGNETIC DRIVE PUMPS**

LEADER IN LEAK-FREE TECHNOLOGY





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## ABOUT PAN WORLD

### **Magnetic-Driven Pump Manufacturer Seeking Global Partners**

Since 1992, Pan World has specialized in high-quality magnetic drive pumps, combining Japanese precision with Taiwan's efficient manufacturing. With headquarters in Japan and a production facility in Taiwan, we ensure stable, reliable products for worldwide markets.

### **Commitment to Quality**

Quality is our priority. We source materials from Japan and assemble our pumps in Taiwan, adhering to international standards such as ISO 9001:2015, UL, JIS, and CE-EU. Our pumps are engineered to support various voltages and standardized pipe connections for global compatibility.

### **Fast and Reliable Delivery**

Our optimized production system and inventory management enable us to fulfill orders swiftly—typically within 3 to 4 weeks—ensuring timely delivery for our customers.

### **Durable and Cost-Effective Solutions**

Specializing in chemical-resistant applications, we offer a wide range of corrosion-resistant materials to provide durable, high-performance solutions. Our efficient design ensures competitive pricing without compromising quality.

### **Flexible and Customer-Oriented Service**

With in-house engineering and production capabilities, we adapt quickly to market demands and customer requirements, delivering dependable products and responsive support to build long-term global partnerships.

## PX Series (Glass fiber-reinforced PP)

### Compact Magnetic Drive Pump for OEM Applications

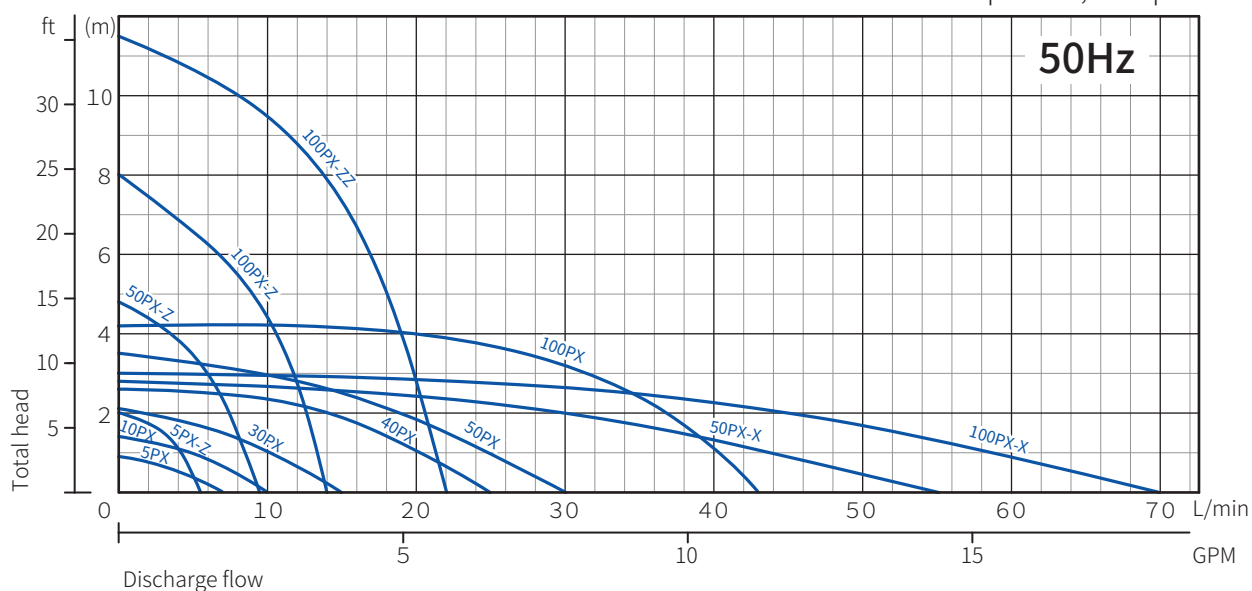
- Designed for OEM and general applications with 15 models available.
- Equipped with durable ceramic bearings and spindles.
- Offers hose, threaded, or union connection options.

|                      |                             |
|----------------------|-----------------------------|
| Materials in Contact | : Glass fiber-reinforced PP |
| Max Flow             | : 80 L/min                  |
| Max Head             | : 13.5 m                    |
| Liquid Temp.         | : 0°C~60°C                  |
| Motor Power          | : 2.5 W to 65 W             |

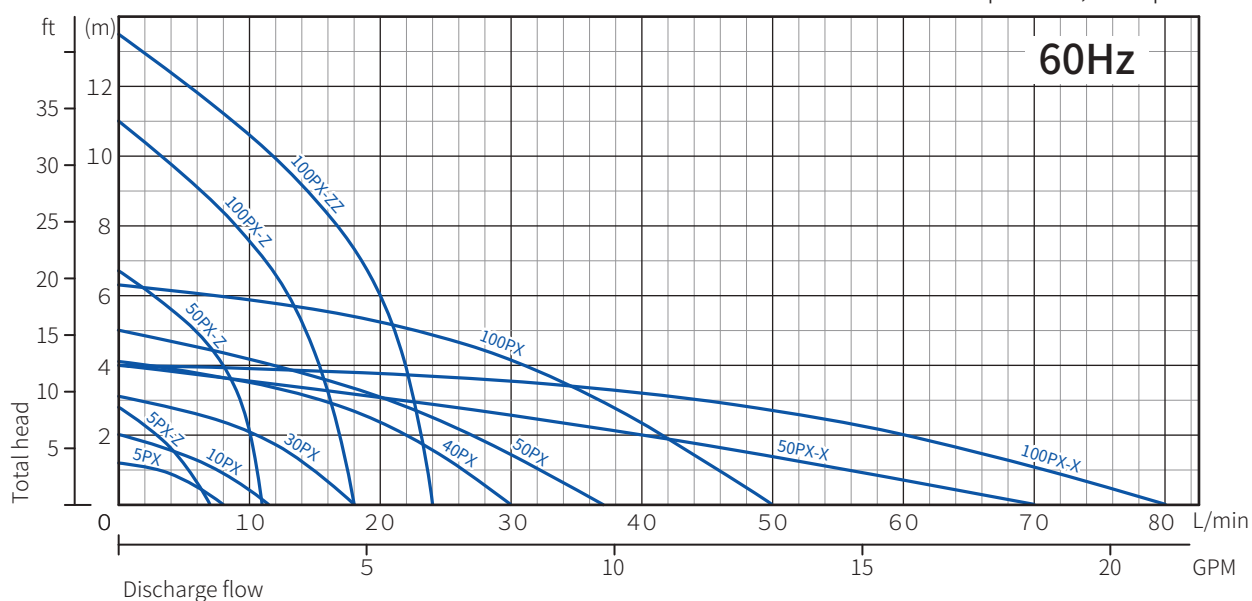


### ■ Pump performance curve

Nominal speed : 2,860 r.p.m



Nominal speed : 3,400 r.p.m



## PX-N Series (Natural)

## PX-F Series (Carbon fiber-reinforced ETFE)

### Compact Magnetic Drive Pump for Semiconductor Applications

- PVDF natural wetted-end with ceramic or SiC bearings and spindles.
- 15 models tailored for semiconductor use with standard connection options including hose, threaded, or union types.

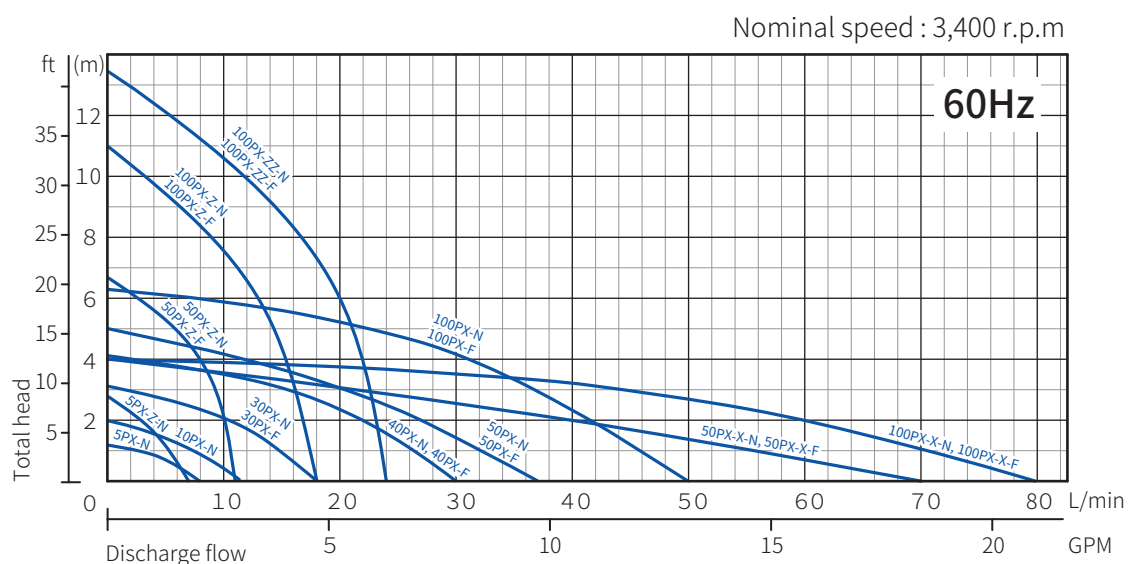
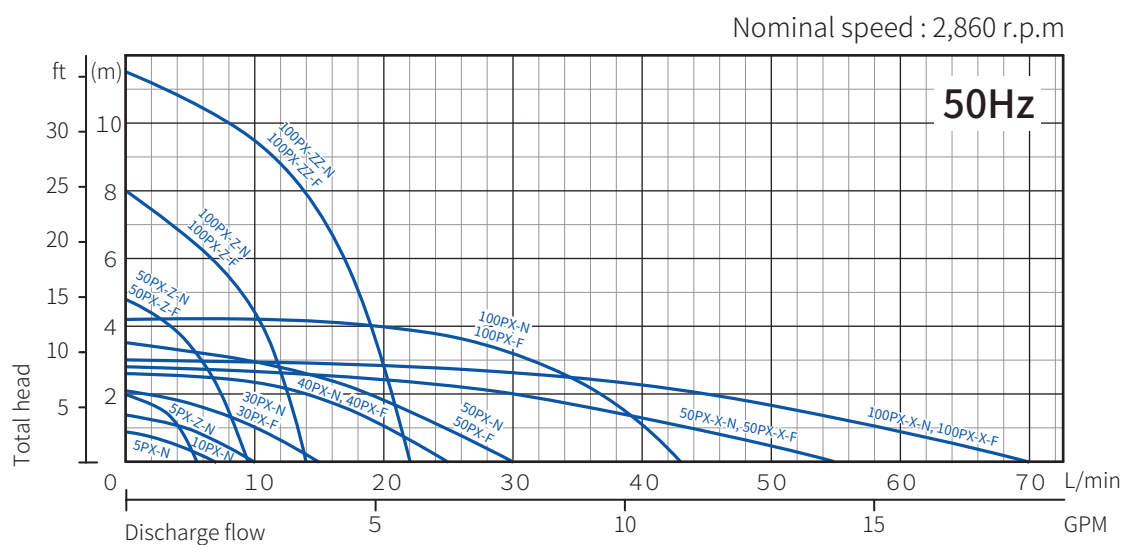
### Compact Magnetic Drive Pump for Hazardous Chemical Transfer

- ETFE wetted-end for handling of hazardous chemicals.
- 9 models with hose, threaded, or union connections.

| Model                | PX-N            | PX-F         |
|----------------------|-----------------|--------------|
| Materials in Contact | : PVDF natural  | ETFE         |
| Max Flow             | : 80 L/min      | 80 L/min     |
| Max Head             | : 13.5 m        | 13.5 m       |
| Liquid Temp.         | : 0°C~80°C      | 0°C~90°C     |
| Motor Power          | : 2.5 W to 65 W | 10 W to 65 W |



### ■ Pump performance curve



# PX / PX-N / PX-F Series

## Specification table

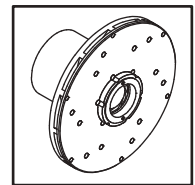
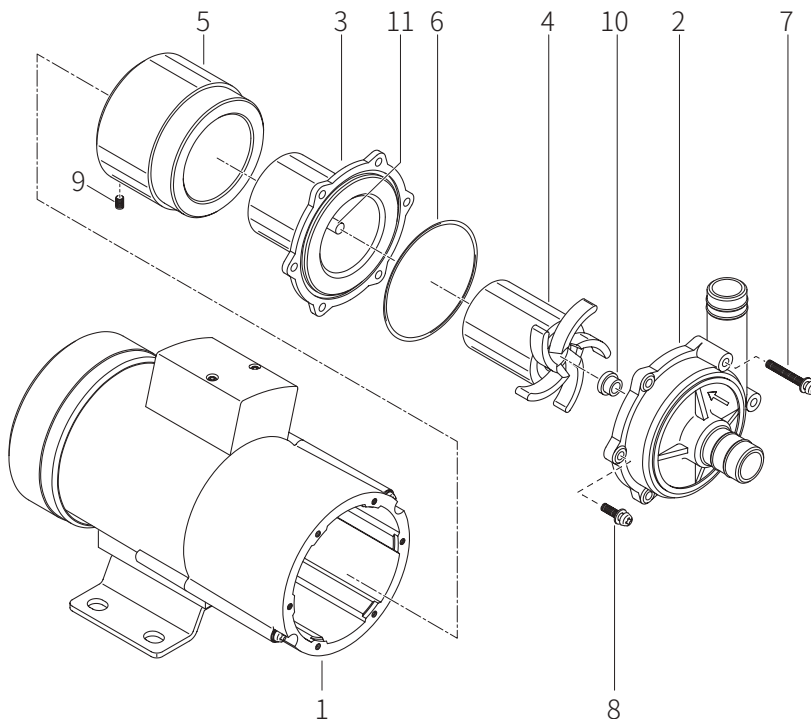
| Model                           | Connection method |             |             | Performance (m-L/min)        |             |                                    |            | Motor              |
|---------------------------------|-------------------|-------------|-------------|------------------------------|-------------|------------------------------------|------------|--------------------|
|                                 | Hose (mm)         | Thread (")  | Union (A)   | Max total head-max discharge |             | Specified head-specified discharge |            | Output x Input (W) |
|                                 | In x Outlet       | In x Outlet | In x Outlet | 50Hz                         | 60Hz        | 50Hz                               | 60Hz       |                    |
| NH-1PX / PX-N                   | 14 X 14           | G1/2x1/2    | -----       | 0.9 - 7.0                    | 1.2 - 8.0   | 0.7 - 2.6                          | 0.8 - 4.5  | 2.5 - 17 / 18      |
| NH-1PX-Z / PX-Z-N               | 14 X 14           | G1/2x1/2    | -----       | 2.0 - 5.5                    | 2.8 - 7.0   | 1.5 - 3.0                          | 1.5 - 4.3  | 5 - 20 / 21        |
| NH-3PX / PX-N                   | 14 X 14           | G1/2x1/2    | -----       | 1.4 - 10.0                   | 2.0 - 11.5  | 1.0 - 4.8                          | 1.0 - 7.5  | 5 - 19 / 20        |
| NH-5PX / PX-N                   | 14 X 14           | G1/2x1/2    | -----       | 0.9 - 7.0                    | 1.2 - 8.0   | 0.7 - 2.6                          | 0.8 - 4.5  | 2.5 - 17 / 18      |
| NH-5PX-Z / PX-Z-N               | 14 X 14           | G1/2x1/2    | -----       | 2.0 - 5.5                    | 2.8 - 7.0   | 1.5 - 3.0                          | 1.5 - 4.3  | 5 - 20 / 21        |
| NH-10PX / PX-N                  | 14 X 14           | G1/2x1/2    | -----       | 1.4 - 10.0                   | 2.0 - 11.5  | 1.0 - 4.8                          | 1.0 - 7.5  | 5 - 19 / 20        |
| NH-30PX / PX-N / PX-F           | 14 X 14           | G3/4x3/4    | 16 X 16     | 2.1 - 15.0                   | 3.1 - 18.0  | 1.5 - 7.0                          | 1.5 - 13.0 | 10 - 29 / 30       |
| NH-40PX / PX-N / PX-F           | 18 x 18           | G3/4x3/4    | 16 X 16     | 2.6 - 25.0                   | 4.1 - 30.0  | 2.0 - 14.0                         | 2.0 - 22.0 | 20 - 40 / 45       |
| NH-50PX-Z / PX-Z-N / PX-Z-F     | 18 x 18           | G3/4x3/4    | 16 X 16     | 4.8 - 9.5                    | 6.7 - 11.0  | 4.0 - 3.5                          | 4.0 - 8.0  | 20 - 40 / 55       |
| NH-50PX / PX-N / PX-F           | 20 X 20           | G3/4x3/4    | 16 X 16     | 3.5 - 30.0                   | 5.0 - 37.0  | 2.5 - 15.0                         | 2.5 - 24.0 | 45 - 65 / 90       |
| NH-50PX-X / PX-X-N / PX-X-F     | 26 X 26           | G1x1        | 20 X 20     | 2.8 - 55.0                   | 4.0 - 70.0  | 2.0 - 30.0                         | 2.0 - 40.0 | 45 - 65 / 80       |
| NH-100PX-Z / PX-Z-N / PX-Z-F    | 18 X 18           | G3/4x3/4    | 16 X 16     | 8.0 - 14.0                   | 11.0 - 18.0 | 5.0 - 9.0                          | 6.0 - 13.0 | 45 - 80 / 95       |
| NH-100PX / PX-N / PX-F          | 20 X 20           | G3/4x3/4    | 16 X 16     | 4.2 - 43.0                   | 6.3 - 50.0  | 4.0 - 20.0                         | 4.0 - 31.0 | 65 - 90 / 120      |
| NH-100PX-X / PX-X-N / PX-X-F    | 26 x 26           | G1x1        | 20 X 20     | 3.0 - 70.0                   | 4.0 - 80.0  | 2.0 - 45.0                         | 2.0 - 60.0 | 65 - 120 / 165     |
| NH-100PX-ZZ / PX-ZZ-N / PX-ZZ-F | 20 x 20           | G3/4x3/4    | 16 X 16     | 11.5 - 22.0                  | 13.5 - 24.0 | 9.5 - 10.0                         | 6.0 - 20.0 | 65 - 140 / 200     |



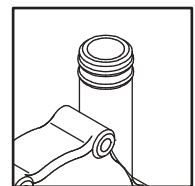
Z: Closed impeller

Note: NPT thread is available.

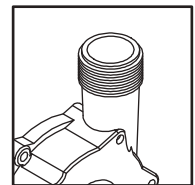
## Parts List



Closed impeller



Hose



Thread

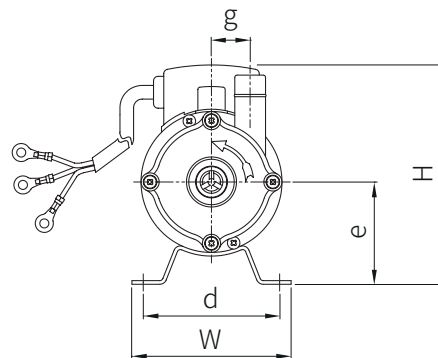
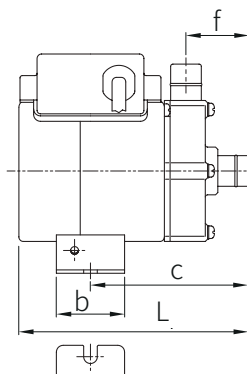
| Position | Description      |
|----------|------------------|
| 1        | Motor            |
| 2        | Front casing     |
| 3        | Rear casing      |
| 4        | Impeller vane    |
| 5        | Outer drive ring |
| 6        | O. Ring          |

| Position | Description                                    |
|----------|------------------------------------------------|
| 7        | Screw, cross recess head w/t plain washer (x2) |
| 8        | Screw, cross recess head w/t plain washer (x4) |
| 9        | Set screw (x2)                                 |
| 10       | Front thrust pad                               |
| 11       | Spindle                                        |

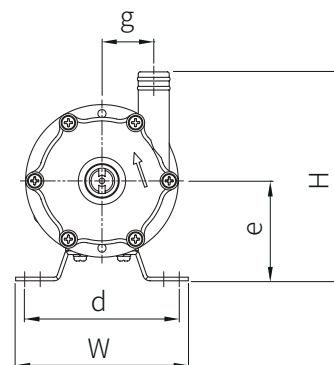
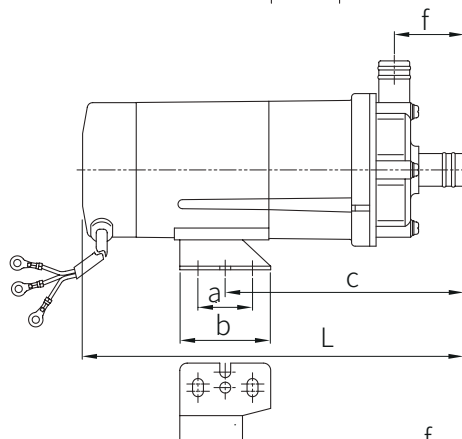
# PX / PX-N / PX-F Series

## Installation dimension

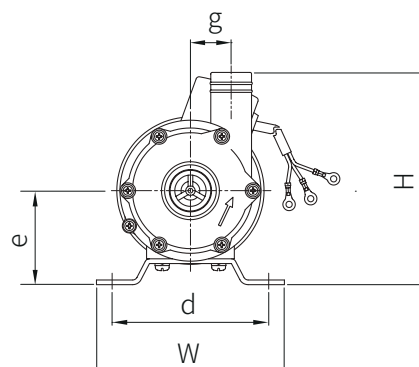
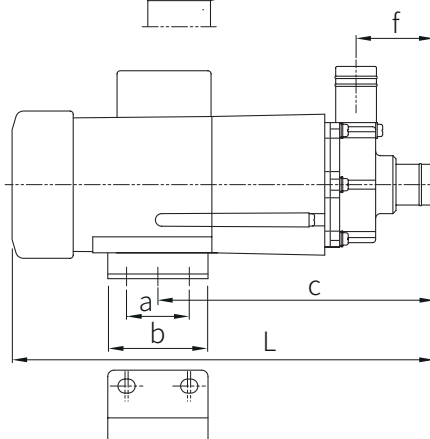
NH-1PX / PX-N  
NH-1PX-Z / PX-Z-N  
NH-3PX / PX-N  
NH-5PX / PX-N  
NH-5PX-Z / PX-Z-N  
NH-10PX / PX-N



NH-30PX  
NH-30PX-N / PX-F  
NH-40PX  
NH-40PX-N / PX-F  
NH-50PX-Z  
NH-50PX-Z-N / PX-Z-F



NH-50PX  
NH-50PX-N / PX-F  
NH-50PX-X  
NH-50PX-X-N / PX-X-F  
NH-100PX-Z  
NH-100PX-Z-N / PX-Z-F  
NH-100PX  
NH-100PX-N / PX-F  
NH-100PX-X  
NH-100PX-X-N / PX-X-F  
NH-100PX-ZZ  
NH-100PX-ZZ-N / PX-ZZ-F



| Model                           | W   | H   | L     | a  | b  | c     | d   | e  | f    | g    |
|---------------------------------|-----|-----|-------|----|----|-------|-----|----|------|------|
| NH-1PX / PX-N                   | 70  | 95  | 101.5 | -  | 30 | 70    | 60  | 45 | 28   | 17   |
| NH-1PX-Z / PX-Z-N               | 70  | 95  | 101.5 | -  | 30 | 70    | 60  | 45 | 28   | 17   |
| NH-3PX / PX-N                   | 70  | 95  | 101.5 | -  | 30 | 70    | 60  | 45 | 28   | 17   |
| NH-5PX / PX-N                   | 74  | 92  | 145   | -  | 30 | 73    | 60  | 45 | 31   | 17   |
| NH-5PX-Z / PX-Z-N               | 74  | 92  | 145   | -  | 30 | 73    | 60  | 45 | 31   | 17   |
| NH-10PX / PX-N                  | 74  | 92  | 145   | -  | 30 | 73    | 60  | 45 | 31   | 17   |
| NH-30PX / PX-N / PX-F           | 95  | 115 | 197.5 | 30 | 50 | 117   | 85  | 55 | 39   | 21.5 |
| NH-40PX / PX-N / PX-F           | 95  | 115 | 210   | 30 | 50 | 131.5 | 85  | 55 | 38.5 | 28.5 |
| NH-50PX-Z / PX-Z-N / PX-Z-F     | 95  | 125 | 226   | 30 | 50 | 134   | 85  | 55 | 39.5 | 38.5 |
| NH-50PX / PX-N / PX-F           | 120 | 130 | 247   | 40 | 64 | 169   | 100 | 60 | 48   | 31   |
| NH-50PX-X / PX-X-N / PX-X-F     | 120 | 135 | 254.5 | 40 | 64 | 176.5 | 100 | 60 | 50   | 26   |
| NH-100PX-Z / PX-Z-N / PX-Z-F    | 120 | 130 | 236   | 40 | 64 | 152   | 100 | 60 | 39.5 | 38.5 |
| NH-100PX / PX-N / PX-F          | 120 | 130 | 262   | 40 | 64 | 169   | 100 | 60 | 48   | 31   |
| NH-100PX-X / PX-X-N / PX-X-F    | 120 | 135 | 269.5 | 40 | 64 | 176.5 | 100 | 60 | 50   | 26   |
| NH-100PX-ZZ / PX-ZZ-N / PX-ZZ-F | 120 | 150 | 243.5 | 40 | 64 | 160   | 100 | 60 | 38.5 | 44.5 |

Note : Over all size & construction may be changed without notice.

Unit : mm

# PX-D Series (Glass-filled Polypropylene)

## PX-D-N Series (PVDF Natural)

## PX-D-F Series (Carbon Fiber-filled ETFE)

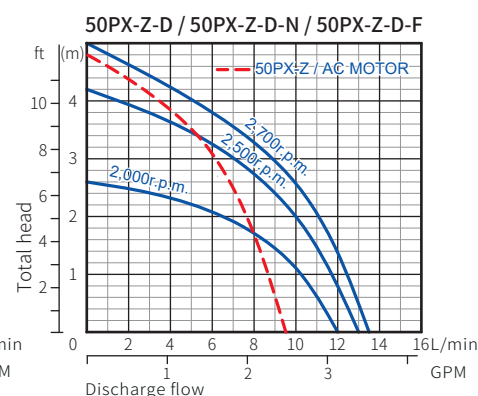
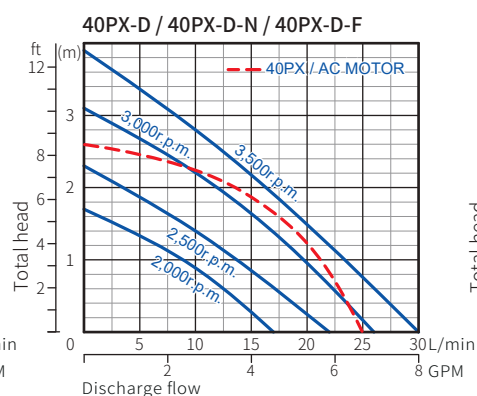
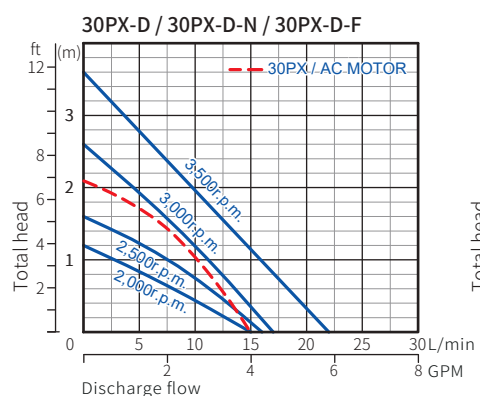
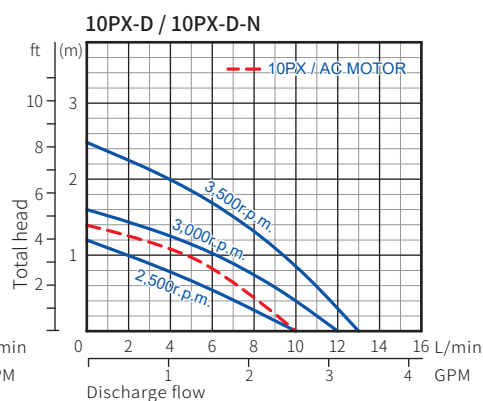
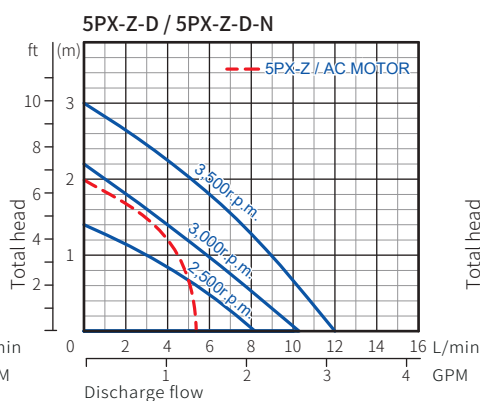
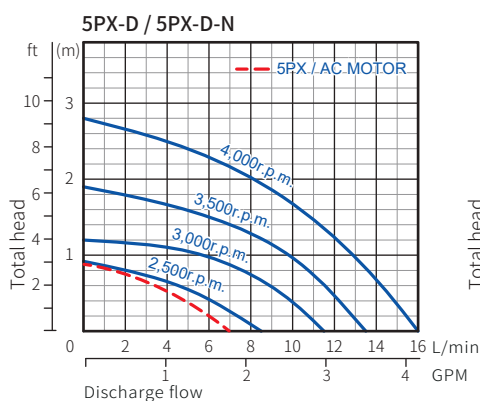
**Magnetic Drive Pump with computer-controlled DC brushless motor, available in fixed-speed and variable-speed options.**

- Features a DC brushless motor with variable speed control.
- Available in PP, PVDF, and ETFE materials.
- Accepts 1-10V input for constant flow and pressure control.
- More efficient than AC motors and space-saving.



| Model                | PX-D                       | PX-D-N       | PX-D-F                   |
|----------------------|----------------------------|--------------|--------------------------|
| Materials in Contact | Glass-filled Polypropylene | PVDF natural | Carbon Fiber-filled ETFE |
| Max Flow             | 30 L/min                   | 30 L/min     | 30 L/min                 |
| Max Head             | 5 m                        | 5 m          | 5 m                      |
| Liquid Temp.         | 0°C~60°C                   | 0°C~80°C     | 0°C~80°C                 |
| Motor Power          | DC12V, DC24V               | DC12V, DC24V | DC12V, DC24V             |

### Pump performance curve



Note: Broken line indicates pump performance of PX Series with AC motor.

## ■ Specification table

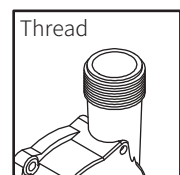
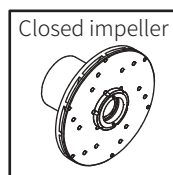
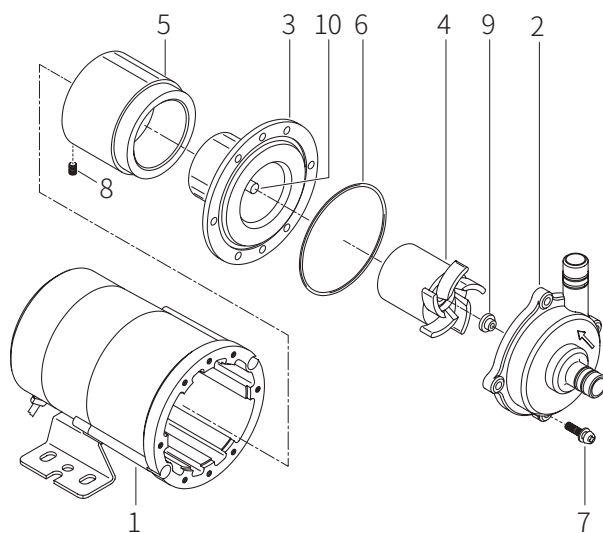
| Model                             | Connection method |             |             | Performance (m-L/min)        |            |            |            |            |
|-----------------------------------|-------------------|-------------|-------------|------------------------------|------------|------------|------------|------------|
| Wetted end                        | Hose (mm)         | Thread (")  | Union (A)   | Max total head-max discharge |            |            |            |            |
| Polypropylene / PVDF / ETFE       | In x Outlet       | In x Outlet | In x Outlet | 2,000r.p.m                   | 2,500r.p.m | 3,000r.p.m | 3,500r.p.m | 4,000r.p.m |
| NH-5PX-D / PX-D-N                 | 14 X 14           | G1/2x1/2    | -----       | -----                        | 0.9 - 8.5  | 1.2 - 11.5 | 1.9 - 13.5 | 2.8 - 16.0 |
| NH-10PX-D / PX-D-N                | 14 X 14           | G1/2x1/2    | -----       | -----                        | 1.2 - 10.0 | 1.6 - 12.0 | 2.5 - 13.0 | -----      |
| NH-5PX-Z-D / PX-Z-D-N             | 14 X 14           | G1/2x1/2    | -----       | -----                        | 1.4 - 8.0  | 2.2 - 10.0 | 3.0 - 12.0 | -----      |
| NH-30PX-D / PX-D-N / PX-D-F       | 14 X 14           | G3/4x3/4    | 16 X 16     | 1.2 - 15.0                   | 1.6 - 16.0 | 2.6 - 17.0 | 3.6 - 22.0 | -----      |
| NH-40PX-D / PX-D-N / PX-D-F       | 18 x 18           | G3/4x3/4    | 16 X 16     | 1.7 - 17.0                   | 2.3 - 22.0 | 3.1 - 26.0 | 3.9 - 30.0 | -----      |
| NH-50PX-Z-D / PX-Z-D-N / PX-Z-D-F | 18 x 18           | G3/4x3/4    | 16 X 16     | 2.6 - 12.0                   | 4.2 - 13.0 | 5.0 - 13.5 | -----      | -----      |



Z: Closed impeller

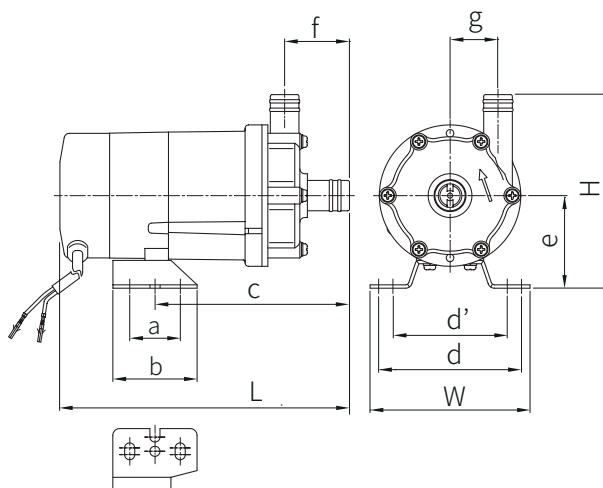
Note: NPT thread is available.

## ■ Parts List



| Position | Description                                    |
|----------|------------------------------------------------|
| 1        | Motor                                          |
| 2        | Front casing                                   |
| 3        | Rear casing                                    |
| 4        | Impeller vane                                  |
| 5        | Outer drive ring                               |
| 6        | O. Ring                                        |
| 7        | Screw, cross recess head w/t plain washer (x4) |
| 8        | Set screw (x2)                                 |
| 9        | Front thrust pad                               |
| 10       | Spindle                                        |

## ■ Installation dimension



Note :  
Over all size & construction may be changed without notice.

| Model                                         | W  | H   | L     | a  | b  | c     | d  | d' | e  | f    | g    |
|-----------------------------------------------|----|-----|-------|----|----|-------|----|----|----|------|------|
| NH-5PX-D<br>NH-5PX-D-N                        | 74 | 92  | 104.5 | -  | 30 | 72    | 60 | -  | 45 | 31   | 17   |
| NH-10PX-D<br>NH-10PX-D-N                      | 74 | 92  | 104.5 | -  | 30 | 72    | 60 | -  | 45 | 31   | 17   |
| NH-5PX-Z-D<br>NH-5PX-Z-D-N                    | 74 | 92  | 104.5 | -  | 30 | 72    | 60 | -  | 45 | 31   | 17   |
| NH-30PX-D<br>NH-30PX-D-N<br>NH-30PX-D-F       | 95 | 115 | 169.5 | 30 | 50 | 113   | 85 | 68 | 55 | 39   | 21.5 |
| NH-40PX-D<br>NH-40PX-D-N<br>NH-40PX-D-F       | 95 | 115 | 172   | 30 | 50 | 115.5 | 85 | 68 | 55 | 38.5 | 28.5 |
| NH-50PX-Z-D<br>NH-50PX-Z-D-N<br>NH-50PX-Z-D-F | 95 | 125 | 188   | 30 | 50 | 131.5 | 85 | 68 | 55 | 39.5 | 38.5 |

Unit : mm

## PI-Z-D Series

**Magnetic Drive Pump with computer-controlled DC brushless motor, available in fixed-speed and variable-speed options.**

- Equipped with a DC brushless motor, printed circuit board, and variable speed controller.
- Accepts external 1-10V for maintaining constant flow and pressure.
- Offers double the motor efficiency compared to AC motors with a compact design.

**Materials in Contact :** Glass fiber-reinforced PP

**Max Flow :** 76 L/min

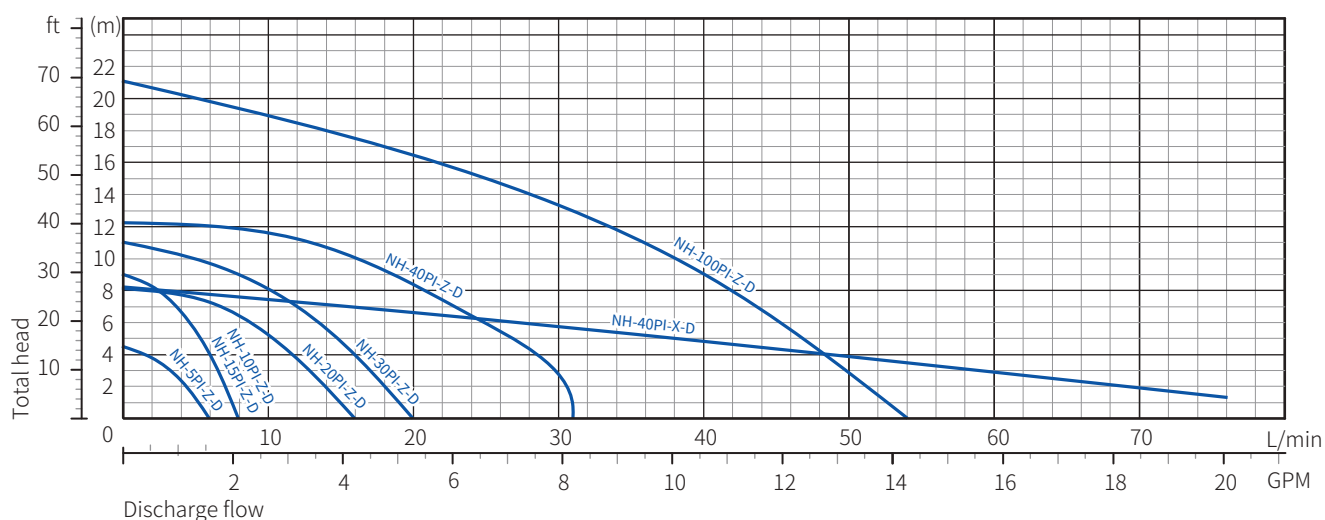
**Max Head :** 21.1 m

**Liquid Temp. :** 0°C~60°C

**Motor Power :** DC12V, DC24V



### Pump performance curve



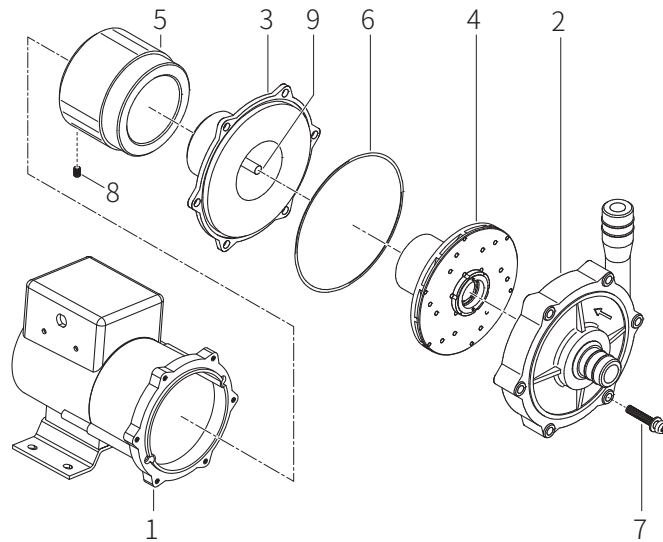
### Specification table

| Model        | Connection method |             | Max flow<br>L/min(GPM) | Max head<br>m(ft) | Motor        |                   |              |
|--------------|-------------------|-------------|------------------------|-------------------|--------------|-------------------|--------------|
|              | Hose (mm)         | Thread (")  |                        |                   | Power(V)     | Output × Input(W) | Speed(r.p.m) |
|              | In x Outlet       | In x Outlet |                        |                   |              |                   |              |
| NH-5PI-Z-D   | 14 X 8            | --          | 6 (1.6)                | 4.5 (14.8)        | DC24V, DC12V | 8 × 13            | 3,700        |
| NH-10PI-Z-D  | 14 X 8            | --          | 8 (2.2)                | 9 (29)            | DC24V        | 18 × 30           | 5,500        |
| NH-15PI-Z-D  | 18 x 8            | G3/4 x G3/4 | 8 (2.2)                | 9 (29)            | DC24V        | 20 × 45           | 3,200        |
| NH-20PI-Z-D  | 18 X 18           | G3/4 x G3/4 | 16 (4.2)               | 8.2 (27)          | DC24V        | 30 × 55           | 3,000        |
| NH-30PI-Z-D  | 18 X 18           | G3/4 x G3/4 | 20 (5.4)               | 11 (36)           | DC24V        | 45 × 65           | 3,300        |
| NH-40PI-Z-D  | 20 X 20           | G3/4 x G3/4 | 31 (8.2)               | 12.4 (40.7)       | DC24V, DC12V | 72 × 85           | 3,500        |
| NH-40PI-X-D  | 26 x 26           | G1 x G1     | 76 (20.1)              | 8.2 (26.9)        | DC24V        | 72 × 85           | 3,500        |
| NH-100PI-Z-D | 20 x 16           | --          | 54 (14.3)              | 21.1 (69.2)       | DC24V        | 220 × 331         | 3,500        |



Z: Closed impeller

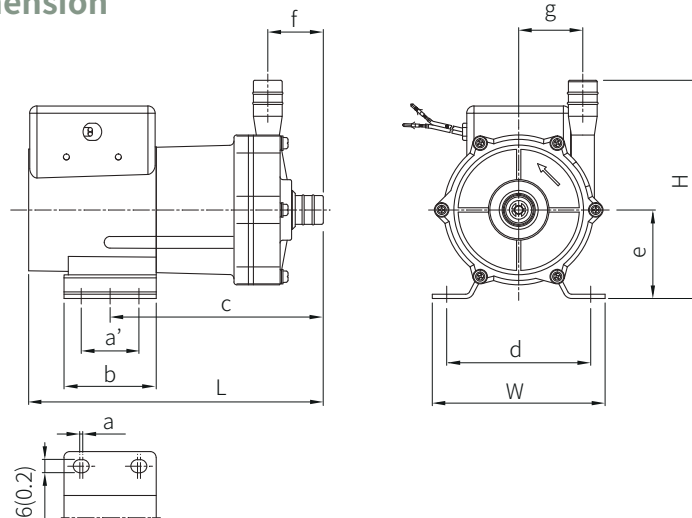
## Parts List



| Position | Description      |
|----------|------------------|
| 1        | Motor            |
| 2        | Front casing     |
| 3        | Rear casing      |
| 4        | Impeller ass'y   |
| 5        | Outer drive ring |

| Position | Description                                    |
|----------|------------------------------------------------|
| 6        | O. Ring                                        |
| 7        | Screw, cross recess head w/t plain washer (x6) |
| 8        | Set screw (x2)                                 |
| 9        | Spindle                                        |

## Installation dimension



| Model        | W          | H            | L            | a        | a'        | b         | c            | d          | e         | f           | g           |
|--------------|------------|--------------|--------------|----------|-----------|-----------|--------------|------------|-----------|-------------|-------------|
| NH-5PI-Z-D   | 74 (2.91)  | 90 (3.54)    | 100 (3.94)   | 0 (0)    | -         | 30 (1.2)  | 67.5 (2.66)  | 60 (2.36)  | 45 (1.77) | 26.5 (1.04) | 21 (0.83)   |
| NH-10PI-Z-D  | 74 (2.91)  | 90 (3.54)    | 100 (3.94)   | 0 (0)    | -         | 30 (1.2)  | 67.5 (2.66)  | 60 (2.36)  | 45 (1.77) | 26.5 (1.04) | 21 (0.83)   |
| NH-15PI-Z-D  | 112 (4.41) | 119 (4.69)   | 118 (4.65)   | 2 (0.08) | -         | 30 (1.2)  | 75 (2.95)    | 97 (3.82)  | 49 (1.93) | 31 (1.22)   | 36 (1.42)   |
| NH-20PI-Z-D  | 112 (4.41) | 119 (4.69)   | 118 (4.65)   | 2 (0.08) | -         | 30 (1.2)  | 75 (2.95)    | 97 (3.82)  | 49 (1.93) | 31 (1.22)   | 36 (1.42)   |
| NH-30PI-Z-D  | 112 (4.41) | 119 (4.69)   | 123 (4.84)   | 2 (0.08) | -         | 30 (1.2)  | 75 (2.95)    | 97 (3.82)  | 49 (1.93) | 31 (1.22)   | 36 (1.42)   |
| NH-40PI-Z-D  | 120 (4.72) | 150 (5.91)   | 204.5 (8.05) | 2 (0.08) | 40 (1.57) | 64 (2.52) | 148 (5.83)   | 100 (3.94) | 60 (2.36) | 38.5 (1.52) | 44.5 (1.75) |
| NH-40PI-X-D  | 120 (4.72) | 140.5 (5.53) | 221 (8.7)    | 2 (0.08) | 40 (1.57) | 64 (2.52) | 164.5 (6.48) | 100 (3.94) | 60 (2.36) | 50 (1.97)   | 30 (1.18)   |
| NH-100PI-Z-D | 90 (3.54)  | 152 (5.98)   | 242.2 (9.54) | 4 (0.16) | 32 (1.26) | 70 (2.76) | -            | 73 (2.87)  | 62 (2.44) | 41 (1.61)   | 52.3 (2.06) |

Note : Over all size & construction may be changed without notice.

Unit : mm (inch)

## PS-D Series (Glass filled polypropylene)

### High Performance Pump with Brushless DC motor

- Motor efficiency is better than AC type and more energy saving.
- Max up to 120 L/min & 12 m.
- Able to handle many types of chemical and temperature up to 60°C.
- With external 1-10 V variable speed control.
- Available in hose, thread connections.
- Customized specification available.

Materials in Contact : Glass filled polypropylene

Max Flow : 120 L/min

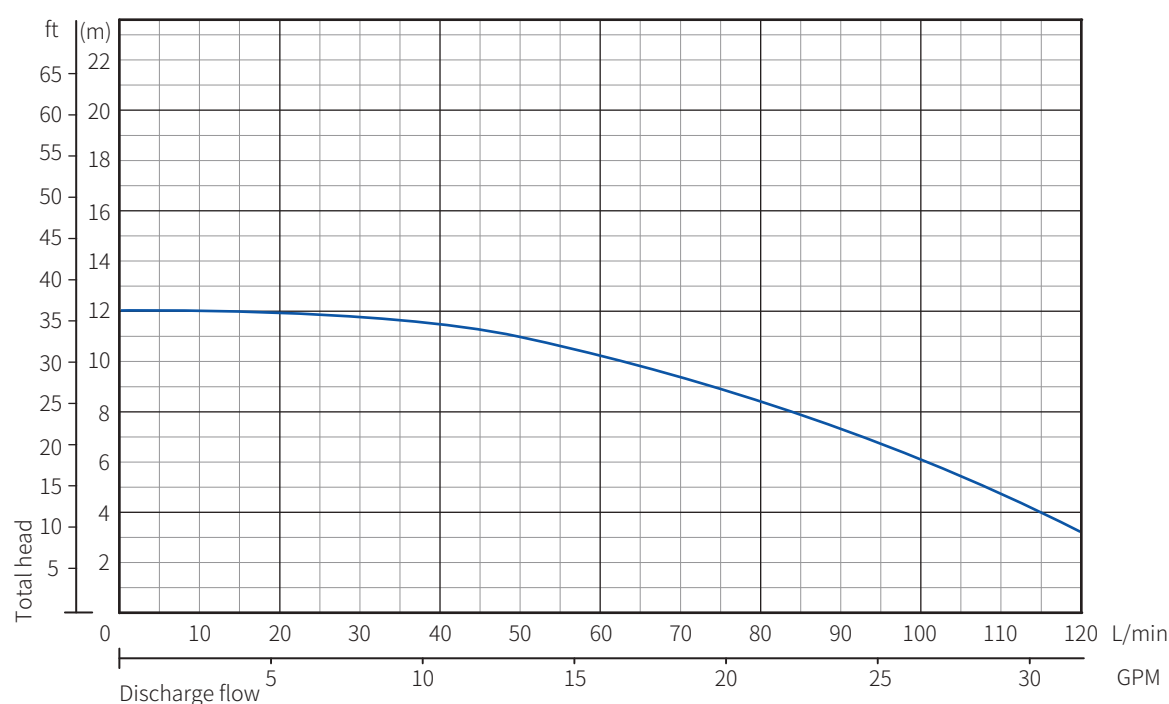
Max Head : 12 m

Liquid Temp. : 0°C~60°C

Motor Power : DC 48V



### ■ Pump performance curve

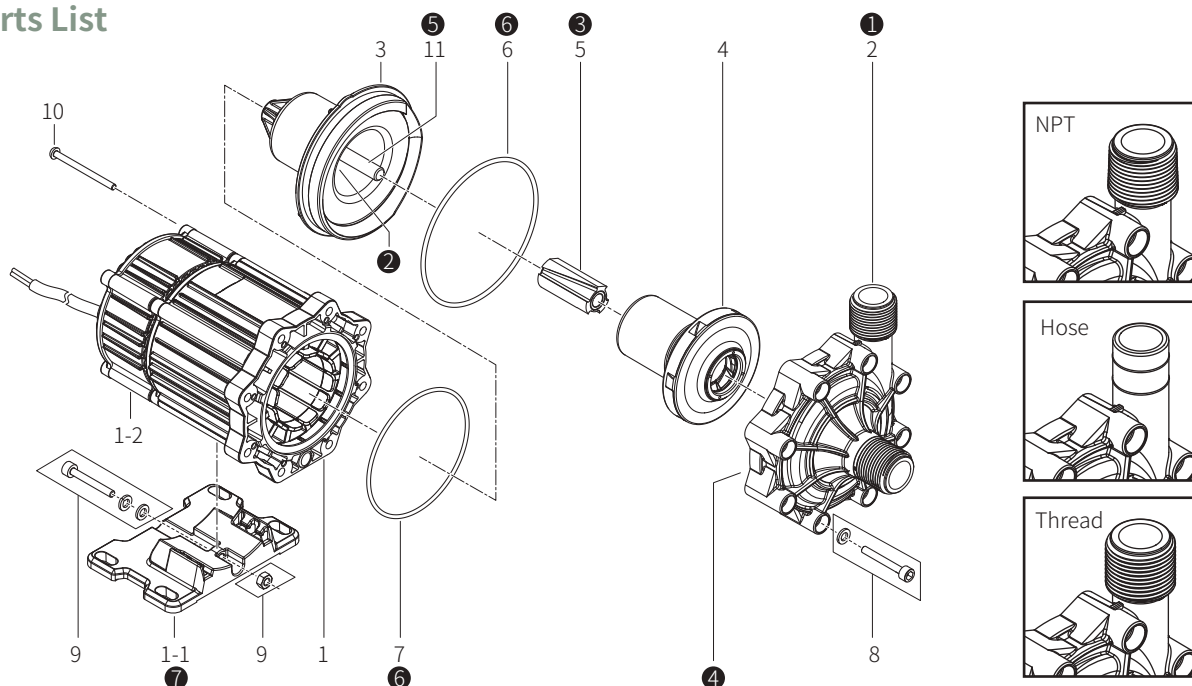


### ■ Specification table

| Model         | Connection method |             |             | Performance (m-L/min)        |                                    | Motor    |              |
|---------------|-------------------|-------------|-------------|------------------------------|------------------------------------|----------|--------------|
| Wetted end    | Hose (mm)         | Thread (")  | Union (A)   | Max total head-max discharge | Specified head-specified discharge | Power(V) | Speed(r.p.m) |
| Polypropylene | In x Outlet       | In x Outlet | In x Outlet |                              |                                    |          |              |
| NH-250PS-D    | 26 X 26           | G1 x G1     | 20 X 20     | 12 - 120                     | 10.9 - 50.0                        | DC 48V   | 3260         |

Note: NPT thread is available.

## Parts List

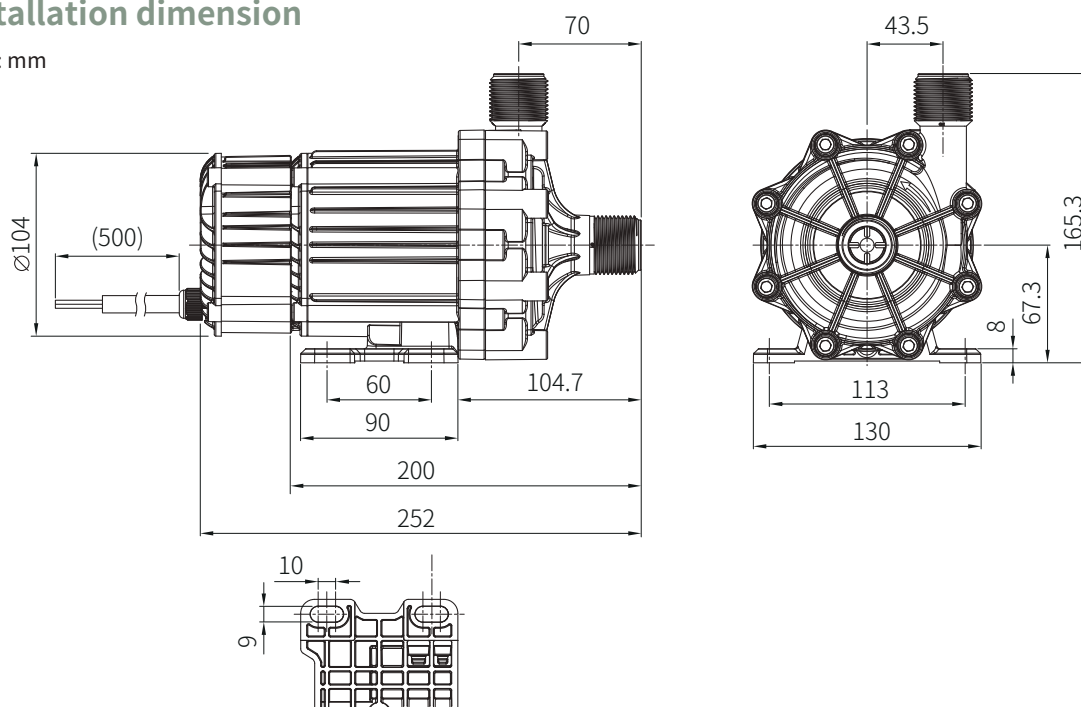


| Position | Description                                        |
|----------|----------------------------------------------------|
| 1        | Motor                                              |
| 1-1      | Foot                                               |
| 1-2      | Capacitor                                          |
| 2        | Front casing                                       |
| 3        | Rear casing                                        |
| 4        | Impeller ass'y                                     |
| 5        | Bearing ass'y                                      |
| 6        | O. Ring                                            |
| 7        | O. Ring                                            |
| 8        | Hexagon socket bolt w/t plain washer M6x40(x8)     |
| 9        | Hexagon socket bolt w/t plain washer w/t nut M6x40 |
| 10       | Screw, cross recess head M4x60 (x4)                |
| 11       | Spindle                                            |

| Part name    | 250PS-D |
|--------------|---------|
| ① Casing     | PPG     |
| ② Holder     | Ceramic |
| ③ Bearing    | Rulon   |
| ④ Thrust pad | Ceramic |
| ⑤ Spindle    |         |
| ⑥ O Ring     | FKM     |
| ⑦ Foot       | PPG     |

## Installation dimension

Unit : mm



## PS Series (PPG)

### General Purpose Magnetic Drive Pumps

- Ideal for OEM and general applications.
- Available in 13 models with hose, threaded, or flange connection options.
- Constructed with cost-effective PP wetted-end material.

Materials in Contact : PPG

Max Flow : 120 L/min

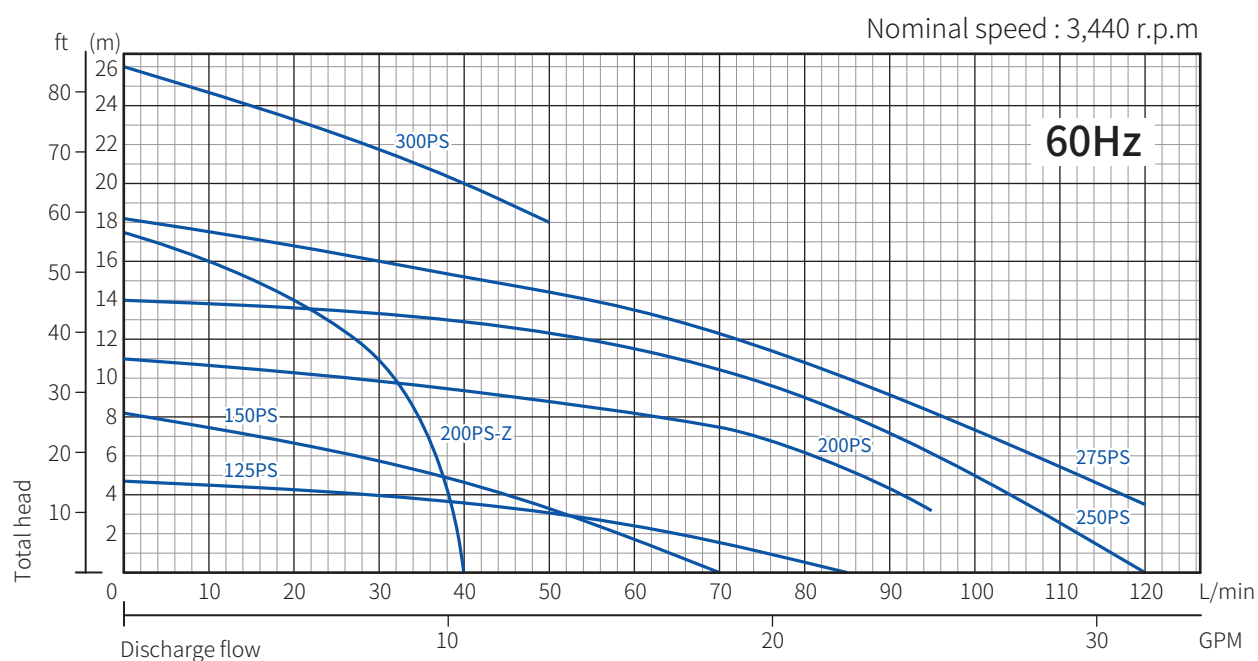
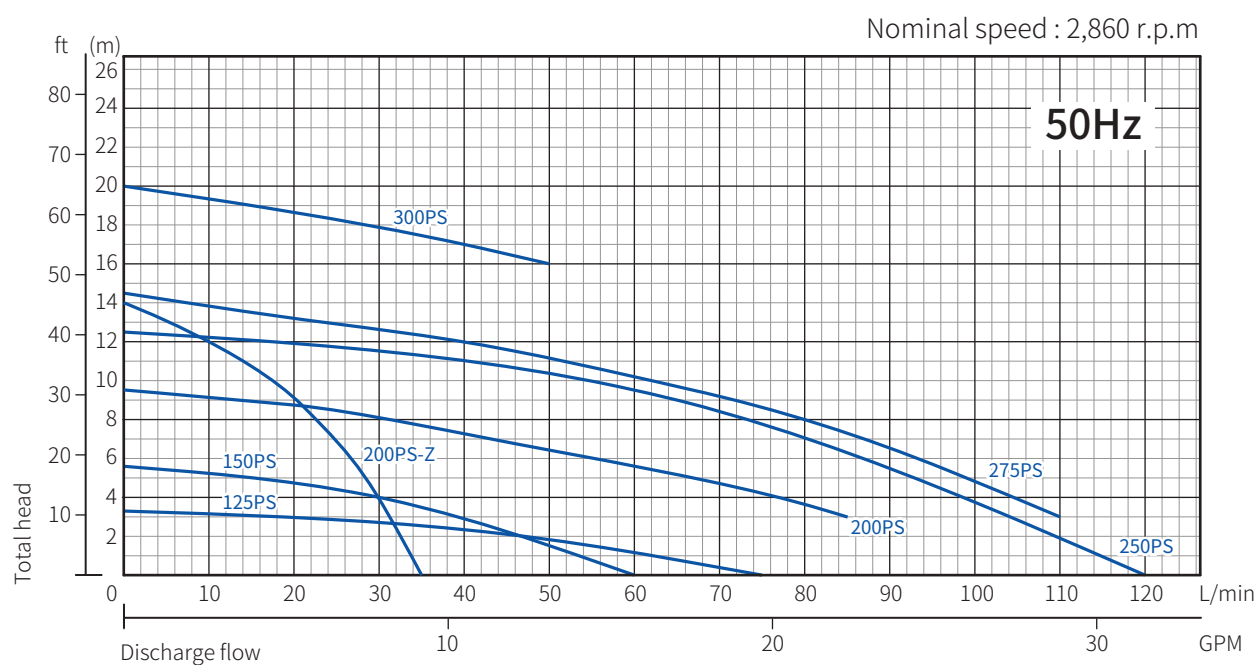
Max Head : 26 m

Liquid Temp. : 0°C~70°C

Motor Power : 65 W to 330 W, JEM-0.2 kW



### ■ Pump performance curve



## PS-F Series (ETFE)

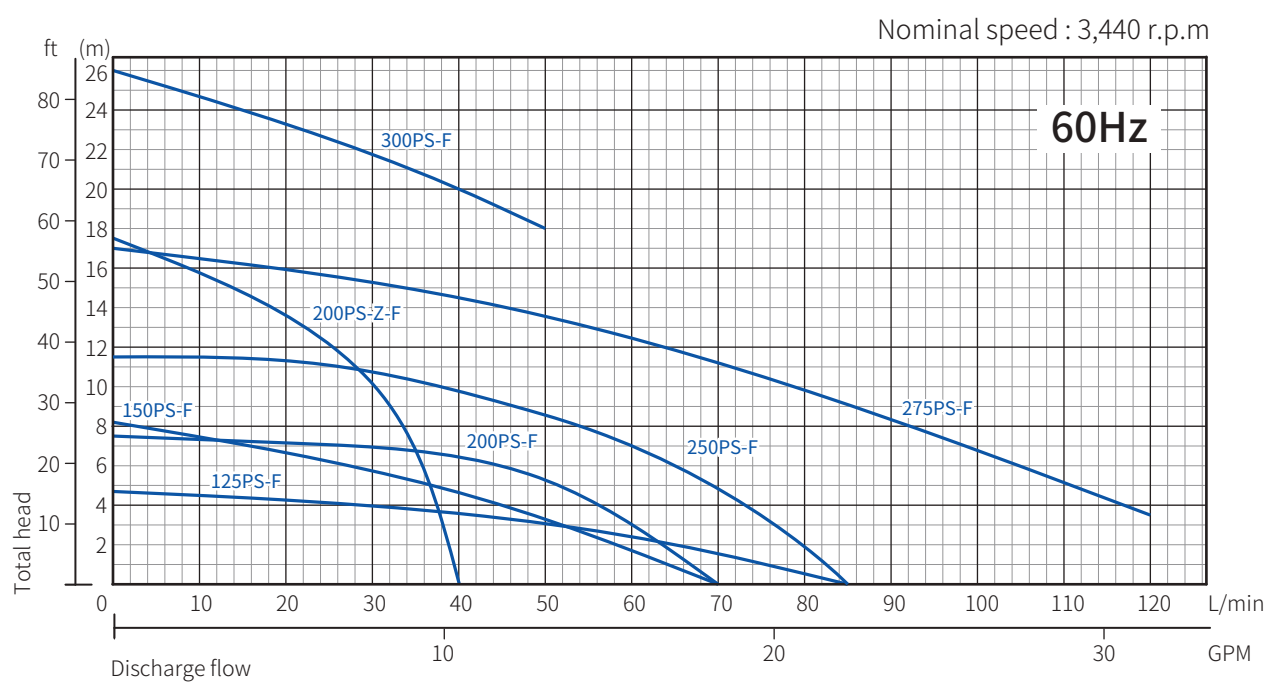
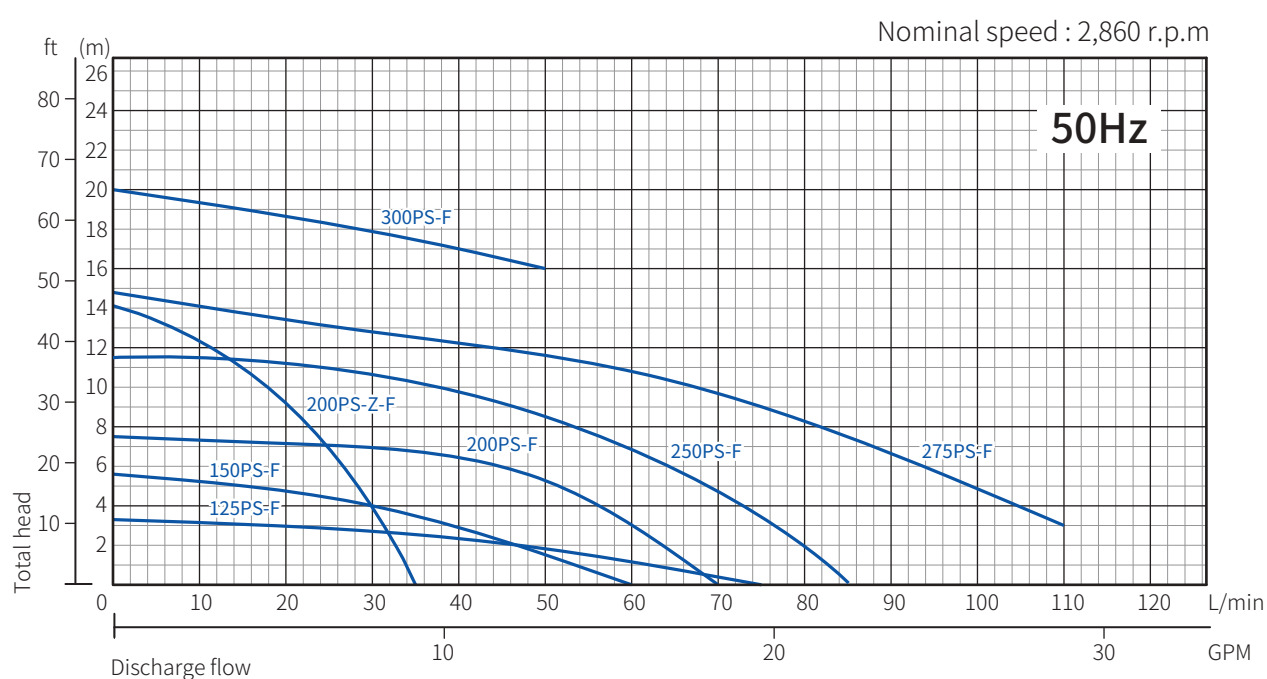
### Magnetic Drive Pumps for Hazardous Chemical Transfer

- Designed with ETFE wetted-end material for designed for hazardous chemical transfer, with 13 models available.
- Offers 13 models with hose, threaded, or flange connection options.

|                        |                             |
|------------------------|-----------------------------|
| Materials in Contact : | ETFE                        |
| Max Flow               | : 120 L/min                 |
| Max Head               | : 26 m                      |
| Liquid Temp.           | : 0°C~90°C                  |
| Motor Power            | : 65 W to 330 W, JEM-0.2 kW |



### ■ Pump performance curve



## PS-K Series (Fluorine Resin)

### Magnetic Drive Pumps with Fluorine Resin Construction

- Constructed with precision injection-molded fluorine resin for enhanced chemical resistance.
- Capable of handling a wide variety of chemicals.
- Available with hose, threaded, or flange connections for flexible installation.

Materials in Contact : PVDF

Max Flow : 120 L/min

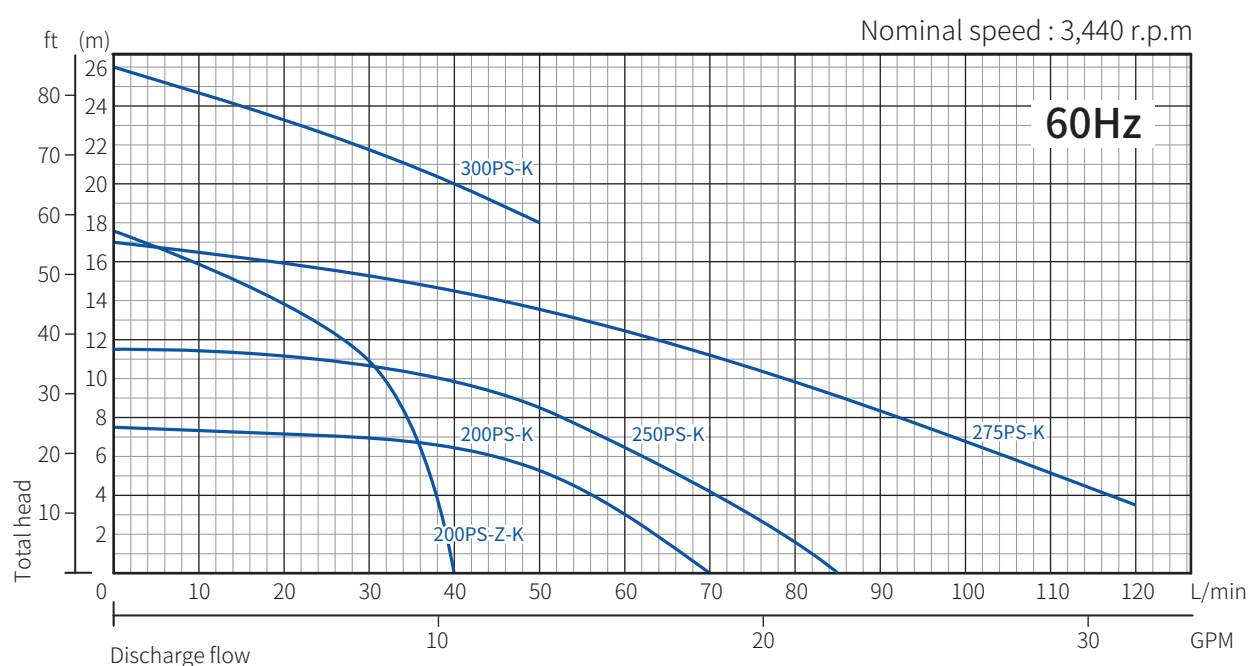
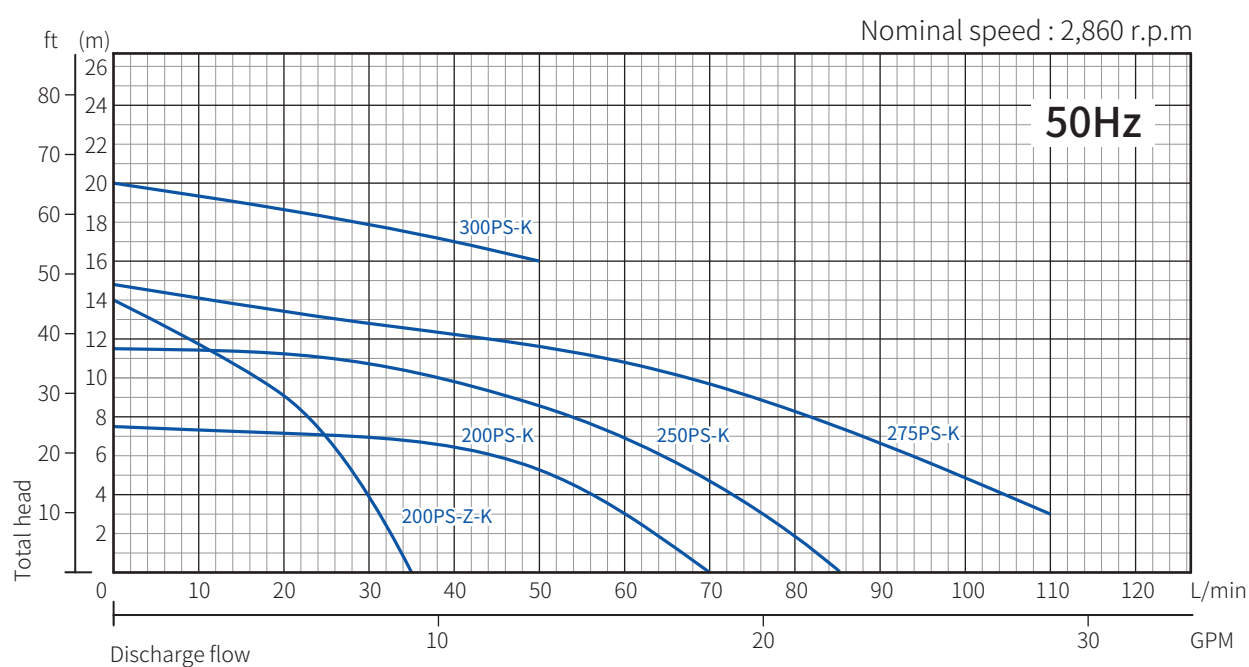
Max Head : 26 m

Liquid Temp. : 0°C~80°C

Motor Power : 180 W to 330 W, JEM-0.2 kW



### ■ Pump performance curve



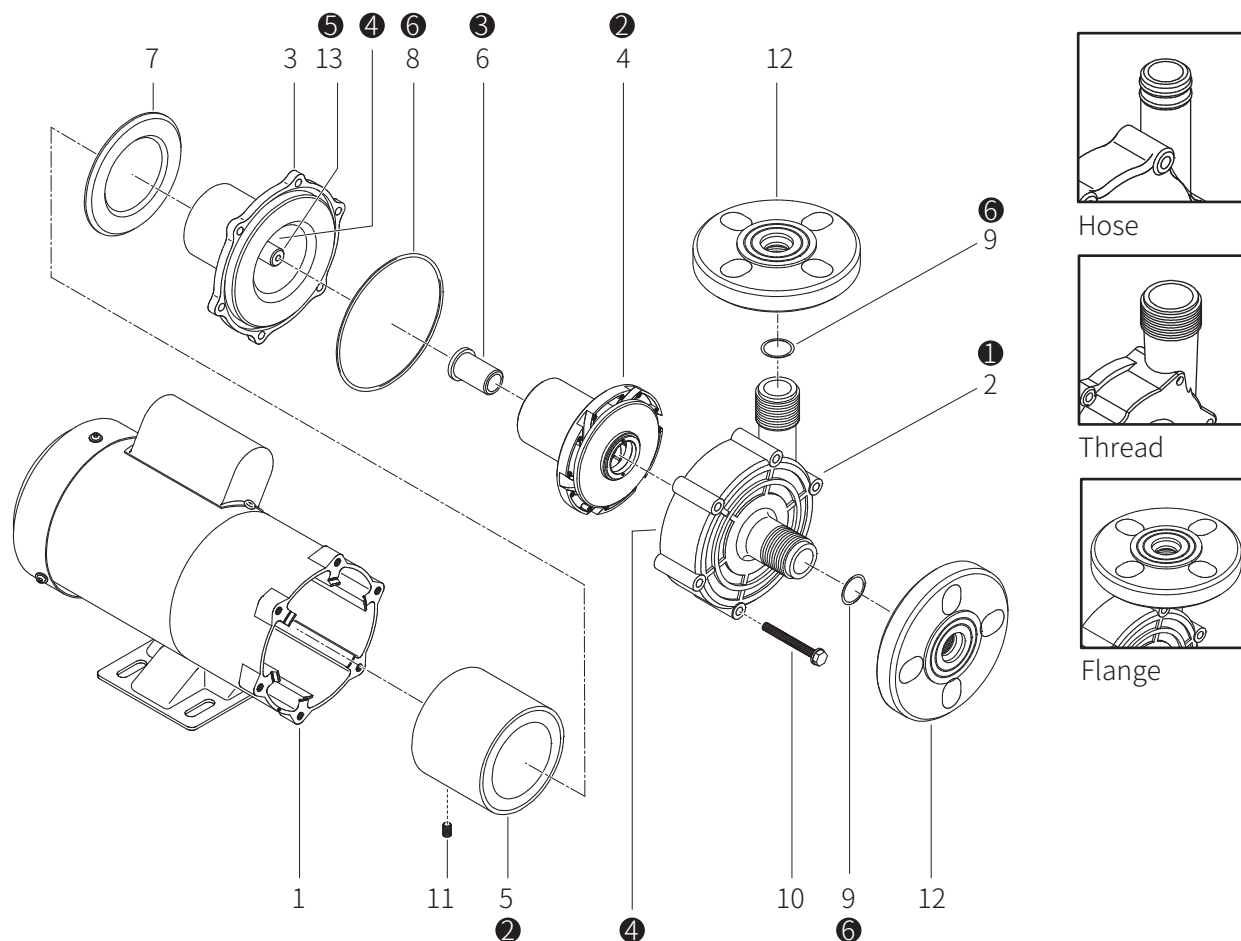
# PS / PS-F / PS-K Series

## ■ Specification table

| Model                                 | Connection method |                 |             |             | Performance (m-L/min)            |            |                                        |           | Motor                 |
|---------------------------------------|-------------------|-----------------|-------------|-------------|----------------------------------|------------|----------------------------------------|-----------|-----------------------|
|                                       | Hose (mm)         | Thread (")      | Union (A)   | Flange (A)  | Max total head<br>-max discharge |            | Specified dead<br>-specified discharge |           | Output x<br>Input (W) |
|                                       | In x Outlet       | In x Outlet     | In x Outlet | In x Outlet | 50Hz                             | 60Hz       | 50Hz                                   | 60Hz      |                       |
| NH-125PS / PS-F                       | 26 x 26           | NPT1×1,G1X1     | 20 X 20     | -----       | 3.3 - 75                         | 4.7 - 85   | 2 - 47                                 | 2 - 65    | 65 - 90/130           |
| NH-150PS / PS-F                       | 26 x 26           | NPT1×1,G1X1     | 20 X 20     | 25 X 25     | 5.6 - 60                         | 8.2 - 70   | 4 - 30                                 | 4 - 45    | 90 - 130/180          |
| NH-150PS-3J / PS-F-3J                 | 26 x 26           | NPT1×1,G1X1     | 20 X 20     | 25 X 25     | 5.6 - 60                         | 8.2 - 70   | 4 - 30                                 | 4 - 45    | 90 - 130/180          |
| NH-200PS-Z / PS-Z-F / PS-Z-K          | 26 x 26           | NPT1×1,G1X1     | 20 X 20     | 25 X 25     | 14 - 35                          | 17.5 - 40  | 9 - 20                                 | 11 - 30   | 180 - 290             |
| NH-200PS-Z-3J / PS-Z-F-3J / PS-Z-K-3J | 26 x 26           | NPT1×1,G1X1     | 20 X 20     | 25 X 25     | 14 - 35                          | 17.5 - 40  | 9 - 20                                 | 11 - 30   | 180 - 290             |
| NH-200PS                              | 26 x 26           | NPT1×1,G1X1     | 20 X 20     | 25 X 25     | 9.5 - 85                         | 11 - 95    | 6.5 - 50                               | 7.5 - 70  | 180 - 290             |
| NH-200PS-F / PS-K                     | 26 x 26           | NPT1×1,G1X1     | 20 X 20     | 25 X 25     | 7.5 - 70                         | 7.5 - 70   | 5.5 - 50                               | 5.5 - 50  | 180 - 290             |
| NH-200PS-3J                           | 26 x 26           | NPT1×1,G1X1     | 20 X 20     | 25 X 25     | 9.5 - 85                         | 11 - 95    | 6.5 - 50                               | 7.5 - 70  | 180 - 290             |
| NH-200PS-F-3J / PS-K-3J               | 26 x 26           | NPT1×1,G1X1     | 20 X 20     | 25 X 25     | 7.5 - 70                         | 7.5 - 70   | 5.5 - 50                               | 5.5 - 50  | 180 - 290             |
| NH-250PS                              | 26 x 26           | NPT1×1,G1X1     | 20 X 20     | 25 X 25     | 12.5 - 120                       | 14 - 120   | 9 - 65                                 | 9 - 80    | 250 - 390             |
| NH-250PS-F / PS-K                     | 26 x 26           | NPT1×1,G1X1     | 20 X 20     | 25 X 25     | 11.5 - 85                        | 11.5 - 85  | 8.5 - 50                               | 8.5 - 50  | 250 - 390             |
| NH-250PS-3J                           | 26 x 26           | NPT1×1,G1X1     | 20 X 20     | 25 X 25     | 12.5 - 120                       | 14 - 120   | 9 - 65                                 | 9 - 80    | 250 - 390             |
| NH-250PS-F-3J / PS-K-3J               | 26 x 26           | NPT1×1,G1X1     | 20 X 20     | 25 X 25     | 11.5 - 85                        | 11.5 - 85  | 8.5 - 50                               | 8.5 - 50  | 250 - 390             |
| NH-250PS-3E                           | 26 x 26           | NPT1×1,G1X1     | 20 X 20     | 25 X 25     | 13.4 - 120                       | 14.5 - 120 | 9 - 50                                 | 9 - 50    | JEM - 0.2kW           |
| NH-250PS-F-3E / PS-K-3E               | 26 x 26           | NPT1×1,G1X1     | 20 X 20     | 25 X 25     | 13.4 - 120                       | 14 - 120   | 9 - 50                                 | 9 - 80    | JEM - 0.2kW           |
| NH-275PS                              | 26 x 26           | NPT1×1,G1X1     | 20 X 20     | 25 X 25     | 14.5 - 110                       | 18 - 120   | 10 - 60                                | 13.5 - 60 | 250 - 390             |
| NH-275PS-F / PS-K                     | 26 x 26           | NPT1×1,G1X1     | 20 X 20     | 25 X 25     | 14.8 - 110                       | 17 - 120   | 11 - 60                                | 11 - 70   | 250 - 390             |
| NH-275PS-3J                           | 26 x 26           | NPT1×1,G1X1     | 20 X 20     | 25 X 25     | 14.5 - 110                       | 18 - 120   | 10 - 60                                | 13.5 - 60 | 250 - 390             |
| NH-275PS-F-3J / PS-K-3J               | 26 x 26           | NPT1×1,G1X1     | 20 X 20     | 25 X 25     | 14.8 - 110                       | 17 - 120   | 11 - 60                                | 11 - 70   | 250 - 390             |
| NH-300PS / PS-F / PS-K                | 26 x 20           | NPT1×3/4,G1×3/4 | 20 X 16     | -----       | 20 - 50                          | 26 - 50    | 16 - 50                                | 21 - 50   | 330 - 460             |
| NH-300PS-3J / PS-F-3J / PS-K-3J       | 26 x 20           | NPT1×3/4,G1×3/4 | 20 X 16     | -----       | 20 - 50                          | 26 - 50    | 16 - 50                                | 21 - 50   | 330 - 460             |

# PS / PS-F / PS-K Series

## Parts List

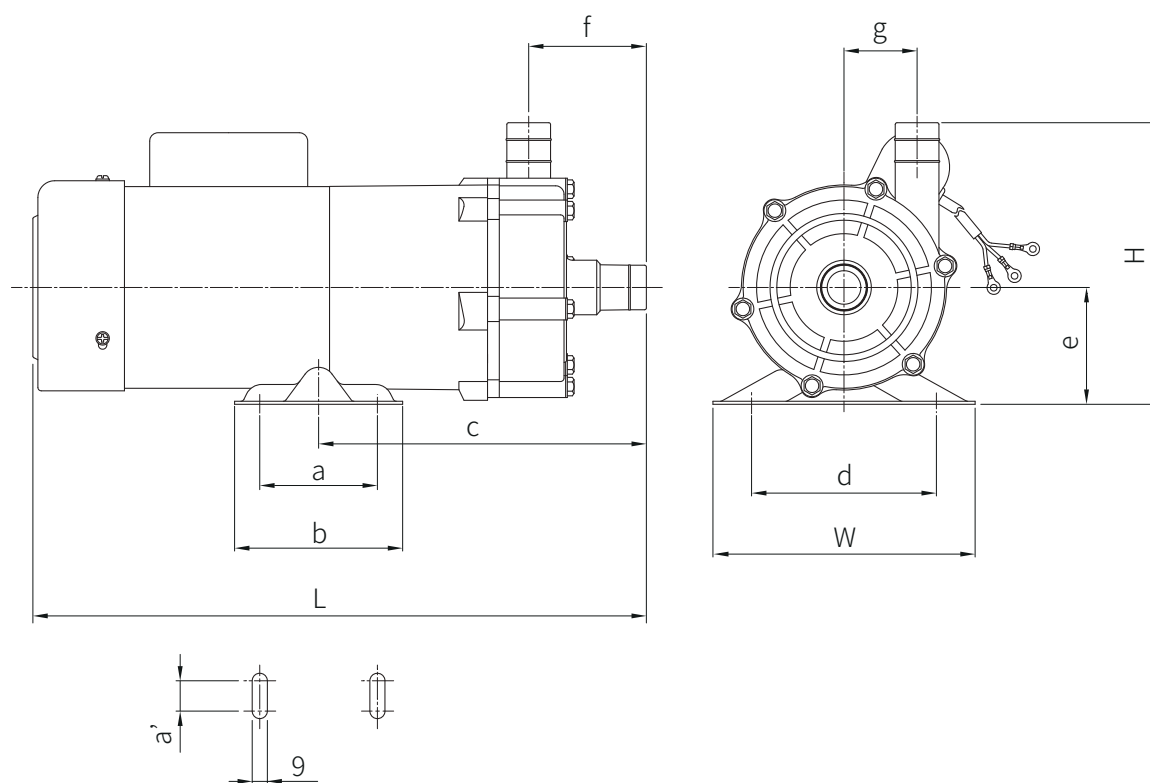


| Position | Description      |
|----------|------------------|
| 1        | Motor            |
| 2        | Front casing     |
| 3        | Rear casing      |
| 4        | Impeller ass'y   |
| 5        | Outer drive ring |
| 6        | Bearing          |
| 7        | Back up ring     |

| Position | Description                             |
|----------|-----------------------------------------|
| 8        | O. Ring                                 |
| 9        | O. Ring (x2)                            |
| 10       | Hexagon head bolt w/t plain washer (x6) |
| 11       | Set screw (x2)                          |
| 12       | Flange (x2)                             |
| 13       | Spindle                                 |

| Part name    | PS series   |       |         | PS-F series |       |         |     | PS-K series |       |         |     |
|--------------|-------------|-------|---------|-------------|-------|---------|-----|-------------|-------|---------|-----|
|              | CV          | RV    | AV      | FV          | RV    | AV      | Si  | FV          | RV    | AV      | Si  |
| ① Casing     | PPG         |       |         | ETFE        |       |         |     | PVDF        |       |         |     |
| ② Magnet     | Ferrite     |       |         |             |       |         |     |             |       |         |     |
| ③ Bearing    | H.D. Carbon | Rulon | Ceramic | H.D. Carbon | Rulon | Ceramic | Sic | H.D. Carbon | Rulon | Ceramic | Sic |
| ④ Thrust pad | Ceramic     |       |         |             |       | Ceramic |     |             |       |         |     |
| ⑤ Spindle    |             |       |         |             |       |         |     |             |       |         |     |
| ⑥ O Ring     | FKM         |       |         |             |       |         |     |             |       |         |     |

## ■ Installation dimension



| Model                                 | W   | H   | L   | a  | a' | b   | c   | d   | e    | f  | g    |
|---------------------------------------|-----|-----|-----|----|----|-----|-----|-----|------|----|------|
| NH-125PS / PS-F                       | 120 | 140 | 246 | 43 | 11 | 62  | 175 | 100 | 59.5 | 50 | 26   |
| NH-150PS / PS-F                       | 120 | 164 | 300 | 40 | 2  | 64  | 199 | 100 | 66   | 70 | 43.5 |
| NH-150PS-3J / PS-F-3J                 | 120 | 164 | 300 | 40 | 2  | 64  | 199 | 100 | 66   | 70 | 43.5 |
| NH-200PS-Z / PS-Z-F / PS-Z-K          | 156 | 165 | 355 | 70 | 18 | 100 | 205 | 110 | 66   | 70 | 43.5 |
| NH-200PS / PS-F / PS-K                | 156 | 165 | 355 | 70 | 18 | 100 | 205 | 110 | 66   | 70 | 43.5 |
| NH-200PS-Z-3J / PS-Z-F-3J / PS-Z-K-3J | 156 | 165 | 345 | 70 | 18 | 100 | 205 | 110 | 66   | 70 | 43.5 |
| NH-200PS-3J / PS-F-3J / PS-K-3J       | 156 | 165 | 345 | 70 | 18 | 100 | 205 | 110 | 66   | 70 | 43.5 |
| NH-250PS / PS-F / PS-K                | 156 | 165 | 365 | 70 | 18 | 100 | 195 | 110 | 66   | 70 | 43.5 |
| NH-250PS-3J / PS-F-3J / PS-K-3J       | 156 | 165 | 355 | 70 | 18 | 100 | 195 | 110 | 66   | 70 | 43.5 |
| NH-275PS / PS-F / PS-K                | 156 | 165 | 365 | 70 | 18 | 100 | 195 | 110 | 66   | 70 | 43.5 |
| NH-275PS-3J / PS-F-3J / PS-K-3J       | 156 | 165 | 355 | 70 | 18 | 100 | 195 | 110 | 66   | 70 | 43.5 |
| NH-300PS / PS-F / PS-K                | 160 | 175 | 385 | 80 | -  | 110 | 200 | 140 | 75   | 55 | 59   |
| NH-300PS-3J / PS-F-3J / PS-K-3J       | 160 | 175 | 375 | 80 | -  | 110 | 200 | 140 | 75   | 55 | 59   |

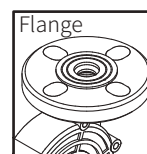
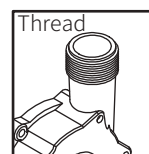
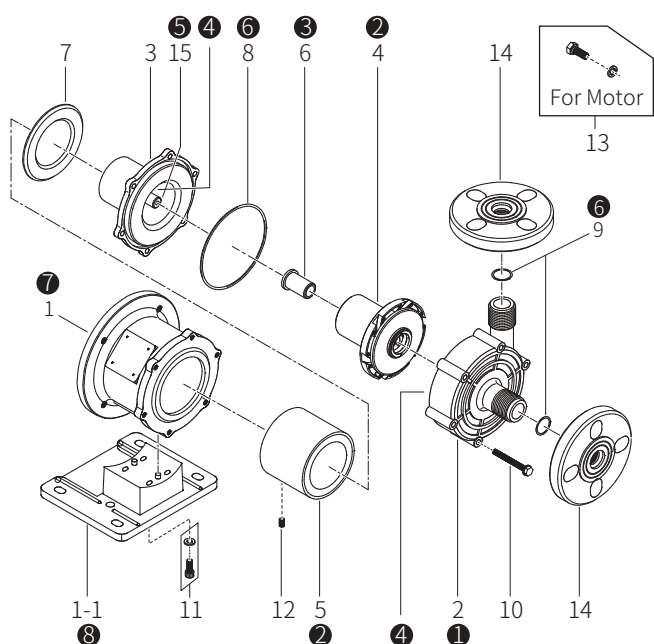
Note : Over all size & construction may be changed without notice.

Unit : mm

# PS / PS-F / PS-K Series

## Parts List

For 250PS-3E / PS-F-3E / PS-K-3E

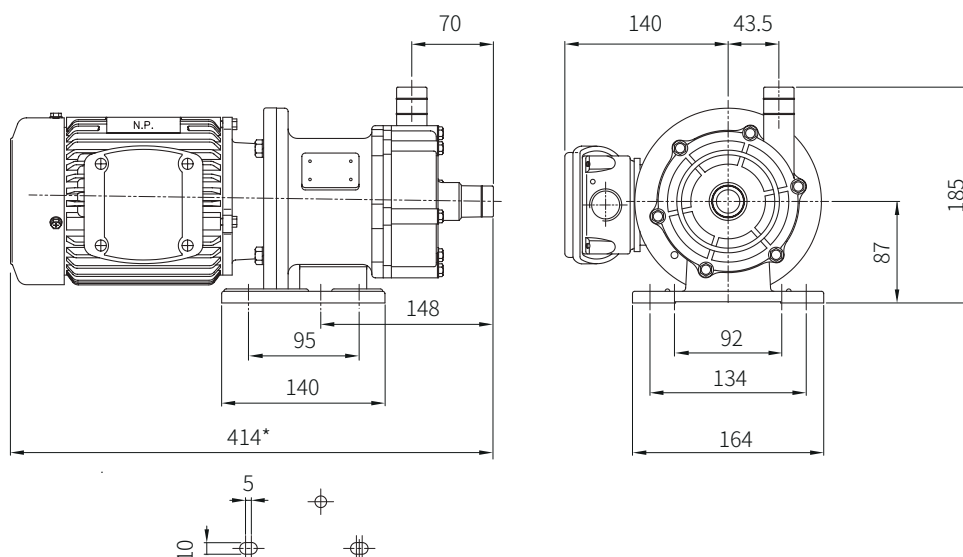


| Position | Description                               |
|----------|-------------------------------------------|
| 1        | Bracket                                   |
| 1-1      | Foot                                      |
| 2        | Front casing                              |
| 3        | Rear casing                               |
| 4        | Impeller ass'y                            |
| 5        | Outer drive ring                          |
| 6        | Bearing                                   |
| 7        | Back up ring                              |
| 8        | O. Ring                                   |
| 9        | O. Ring (x2)                              |
| 10       | Hexagon head bolt w/t plain washer (x6)   |
| 11       | Hexagon socket bolt w/t plain washer (x4) |
| 12       | Set screw (x2)                            |
| 13       | Hexagon head bolt w/t spring washer (x4)  |
| 14       | Flange (x2)                               |
| 15       | Spindle                                   |

| Part name    | 250PS-3E    |       |         | 250PS-F-3E  |       |         |     | 250PS-K-3E  |       |         |     |
|--------------|-------------|-------|---------|-------------|-------|---------|-----|-------------|-------|---------|-----|
|              | CV          | RV    | AV      | FV          | RV    | AV      | Si  | FV          | RV    | AV      | Si  |
| ① Casing     | PPG         |       |         | ETFE        |       |         |     | PVDF        |       |         |     |
| ② Magnet     | Ferrite     |       |         |             |       |         |     |             |       |         |     |
| ③ Bearing    | H.D. Carbon | Rulon | Ceramic | H.D. Carbon | Rulon | Ceramic | Sic | H.D. Carbon | Rulon | Ceramic | Sic |
| ④ Thrust pad | Ceramic     |       |         |             |       | Ceramic |     |             |       |         |     |
| ⑤ Spindle    |             |       |         |             |       |         |     |             |       |         |     |
| ⑥ O Ring     | FKM         |       |         |             |       |         |     |             |       |         |     |
| ⑦ Bracket    | FC-200      |       |         |             |       |         |     |             |       |         |     |
| ⑧ Foot       | PPG         |       |         |             |       |         |     |             |       |         |     |

## Installation dimension

Unit : mm



Note : Over all size & construction may be changed without notice.  
\* Depending on type of motor used.

# PS-N Series (Glass fiber reinforced PP)

## PS-N-K Series (Fluorine Resin)

### Self-Priming Magnetic Drive Pump

- Precision injection parts from glass fiber-reinforced PP or Fluorine Resin.
- Advanced design for effective gas and liquid separation.
- Maximum suction lift head up to 2 m.

|                      |                             |                |
|----------------------|-----------------------------|----------------|
| Model                | PS-N                        | PS-N-K         |
| Materials in Contact | : Glass fiber-reinforced PP | Fluorine Resin |
| Max Flow             | : 100 L/min                 | 100 L/min      |
| Max Head             | : 12.5 m                    | 12 m           |
| Liquid Temp.         | : 0°C~70°C                  | 0°C~80°C       |
| Motor Power          | : 0.25 kW                   | 0.25 kW        |



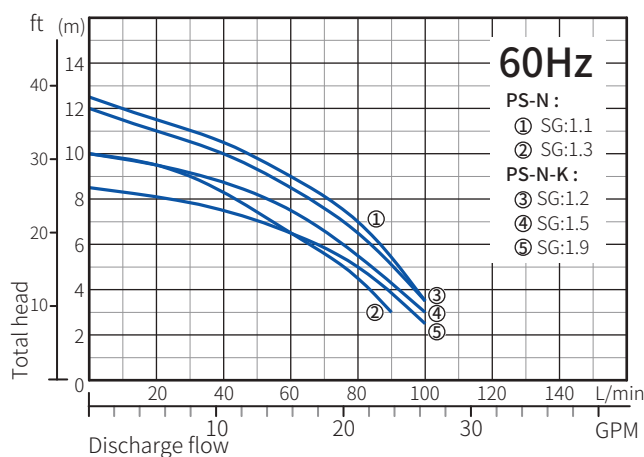
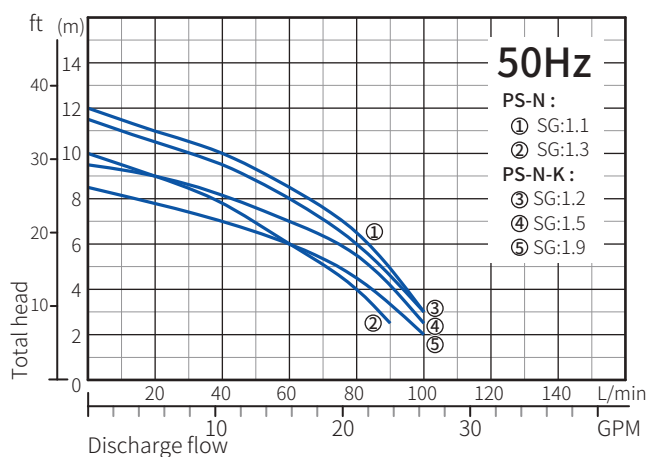
### Type indication

**N H - 2 5 0 P S - N - V - F - L**

①                      ②                      ③                      ④                      ⑤

|         |                                         |                     |                                               |                                                                                    |
|---------|-----------------------------------------|---------------------|-----------------------------------------------|------------------------------------------------------------------------------------|
| ① Model | ② Series                                | ③ O. Ring           | ④ Connection method                           | ⑤ Impeller size                                                                    |
|         | PS-N : GFRPP<br>PS-N-K : Fluorine Resin | V : FKM<br>E : EPDM | F : Flange<br>G : BS Thread<br>N : NPT Thread | PS-N : L S.G.=1.1<br>M S.G.=1.3<br>PS-N-K : L S.G.=1.2<br>M S.G.=1.5<br>H S.G.=1.9 |

### Pump performance curve



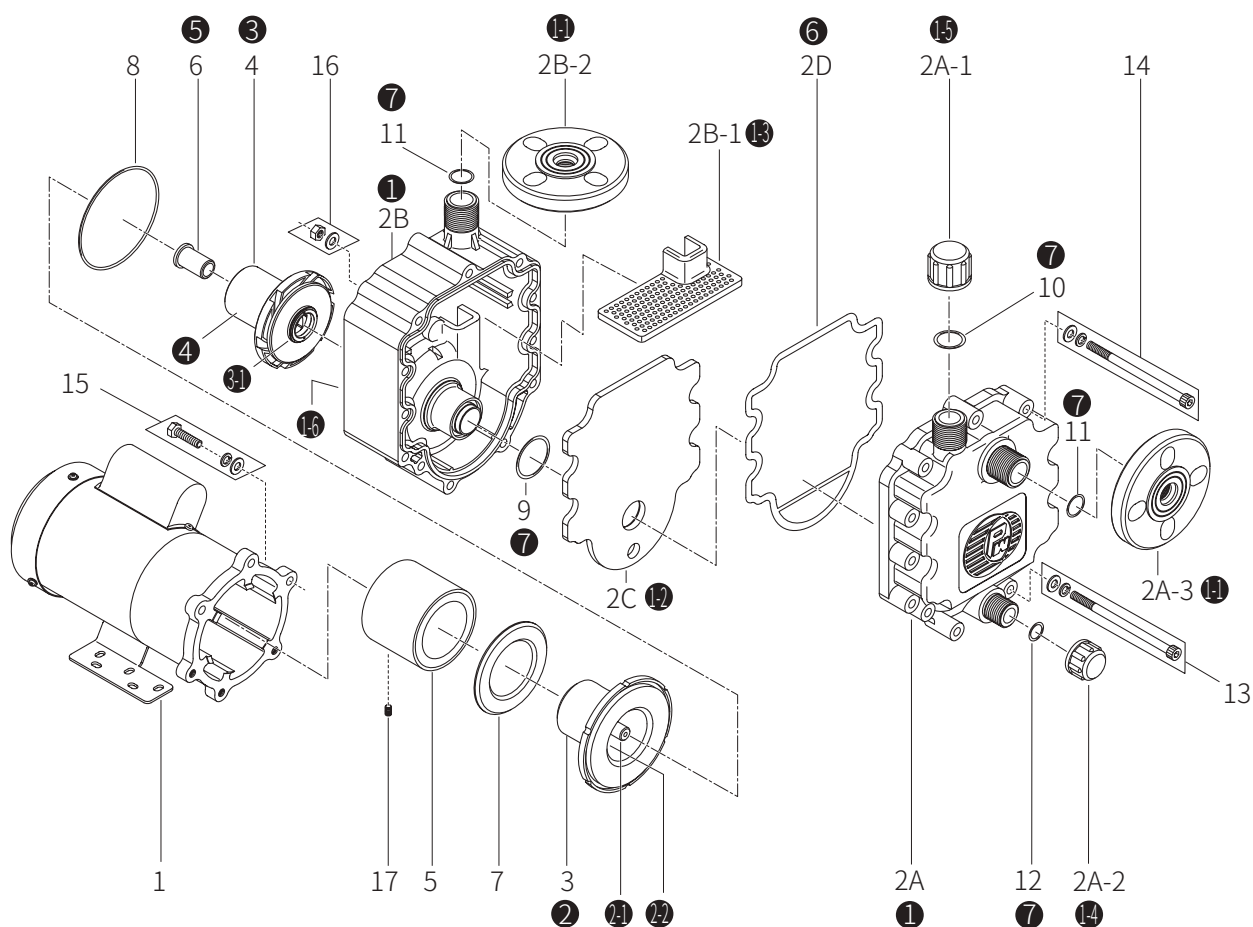
### Specification table

| Model        | Connection method |             | S.G. | Performance (m-L/min)        |            |                                            |          | Max Self Priming Lift head at S.G 1.0 (m) | Motor (kW) |
|--------------|-------------------|-------------|------|------------------------------|------------|--------------------------------------------|----------|-------------------------------------------|------------|
|              | Flange (mm)       | Thread (")  |      | Max capacity - max discharge |            | Capacity-discharge head at specified point |          |                                           |            |
|              | In x Outlet       | In x Outlet |      | 50Hz                         | 60Hz       | 50Hz                                       | 60Hz     |                                           |            |
| NH-250PS-N   | 25 x 25           | 1 x 1       | 1.1  | 12.0 - 100                   | 12.5 - 100 | 8.5 - 60                                   | 9.0 - 60 | 2                                         | 0.25       |
|              |                   |             | 1.3  | 10.0 - 90                    | 10.0 - 90  | 6.0 - 60                                   | 6.5 - 60 |                                           |            |
| NH-250PS-N-K | 25 x 25           | 1 x 1       | 1.2  | 11.5 - 100                   | 12.0 - 100 | 8.0 - 60                                   | 8.5 - 60 | 2                                         | 0.25       |
|              |                   |             | 1.5  | 9.5 - 100                    | 10.0 - 100 | 7.0 - 60                                   | 7.5 - 60 |                                           |            |
|              |                   |             | 1.9  | 8.5 - 100                    | 8.5 - 100  | 6.0 - 60                                   | 6.5 - 60 |                                           |            |

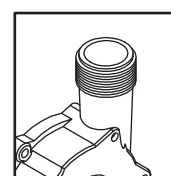
Note : 1. Max self-priming lift head is shown when horizontal pipe length of section inlet is max 0.5m.  
2. Max self-priming lift head is S.G. at 1.0

# PS-N / PS-N-K Series

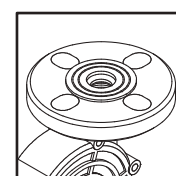
## Parts List



| Position | Description                                                    |
|----------|----------------------------------------------------------------|
| 1        | Motor                                                          |
| 2        | Self-priming chamber                                           |
| 2A       | Front casing chamber                                           |
| 2A-1     | Filler cap                                                     |
| 2A-2     | Drain cap                                                      |
| 2A-3     | Flange                                                         |
| 2B       | Rear casing chamber                                            |
| 2B-1     | Filter                                                         |
| 2B-2     | Flange                                                         |
| 2C       | Telescopic piece                                               |
| 2D       | Gasket                                                         |
| 3        | Rear casing                                                    |
| 4        | Impeller ass'y                                                 |
| 5        | Outer drive ring                                               |
| 6        | Bearing                                                        |
| 7        | Back up ring                                                   |
| 8        | O. Ring                                                        |
| 9        | O. Ring                                                        |
| 10       | O. Ring                                                        |
| 11       | O. Ring (x2)                                                   |
| 12       | O. Ring                                                        |
| 13       | Hexagon socket bolt w/t spring washer (x3)<br>w/t plain washer |
| 14       | Hexagon socket bolt w/t spring washer (x9)<br>w/t plain washer |
| 15       | Hexagon head bolt w/t spring washer (x3)<br>w/t plain washer   |
| 16       | NUT w/t plain washer (x9)                                      |
| 17       | Set screw (x2)                                                 |



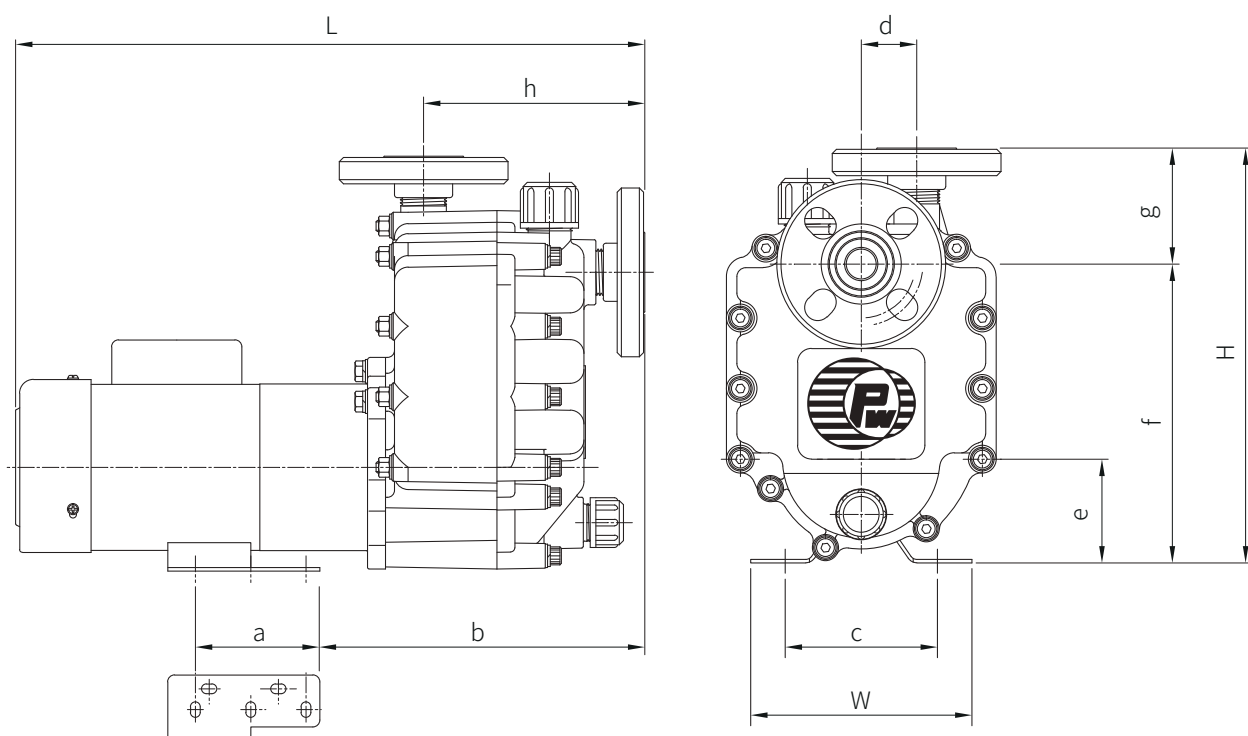
Thread



Flange

| Part name               | NH-250PS-N            |      | NH-250PS-N-K   |      |
|-------------------------|-----------------------|------|----------------|------|
|                         | V                     | E    | RV             | RE   |
| ① Self-priming chambers | GFRPP                 |      | Fluorine Resin |      |
| ⑬ Flange                |                       |      |                |      |
| ⑫ Telescopic piece      |                       |      |                |      |
| ⑬ Filter                |                       |      |                |      |
| ⑭ Drain cap             |                       |      |                |      |
| ⑮ Filler cap            |                       |      |                |      |
| ⑮ Thrust pad            | 99.5% Alumina ceramic |      |                |      |
| ② Rear casing           | GFRPP                 |      | ETFE           |      |
| ⑦ Spindle               | 99.5% Alumina ceramic |      |                |      |
| ⑦ Rear thrust pad       |                       |      |                |      |
| ③ Impeller              | GFRPP                 |      | ETFE           |      |
| ④ Mouth ring            | Rulon®                |      |                |      |
| ④ Magnet capsule        | GFRPP                 |      | ETFE           |      |
| ⑤ Bearing               | Rulon®                |      |                |      |
| ⑥ Gasket                | FKM                   | EPDM | FKM            | EPDM |
| ⑦ O Ring                |                       |      |                |      |

## ■ Installation dimension



| Model                     | W   | H   | L   | a  | b   | c   | d  | e  | f   | g  | h   |
|---------------------------|-----|-----|-----|----|-----|-----|----|----|-----|----|-----|
| NH-250PS-N / PS-N-K       | 160 | 300 | 455 | 80 | 245 | 110 | 40 | 75 | 216 | 84 | 160 |
| NH-250PS-N-3J / PS-N-K-3J | 160 | 300 | 445 | 80 | 245 | 110 | 40 | 75 | 216 | 84 | 160 |

Remark : PS-N(-K)/PS-N(-K)-3J The size in above table is shown with original motor.

Unit : mm

## PX-SP Series (Glass fiber-reinforced PP)

### Compact Magnetic Drive Pump with Self-Priming Chamber

- Designed for applications requiring a negative suction lift head.
- Available in 5 models with durable ceramic bearings and spindles.
- Standard hose, threaded, or union type connections.
- Achieves 1.2 m suction lift at S.G. 1.0.
- Suitable for top mounting on drum containers as a drum pump alternative.

**Materials in Contact** : Glass fiber-reinforced PP

**Max Flow** : 50 L/min

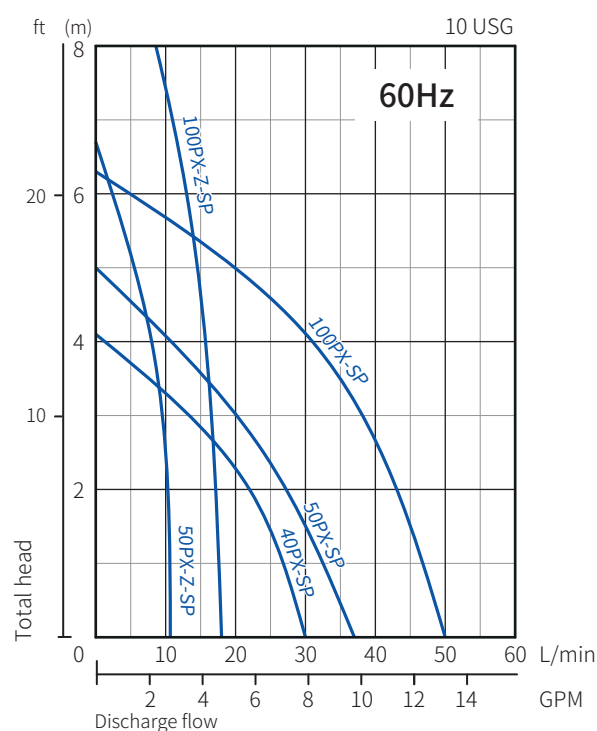
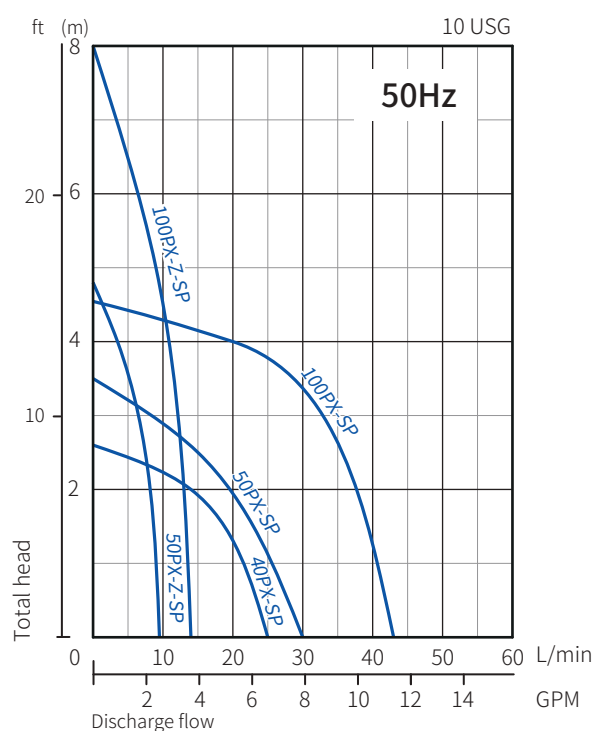
**Max Head** : 11 m

**Liquid Temp.** : 0°C~60°C

**Motor Power** : 20 W to 65 W



### Pump performance curve



### Specification table

| Model         | Connection method |             |             | Performance (m-L/min)        |             |                                    |            | Max Suction<br>Lift Head<br>(m) | Motor                 |
|---------------|-------------------|-------------|-------------|------------------------------|-------------|------------------------------------|------------|---------------------------------|-----------------------|
|               | Hose (mm)         | Thread (")  | Union (A)   | Max total head-max discharge |             | Specified head-specified discharge |            |                                 | Output x<br>Input (W) |
|               | In x Outlet       | In x Outlet | In x Outlet | 50Hz                         | 60Hz        | 50Hz                               | 60Hz       |                                 |                       |
| NH-40PX-SP    | 18 x 18           | G3/4 x 3/4  | 16 x 16     | 2.6 - 25.0                   | 4.1 - 30.0  | 2.0 - 14.0                         | 2.0 - 22.0 | 1.2                             | 20 - 40 / 45          |
| NH-50PX-Z-SP  | 18 x 18           | G3/4 x 3/4  | 16 x 16     | 4.8 - 9.5                    | 6.7 - 11.0  | 4.0 - 3.5                          | 4.0 - 8.0  | 1.2                             | 20 - 40 / 55          |
| NH-50PX-SP    | 20 x 20           | G3/4 x 3/4  | 16 x 16     | 3.5 - 30.0                   | 5.0 - 37.0  | 2.5 - 15.0                         | 2.5 - 24.0 | 1.2                             | 45 - 65 / 90          |
| NH-100PX-Z-SP | 18 x 18           | G3/4 x 3/4  | 16 x 16     | 8.0 - 14.0                   | 11.0 - 18.0 | 5.0 - 9.0                          | 6.0 - 13.0 | 1.2                             | 45 - 80 / 95          |
| NH-100PX-SP   | 20 x 20           | G3/4 x 3/4  | 16 x 16     | 4.6 - 43.0                   | 6.3 - 50.0  | 4.0 - 20.0                         | 4.0 - 31.0 | 1.2                             | 65 - 90 / 120         |

## PS-SP Series (Glass fiber-reinforced PP)

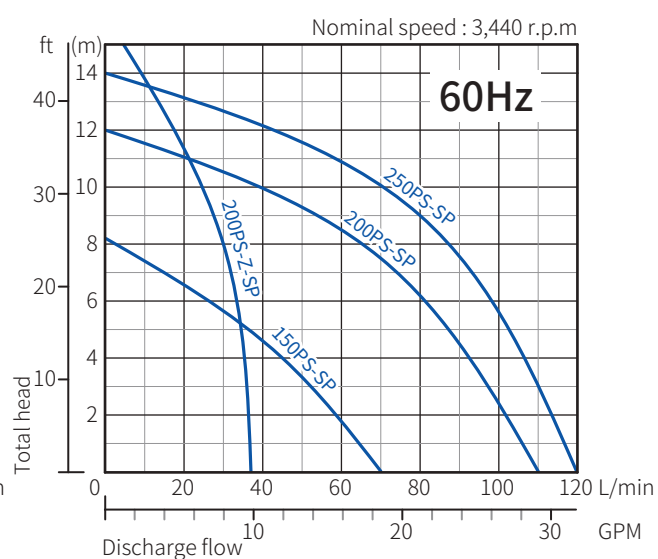
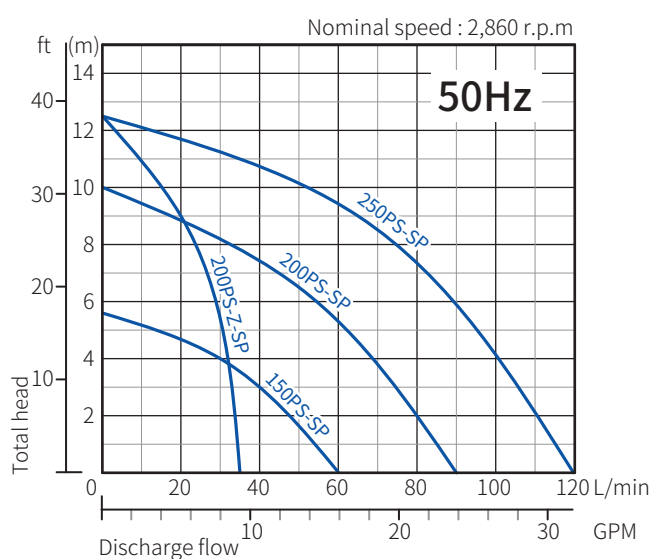
### Compact Magnetic Drive Pump with Self-Priming Chamber

- Designed for negative suction lift head applications, available in 7 models.
- Features durable ceramic bearings and spindles, along with SiC as wetted end components.
- Offers hose, threaded, flange, or union type connections.
- Achieves a suction lift of 2.2 m at S.G. 1.0, suitable for top mounting on drum containers.

|                      |                             |
|----------------------|-----------------------------|
| Materials in Contact | : Glass Fiber-reinforced PP |
| Max Flow             | : 120 L/min                 |
| Max Head             | : 16 m                      |
| Liquid Temp.         | : 0°C~70°C                  |
| Motor Power          | : 90 W to 250 W, JEM-0.2kW  |



### ■ Pump performance curve



### ■ Specification table

| Model          | Connection method |             |             |             | Performance (m-L/min)        |          |                                    |          | Max Suction Lift Head (m) | Motor Output x Input (W) | Net Weight (kg) |
|----------------|-------------------|-------------|-------------|-------------|------------------------------|----------|------------------------------------|----------|---------------------------|--------------------------|-----------------|
|                | Hose (mm)         | Thread (")  | Union (A)   | Flange (A)  | Max total head-max discharge |          | Specified head-specified discharge |          |                           |                          |                 |
|                | In x Outlet       | In x Outlet | In x Outlet | In x Outlet | 50Hz                         | 60Hz     | 50Hz                               | 60Hz     |                           |                          |                 |
| NH-150PS-SP    | 26 x 26           | NPT1x1,G1x1 | 20 x 20     | 25 x 25     | 5.6 - 60                     | 8.2 - 70 | 4 - 30                             | 4 - 45   | 2.2                       | 90-130/180               | 6               |
| NH-200PS-Z-SP  | 26 x 26           | NPT1x1,G1x1 | 20 x 20     | 25 x 25     | 12.5 - 35                    | 16 - 37  | 9 - 20                             | 8 - 30   | 2.2                       | 180-290                  | 8               |
| NH-200PS-SP    | 26 x 26           | NPT1x1,G1x1 | 20 x 20     | 25 x 25     | 10 - 90                      | 12 - 110 | 6.5 - 50                           | 7.5 - 70 | 2.2                       | 180-290                  | 8               |
| NH-200PS-SP-3J | 26 x 26           | NPT1x1,G1x1 | 20 x 20     | 25 x 25     | 10 - 90                      | 12 - 110 | 6.5 - 50                           | 7.5 - 70 | 2.2                       | 180-290                  | 8               |
| NH-250PS-SP    | 26 x 26           | NPT1x1,G1x1 | 20 x 20     | 25 x 25     | 12.5 - 120                   | 14 - 120 | 9 - 65                             | 9 - 80   | 2.2                       | 250-390                  | 8               |
| NH-250PS-SP-3J | 26 x 26           | NPT1x1,G1x1 | 20 x 20     | 25 x 25     | 12.5 - 120                   | 14 - 120 | 9 - 65                             | 9 - 80   | 2.2                       | 250-390                  | 10              |
| NH-250PS-SP-3E | 26 x 26           | NPT1x1,G1x1 | 20 x 20     | 25 x 25     | 12.5 - 120                   | 14 - 120 | 9 - 65                             | 9 - 80   | 2.2                       | JEM-0.2kW                | 15              |

## PW Series (PPG)

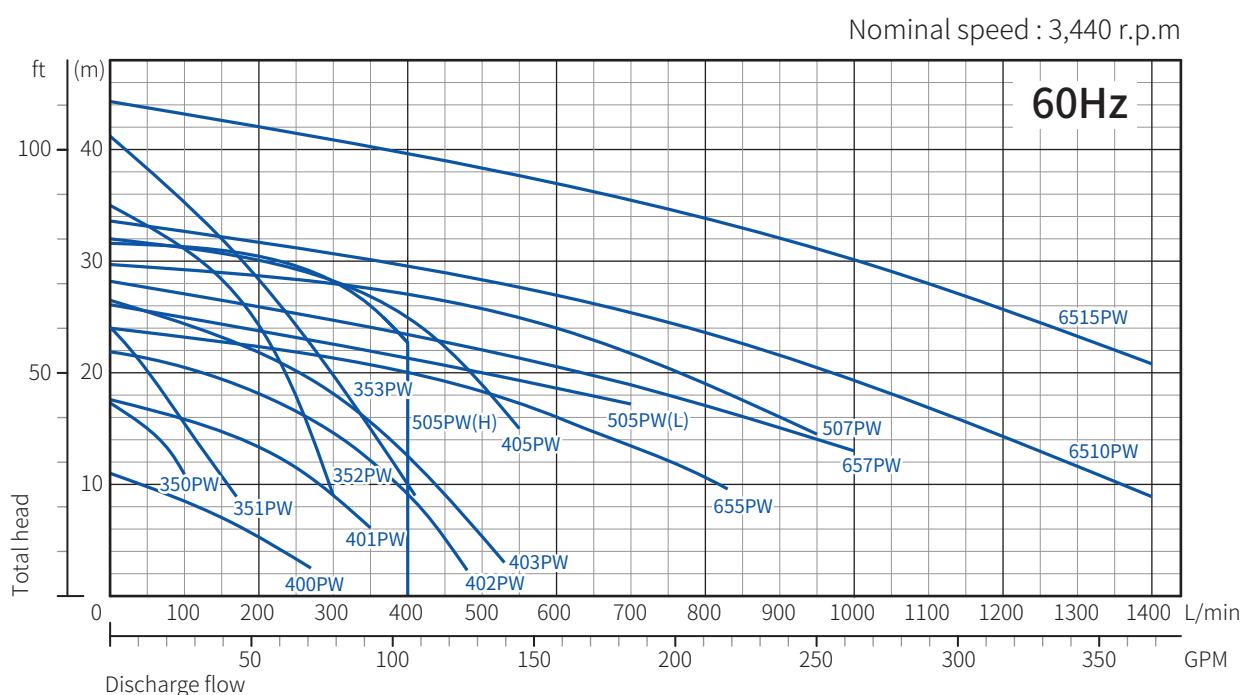
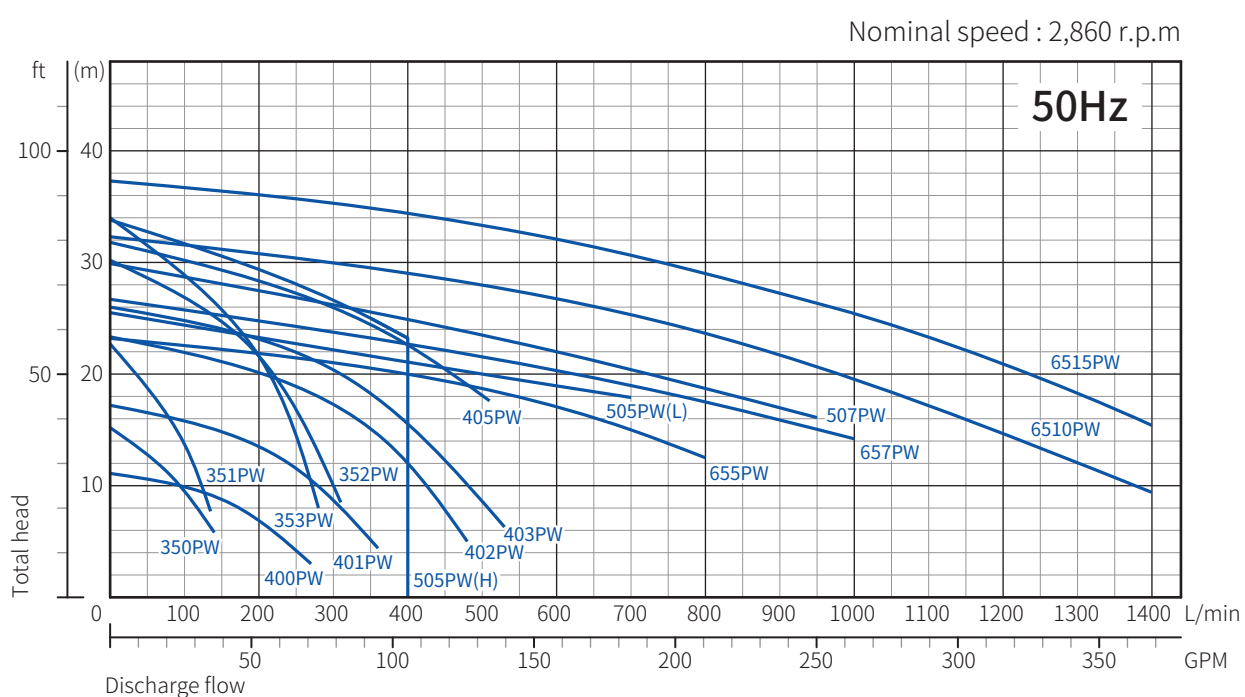
### General Purpose Magnetic Drive Pumps

- 16 models capable of handling a wide range of chemicals.
- Compatible with IEC and NEMA standard motors.
- Available with flange, G thread, or NPT thread connections.

|                        |                     |
|------------------------|---------------------|
| Materials in Contact   | : PPG               |
| Max Flow               | : 1,400 L/min       |
| Max Head               | : 44 m              |
| Liquid Temp.           | : 0°C~70°C          |
| Specific Gravity Limit | : Up to approx. 1.5 |
| Motor Power            | : 0.37 kW to 11 kW  |



### ■ Pump performance curve



## Type indication

**N H - 4 0 0 P W - C V - L - 0 4 C**

|          |                                                      |                                |                                                  |                                                                                                                        |                                                                 |
|----------|------------------------------------------------------|--------------------------------|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| ① Model  | ③ Bearing                                            | ④ O. Ring                      | ⑤ Impeller size                                  | ⑥ Motor output                                                                                                         | ⑦ Required motor                                                |
| ② Series | C : Carbon<br>R : Rulon<br>A : Oxide Alumina ceramic | V : FKM<br>N : NBR<br>E : EPDM | S S.G=1.0<br>L S.G=1.1<br>M S.G=1.3<br>H S.G=1.5 | 04 : 0.37 kW<br>07 : 0.75 kW<br>15 : 1.5 kW<br>22 : 2.2 kW<br>37 : 3.7 kW<br>55 : 5.5 kW<br>75 : 7.5 kW<br>110 : 11 kW | Without Indoor use<br>With B Explosion proof<br>C Weather proof |

## Specification table

| Model       | Flange size |            | Pump performance at specified point (m-L/min) |             |             | Applicable Motor output (kW) | Net weight w/t motor (kg) |
|-------------|-------------|------------|-----------------------------------------------|-------------|-------------|------------------------------|---------------------------|
|             | Inlet(mm)   | Outlet(mm) | Specific Gravity                              | 50Hz        | 60Hz        |                              |                           |
| NH-350PW    | 25          | 25         | 1.0                                           | 11.0 - 80   | 13.0 - 80   | 0.37                         | 16                        |
|             |             |            | 1.3                                           | 12.0 - 60   | 14.0 - 40   |                              |                           |
|             |             |            | 1.5                                           | 11.0 - 40   | 11.0 - 50   |                              |                           |
| NH-351PW    | 25          | 25         | 1.0                                           | 13.7 - 100  | 17.3 - 100  | 0.75                         | 30                        |
|             |             |            | 1.3                                           | 14.5 - 80   | 17.0 - 80   |                              |                           |
|             |             |            | 1.5                                           | 12.4 - 80   | 14.5 - 70   |                              |                           |
| NH-352PW    | 32          | 32         | 1.0                                           | 23.0 - 180  | 29.0 - 140  | 1.5                          | 43                        |
|             |             |            | 1.3                                           | 22.0 - 100  | 26.0 - 100  |                              |                           |
|             |             |            | 1.5                                           | 21.0 - 100  | 25.0 - 100  |                              |                           |
| NH-353PW    | 32          | 32         | 1.0                                           | 23.0 - 180  | 32.0 - 150  | 2.2                          | 51                        |
|             |             |            | 1.3                                           | 24.0 - 150  | 31.0 - 120  |                              |                           |
|             |             |            | 1.5                                           | 22.0 - 150  | 29.0 - 120  |                              |                           |
| NH-400PW    | 40          | 40         | 1.1                                           | 8.4 - 160   | 6.7 - 160   | 0.37                         | 21                        |
|             |             |            | 1.3                                           | 7.0 - 155   | 7.0 - 140   |                              |                           |
|             |             |            | 1.5                                           | 6.1 - 130   | 5.9 - 130   |                              |                           |
| NH-401PW    | 40          | 40         | 1.1                                           | 12.0 - 240  | 11.5 - 250  | 0.75                         | 30                        |
|             |             |            | 1.3                                           | 9.8 - 185   | 9.3 - 200   |                              |                           |
|             |             |            | 1.5                                           | 9.1 - 165   | 7.5 - 200   |                              |                           |
| NH-402PW    | 50          | 40         | 1.1                                           | 14.0 - 320  | 14.0 - 300  | 1.5                          | 45                        |
|             |             |            | 1.3                                           | 14.0 - 280  | 13.9 - 265  |                              |                           |
|             |             |            | 1.5                                           | 12.0 - 280  | 14.5 - 220  |                              |                           |
| NH-403PW    | 50          | 40         | 1.1                                           | 20.0 - 310  | 19.0 - 280  | 2.2                          | 47                        |
|             |             |            | 1.3                                           | 16.0 - 340  | 18.6 - 240  |                              |                           |
|             |             |            | 1.5                                           | 15.5 - 340  | 14.7 - 340  |                              |                           |
| NH-405PW    | 50          | 40         | 1.1                                           | 23.0 - 390  | 24.0 - 420  | 3.7                          | 70                        |
|             |             |            | 1.3                                           | 21.1 - 400  | 24.0 - 390  |                              |                           |
|             |             |            | 1.5                                           | 19.0 - 390  | 20.0 - 390  |                              |                           |
| NH-505PW(L) | 65          | 50         | 1.0                                           | 22.0 - 500  | 22.0 - 500  | 3.7                          | 72                        |
|             |             |            | 1.1                                           | 20.0 - 500  | 22.0 - 500  |                              |                           |
|             |             |            | 1.3                                           | 19.0 - 500  | 19.0 - 500  |                              |                           |
|             |             |            | 1.5                                           | 16.0 - 500  | 16.0 - 500  |                              |                           |
| NH-505PW(H) | 65          | 50         | 1.0                                           | 25.0 - 350  | 28.0 - 350  | 3.7                          | 72                        |
|             |             |            | 1.1                                           | 25.0 - 350  | 26.0 - 350  |                              |                           |
|             |             |            | 1.3                                           | 22.0 - 350  | 24.0 - 350  |                              |                           |
|             |             |            | 1.5                                           | 20.0 - 350  | 19.7 - 350  |                              |                           |
| NH-507PW    | 65          | 50         | 1.0                                           | 24.0 - 600  | 27.0 - 600  | 5.5                          | 99                        |
|             |             |            | 1.1                                           | 22.0 - 600  | 24.0 - 600  |                              |                           |
|             |             |            | 1.3                                           | 21.9 - 600  | 21.0 - 600  |                              |                           |
|             |             |            | 1.5                                           | 19.0 - 600  | 19.0 - 600  |                              |                           |
| NH-655PW    | 80          | 65         | 1.1                                           | 15.0 - 700  | 15.5 - 600  | 3.7                          | 110                       |
|             |             |            | 1.3                                           | 12.0 - 650  | -           |                              |                           |
|             |             |            | 1.5                                           | 10.2 - 570  | -           |                              |                           |
| NH-657PW    | 80          | 65         | 1.1                                           | 17.5 - 800  | 18.0 - 750  | 5.5                          | 120                       |
|             |             |            | 1.3                                           | 17.6 - 630  | 16.5 - 630  |                              |                           |
|             |             |            | 1.5                                           | 15.3 - 620  | 13.3 - 760  |                              |                           |
| NH-6510PW   | 80          | 65         | 1.1                                           | 23.4 - 780  | 23.4 - 800  | 7.5                          | 130                       |
|             |             |            | 1.3                                           | 22.7 - 640  | 19.6 - 770  |                              |                           |
|             |             |            | 1.5                                           | 17.5 - 800  | 18.1 - 670  |                              |                           |
| NH-6515PW   | 80          | 65         | 1.1                                           | 25.5 - 1040 | 29.5 - 1030 | 11                           | 140                       |
|             |             |            | 1.3                                           | 25.5 - 1040 | 31.5 - 650  |                              |                           |
|             |             |            | 1.5                                           | 25.2 - 880  | 24.6 - 850  |                              |                           |

## PW-F Series (ETFE)

### Magnetic Drive Pumps for Hazardous Chemical Transfer

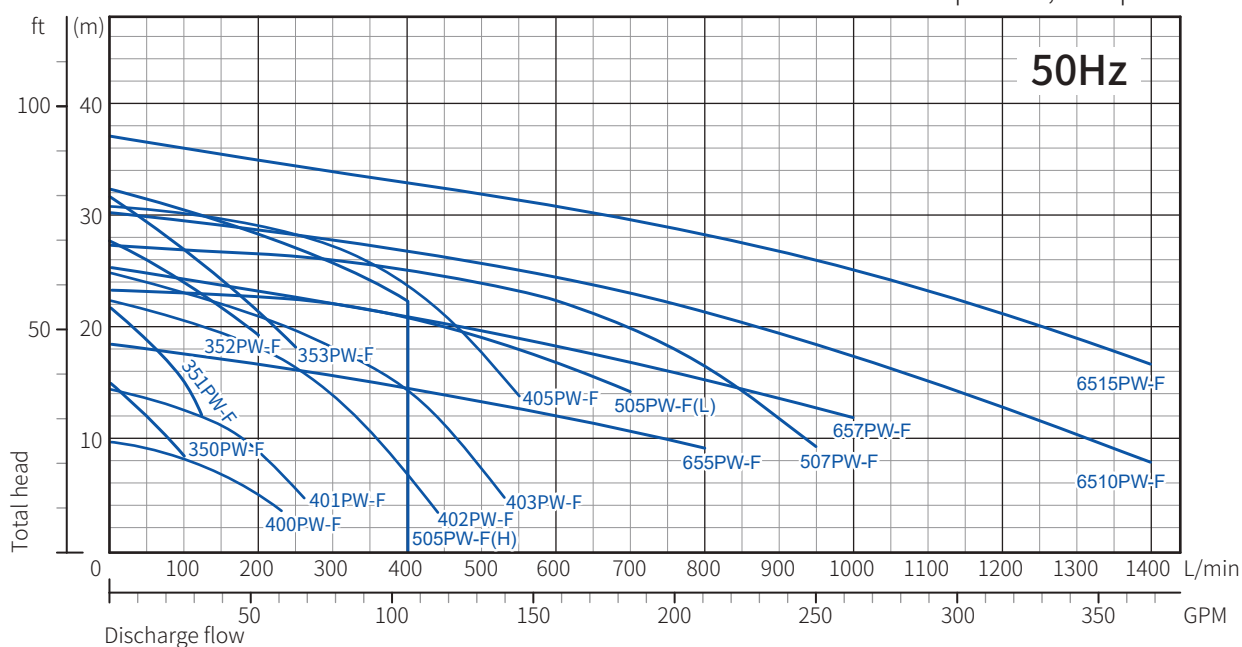
- 16 models suitable for nearly all types of chemicals.
- Compatible with IEC and NEMA standard motors.
- Available with flange, G thread, or NPT thread connections.

|                        |                     |
|------------------------|---------------------|
| Materials in Contact   | : ETFE              |
| Max Flow               | : 1,400 L/min       |
| Max Head               | : 42 m              |
| Liquid Temp.           | : 0°C~90°C          |
| Specific Gravity Limit | : Up to approx. 1.9 |
| Motor Power            | : 0.37 kW to 11 kW  |

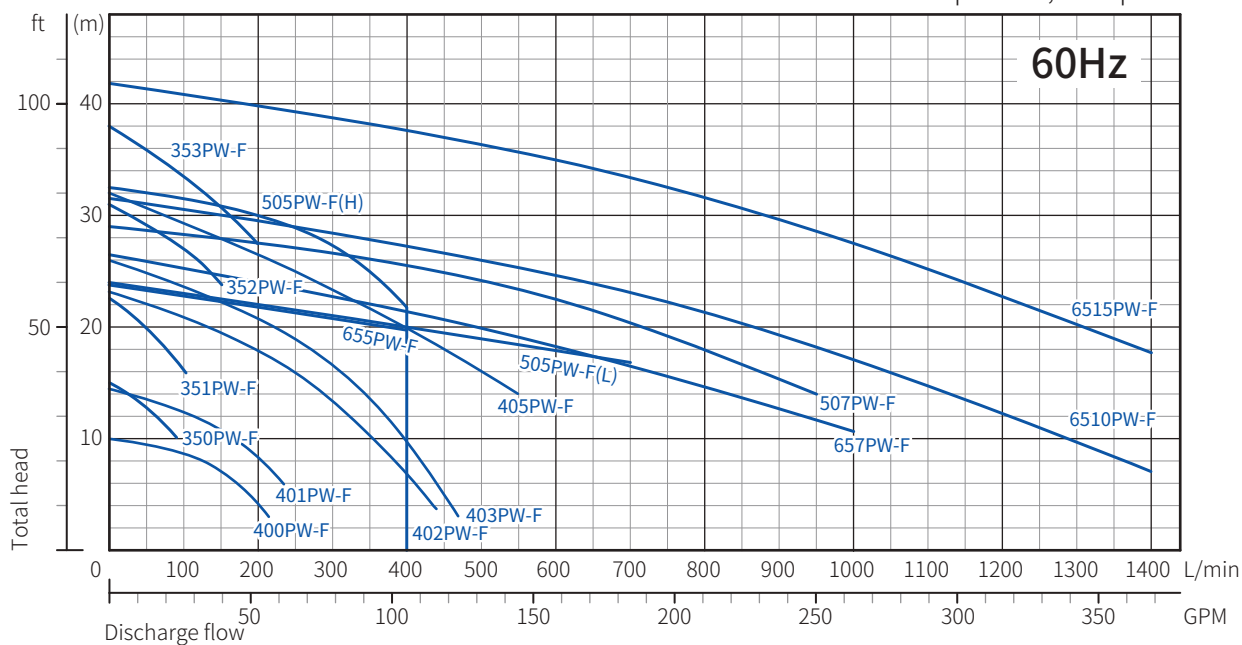


### Pump performance curve

Nominal speed : 2,860 r.p.m



Nominal speed : 3,440 r.p.m



## Type indication

**N H - 4 0 0 P W - F - F V - L - 0 4 C**

①                      ②                      ③   ④                      ⑤                      ⑥                      ⑦

① Model

② Series

③ Bearing

F : High density Carbon bearing - Ceramic spindle

R : Rulon bearing - Ceramic spindle

A : Ceramic bearing - Sic/Ceramic spindle

Si : Sic bearing - Sic spindle

④ O. Ring

V : FKM

N : NBR

E : EPDM

⑤ Impeller size

S S.G=1.0

L S.G=1.2

M S.G=1.5

H S.G=1.9

⑥ Motor output

04 : 0.37 kW

07 : 0.75 kW

15 : 1.5 kW

22 : 2.2 kW

37 : 3.7 kW

55 : 5.5 kW

75 : 7.5 kW

110 : 11 kW

⑦ Required motor

Without Indoor use

With B Explosion proof

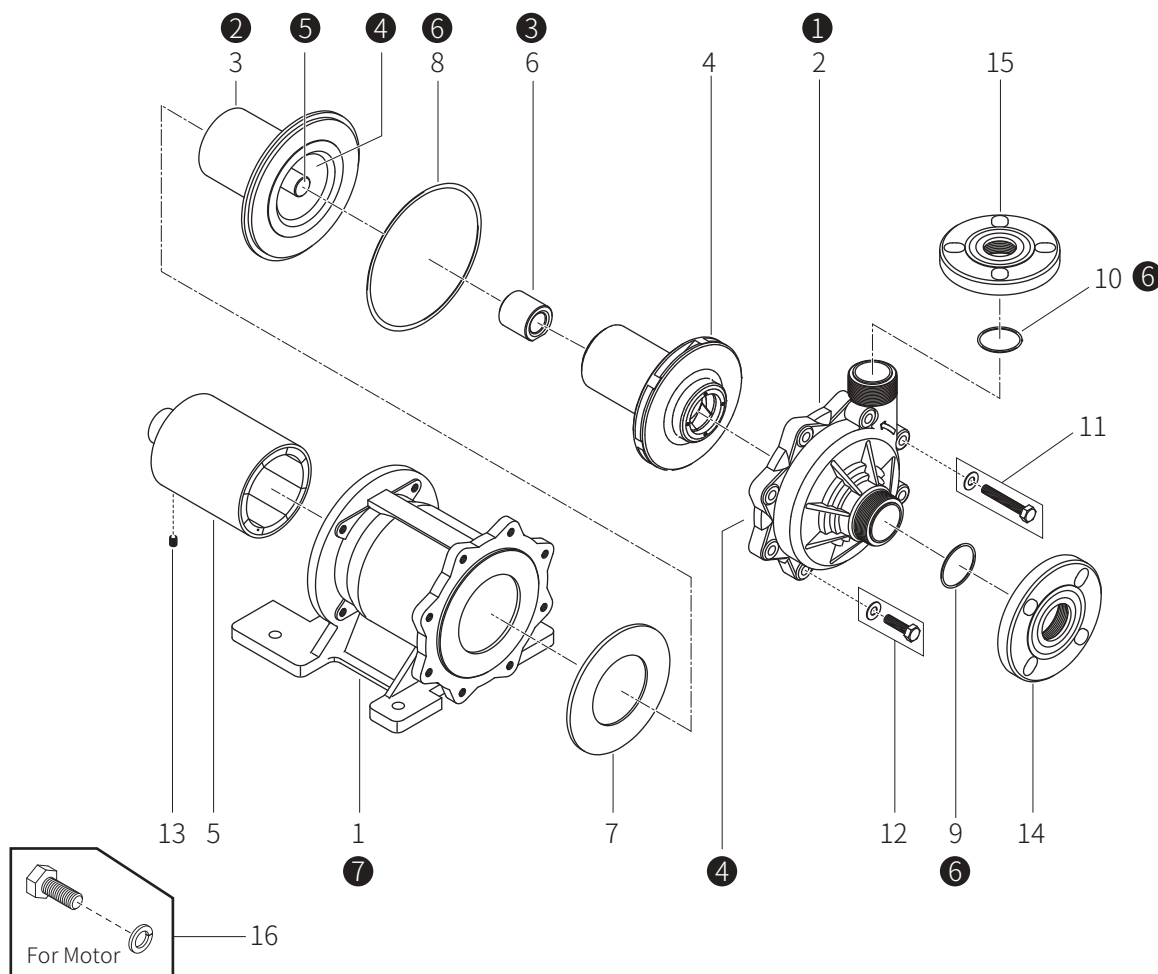
C Weather proof

## Specification table

| Model         | Flange size |            | Pump performance at specified point (m-L/min) |             |             | Applicable Motor output (kW) | Net weight w/t motor (kg) |
|---------------|-------------|------------|-----------------------------------------------|-------------|-------------|------------------------------|---------------------------|
|               | Inlet(mm)   | Outlet(mm) | Specific Gravity                              | 50Hz        | 60Hz        |                              |                           |
| NH-350PW-F    | 25          | 25         | 1.2                                           | 10.0 - 80   | 11.0 - 80   | 0.37                         | 16                        |
|               |             |            | 1.5                                           | 11.0 - 40   | 11.0 - 50   |                              |                           |
|               |             |            | 1.9                                           | 6.0 - 50    | 7.0 - 60    |                              |                           |
| NH-351PW-F    | 25          | 25         | 1.2                                           | 15.0 - 100  | 17.0 - 80   | 0.75                         | 30                        |
|               |             |            | 1.5                                           | 12.4 - 80   | 14.5 - 70   |                              |                           |
|               |             |            | 1.9                                           | 12.0 - 80   | 14.5 - 20   |                              |                           |
| NH-352PW-F    | 32          | 32         | 1.2                                           | 23.0 - 100  | 27.0 - 100  | 1.5                          | 44                        |
|               |             |            | 1.5                                           | 21.0 - 100  | 25.0 - 100  |                              |                           |
|               |             |            | 1.9                                           | 18.0 - 100  | 21.0 - 100  |                              |                           |
| NH-353PW-F    | 32          | 32         | 1.2                                           | 24.0 - 150  | 32.0 - 120  | 2.2                          | 51                        |
|               |             |            | 1.5                                           | 22.0 - 150  | 29.0 - 120  |                              |                           |
|               |             |            | 1.9                                           | 19.0 - 150  | 25.0 - 120  |                              |                           |
| NH-400PW-F    | 40          | 40         | 1.2                                           | 7.4 - 135   | 8.0 - 110   | 0.37                         | 21                        |
|               |             |            | 1.5                                           | 6.5 - 135   | 5.2 - 135   |                              |                           |
|               |             |            | 1.9                                           | 4.7 - 120   | 3.9 - 120   |                              |                           |
| NH-401PW-F    | 40          | 40         | 1.2                                           | 10.0 - 180  | 9.5 - 180   | 0.75                         | 30                        |
|               |             |            | 1.5                                           | 8.5 - 160   | 8.8 - 160   |                              |                           |
|               |             |            | 1.9                                           | 6.0 - 175   | 5.2 - 175   |                              |                           |
| NH-402PW-F    | 50          | 40         | 1.2                                           | 16.0 - 260  | 15.5 - 260  | 1.5                          | 45                        |
|               |             |            | 1.5                                           | 13.0 - 240  | 13.5 - 240  |                              |                           |
|               |             |            | 1.9                                           | 10.0 - 280  | 7.9 - 280   |                              |                           |
| NH-403PW-F    | 50          | 40         | 1.2                                           | 17.0 - 330  | 15.0 - 330  | 2.2                          | 47                        |
|               |             |            | 1.5                                           | 15.0 - 310  | 16.3 - 310  |                              |                           |
|               |             |            | 1.9                                           | 14.0 - 280  | 13.0 - 280  |                              |                           |
| NH-405PW-F    | 50          | 40         | 1.2                                           | 24.5 - 390  | 20.5 - 390  | 3.7                          | 70                        |
|               |             |            | 1.5                                           | 20.5 - 310  | 20.3 - 350  |                              |                           |
|               |             |            | 1.9                                           | 15.2 - 220  | 19.3 - 290  |                              |                           |
| NH-505PW-F(L) | 65          | 50         | 1.2                                           | 19.0 - 500  | 20.0 - 500  | 3.7                          | 72                        |
|               |             |            | 1.5                                           | 16.0 - 500  | 16.0 - 500  |                              |                           |
|               |             |            | 1.9                                           | 13.0 - 500  | 11.0 - 500  |                              |                           |
| NH-505PW-F(H) | 65          | 50         | 1.2                                           | 24.3 - 350  | 25.0 - 350  | 3.7                          | 72                        |
|               |             |            | 1.5                                           | 20.0 - 350  | 19.7 - 350  |                              |                           |
|               |             |            | 1.9                                           | 20.0 - 350  | 17.0 - 350  |                              |                           |
| NH-507PW-F    | 65          | 50         | 1.2                                           | 21.5 - 600  | 22.5 - 600  | 5.5                          | 99                        |
|               |             |            | 1.5                                           | 19.0 - 600  | 19.5 - 600  |                              |                           |
|               |             |            | 1.9                                           | 16.0 - 600  | 15.0 - 600  |                              |                           |
| NH-655PW-F    | 80          | 65         | 1.2                                           | 12.2 - 600  | 19.8 - 400  | 3.7                          | 110                       |
|               |             |            | 1.5                                           | 11.0 - 540  | -           |                              |                           |
|               |             |            | 1.9                                           | -           | -           |                              |                           |
| NH-657PW-F    | 80          | 65         | 1.2                                           | 17.0 - 700  | 18.0 - 620  | 5.5                          | 120                       |
|               |             |            | 1.5                                           | 15.3 - 625  | 13.5 - 750  |                              |                           |
|               |             |            | 1.9                                           | 11.3 - 660  | -           |                              |                           |
| NH-6510PW-F   | 80          | 65         | 1.2                                           | 22.2 - 760  | 20.7 - 830  | 7.5                          | 130                       |
|               |             |            | 1.5                                           | 18.9 - 720  | 18.0 - 680  |                              |                           |
|               |             |            | 1.9                                           | 15.5 - 660  | 15.0 - 720  |                              |                           |
| NH-6515PW-F   | 80          | 65         | 1.2                                           | 26.8 - 1080 | 24.0 - 1110 | 11                           | 140                       |
|               |             |            | 1.5                                           | 26.0 - 815  | 26.0 - 800  |                              |                           |
|               |             |            | 1.9                                           | 24.1 - 600  | 20.5 - 835  |                              |                           |

# PW / PW-F Series

## Parts List



| Position | Description      |
|----------|------------------|
| 1        | Bracket          |
| 2        | Front casing     |
| 3        | Rear casing      |
| 4        | Impeller ass'y   |
| 5        | Outer drive ring |
| 6        | Bearing ass'y    |
| 7        | Back up ring     |
| 8        | O. Ring          |

| Position | Description                              |
|----------|------------------------------------------|
| 9        | O. Ring                                  |
| 10       | O. Ring                                  |
| 11       | Hexagon head bolt w/t plain washer (x3)  |
| 12       | Hexagon head bolt w/t plain washer (x5)  |
| 13       | Set screw (x2)                           |
| 14       | Flange                                   |
| 15       | Flange                                   |
| 16       | Hexagon head bolt w/t spring washer (x4) |

| Part name    | PW series      |       |         |             |         | PW-F series |       |         |             |     |
|--------------|----------------|-------|---------|-------------|---------|-------------|-------|---------|-------------|-----|
|              | CV             | RV    | AV      | CN          | AN      | FV          | RV    | AV      | FN          | Si  |
| ① Casing     | PPG            |       |         |             |         | ETFE        |       |         |             |     |
| ② Holder     |                |       |         |             |         |             |       |         |             |     |
| ③ Bearing    | H.D. Carbon    | Rulon | Ceramic | H.D. Carbon | Ceramic | H.D. Carbon | Rulon | Ceramic | H.D. Carbon | Sic |
| ④ Thrust pad | Ceramic        |       |         |             |         |             |       |         |             |     |
| ⑤ Spindle    |                |       |         |             |         |             |       |         |             |     |
| ⑥ O Ring     | FKM            |       |         | NBR         |         | FKM         |       |         | NBR         | FKM |
| ⑦ Bracket    | Grey cast iron |       |         |             |         |             |       |         |             |     |

## PW-K Series (Fluorine Resin)

### Sealless Magnetic Drive Pump

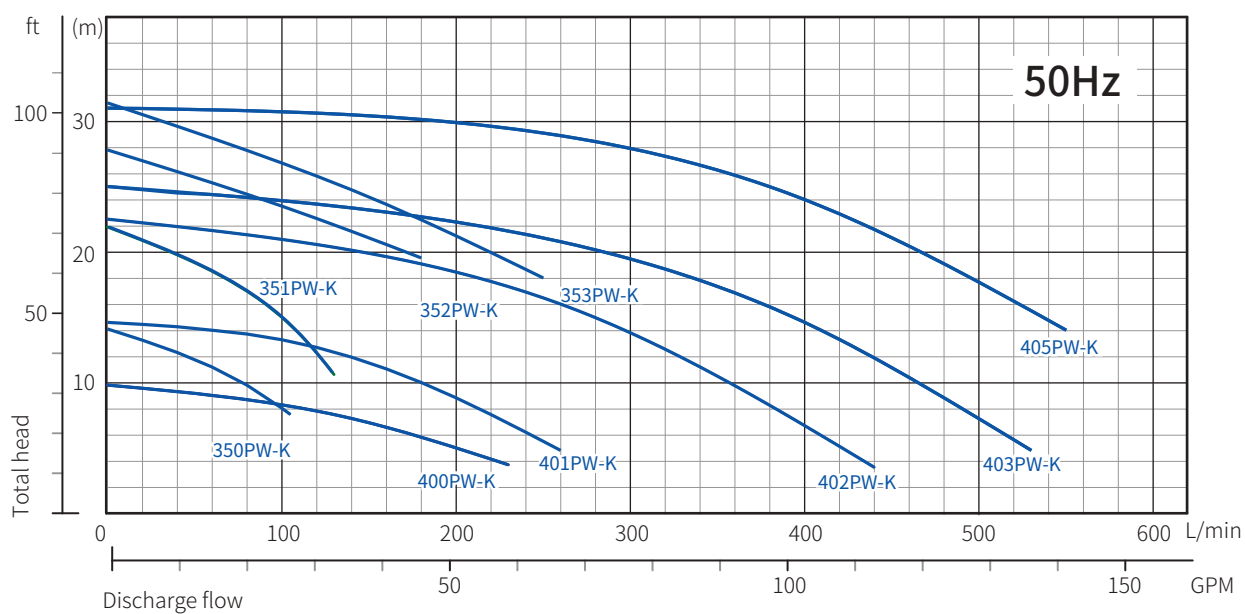
- Constructed from precision-injection molded fluorine resin for reliable chemical resistance.
- Capable of accommodating a wide variety of chemicals.
- Adaptable with standard IEC and NEMA motors.

|                        |                     |
|------------------------|---------------------|
| Materials in Contact   | : PVDF              |
| Max Flow               | : 550 L/min         |
| Max Head               | : 36.5 m            |
| Liquid Temp.           | : 0°C~80°C          |
| Specific Gravity Limit | : Up to approx. 1.9 |
| Motor Power            | : 0.37 kW to 3.7 kW |

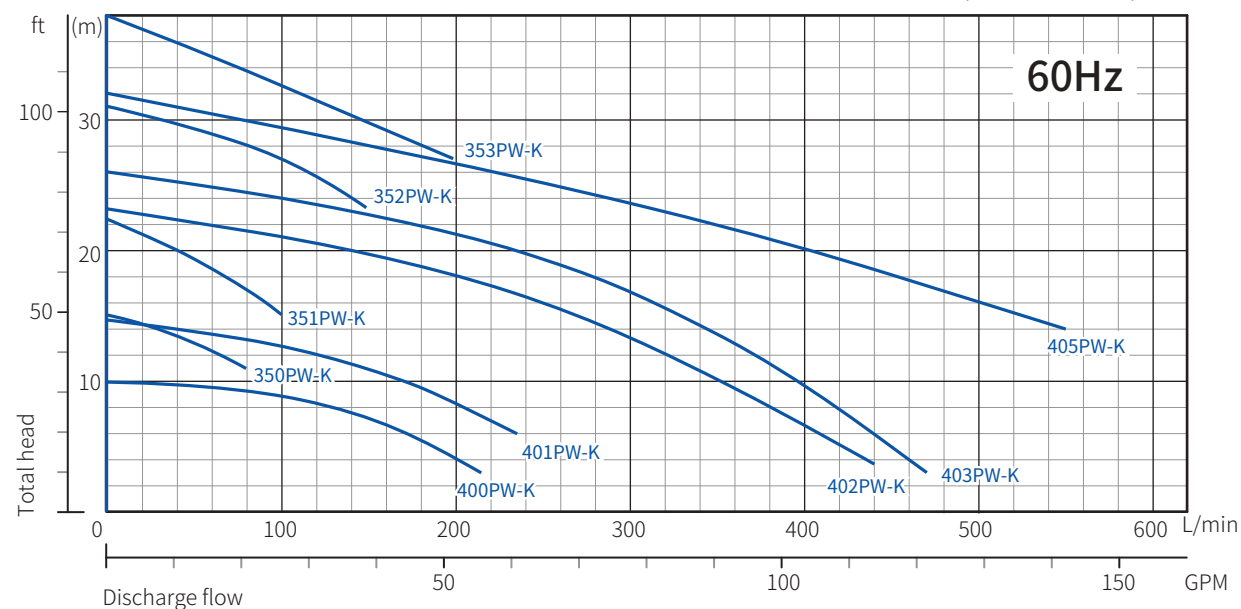


### ■ Pump performance curve

Nominal speed : 2,860 r.p.m



Nominal speed : 3,440 r.p.m



# PW-K Series

## Type indication

**N H - 4 0 0 P W - K - F V - L - 0 4 C**

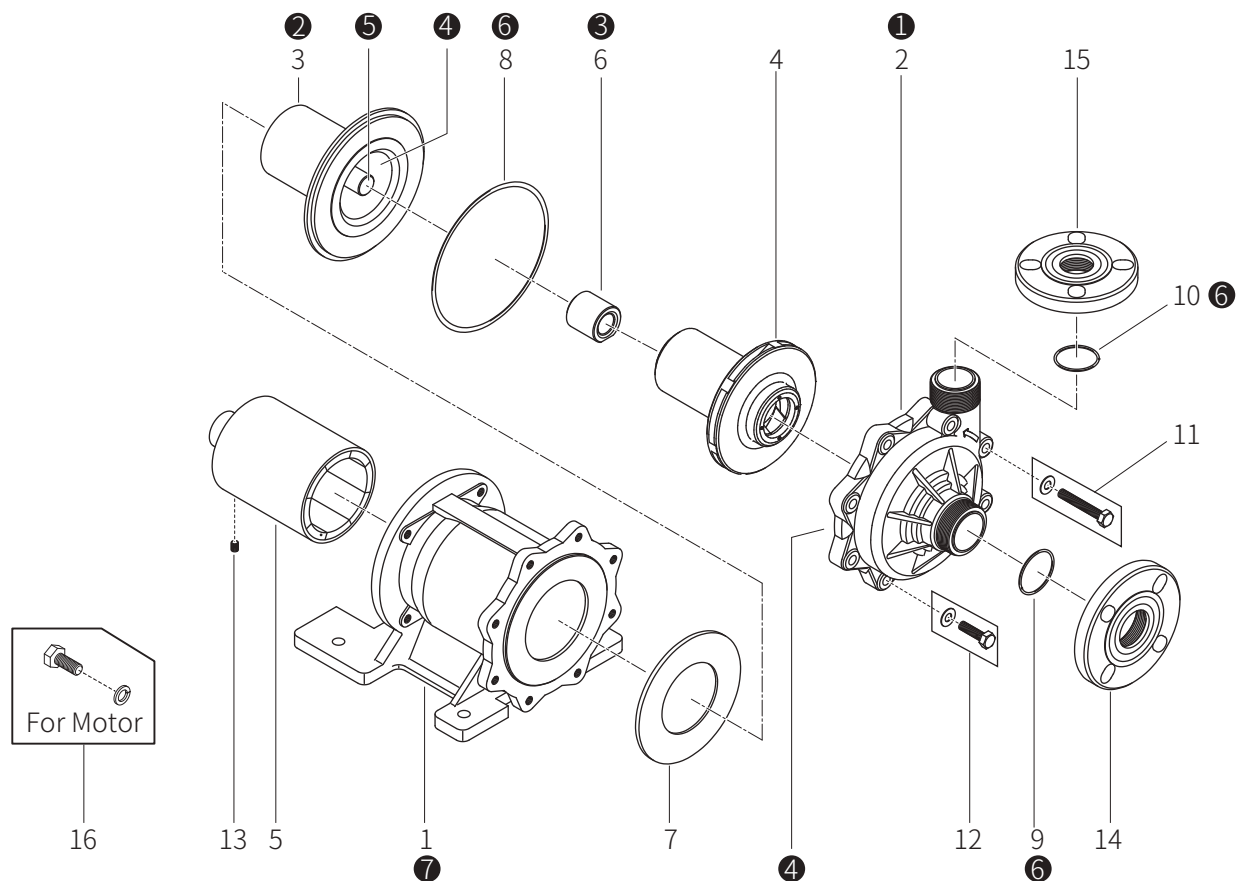
①      ②      ③      ④ ⑤      ⑥      ⑦      ⑧

- |                                                                            |                                                                                                    |                                                                                            |                                                                                                                                                                                             |                                                    |
|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| <b>① Bore</b><br>40mm<br>Discharge bore                                    | <b>② Motor output</b><br>0 : 0.37 kW<br>1 : 0.75 kW<br>2 : 1.5 kW<br>3 : 2.2 kW<br>5 : 3.7 kW      | <b>③ Series</b>                                                                            | <b>④ Bearing</b><br>F : High density Carbon bearing - Ceramic spindle<br>R : Rulon bearing - Ceramic spindle<br>A : Ceramic bearing - Sic/Ceramic spindle<br>Si : Sic bearing - Sic spindle | <b>⑤ O. Ring</b><br>V : FKM<br>N : NBR<br>E : EPDM |
| <b>⑥ Impeller size</b><br>S S.G=1.0<br>L S.G=1.2<br>M S.G=1.5<br>H S.G=1.9 | <b>⑦ Motor output</b><br>04 : 0.37 kW<br>07 : 0.75 kW<br>15 : 1.5 kW<br>22 : 2.2 kW<br>37 : 3.7 kW | <b>⑧ Required motor</b><br>Without Indoor use<br>With B Explosion proof<br>C Weather proof |                                                                                                                                                                                             |                                                    |

## Specification table

| Model      | Flange size |            | Pump performance at specified point (m-L/min) |            |            | Applicable Motor output (kW) |
|------------|-------------|------------|-----------------------------------------------|------------|------------|------------------------------|
|            | Inlet(mm)   | Outlet(mm) | Specific Gravity                              | 50Hz       | 60Hz       |                              |
| NH-350PW-K | 25          | 25         | 1.2                                           | 10.0 - 80  | 11.0 - 80  | 0.37                         |
|            |             |            | 1.5                                           | 11.0 - 40  | 11.0 - 50  |                              |
|            |             |            | 1.9                                           | 6.0 - 50   | 7.0 - 60   |                              |
| NH-351PW-K | 25          | 25         | 1.2                                           | 15.0 - 100 | 17.0 - 80  | 0.75                         |
|            |             |            | 1.5                                           | 12.4 - 80  | 14.5 - 70  |                              |
|            |             |            | 1.9                                           | 12.0 - 80  | 14.5 - 20  |                              |
| NH-352PW-K | 32          | 32         | 1.2                                           | 23.0 - 100 | 27.0 - 100 | 1.5                          |
|            |             |            | 1.5                                           | 21.0 - 100 | 25.0 - 100 |                              |
|            |             |            | 1.9                                           | 18.0 - 100 | 21.0 - 100 |                              |
| NH-353PW-K | 32          | 32         | 1.2                                           | 24.0 - 150 | 32.0 - 120 | 2.2                          |
|            |             |            | 1.5                                           | 22.0 - 150 | 29.0 - 120 |                              |
|            |             |            | 1.9                                           | 19.0 - 150 | 25.0 - 120 |                              |
| NH-400PW-K | 40          | 40         | 1.2                                           | 7.4 - 135  | 8.0 - 110  | 0.37                         |
|            |             |            | 1.5                                           | 6.5 - 135  | 5.2 - 135  |                              |
|            |             |            | 1.9                                           | 4.7 - 120  | 3.9 - 120  |                              |
| NH-401PW-K | 40          | 40         | 1.2                                           | 10.0 - 180 | 9.5 - 180  | 0.75                         |
|            |             |            | 1.5                                           | 8.5 - 160  | 8.8 - 160  |                              |
|            |             |            | 1.9                                           | 6.0 - 175  | 5.2 - 175  |                              |
| NH-402PW-K | 50          | 40         | 1.2                                           | 16.0 - 260 | 15.5 - 260 | 1.5                          |
|            |             |            | 1.5                                           | 13.0 - 240 | 13.5 - 240 |                              |
|            |             |            | 1.9                                           | 10.0 - 280 | 7.9 - 280  |                              |
| NH-403PW-K | 50          | 40         | 1.2                                           | 17.0 - 330 | 15.0 - 330 | 2.2                          |
|            |             |            | 1.5                                           | 15.0 - 310 | 16.3 - 310 |                              |
|            |             |            | 1.9                                           | 14.0 - 280 | 13.0 - 280 |                              |
| NH-405PW-K | 50          | 40         | 1.2                                           | 24.5 - 390 | 20.5 - 390 | 3.7                          |
|            |             |            | 1.5                                           | 20.5 - 310 | 20.3 - 350 |                              |
|            |             |            | 1.9                                           | 15.2 - 220 | 19.3 - 290 |                              |

## Parts List



| Position | Description                              |
|----------|------------------------------------------|
| 1        | Bracket                                  |
| 2        | Front casing                             |
| 3        | Rear casing                              |
| 4        | Impeller ass'y                           |
| 5        | Outer drive ring                         |
| 6        | Bearing ass'y                            |
| 7        | Back up ring                             |
| 8        | O. Ring                                  |
| 9        | O. Ring                                  |
| 10       | O. Ring                                  |
| 11       | Hexagon head bolt w/t plain washer (x3)  |
| 12       | Hexagon head bolt w/t plain washer (x5)  |
| 13       | Set screw (x2)                           |
| 14       | Flange                                   |
| 15       | Flange                                   |
| 16       | Hexagon head bolt w/t spring washer (x4) |

| Part name    | PW-K series    |       |         |             |     |
|--------------|----------------|-------|---------|-------------|-----|
|              | FV             | RV    | AV      | FN          | Si  |
| ① Casing     | Fluorine Resin |       |         |             |     |
| ② Holder     | ETFE           |       |         |             |     |
| ③ Bearing    | H.D. Carbon    | Rulon | Ceramic | H.D. Carbon | Sic |
| ④ Thrust pad | Ceramic        |       |         |             |     |
| ⑤ Spindle    |                |       |         |             |     |
| ⑥ O Ring     | FKM            |       |         | NBR         | FKM |
| ⑦ Bracket    | Grey cast iron |       |         |             |     |

## PWE Series (PPG)

### General Purpose Magnetic Drive Pumps with Glass-filled Polypropylene Bracket

- Glass-filled polypropylene bracket is ideal for harsh chemical environments.
- Handles a wide range of corrosive chemical.
- 60% lighter than iron bracket for easier handling and installation.
- Compact design for installation in limited spaces.
- Compatible with standard motors and pipe connections worldwide.

Materials in Contact : PPG  
 Max Flow : 530 L/min  
 Max Head : 33 m  
 Liquid Temp. : 0°C~70°C  
 Specific Gravity Limit : Up to approx. 1.5  
 Motor Power : 1.5 kW to 2.2 kW

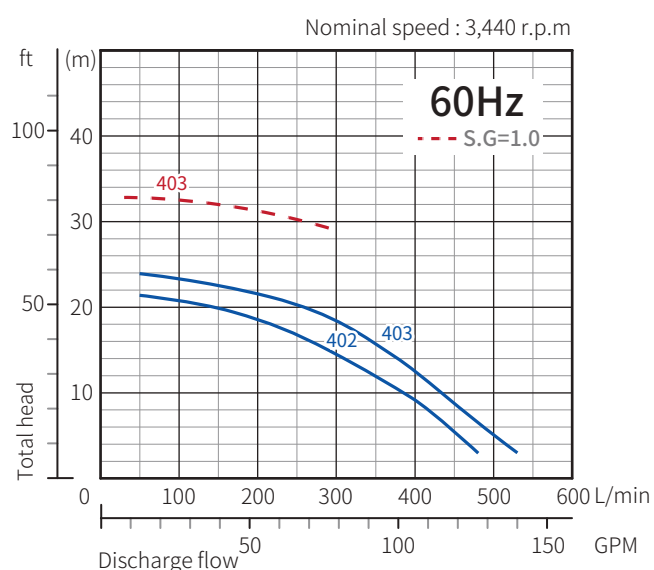
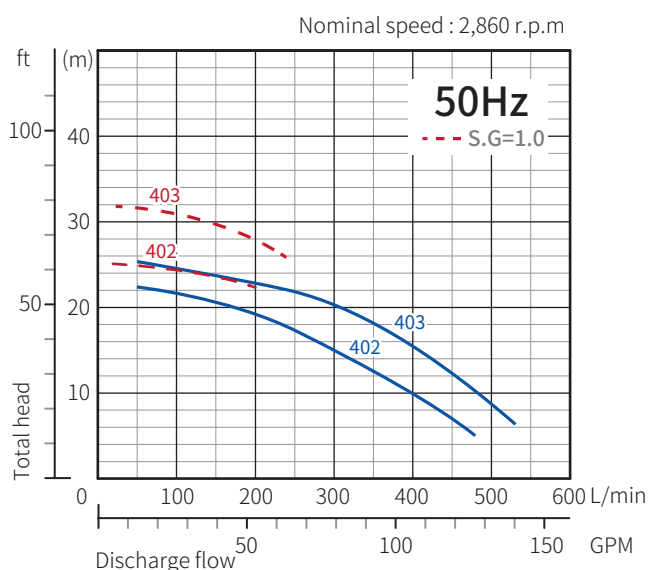


### Type indication

**N H - 4 0 2 P W E - C V - L - 1 5 C**

- |                                          |                                                                   |                                             |                                                                     |                                              |                                                                                     |
|------------------------------------------|-------------------------------------------------------------------|---------------------------------------------|---------------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------|
| ① Bore<br>40mm<br>Discharge bore         | ③ Series                                                          | ⑤ O. Ring<br>V : FKM<br>N : NBR<br>E : EPDM | ⑥ Impeller size<br>S S.G=1.0<br>L S.G=1.1<br>M S.G=1.3<br>H S.G=1.5 | ⑦ Motor output<br>15 : 1.5 kW<br>22 : 2.2 kW | ⑧ Required motor<br>Without Indoor use<br>With B Explosion proof<br>C Weather proof |
| ② Motor output<br>2 : 1.5kW<br>3 : 2.2kW | ④ Bearing<br>C : Carbon<br>R : Rulon<br>A : Oxide Alumina ceramic |                                             |                                                                     |                                              |                                                                                     |

### Pump performance curve



### Specification table

| Model     | Flange size |            | Pump performance at specified point (m-L/min) |            |            | Applicable Motor output (kW) | Net weight w/t aluminum motor (kg) |
|-----------|-------------|------------|-----------------------------------------------|------------|------------|------------------------------|------------------------------------|
|           | Inlet(mm)   | Outlet(mm) | Specific Gravity                              | 50Hz       | 60Hz       |                              |                                    |
| NH-402PWE | 50          | 40         | 1.0                                           | 22.4 - 200 | -          | 1.5                          | 24                                 |
|           |             |            | 1.1                                           | 14.0 - 320 | 14.0 - 300 |                              |                                    |
|           |             |            | 1.3                                           | 14.0 - 280 | 13.9 - 265 |                              |                                    |
|           |             |            | 1.5                                           | 12.0 - 280 | 14.5 - 220 |                              |                                    |
| NH-403PWE | 50          | 40         | 1.0                                           | 26.0 - 240 | 29.0 - 300 | 2.2                          | 27                                 |
|           |             |            | 1.1                                           | 20.0 - 310 | 19.0 - 280 |                              |                                    |
|           |             |            | 1.3                                           | 16.0 - 340 | 18.6 - 240 |                              |                                    |
|           |             |            | 1.5                                           | 15.5 - 340 | 14.7 - 340 |                              |                                    |

## PWE-F Series (ETFE)

### Magnetic Drive Pumps with Glass-filled Polypropylene Bracket for Hazardous Chemical Transfer

- Glass-filled polypropylene bracket is ideal for harsh chemical environments.
- Capable of handling nearly all types of chemicals.
- 50% lighter than iron bracket for easier handling.
- Compact design for limited space installations.
- Compatible with standard motors and pipe connections worldwide.

Materials in Contact : ETFE  
 Max Flow : 530 L/min  
 Max Head : 32 m  
 Liquid Temp. : 0°C~90°C  
 Specific Gravity Limit : Up to approx. 1.9  
 Motor Power : 1.5 kW to 2.2 kW

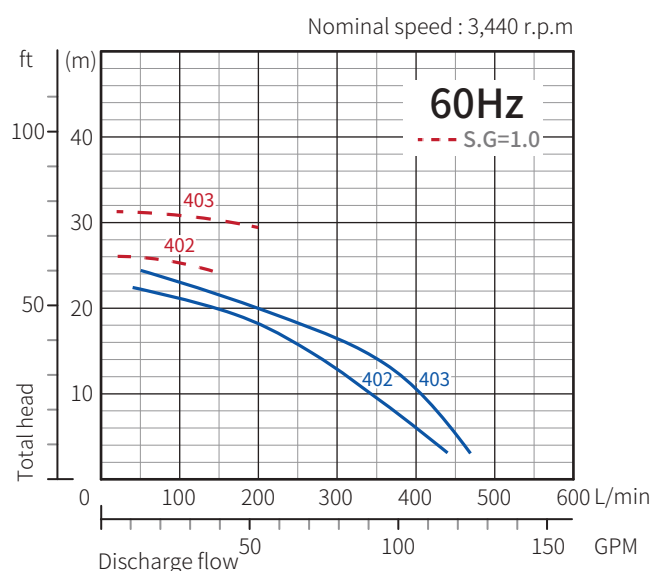
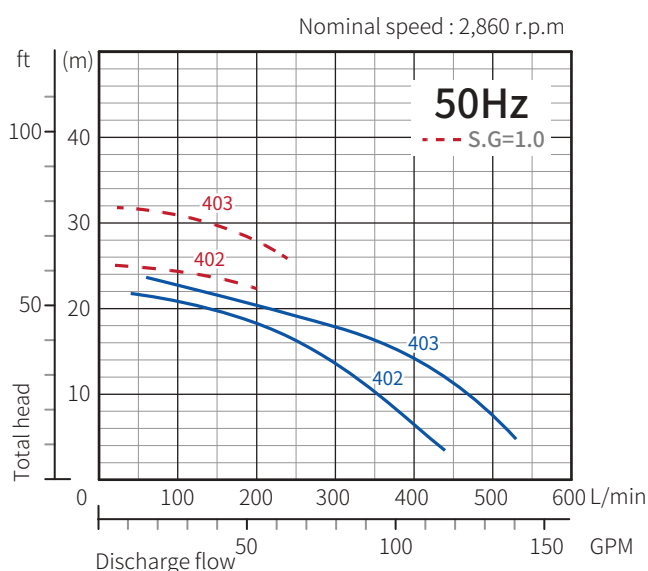


### Type indication for PWE

**N H - 4 0 2 P W E - F - F V - L - 1 5 C**

- |                                          |                                                                                                                                                                                      |                                             |                                                                     |                                                                                     |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| ① Bore<br>40mm<br>Discharge bore         | ③ Series                                                                                                                                                                             | ⑤ O. Ring<br>V : FKM<br>N : NBR<br>E : EPDM | ⑥ Impeller size<br>S S.G=1.0<br>L S.G=1.2<br>M S.G=1.5<br>H S.G=1.9 | ⑦ Motor output<br>15 : 1.5 kW<br>22 : 2.2 kW                                        |
| ② Motor output<br>2 : 1.5kW<br>3 : 2.2kW | ④ Bearing<br>F : High density Carbon bearing - Ceramic spindle<br>R : Rulon bearing - Ceramic spindle<br>A : Ceramic bearing - Sic/Ceramic spindle<br>Si : Sic bearing - Sic spindle |                                             |                                                                     | ⑧ Required motor<br>Without Indoor use<br>With B Explosion proof<br>C Weather proof |

### Pump performance curve

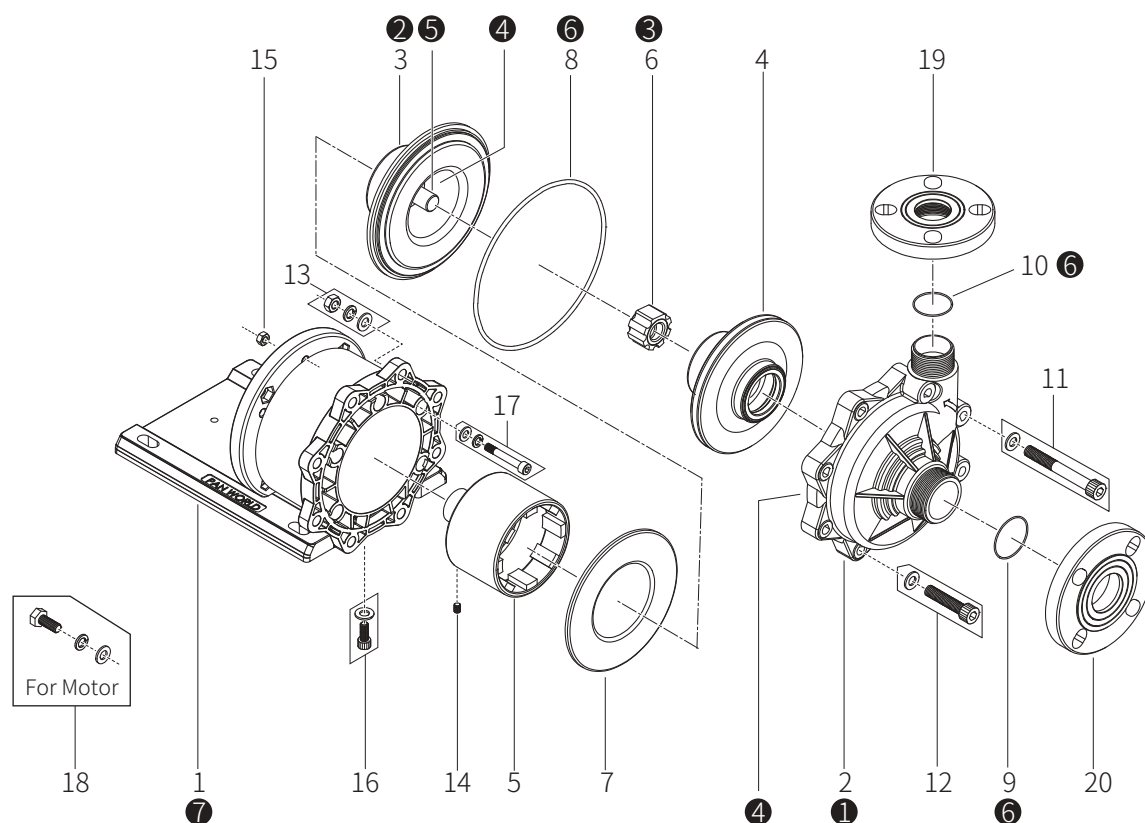


### Specification table

| Model       | Flange size |            | Pump performance at specified point (m-L/min) |            |            | Applicable Motor output (kW) | Net weight w/t aluminum motor (kg) |
|-------------|-------------|------------|-----------------------------------------------|------------|------------|------------------------------|------------------------------------|
|             | Inlet(mm)   | Outlet(mm) | Specific Gravity                              | 50Hz       | 60Hz       |                              |                                    |
| NH-402PWE-F | 50          | 40         | 1.0                                           | 22.4 - 200 | 24.0 - 150 | 1.5                          | 26                                 |
|             |             |            | 1.2                                           | 16.0 - 260 | 15.5 - 260 |                              |                                    |
|             |             |            | 1.5                                           | 13.0 - 240 | 13.5 - 240 |                              |                                    |
|             |             |            | 1.9                                           | 10.0 - 280 | 7.9 - 280  |                              |                                    |
| NH-403PWE-F | 50          | 40         | 1.0                                           | 26.0 - 240 | 29.8 - 200 | 2.2                          | 30                                 |
|             |             |            | 1.2                                           | 17.0 - 330 | 15.0 - 330 |                              |                                    |
|             |             |            | 1.5                                           | 15.0 - 310 | 16.3 - 310 |                              |                                    |
|             |             |            | 1.9                                           | 14.0 - 280 | 13.0 - 280 |                              |                                    |

# PWE / PWE-F Series

## Parts List

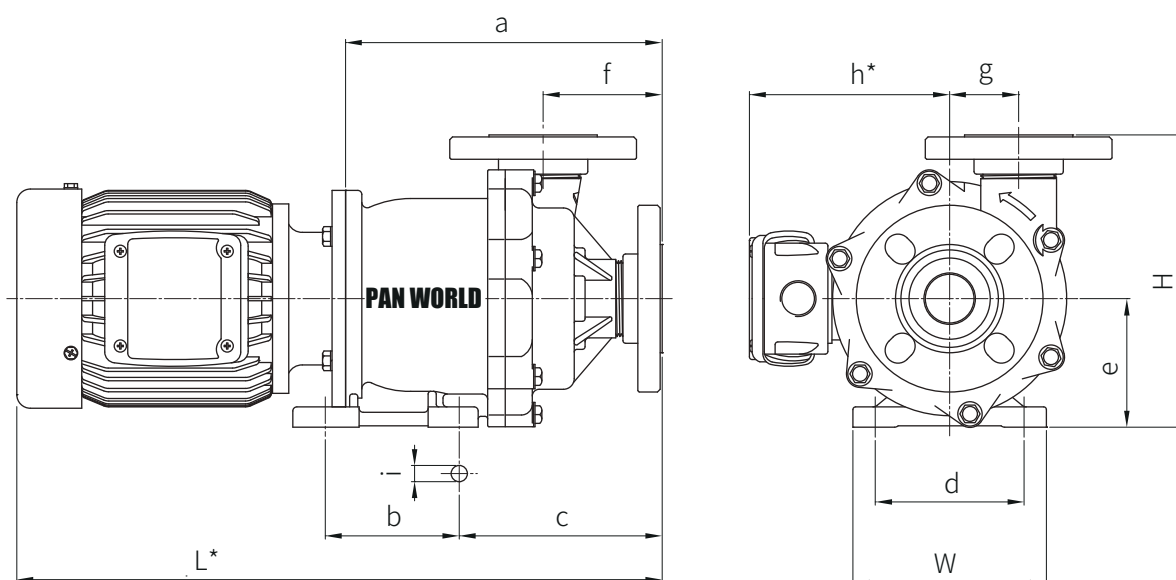


| Position | Description                                      |
|----------|--------------------------------------------------|
| 1        | Bracket                                          |
| 2        | Front casing                                     |
| 3        | Rear casing                                      |
| 4        | Impeller ass'y                                   |
| 5        | Outer drive ring                                 |
| 6        | Bearing ass'y                                    |
| 7        | Back up ring                                     |
| 8        | O. Ring                                          |
| 9        | O. Ring                                          |
| 10       | O. Ring                                          |
| 11       | Hexagon socket bolt w/t plain washer M10x80 (x3) |
| 12       | Hexagon socket bolt w/t plain washer M10x55 (x5) |

| Position | Description                                                          |
|----------|----------------------------------------------------------------------|
| 13       | NUT w/t spring washer M10 (x8)<br>w/t plain washer                   |
| 14       | Set screw M8x8 (x2)                                                  |
| 15       | NUT w/t plain washer M8 (x5)                                         |
| 16       | Hexagon socket bolt w/t plain washer M10x20 (x4)                     |
| 17       | Hexagon socket bolt w/t spring washer M8x55 (x5)<br>w/t plain washer |
| 18       | Hexagon head bolt w/t spring washer M10x30 (x4)<br>w/t plain washer  |
| 19       | Flange (40mm)                                                        |
| 20       | Flange (50mm)                                                        |

| Part name    | PWE series  |       |         |             |         | PWE-F series |       |         |             |     |
|--------------|-------------|-------|---------|-------------|---------|--------------|-------|---------|-------------|-----|
|              | CV          | RV    | AV      | CN          | AN      | FV           | RV    | AV      | FN          | Si  |
| ① Casing     | PPG         |       |         |             |         | ETFE         |       |         |             |     |
| ② Holder     |             |       |         |             |         |              |       |         |             |     |
| ③ Bearing    | H.D. Carbon | Rulon | Ceramic | H.D. Carbon | Ceramic | H.D. Carbon  | Rulon | Ceramic | H.D. Carbon | Sic |
| ④ Thrust pad | Ceramic     |       |         |             |         |              |       |         |             |     |
| ⑤ Spindle    |             |       |         |             |         |              |       |         |             |     |
| ⑥ O Ring     | FKM         |       |         | NBR         |         | FKM          |       |         | NBR         | FKM |
| ⑦ Bracket    | PP+GF       |       |         |             |         |              |       |         |             |     |

## ■ Installation dimension



| Model                  | W   | H   | L*    | a     | b   | c     | d   | e   | f     | g    | h*    | i  |
|------------------------|-----|-----|-------|-------|-----|-------|-----|-----|-------|------|-------|----|
| NH-350PW / PW-F / PW-K | 157 | 257 | 472   | 232.5 | 130 | 161   | 130 | 115 | 88    | 77.5 | 138.5 | 12 |
| NH-351PW / PW-F / PW-K | 160 | 257 | 470   | 240   | 130 | 170   | 130 | 115 | 88    | 77.5 | 145   | 12 |
| NH-352PW / PW-F / PW-K | 160 | 242 | 505.5 | 222.5 | 132 | 155   | 130 | 120 | 78    | 57   | 149   | 12 |
| NH-353PW / PW-F / PW-K | 160 | 242 | 505.5 | 222.5 | 132 | 155   | 130 | 120 | 78    | 57   | 149   | 12 |
| NH-400PW / PW-F / PW-K | 140 | 216 | 476   | 233   | 98  | 150   | 110 | 95  | 87    | 51   | 146   | 12 |
| NH-401PW / PW-F / PW-K | 160 | 254 | 489   | 256   | 130 | 184   | 130 | 115 | 102.5 | 57.5 | 152   | 12 |
| NH-402PW / PW-F / PW-K | 260 | 255 | 588   | 305   | 200 | 158   | 208 | 115 | 89    | 65   | 170   | 14 |
| NH-403PW / PW-F / PW-K | 260 | 255 | 588   | 305   | 200 | 158   | 208 | 115 | 89    | 65   | 170   | 14 |
| NH-405PW / PW-F / PW-K | 260 | 270 | 692   | 326   | 200 | 158   | 208 | 130 | 89    | 65   | 203   | 14 |
| NH-505PW / PW-F        | 260 | 319 | 650.5 | 287.5 | 300 | 123.2 | 220 | 162 | 89.5  | 60   | 208   | 14 |
| NH-507PW / PW-F        | 260 | 319 | 676.5 | 311.5 | 300 | 123.2 | 220 | 162 | 89.5  | 60   | 252   | 14 |
| NH-655PW / PW-F        | 260 | 360 | 726   | 360   | 270 | 240   | 210 | 175 | 118   | 85   | 203   | 14 |
| NH-657PW / PW-F        | 260 | 360 | 720   | 380   | 270 | 240   | 210 | 175 | 118   | 85   | 252   | 14 |
| NH-6510PW / PW-F       | 260 | 360 | 754   | 380   | 270 | 240   | 210 | 175 | 118   | 85   | 252   | 14 |
| NH-6515PW / PW-F       | 350 | 385 | 912.5 | 408.5 | 270 | 240   | 300 | 200 | 118   | 85   | 288   | 14 |
| NH-402PWE / PWE-F      | 220 | 255 | 512.8 | 239   | 221 | 145   | 178 | 115 | 89    | 65   | -     | 14 |
| NH-403PWE / PWE-F      | 220 | 255 | 512.8 | 239   | 221 | 145   | 178 | 115 | 89    | 65   | -     | 14 |

Remarks : 1. This size in the table is shown with JIS motor.

PWE, PWE-F in the table is shown with Aluminum JIS motor.

2. Over all size & construction may be changed without notice.

3. \* Depending on type of motor used.

Unit : mm

## PWH Series (PPG)

### High Lift Head, Heavy Duty Magnetic Drive Pumps

- Constructed with durable PPG wetted-end material for reliable chemical handling.
- Adaptable with standard IEC and NEMA motors.
- Available with flange connections.

**Materials in Contact** : PPG  
**Max Flow** : 900 L/min  
**Max Head** : 48 m  
**Liquid Temp.** : 0°C~70°C  
**Specific Gravity Limit** : Up to approx. 1.5  
**Motor Power** : 2.2 kW to 7.5 kW

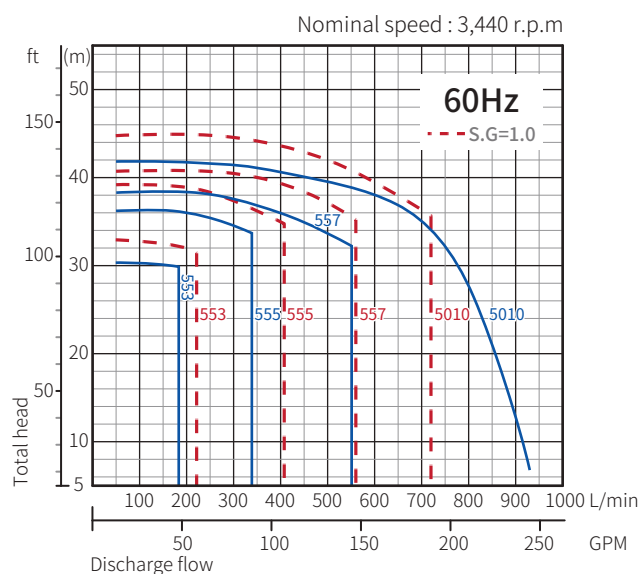
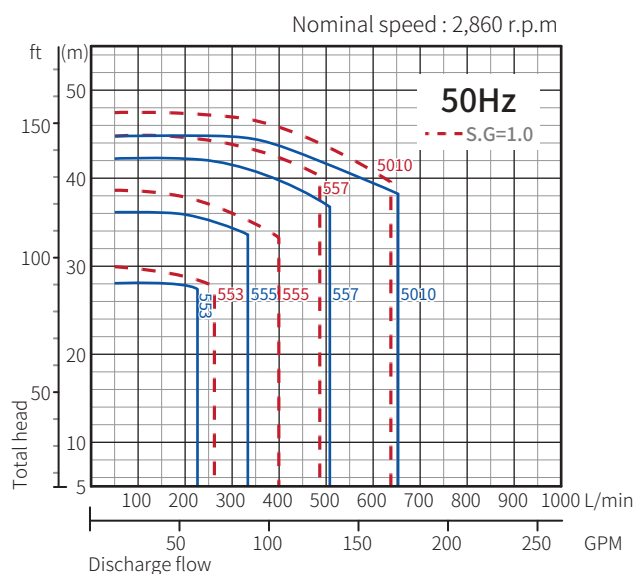


### Type indication

**N H - 5 5 3 P W H - C V - L - 2 2 C**  
                     ①                    ②                    ③                    ④                    ⑤                    ⑥                    ⑦

- |         |          |                                                      |                                |                                                  |                                                          |                                                                 |
|---------|----------|------------------------------------------------------|--------------------------------|--------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------------|
| ① Model | ② Series | ③ Bearing                                            | ④ O. Ring                      | ⑤ Impeller size                                  | ⑥ Motor output                                           | ⑦ Required motor                                                |
|         |          | C : Carbon<br>R : Rulon<br>A : Oxide Alumina ceramic | V : FKM<br>N : NBR<br>E : EPDM | S S.G=1.0<br>L S.G=1.1<br>M S.G=1.3<br>H S.G=1.5 | 22 : 2.2 kW<br>37 : 3.7 kW<br>55 : 5.5 kW<br>75 : 7.5 kW | Without Indoor use<br>With B Explosion proof<br>C Weather proof |

### Pump performance curve



### Specification table

| Model      | Flange size |            | Pump performance at specified point (m-L/min) |            |            | Applicable Motor output (kW) | Net weight w/t motor (kg) |
|------------|-------------|------------|-----------------------------------------------|------------|------------|------------------------------|---------------------------|
|            | Inlet(mm)   | Outlet(mm) | Specific Gravity                              | 50Hz       | 60Hz       |                              |                           |
| NH-553PWH  | 65          | 50         | 1.0                                           | 29.0 - 200 | 32.0 - 200 | 2.2                          | 74                        |
|            |             |            | 1.1                                           | 27.9 - 200 | 30.0 - 150 |                              |                           |
|            |             |            | 1.3                                           | 23.9 - 200 | 27.0 - 150 |                              |                           |
|            |             |            | 1.5                                           | 21.4 - 200 | 24.5 - 130 |                              |                           |
| NH-555PWH  | 65          | 50         | 1.0                                           | 32.0 - 400 | 35.0 - 400 | 3.7                          | 87                        |
|            |             |            | 1.1                                           | 34.0 - 300 | 34.5 - 300 |                              |                           |
|            |             |            | 1.3                                           | 31.0 - 300 | 30.5 - 300 |                              |                           |
|            |             |            | 1.5                                           | 28.0 - 300 | 28.0 - 300 |                              |                           |
| NH-557PWH  | 65          | 50         | 1.0                                           | 40.0 - 500 | 36.5 - 500 | 5.5                          | 120                       |
|            |             |            | 1.1                                           | 37.1 - 500 | 33.6 - 500 |                              |                           |
|            |             |            | 1.3                                           | 33.2 - 500 | 29.6 - 500 |                              |                           |
|            |             |            | 1.5                                           | 29.6 - 500 | 26.1 - 500 |                              |                           |
| NH-5010PWH | 65          | 50         | 1.0                                           | 41.2 - 600 | 36.6 - 700 | 7.5                          | 132                       |
|            |             |            | 1.1                                           | 39.0 - 600 | 35.1 - 700 |                              |                           |
|            |             |            | 1.3                                           | 35.0 - 600 | 30.7 - 700 |                              |                           |
|            |             |            | 1.5                                           | 32.0 - 600 | 29.0 - 600 |                              |                           |

# PWH-F Series (ETFE)

## High Lift Head, Heavy Duty Magnetic Drive Pumps

- Built with carbon-fiber reinforced ETFE wetted-end material for enhanced chemical resistance.
- Designed for handling a wide range of chemicals.
- Adaptable with standard IEC and NEMA motors.
- Available with flange connections.

Materials in Contact : ETFE  
 Max Flow : 900 L/min  
 Max Head : 48 m  
 Liquid Temp. : 0°C~90°C  
 Specific Gravity Limit : Up to approx. 1.9  
 Motor Power : 2.2 kW to 7.5 kW



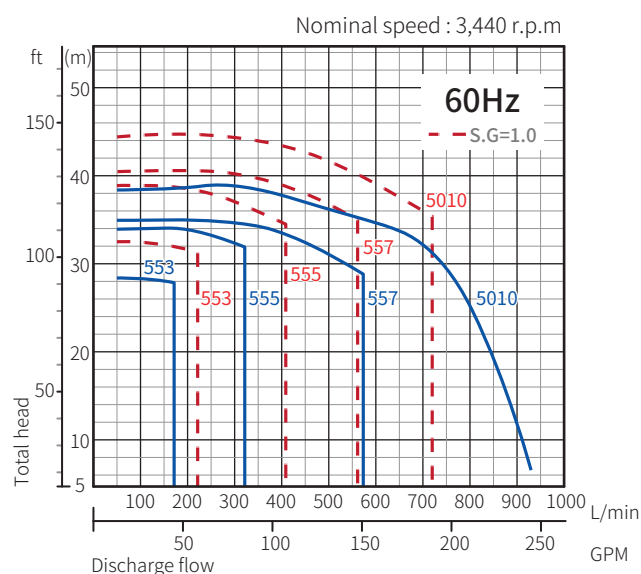
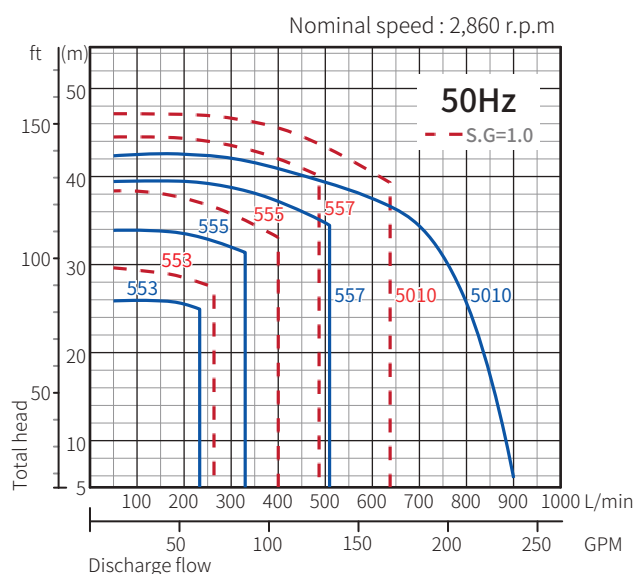
## Type indication

**N H - 5 5 3 P W H - F - F V - L - 2 2 C**

①                      ②                      ③      ④                      ⑤                      ⑥                      ⑦

- |          |                                                   |           |                 |                |                        |
|----------|---------------------------------------------------|-----------|-----------------|----------------|------------------------|
| ① Model  | ③ Bearing                                         | ④ O. Ring | ⑤ Impeller size | ⑥ Motor output | ⑦ Required motor       |
|          | F : High density Carbon bearing - Ceramic spindle | V : FKM   | S S.G=1.0       | 22 : 2.2 kW    | Without Indoor use     |
| ② Series | R : Rulon bearing - Ceramic spindle               | N : NBR   | L S.G=1.2       | 37 : 3.7 kW    | With B Explosion proof |
|          | A : Ceramic bearing - Sic/Ceramic spindle         | E : EPDM  | M S.G=1.5       | 55 : 5.5 kW    | C Weather proof        |
|          | Si : Sic bearing - Sic spindle                    |           | H S.G=1.9       | 75 : 7.5 kW    |                        |

## Pump performance curve

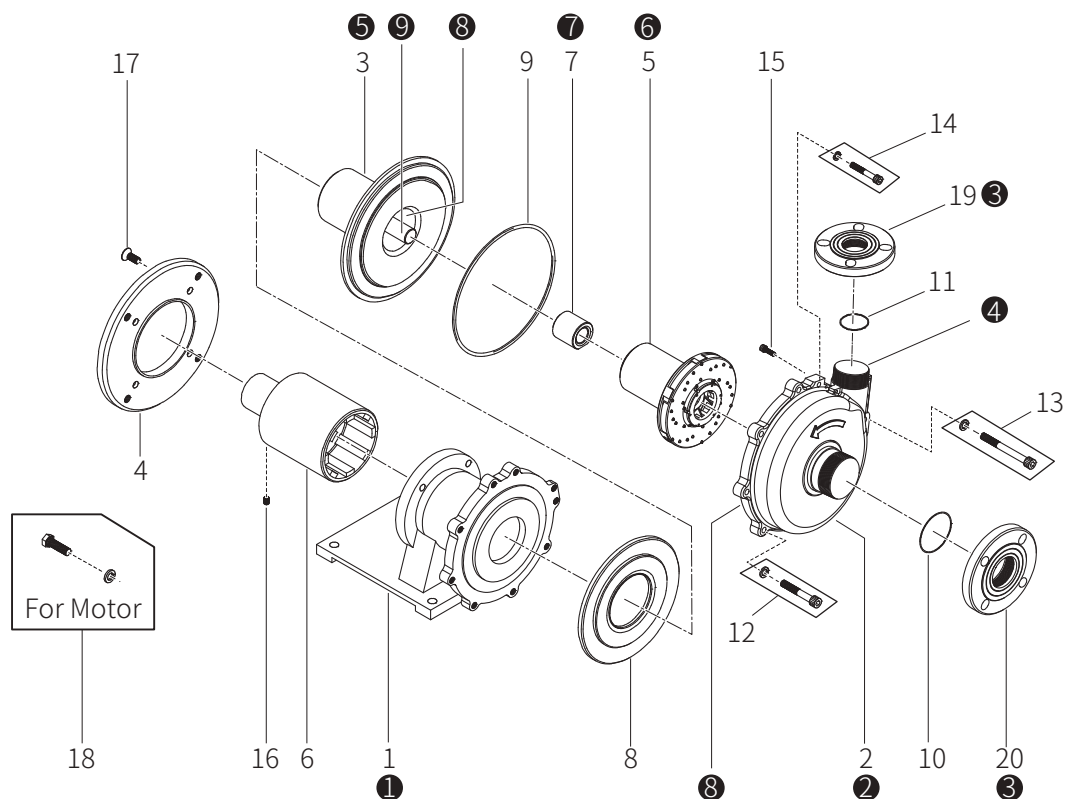


## Specification table

| Model        | Flange size |            | Pump performance at specified point (m-L/min) |            |            | Applicable Motor output (kW) | Net weight w/t motor (kg) |
|--------------|-------------|------------|-----------------------------------------------|------------|------------|------------------------------|---------------------------|
|              | Inlet(mm)   | Outlet(mm) | Specific Gravity                              | 50Hz       | 60Hz       |                              |                           |
| NH-553PWH-F  | 65          | 50         | 1.0                                           | 29.0 - 200 | 32.0 - 200 | 2.2                          | 77                        |
|              |             |            | 1.2                                           | 25.9 - 200 | 28.0 - 150 |                              |                           |
|              |             |            | 1.5                                           | 21.4 - 200 | 24.5 - 130 |                              |                           |
|              |             |            | 1.9                                           | 17.5 - 250 | 19.5 - 150 |                              |                           |
| NH-555PWH-F  | 65          | 50         | 1.0                                           | 32.0 - 400 | 35.0 - 400 | 3.7                          | 89                        |
|              |             |            | 1.2                                           | 32.0 - 300 | 32.5 - 300 |                              |                           |
|              |             |            | 1.5                                           | 28.0 - 300 | 28.0 - 300 |                              |                           |
|              |             |            | 1.9                                           | 22.0 - 350 | 23.0 - 300 |                              |                           |
| NH-557PWH-F  | 65          | 50         | 1.0                                           | 40.0 - 500 | 36.5 - 500 | 5.5                          | 121                       |
|              |             |            | 1.2                                           | 35.1 - 500 | 31.1 - 500 |                              |                           |
|              |             |            | 1.5                                           | 29.6 - 500 | 26.1 - 500 |                              |                           |
|              |             |            | 1.9                                           | 25.1 - 500 | 21.6 - 500 |                              |                           |
| NH-5010PWH-F | 65          | 50         | 1.0                                           | 41.2 - 600 | 36.6 - 700 | 7.5                          | 133                       |
|              |             |            | 1.2                                           | 37.0 - 600 | 32.6 - 700 |                              |                           |
|              |             |            | 1.5                                           | 32.0 - 600 | 29.0 - 600 |                              |                           |
|              |             |            | 1.9                                           | 27.5 - 600 | 24.0 - 600 |                              |                           |

# PWH / PWH-F Series

## Parts List

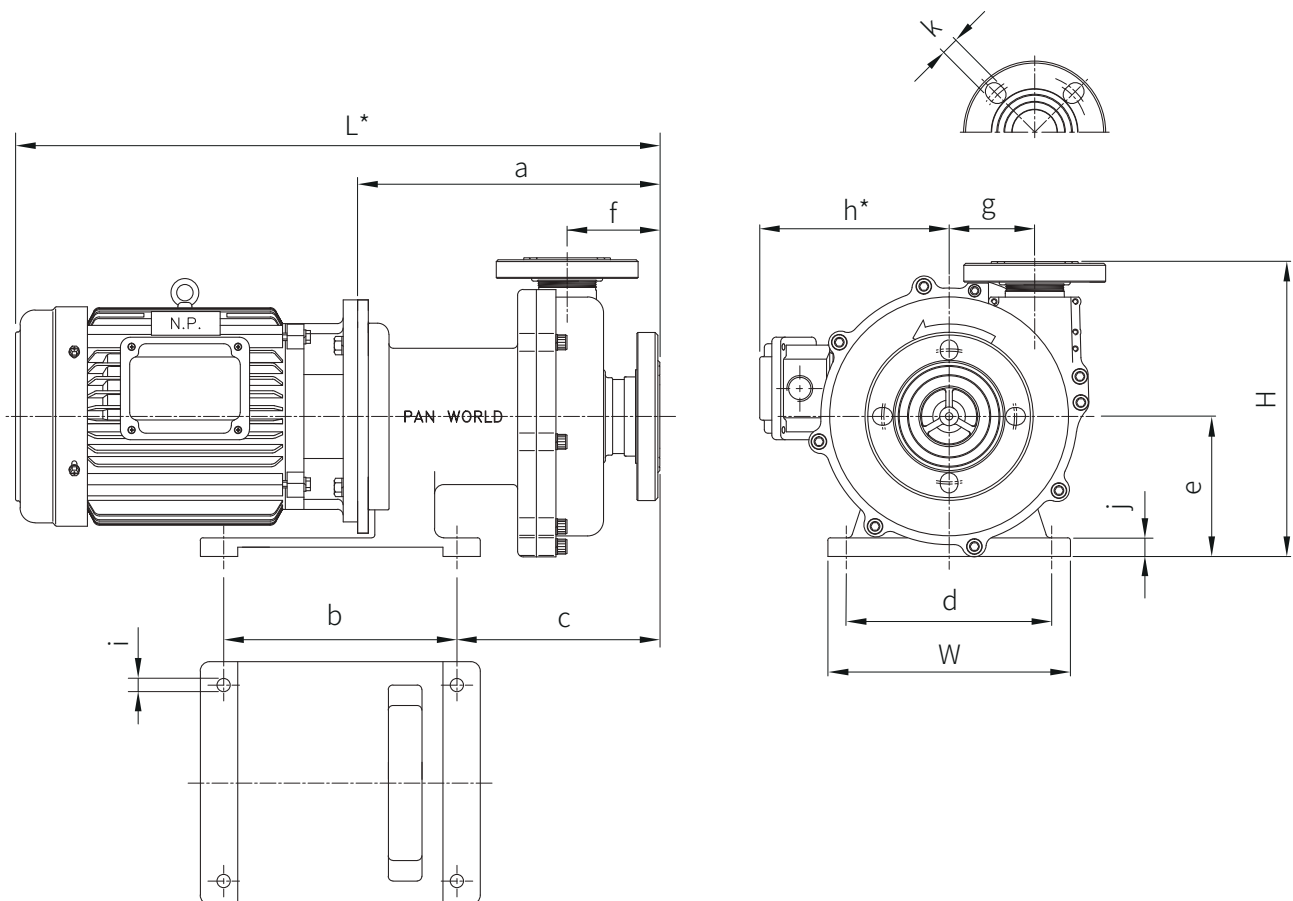


| Position | Description             |
|----------|-------------------------|
| 1        | Bracket                 |
| 2        | Front casing + cover AB |
| 3        | Rear casing             |
| 4        | Transition flange       |
| 5        | Impeller ass'y          |
| 6        | Outer drive ring        |
| 7        | Bearing ass'y           |
| 8        | Back up ring            |
| 9        | O. Ring                 |
| 10       | O. Ring                 |

| Position | Description                                       |
|----------|---------------------------------------------------|
| 11       | O. Ring                                           |
| 12       | Hexagon socket bolt w/t spring washer M10x40 (x6) |
| 13       | Hexagon socket bolt w/t spring washer M10x60 (x2) |
| 14       | Hexagon socket bolt w/t spring washer M8x40 (x1)  |
| 15       | Hexagon socket bolt M6x16 (x4)                    |
| 16       | Set screw M8x10 (x2)                              |
| 17       | Counter sunk head bolt M10x20 (x4)                |
| 18       | Hexagon head bolt w/t spring washer M12x30 (x4)   |
| 19       | Flange (50mm)                                     |
| 20       | Flange (65mm)                                     |

| Part name        | PWH series  |       |         |     | PWH-F series |       |         |     |
|------------------|-------------|-------|---------|-----|--------------|-------|---------|-----|
|                  | CV          | RV    | AV      | Si  | FV           | RV    | AV      | Si  |
| ① Bracket        | FC-200      |       |         |     |              |       |         |     |
| ② Cover A & B    |             |       |         |     |              |       |         |     |
| ③ Flange         | PPG         |       |         |     | ETFE         |       |         |     |
| ④ Front casing   |             |       |         |     |              |       |         |     |
| ⑤ Rear casing    |             |       |         |     |              |       |         |     |
| ⑥ Impeller Ass'y |             |       |         |     |              |       |         |     |
| ⑦ Bearing        | H.D. Carbon | Rulon | Ceramic | Sic | H.D. Carbon  | Rulon | Ceramic | Sic |
| ⑧ Thrust pad     | Ceramic     |       |         |     | Ceramic      |       |         |     |
| ⑨ Spindle        |             |       |         |     |              |       |         |     |

## ■ Installation dimension



| Model              | W   | H   | L*  | a   | b   | c   | d   | e   | f   | g    | h*    | i  | j  | k  |
|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|----|----|----|
| NH-553PWH / PWH-F  | 260 | 316 | 596 | 313 | 250 | 218 | 210 | 150 | 100 | 91.7 | 170   | 14 | 20 | 19 |
| NH-555PWH / PWH-F  | 260 | 316 | 690 | 325 | 250 | 218 | 210 | 150 | 100 | 91.7 | 203   | 14 | 20 | 19 |
| NH-557PWH / PWH-F  | 260 | 366 | 710 | 345 | 270 | 218 | 210 | 200 | 100 | 91.7 | (246) | 14 | 20 | 19 |
| NH-5010PWH / PWH-F | 260 | 366 | 719 | 345 | 270 | 218 | 210 | 200 | 100 | 91.7 | (246) | 14 | 20 | 19 |

Remarks :

Unit : mm

1. This size in the table is shown with JIS motor.
2. Over all size & construction may be changed without notice.
3. \* Depending on type of motor used.

## PW-C Series (ETFE-Lined Metal Profile)

### Heavy Duty Magnetic Drive Pumps for the Chemical Industry

- Built with ETFE-lined pumps and a cast iron exterior for enhanced durability and reinforcement.
- 11 models available for handling a wide range of chemicals.
- Adaptable with standard IEC and NEMA motors.

Materials in Contact : ETFE

Max Flow : 1,500 L/min

Max Head : 42 m

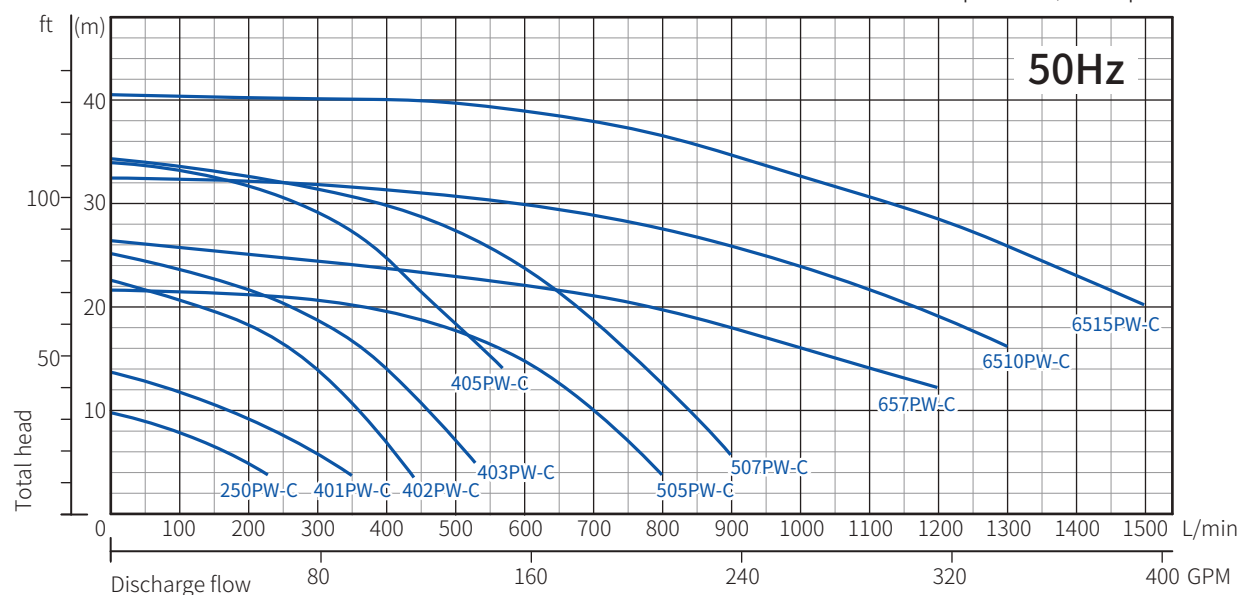
Liquid Temp. : 0°C~90°C

Motor Power : 0.37 kW to 15 kW

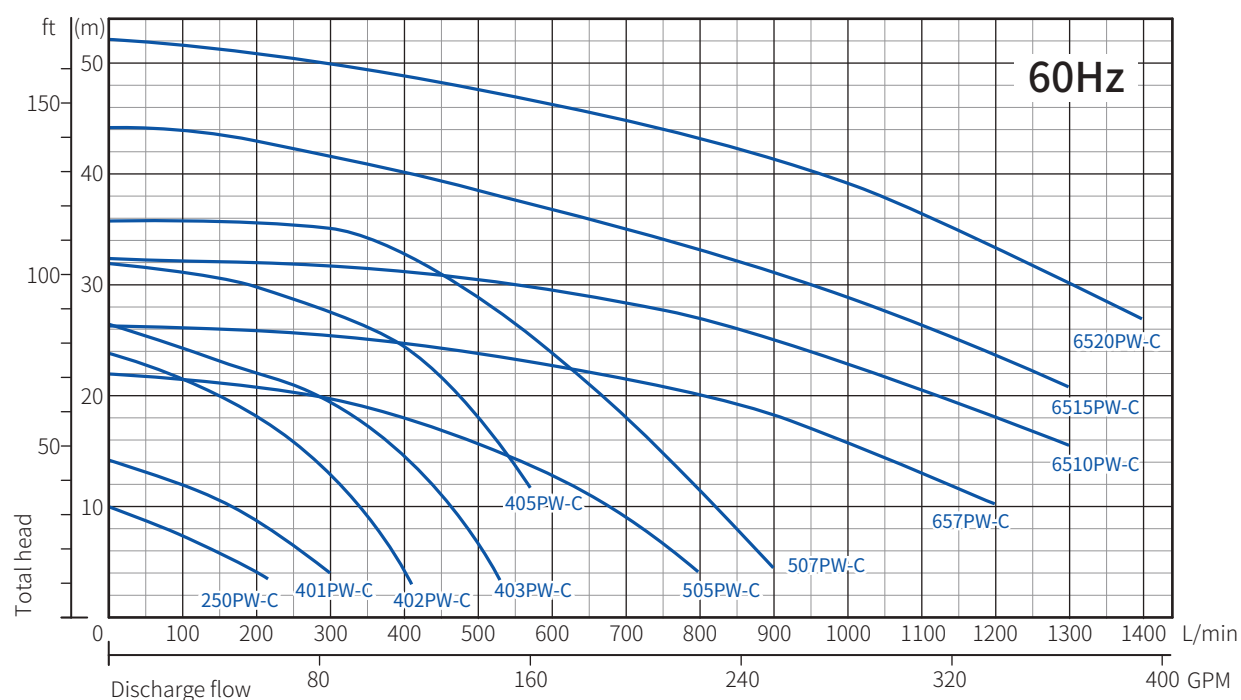


### ■ Pump performance curve

Nominal speed : 2,860 r.p.m



Nominal speed : 3,440 r.p.m



## ■ Type indication

**N H - 4 0 0 P W - C - F V - L - 0 4 C**

①                      ②                      ③   ④                      ⑤                      ⑥                      ⑦

① Model    ③ Bearing

② Series

F : High density carbon bearing - Ceramic spindle  
R : Rulon bearing - Ceramic spindle  
A : Ceramic bearing - Sic/Ceramic spindle  
Si : Sic bearing - Sic spindle

④ O. Ring

V : FKM  
N : NBR  
E : EPDM

⑤ Impeller

S : S.G=1.0  
L : S.G=1.2  
M : S.G=1.5  
H : S.G=1.9

⑥ Motor output

04 : 0.37 kW  
07 : 0.75 kW  
15 : 1.5 kW  
22 : 2.2 kW  
37 : 3.7 kW  
55 : 5.5 kW  
75 : 7.5 kW  
110 : 11 kW  
150 : 15 kW

⑦ Required motor

Without Indoor use  
With B Explosion proof  
C Weather proof

## ■ Specification table

| Model       | Connection method |            | Pump performance at specified point (m-L/min) |             |             | Motor output (kW) | Net weight (kg) |
|-------------|-------------------|------------|-----------------------------------------------|-------------|-------------|-------------------|-----------------|
|             | Inlet(mm)         | Outlet(mm) | Specific Gravity                              | 50Hz        | 60Hz        |                   |                 |
| NH-250PW-C  | 25                | 25         | 1.2                                           | 7.0 - 135   | 6.0 - 145   | 0.37              | 30              |
|             |                   |            | 1.5                                           | 5.8 - 140   | 5.0 - 140   |                   |                 |
|             |                   |            | 1.9                                           | 4.7 - 115   | 3.9 - 115   |                   |                 |
| NH-401PW-C  | 40                | 40         | 1.2                                           | 9.3 - 200   | 9.5 - 180   | 0.75              | 40              |
|             |                   |            | 1.5                                           | 7.6 - 190   | 8.7 - 160   |                   |                 |
|             |                   |            | 1.9                                           | 7.7 - 170   | 6.2 - 140   |                   |                 |
| NH-402PW-C  | 50                | 40         | 1.2                                           | 16.0 - 260  | 13.1 - 260  | 1.5               | 50              |
|             |                   |            | 1.5                                           | 14.0 - 260  | 13.2 - 260  |                   |                 |
|             |                   |            | 1.9                                           | 11.0 - 240  | 10.9 - 220  |                   |                 |
| NH-403PW-C  | 50                | 40         | 1.2                                           | 18.0 - 320  | 17.4 - 320  | 2.2               | 58              |
|             |                   |            | 1.5                                           | 15.0 - 300  | 13.8 - 320  |                   |                 |
|             |                   |            | 1.9                                           | 13.5 - 260  | 13.5 - 260  |                   |                 |
| NH-405PW-C  | 50                | 40         | 1.2                                           | 25.0 - 380  | 23.0 - 400  | 3.7               | 72              |
|             |                   |            | 1.5                                           | 22.5 - 350  | 20.3 - 350  |                   |                 |
|             |                   |            | 1.9                                           | 20.0 - 290  | 15.2 - 400  |                   |                 |
| NH-505PW-C  | 65                | 50         | 1.2                                           | 16.7 - 550  | 15.5 - 520  | 3.7               | 80              |
|             |                   |            | 1.5                                           | 13.0 - 450  | 13.0 - 390  |                   |                 |
|             |                   |            | 1.9                                           | 10.0 - 400  | 10.0 - 360  |                   |                 |
| NH-507PW-C  | 65                | 50         | 1.2                                           | 25.7 - 550  | 27.1 - 500  | 5.5               | 112             |
|             |                   |            | 1.5                                           | 17.3 - 450  | 15.1 - 500  |                   |                 |
|             |                   |            | 1.9                                           | 14.4 - 400  | 13.7 - 400  |                   |                 |
| NH-657PW-C  | 80                | 50         | 1.2                                           | 19.2 - 800  | 20.4 - 800  | 5.5               | 124             |
|             |                   |            | 1.5                                           | 15.4 - 650  | 14.2 - 700  |                   |                 |
|             |                   |            | 1.9                                           | 12.5 - 550  | 10.8 - 600  |                   |                 |
| NH-6510PW-C | 80                | 50         | 1.2                                           | 24.7 - 950  | 25.0 - 950  | 7.5               | 149             |
|             |                   |            | 1.5                                           | 20.0 - 800  | 19.0 - 800  |                   |                 |
|             |                   |            | 1.9                                           | 17.0 - 710  | 15.7 - 710  |                   |                 |
| NH-6515PW-C | 80                | 50         | 1.2                                           | 32.0 - 1100 | 28.8 - 900  | 11                | 185             |
|             |                   |            | 1.5                                           | 24.5 - 900  | 25.0 - 900  |                   |                 |
|             |                   |            | 1.9                                           | 20.0 - 800  | 20.5 - 800  |                   |                 |
| NH-6520PW-C | 80                | 50         | 1.2                                           | ---         | 39.0 - 1050 | 15                | 185             |
|             |                   |            | 1.5                                           | ---         | 24.0 - 1100 |                   |                 |
|             |                   |            | 1.9                                           | ---         | 24.0 - 950  |                   |                 |

## PWX-C Series (ETFE-Lined Metal Profile)

### Heavy Duty Magnetic Drive Pumps for the Chemical Industry

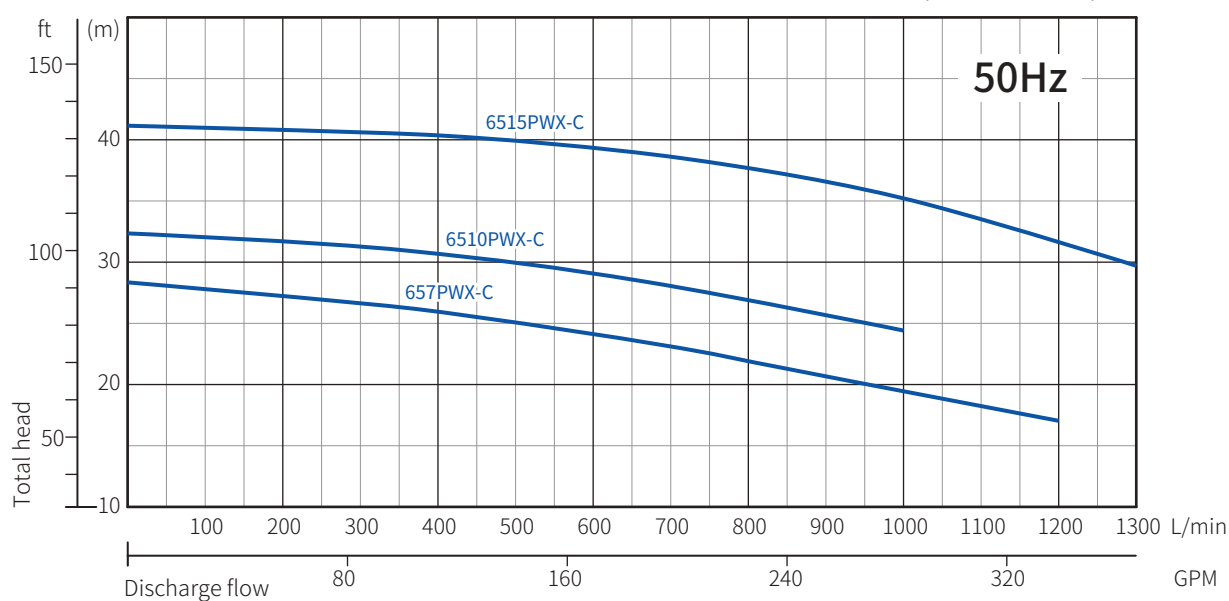
- ETFE-lined pumps with a cast iron exterior for enhanced reinforcement and durability.
- Available in 3 models, capable of handling a wide range of chemicals.
- Adaptable to IEC standard motors and available with flange connections.

|                      |                   |
|----------------------|-------------------|
| Materials in Contact | : ETFE            |
| Max Flow             | : 1,300 L/min     |
| Max Head             | : 44 m            |
| Liquid Temp.         | : 0°C~90°C        |
| Motor Power          | : 5.5 kW to 11 kW |

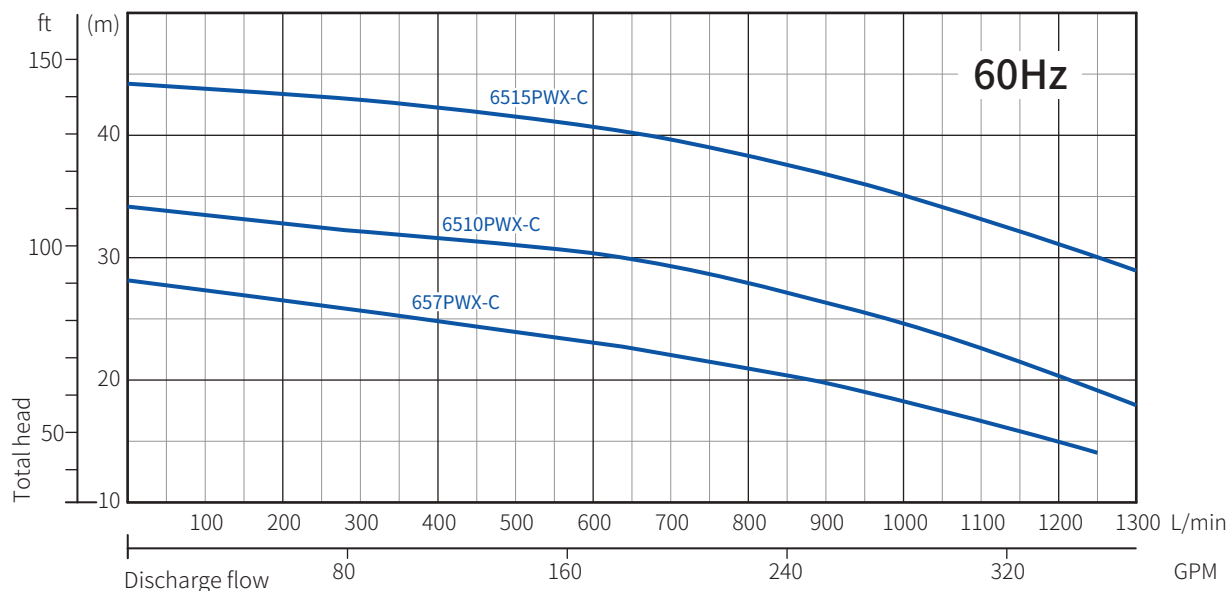


### ■ Pump performance curve

Nominal speed : 2,860 r.p.m



Nominal speed : 3,440 r.p.m



## ■ Type indication

**N H - 6 5 7 P W X - C - F V - L - 5 5 C**

①                      ②                      ③   ④                      ⑤                      ⑥   ⑦

① Model

② Series

③ Bearing

F : High density carbon bearing - Ceramic spindle  
R : Rulon bearing - Ceramic spindle  
A : Ceramic bearing - Sic/Ceramic spindle  
Si : Sic bearing - Sic spindle

④ O. Ring

V : FKM  
N : NBR  
E : EPDM

⑤ Impeller

L : S.G=1.2  
M : S.G=1.5  
H : S.G=1.9

⑥ Motor output

55 : 5.5 kW  
75 : 7.5 kW  
110 : 11 kW

⑦ Required motor

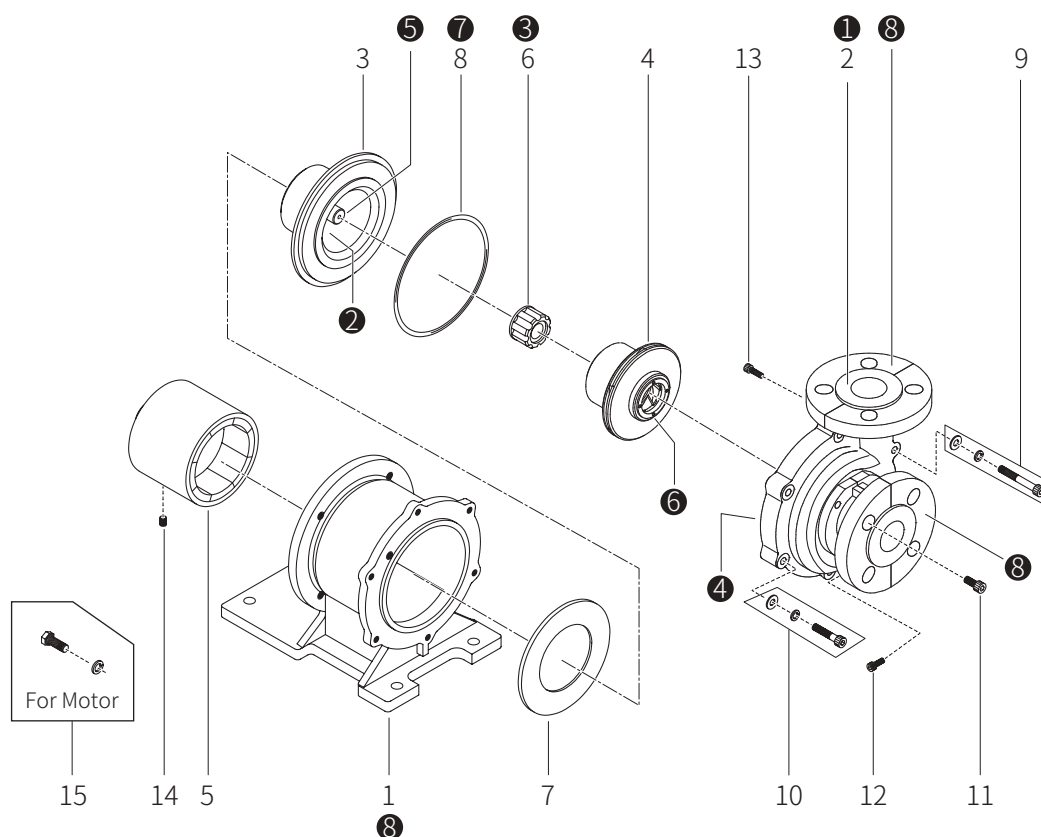
Without Indoor use  
With B Explosion proof  
C Weather proof

## ■ Specification table

| Model        | Connection method |            | Pump performance at specified point (m-L/min) |             |            | Motor output (kW) | Net weight (kg) |
|--------------|-------------------|------------|-----------------------------------------------|-------------|------------|-------------------|-----------------|
|              | Inlet(mm)         | Outlet(mm) | Specific Gravity                              | 50Hz        | 60Hz       |                   |                 |
| NH-657PWX-C  | 80                | 50         | 1.2                                           | 23.5 - 650  | 21.6 - 800 | 5.5               | 124             |
|              |                   |            | 1.5                                           | 20.3 - 650  | 18.5 - 700 |                   |                 |
|              |                   |            | 1.9                                           | 17.5 - 550  | ---        |                   |                 |
| NH-6510PWX-C | 80                | 50         | 1.2                                           | 25.0 - 950  | 25.0 - 950 | 7.5               | 149             |
|              |                   |            | 1.5                                           | 22.7 - 800  | 22.6 - 800 |                   |                 |
|              |                   |            | 1.9                                           | 18.2 - 800  | 18.1 - 800 |                   |                 |
| NH-6515PWX-C | 80                | 50         | 1.2                                           | 34.5 - 1100 | 36.0 - 900 | 11                | 185             |
|              |                   |            | 1.5                                           | 27.0 - 900  | 30.0 - 900 |                   |                 |
|              |                   |            | 1.9                                           | 24.8 - 800  | 26.0 - 800 |                   |                 |

## PW-C / PWX-C Series

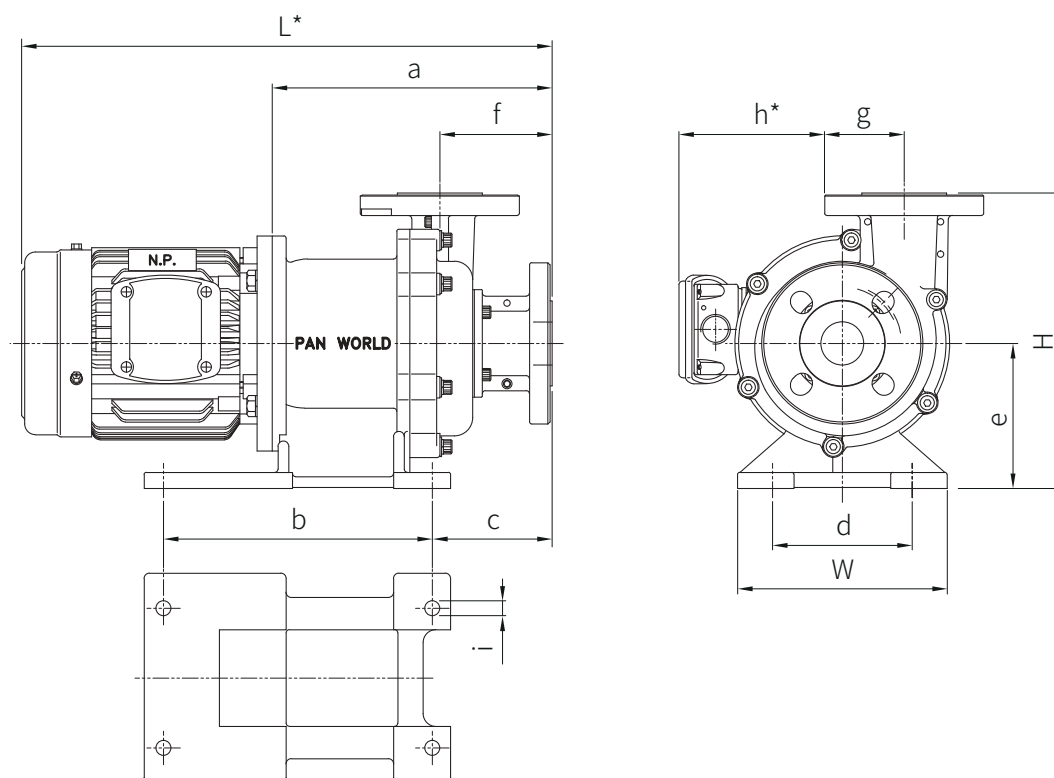
### Parts List



| Position | Description                                                    |
|----------|----------------------------------------------------------------|
| 1        | Bracket                                                        |
| 2        | Casing                                                         |
| 3        | Rear casing                                                    |
| 4        | Impeller ass'y                                                 |
| 5        | Outer drive ring                                               |
| 6        | Bearing ass'y                                                  |
| 7        | Back up ring                                                   |
| 8        | O.Ring                                                         |
| 9        | Hexagon socket bolt w/t spring washer<br>w/t plain washer      |
| 10       | Hexagon socket bolt w/t spring washer (x5)<br>w/t plain washer |
| 11       | Hexagon socket bolt (x4)                                       |
| 12       | Hexagon socket bolt (x2)                                       |
| 13       | Hexagon socket bolt (x3)                                       |
| 14       | Set screw (x2)                                                 |
| 15       | Hexagon head bolt w/t spring washer (x4)                       |

| Part name         | PW-C / PWX-C series                        |       |         |                |
|-------------------|--------------------------------------------|-------|---------|----------------|
|                   | FV                                         | RV    | AV      | Si             |
| ① Casing          | Carbon fiber reinforced tetra fluorthylene |       |         |                |
| ② Holder          |                                            |       |         |                |
| ③ Bearing         | H.D. Carbon                                | Rulon | Ceramic | Sic<br>Ceramic |
| ④ Thrust pad      | High purity Ceramic                        |       |         |                |
| ⑤ Spindle         |                                            |       |         |                |
| ⑥ Mouth ring      | Rulon                                      |       |         |                |
| ⑦ O Ring          | FKM                                        |       |         |                |
| ⑧ Bracket / Cover | Grey cast iron                             |       |         |                |

## ■ Installation dimension



| Model               | W   | H   | L*    | a     | b   | c   | d   | e   | f     | g    | h*  | i  |
|---------------------|-----|-----|-------|-------|-----|-----|-----|-----|-------|------|-----|----|
| NH-250PW-C          | 155 | 237 | 477   | 234   | 146 | 95  | 110 | 115 | 88    | 51   | 146 | 14 |
| NH-401PW-C          | 195 | 275 | 493   | 260   | 250 | 111 | 130 | 135 | 104.5 | 57.5 | 152 | 14 |
| NH-402PW-C          | 200 | 295 | 574   | 291   | 275 | 106 | 140 | 155 | 87    | 65   | 170 | 14 |
| NH-403PW-C          | 200 | 295 | 574   | 291   | 275 | 106 | 140 | 155 | 87    | 65   | 170 | 14 |
| NH-405PW-C          | 200 | 295 | 678.5 | 312.5 | 275 | 106 | 140 | 155 | 87    | 65   | 203 | 14 |
| NH-505PW-C          | 260 | 325 | 715   | 349   | 305 | 130 | 210 | 175 | 110   | 62   | 203 | 14 |
| NH-507PW-C          | 260 | 325 | 709   | 369   | 305 | 130 | 210 | 175 | 110   | 62   | 252 | 14 |
| NH-657PW-C / PWX-C  | 280 | 360 | 718   | 378   | 320 | 193 | 220 | 175 | 118   | 0    | 252 | 14 |
| NH-6510PW-C / PWX-C | 280 | 360 | 752   | 378   | 320 | 193 | 220 | 175 | 118   | 0    | 252 | 14 |
| NH-6515PW-C / PWX-C | 350 | 385 | 912   | 408   | 320 | 193 | 300 | 200 | 118   | 0    | 288 | 14 |
| NH-6520PW-C         | 350 | 385 | 912   | 408   | 320 | 193 | 300 | 200 | 118   | 0    | 288 | 14 |

Remarks :

Unit : mm

1. JIS, ISO, NEMA or explosion motor is available.
2. NH-657, 6510, 6515, 6520 PW-C are top centre discharge.
3. \* Depending on type of motor used.
4. Over all size & part construction will be changed without notice.

## PW-XJ Series (ETFE-Lined Metal Profile)

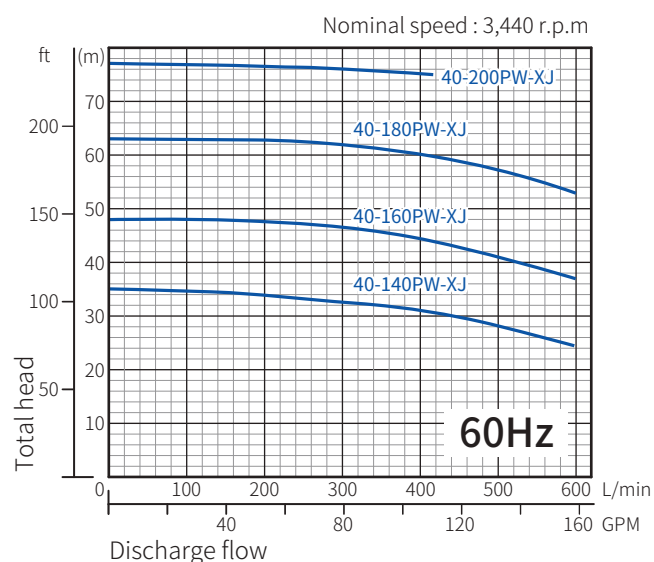
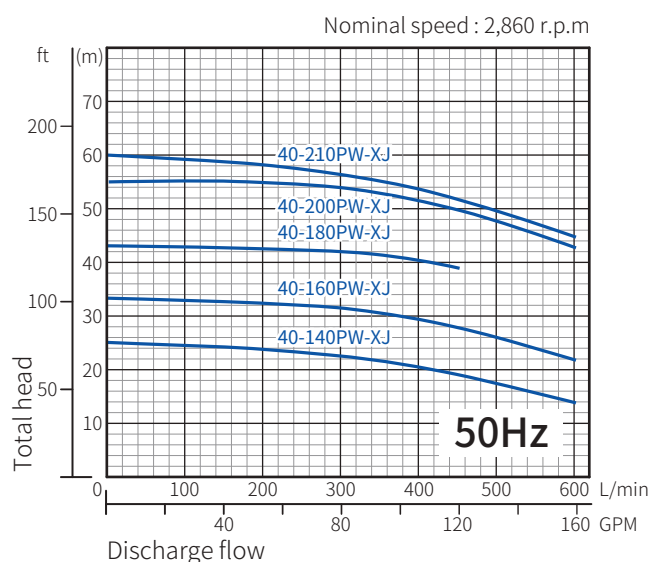
### ISO Standard Magnetic Drive Pumps for the Chemical Industry

- ETFE-lined pumps with a cast iron exterior for enhanced reinforcement and durability.
- Available in 5 models, capable of handling a wide range of chemicals.
- Adaptable to IEC, JIS, CNS, and NEMA-C standard motors.
- Features ISO-16 Bar standard flanges for secure connections.

Materials in Contact : ETFE  
 Max Flow : 600 L/min  
 Max Head : 77 m  
 Liquid Temp. : 0°C~90°C  
 Motor Power : 5.5 kW to 11 kW



### Pump performance curve



### Type indication

**N H - 4 0 - 2 0 0 P W - X J - F V - S - 1 1 0 - C**

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① Nominal bore of discharge bore size

② Nominal impeller diameter

③ Series name

④ Combination of abrasion parts

⑤ O. Ring

V : FKM  
 N : NBR  
 E : EPDM  
 A : AFLAS

⑥ Impeller Diameter

No mark : standard diameter  
 with S : optional diameter

⑦ Motor output

55 : 5.5 kW  
 75 : 7.5 kW  
 110 : 11 kW

⑧ Required motor

Without Indoor use  
 With B Explosion proof  
 C Weather proof

### Specification table

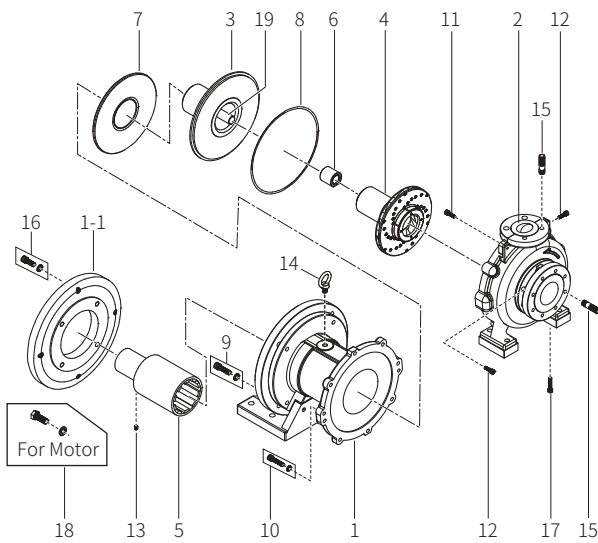
| Model          | Flange size inlet x outlet | Max point , m - L/min |          | Duty point , m - L/min |          | Power kW requirement |
|----------------|----------------------------|-----------------------|----------|------------------------|----------|----------------------|
|                |                            | 50Hz                  | 60Hz     | 50Hz                   | 60Hz     |                      |
| NH-40-140PW-XJ | ISO-16 Bar<br>65A x 40A    | 25 - 600              | 36 - 600 | 20 - 417               | 31 - 417 | 3.5 / 5.0            |
| NH-40-160PW-XJ |                            | 34 - 600              | 48 - 600 | 29 - 417               | 44 - 417 | 4.9 / 7.5            |
| NH-40-180PW-XJ |                            | 44 - 600              | 63 - 600 | 40 - 417               | 60 - 417 | 7.5 / 11.0           |
| NH-40-200PW-XJ |                            | 55 - 600              | 77 - 600 | 51 - 417               | 75 - 417 | 9.3 / 13.5           |
| NH-40-210PW-XJ |                            | 60 - 600              | ---      | 53 - 417               | ---      | 10.5 / ---           |

## ■ Allowable S.G. and required motor output

| Model                     | S.G.:1.0 | S.G.:1.2 | S.G.:1.5 | S.G.:1.9 |
|---------------------------|----------|----------|----------|----------|
| NH-40-140PW-XJ-□□-□-55-□  | 5.5 kW   | 5.5 kW   | 7.5 kW   | 11 kW    |
| NH-40-160PW-XJ-□□-□-75-□  | 7.5 kW   | 7.5 kW   | 11 kW    | *11 kW   |
| NH-40-180PW-XJ-□□-□-75-□  | 7.5 kW   | 11 kW    | 11 kW    | *11 kW   |
| NH-40-200PW-XJ-□□-□-110-□ | 11 kW    | 11 kW    | *11 kW   | *11 kW   |
| NH-40-210PW-XJ-□□-□-110-□ | 11 kW    | 11 kW    | *11 kW   | *11 kW   |

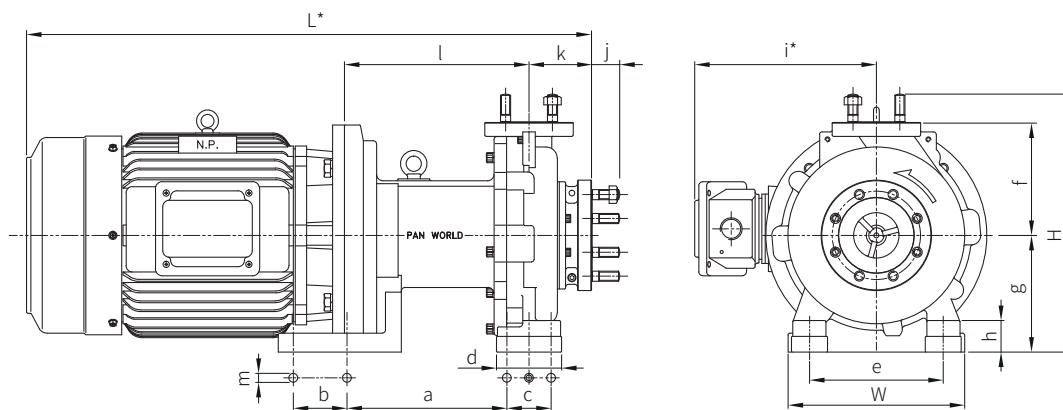
Note : 1. Pump mode with \*mark requires trimming impeller diameter according to specific gravity, viscosity and applicable motor.  
2. In case of pump performance curve at 60Hz according each specific, diameter of impaller should be trimmed.

## ■ Parts List



| Position | Description                                |
|----------|--------------------------------------------|
| 1        | Bracket                                    |
| 1-1      | Transition flange                          |
| 2        | Casing                                     |
| 3        | Rear casing                                |
| 4        | Impeller ass'y                             |
| 5        | Outer drive ring                           |
| 6        | Bearing ass'y                              |
| 7        | Back up ring                               |
| 8        | O. Ring                                    |
| 9        | Hexagon socket bolt w/t spring washer (x3) |
| 10       | Hexagon socket bolt w/t spring washer (x8) |
| 11       | Hexagon socket bolt M8x25 (x2)             |
| 12       | Hexagon socket bolt M8x20 (x6)             |
| 13       | Set screw (x2)                             |
| 14       | Eye bolt                                   |
| 15       | Stud bolt (x12)                            |
| 16       | Hexagon socket bolt w/t spring washer (x4) |
| 17       | Hexagon socket bolt M8x30 (x2)             |
| 18       | Hexagon head bolt w/t spring washer (x4)   |
| 19       | Spindle                                    |

## ■ Installation dimension



| Model                  | W   | H   | L*    | a   | b  | c  | d   | e   | f   | g   | h  | i*  | j  | k   | l     | m  |
|------------------------|-----|-----|-------|-----|----|----|-----|-----|-----|-----|----|-----|----|-----|-------|----|
| NH-40-140PW-XJ (5.5kW) | 280 | 385 | 702.5 | 253 | 85 | 70 | 100 | 212 | 180 | 160 | 25 | 252 | 45 | 100 | 262.5 | 14 |
| NH-40-160PW-XJ (7.5kW) | 280 | 385 | 736.5 | 253 | 85 | 70 | 100 | 212 | 180 | 160 | 25 | 252 | 45 | 100 | 262.5 | 14 |
| NH-40-180PW-XJ (7.5kW) | 280 | 385 | 736.5 | 253 | 85 | 70 | 100 | 212 | 180 | 160 | 25 | 252 | 45 | 100 | 262.5 | 14 |
| NH-40-200PW-XJ (11kW)  | 280 | 410 | 896.5 | 253 | 85 | 70 | 100 | 212 | 180 | 185 | 50 | 288 | 45 | 100 | 292.5 | 14 |
| NH-40-210PW-XJ (11kW)  | 280 | 410 | 896.5 | 253 | 85 | 70 | 100 | 212 | 180 | 185 | 50 | 288 | 45 | 100 | 292.5 | 14 |

Remarks :

1. Over all size & construction may be changed without notice.
2. Dimensions are based on S.G. 1.0.
3. \* Depending on type of motor used.

Unit : mm

## PW-N Series (Glass fiber-reinforced PP)

## PW-N-K Series (Fluorine Resin)

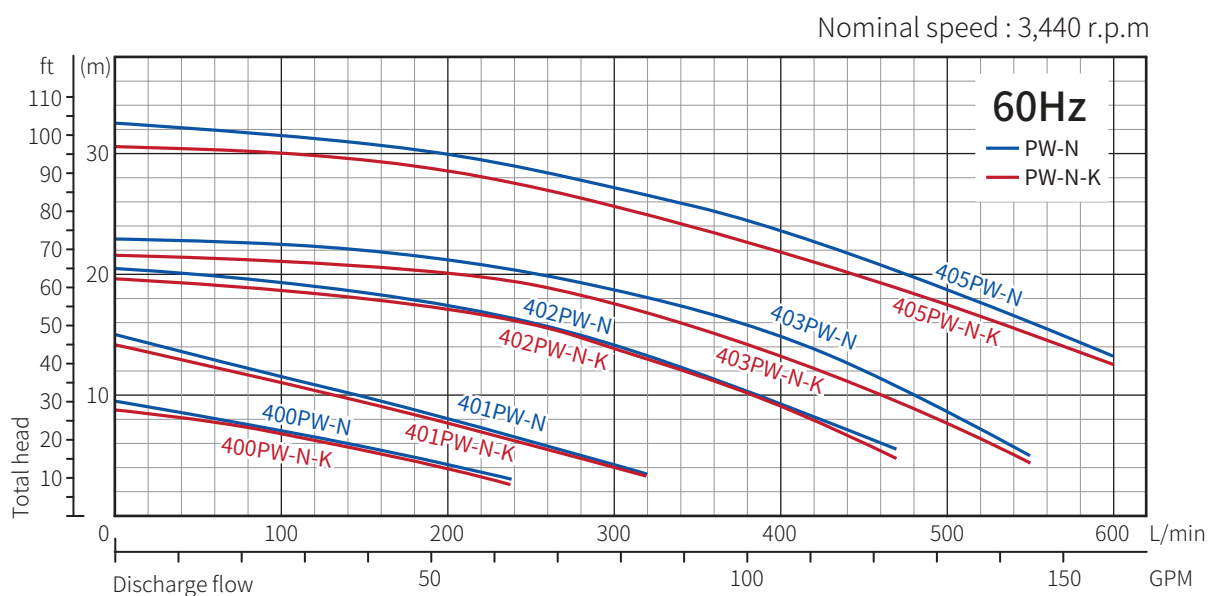
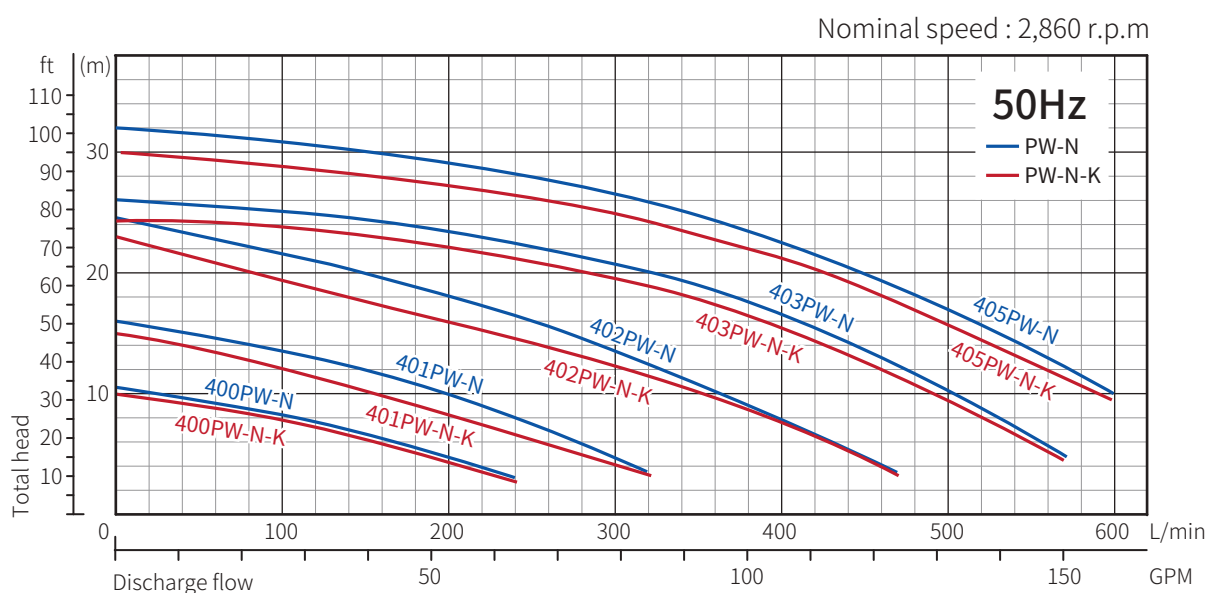
### Self-Priming Magnetic Drive Pump

- Precision injection parts for enhanced durability from glass-fiber reinforced PP or Fluorine Resin.
- Advanced design ensures effective gas and liquid separation.
- 10 models available with a maximum suction lift head of up to 4 m.
- Compatible with worldwide standard motors and pipe connections.

| Model                | PW-N                      | PW-N-K            |
|----------------------|---------------------------|-------------------|
| Materials in Contact | Glass fiber-reinforced PP | Fluorine Resin    |
| Max Flow             | 600 L/min                 | 600 L/min         |
| Max Head             | 32.5 m                    | 30.5 m            |
| Liquid Temp.         | 0°C~70°C                  | 0°C~80°C          |
| Motor Power          | 0.37 kW to 3.7 kW         | 0.37 kW to 3.7 kW |



### Pump performance curve



## Type indication

**N H - 4 0 0 P W - N - C V - F - L - 5**

①      ②      ③      ④ ⑤      ⑥      ⑦      ⑧

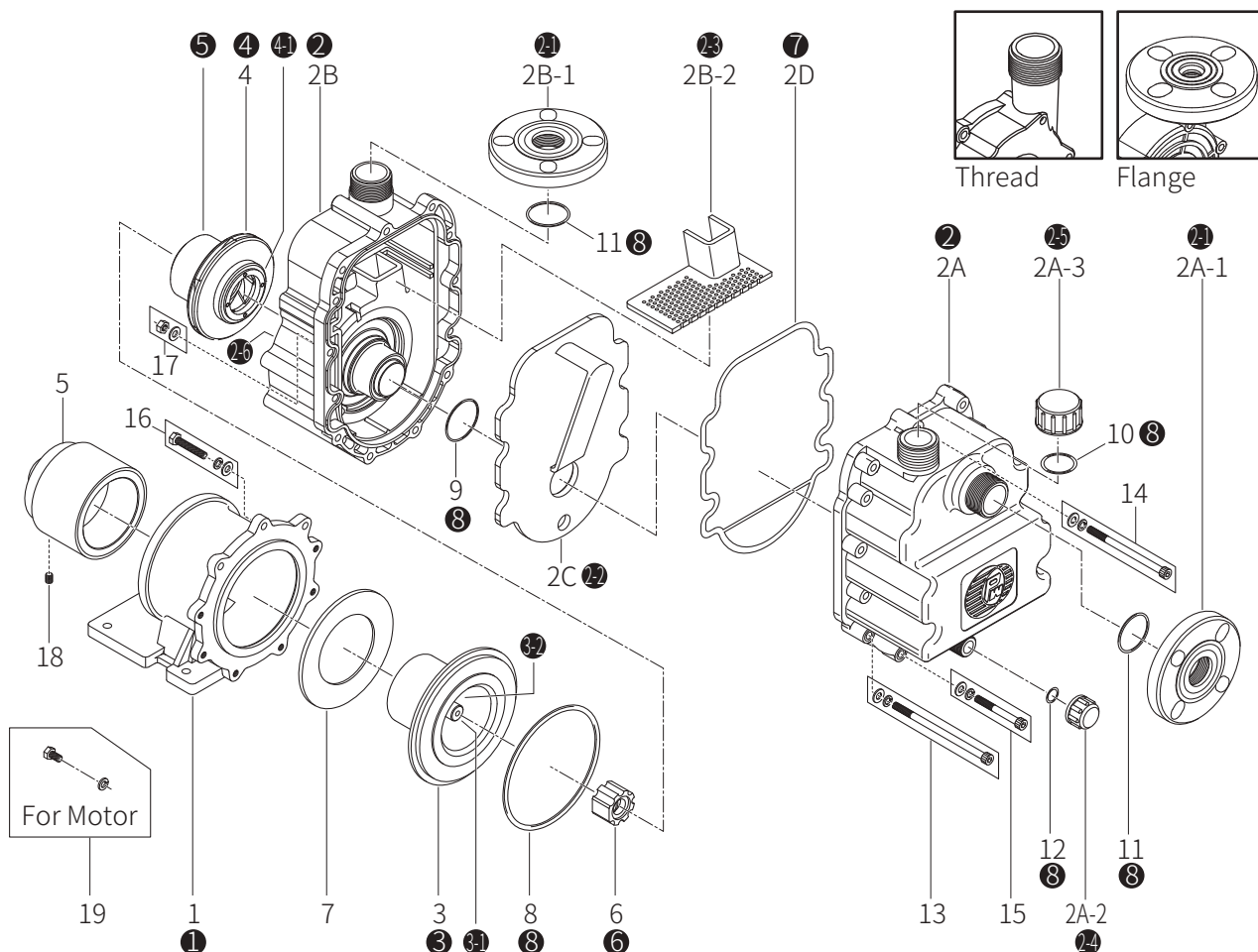
- ① **Bore**  
Discharge bore 40mm
- ② **Motor output**  
0 : 0.37 kW  
1 : 0.75 kW  
2 : 1.5 kW  
3 : 2.2 kW  
5 : 3.7 kW
- ③ **Series**  
PW-N : GFRPP  
PW-N-K : Fluorine Resin
- ④ **Bearing**  
PW-N : C : Carbon  
R : Rulon  
PW-N-K : F : Carbon  
R : Rulon
- ⑤ **O. Ring**  
V : FKM  
E : EPDM
- ⑥ **Connection method**  
F : Flange  
G : BS Thread  
N : NPT Thread
- ⑦ **Impeller**  
PW-N : L S.G=1.1  
M S.G=1.3  
PW-N-K : L S.G=1.2  
M S.G=1.5  
H S.G=1.9
- ⑧ **Frequency**  
5 : 50 Hz  
6 : 60 Hz

## Specification table

| Model        | Connection method |               | S.G. | Performance (m-L/min)        |            |                                            |            | Max Self Priming Lift head at S.G 1.0 (m) | Motor (kW) |
|--------------|-------------------|---------------|------|------------------------------|------------|--------------------------------------------|------------|-------------------------------------------|------------|
|              | Flange (mm)       | B. Thread (") |      | Max capacity - max discharge |            | Capacity-discharge head at specified point |            |                                           |            |
|              | In x Outlet       | In x Outlet   |      | 50Hz                         | 60Hz       | 50Hz                                       | 60Hz       |                                           |            |
| NH-400PW-N   | 40 x 40           | 1 1/2 x 1 1/2 | 1.1  | 10.5 - 240                   | 9.5 - 240  | 7.0 - 140                                  | 6.0 - 140  | 3                                         | 0.37       |
|              |                   |               | 1.3  | 8.5 - 200                    | 8.5 - 200  | 5.0 - 160                                  | 6.0 - 120  |                                           |            |
| NH-401PW-N   | 40 x 40           | 1 1/2 x 1 1/2 | 1.1  | 16.0 - 320                   | 15.0 - 320 | 10.0 - 200                                 | 8.0 - 200  | 3.3                                       | 0.75       |
|              |                   |               | 1.3  | 14.0 - 290                   | 12.5 - 290 | 10.0 - 160                                 | 9.0 - 160  |                                           |            |
| NH-402PW-N   | 50 x 40           | 2 x 1 1/2     | 1.1  | 24.5 - 470                   | 20.5 - 470 | 16.0 - 250                                 | 16.0 - 250 | 4                                         | 1.5        |
|              |                   |               | 1.3  | 22.0 - 450                   | 19.0 - 450 | 14.0 - 265                                 | 13.0 - 265 |                                           |            |
| NH-403PW-N   | 50 x 40           | 2 x 1 1/2     | 1.1  | 26.0 - 570                   | 23.0 - 570 | 21.0 - 280                                 | 19.0 - 290 | 4                                         | 2.2        |
|              |                   |               | 1.3  | 23.0 - 550                   | 21.0 - 550 | 18.0 - 240                                 | 18.0 - 240 |                                           |            |
| NH-405PW-N   | 50 x 40           | 2 x 1 1/2     | 1.1  | 32.0 - 600                   | 32.5 - 600 | 25.0 - 330                                 | 26.0 - 330 | 4                                         | 3.7        |
|              |                   |               | 1.3  | 32.0 - 600                   | 31.0 - 570 | 25.0 - 330                                 | 23.0 - 320 |                                           |            |
| NH-400PW-N-K | 40 x 40           | 1 1/2 x 1 1/2 | 1.2  | 10.0 - 240                   | 9.0 - 240  | 6.5 - 140                                  | 6.0 - 140  | 3                                         | 0.37       |
|              |                   |               | 1.5  | 8.5 - 240                    | 7.5 - 240  | 5.5 - 140                                  | 5.5 - 140  |                                           |            |
|              |                   |               | 1.9  | 7.5 - 240                    | 6.5 - 240  | 5.0 - 140                                  | 5.5 - 120  |                                           |            |
| NH-401PW-N-K | 40 x 40           | 1 1/2 x 1 1/2 | 1.2  | 15.0 - 320                   | 14.0 - 320 | 10.5 - 170                                 | 10.0 - 180 | 3.3                                       | 0.75       |
|              |                   |               | 1.5  | 13.0 - 320                   | 12.0 - 320 | 9.5 - 160                                  | 8.0 - 190  |                                           |            |
|              |                   |               | 1.9  | 11.0 - 320                   | 10.5 - 320 | 8.0 - 160                                  | 6.5 - 220  |                                           |            |
| NH-402PW-N-K | 50 x 40           | 2 x 1 1/2     | 1.2  | 23.0 - 470                   | 19.5 - 470 | 17.0 - 210                                 | 17.5 - 200 | 4                                         | 1.5        |
|              |                   |               | 1.5  | 20.0 - 470                   | 16.5 - 470 | 13.5 - 250                                 | 13.0 - 230 |                                           |            |
|              |                   |               | 1.9  | 20.0 - 470                   | 14.0 - 470 | 12.0 - 230                                 | 11.5 - 270 |                                           |            |
| NH-403PW-N-K | 50 x 40           | 2 x 1 1/2     | 1.2  | 24.5 - 570                   | 21.5 - 570 | 17.0 - 360                                 | 16.0 - 360 | 4                                         | 2.2        |
|              |                   |               | 1.5  | 21.0 - 570                   | 18.5 - 570 | 15.0 - 340                                 | 13.0 - 380 |                                           |            |
|              |                   |               | 1.9  | 18.0 - 570                   | 16.0 - 570 | 12.5 - 360                                 | 12.0 - 340 |                                           |            |
| NH-405PW-N-K | 50 x 40           | 2 x 1 1/2     | 1.2  | 30.0 - 600                   | 30.5 - 600 | 24.0 - 330                                 | 24.5 - 330 | 4                                         | 3.7        |
|              |                   |               | 1.5  | 26.0 - 600                   | 26.5 - 600 | 19.0 - 380                                 | 21.0 - 330 |                                           |            |
|              |                   |               | 1.9  | 22.0 - 600                   | 22.5 - 600 | 17.0 - 360                                 | 18.0 - 330 |                                           |            |

# PW-N / PW-N-K Series

## Parts List

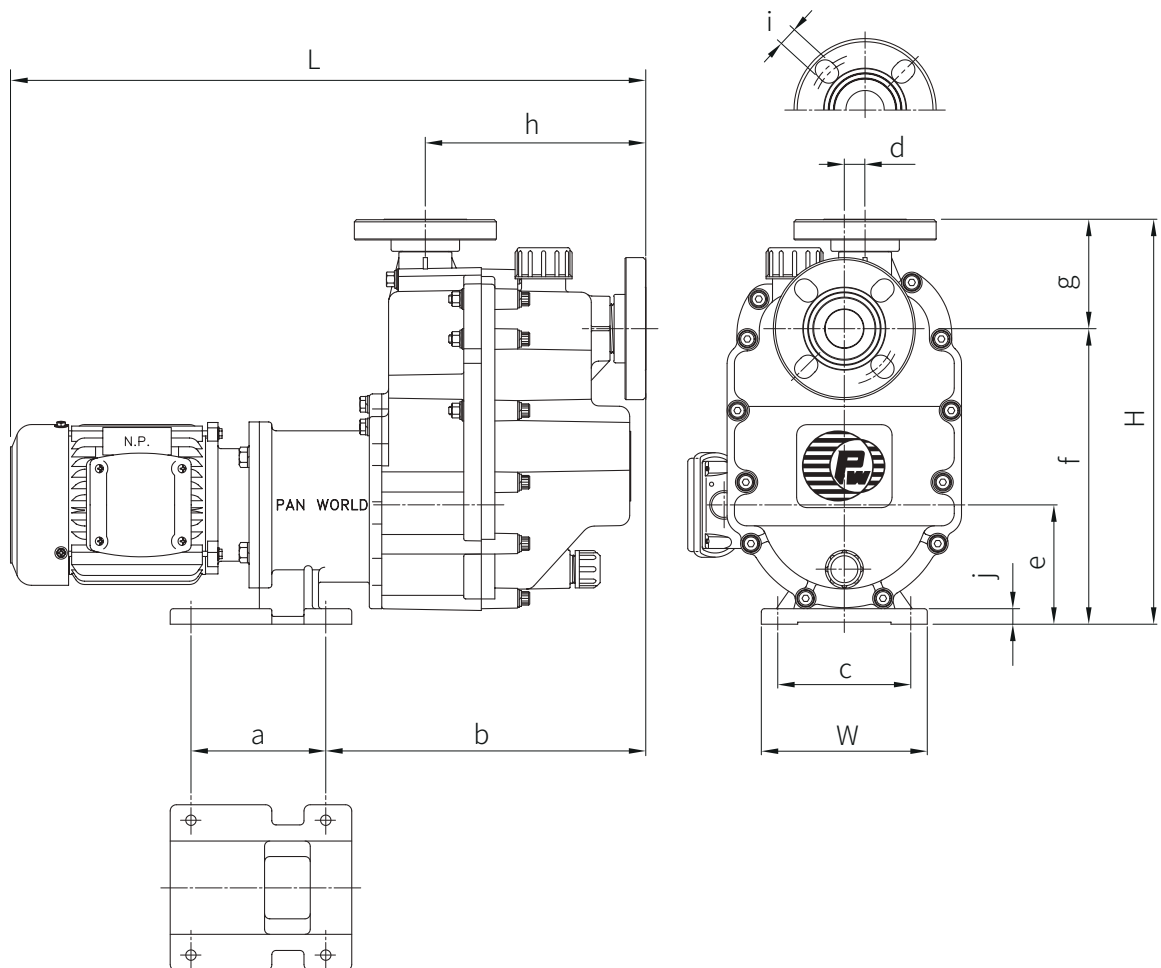


| Position | Description                                                    |
|----------|----------------------------------------------------------------|
| 1        | Bracket                                                        |
| 2        | Self-priming chamber                                           |
| 2A       | Front casing chamber                                           |
| 2A-1     | Flange                                                         |
| 2A-2     | Drain cap                                                      |
| 2A-3     | Filler cap                                                     |
| 2B       | Rear casing chamber                                            |
| 2B-1     | Flange                                                         |
| 2B-2     | Filter                                                         |
| 2C       | Telescopic piece                                               |
| 2D       | Gasket                                                         |
| 3        | Rear casing                                                    |
| 4        | Impeller ass'y                                                 |
| 5        | Outer drive ring                                               |
| 6        | Bearing ass'y                                                  |
| 7        | Back up ring                                                   |
| 8        | O. Ring                                                        |
| 9        | O. Ring                                                        |
| 10       | O. Ring                                                        |
| 11       | O. Ring (x2)                                                   |
| 12       | O. Ring                                                        |
| 13       | Hexagon socket bolt w/t spring washer (x6)<br>w/t plain washer |
| 14       | Hexagon socket bolt w/t spring washer<br>w/t plain washer      |
| 15       | Hexagon socket bolt w/t spring washer (x6)<br>w/t plain washer |

| Position | Description                                                  |
|----------|--------------------------------------------------------------|
| 16       | Hexagon head bolt w/t spring washer (x3)<br>w/t plain washer |
| 17       | NUT w/t plain washer (x7)                                    |
| 18       | Set screw (x2)                                               |
| 19       | Hexagon head bolt w/t spring washer (x4)                     |

| Part name               | PW-N                  |      | PW-N-K         |        |          |        |
|-------------------------|-----------------------|------|----------------|--------|----------|--------|
|                         | CV                    | CE   | RV             | FV     | RE       | FE     |
| ① Bracket               | FC-200                |      |                |        |          |        |
| ② Self-priming chambers | GFRPP                 |      | Fluorine Resin |        |          |        |
| ②A Flange               |                       |      |                |        |          |        |
| ②B Telescopic piece     |                       |      |                |        |          |        |
| ②C Filter               |                       |      |                |        |          |        |
| ②D Drain cap            |                       |      |                |        |          |        |
| ②E Filler cap           |                       |      |                |        |          |        |
| ②F Thrust pad           | 99.5% Alumina ceramic |      |                |        |          |        |
| ③ Rear casing           | GFRPP                 |      | ETFE           |        |          |        |
| ③A Spindle              | 99.5% Alumina ceramic |      |                |        |          |        |
| ③B Rear thrust pad      | 99.5% Alumina ceramic |      |                |        |          |        |
| ④ Impeller              | GFRPP                 |      | ETFE           |        |          |        |
| ④A Mouth ring           | Rulon LD              |      |                |        |          |        |
| ⑤ Magnet capsule        | GFRPP                 |      | ETFE           |        |          |        |
| ⑥ Bearing               | Carbon                |      | Rulon LD       | Carbon | Rulon LD | Carbon |
| ⑦ Gasket                | FKM                   | EPDM | FKM            |        | EPDM     |        |
| ⑧ O Ring                |                       |      |                |        |          |        |

## ■ Installation dimension



| Model               | W   | H     | L     | a   | b     | c   | d  | e   | f   | g     | h     | i  | j  |
|---------------------|-----|-------|-------|-----|-------|-----|----|-----|-----|-------|-------|----|----|
| NH-400PW-N / PW-N-K | 160 | 390.5 | 612.5 | 130 | 308.5 | 130 | 20 | 115 | 285 | 105.5 | 212.5 | 19 | 15 |
| NH-401PW-N / PW-N-K | 160 | 390.5 | 614.5 | 130 | 308.5 | 130 | 20 | 115 | 285 | 105.5 | 212.5 | 19 | 15 |
| NH-402PW-N / PW-N-K | 260 | 420.5 | 793.5 | 200 | 333   | 208 | 30 | 115 | 315 | 105.5 | 250   | 19 | 15 |
| NH-403PW-N / PW-N-K | 260 | 420.5 | 793.5 | 200 | 333   | 208 | 30 | 115 | 315 | 105.5 | 250   | 19 | 15 |
| NH-405PW-N / PW-N-K | 260 | 435.5 | 863   | 200 | 333   | 208 | 30 | 130 | 330 | 105.5 | 250   | 19 | 30 |

Unit : mm

## PH Series (Glass fiber-reinforced PPS)

### 1.5-11kW, Max Spec. point: T.D.H. 70m at 540 L/min Single Stage and Multi-Stage Compact Magnetic Drive Pump

- Offered in single-stage and 2-stage configurations with precision injection parts.
- Designed for P.C.B. machines, Filtration, and Etching systems.
- Compatible with IEC motors and NEMA-C face options.
- Suitable for various chemicals with BS thread, NPT thread, or flange connections.

**Materials in Contact** : Glass fiber-reinforced PPS

**Max Flow** : 540 L/min

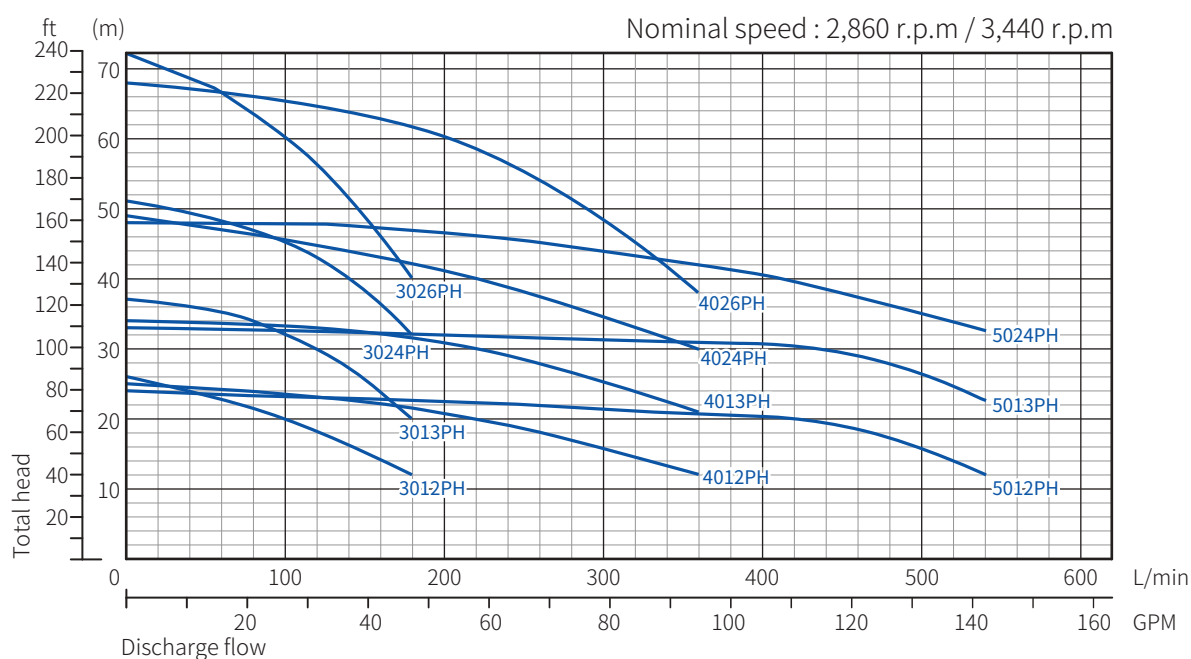
**Max Head** : 70 m

**Liquid Temp.** : 0°C~70°C

**Motor Power** : 1.5 kW to 11 kW



### ■ Pump performance curve



## ■ Type indication

**N H - 3 0 1 2 P H - C V - G - 0 7 C - 0 5**

①                      ②                      ③                      ④                      ⑤                      ⑥                      ⑦

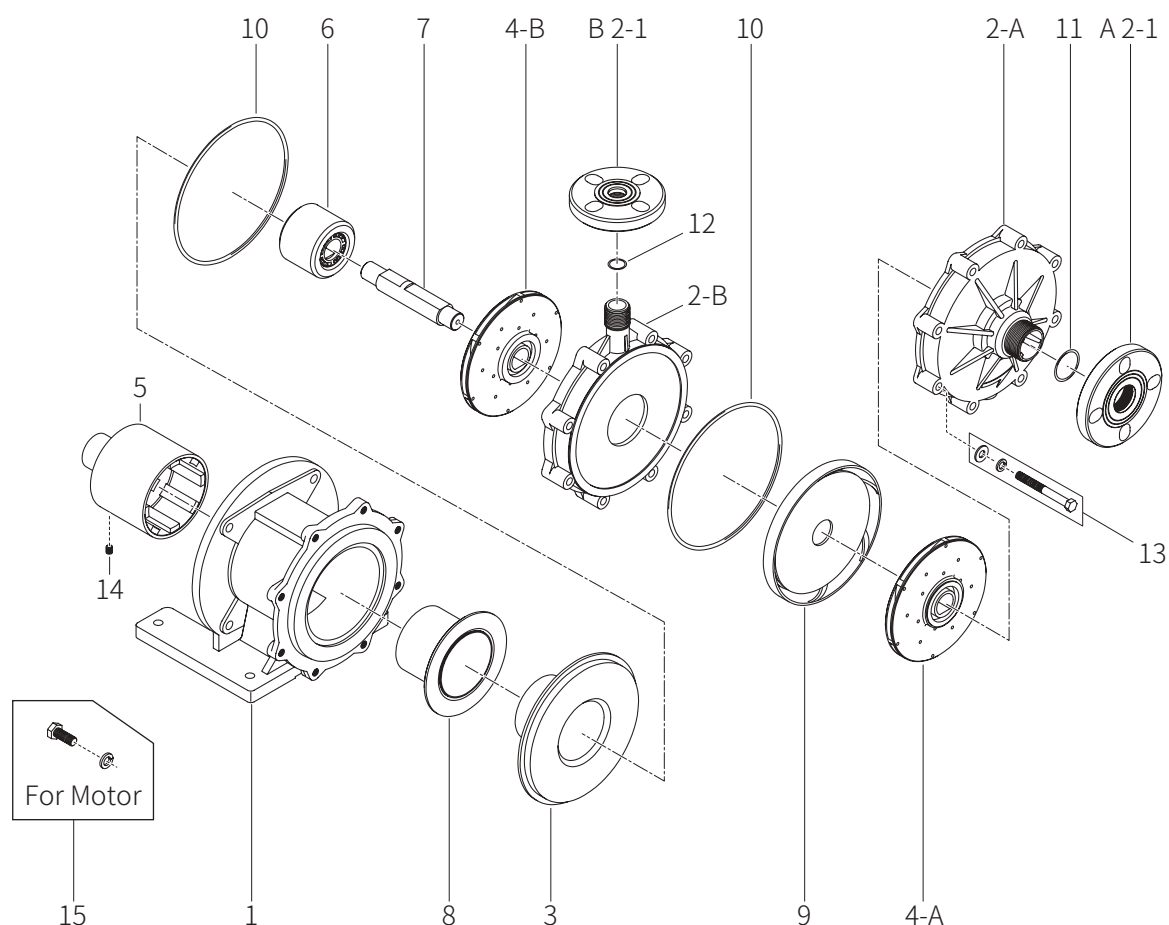
- ① **Model**      ② **Series**      ③ **Combination of abrasion parts**      ④ **Pipe connection**      ⑤ **Motor output**
- CV : Carbon bearing \* Ceramic spindle \* FKM O ring      G : BS thread      07 : 0.75 kW  
Si : Sic bearing \* Sic spindle \* FKM O ring      N : NPT thread      15 : 1.5 kW  
F : Flange      22 : 2.2 kW  
37 : 3.7 kW  
55 : 5.5 kW  
75 : 7.5 kW  
110 : 11 kW
- ⑥ **Required motor**      ⑦ **Frequency**
- Without Indoor use      5 : 50 Hz  
With B Explosion proof      6 : 60 Hz  
C Weather proof

## ■ Specification table

| Model     | Pipe connection        | Pump performance      |                            | motor kW<br>at L/min<br>discharge<br>flow | Applicable motor (kW) |          |          |
|-----------|------------------------|-----------------------|----------------------------|-------------------------------------------|-----------------------|----------|----------|
|           | Inlet × outlet<br>(mm) | Max. point<br>m-L/min | Specified point<br>m-L/min |                                           | S.G. 1.0              | S.G. 1.3 | S.G. 1.5 |
| NH-3012PH | 40 x 25                | 26 - 180              | 20 - 100                   | at 100                                    | 1.5                   | 1.5      | 2.2      |
| NH-3013PH |                        | 36 - 180              | 30 - 100                   |                                           | 2.2                   | 2.2      | 3.7      |
| NH-3024PH |                        | 51 - 180              | 40 - 100                   |                                           | 3.7                   | 3.7      | 5.5      |
| NH-3026PH |                        | 70 - 180              | 60 - 100                   |                                           | 3.7                   | 5.5      | 5.5      |
| NH-4012PH | 50 x 40                | 25 - 360              | 20 - 220                   | at 220                                    | 2.2                   | 3.7      | 5.5      |
| NH-4013PH |                        | 34 - 360              | 30 - 220                   |                                           | 3.7                   | 5.5      | 7.5      |
| NH-4024PH |                        | 49 - 360              | 40 - 220                   |                                           | 5.5                   | 7.5      | 11       |
| NH-4026PH |                        | 68 - 360              | 60 - 220                   |                                           | 7.5                   | 11       | 11       |
| NH-5012PH | 65 x 50                | 24 - 540              | 20 - 450                   | at 450                                    | 3.7                   | 5.5      | 7.5      |
| NH-5013PH |                        | 33 - 540              | 30 - 450                   |                                           | 5.5                   | 7.5      | 11       |
| NH-5024PH |                        | 48 - 540              | 40 - 450                   |                                           | 7.5                   | 11       | 11       |

# PH Series

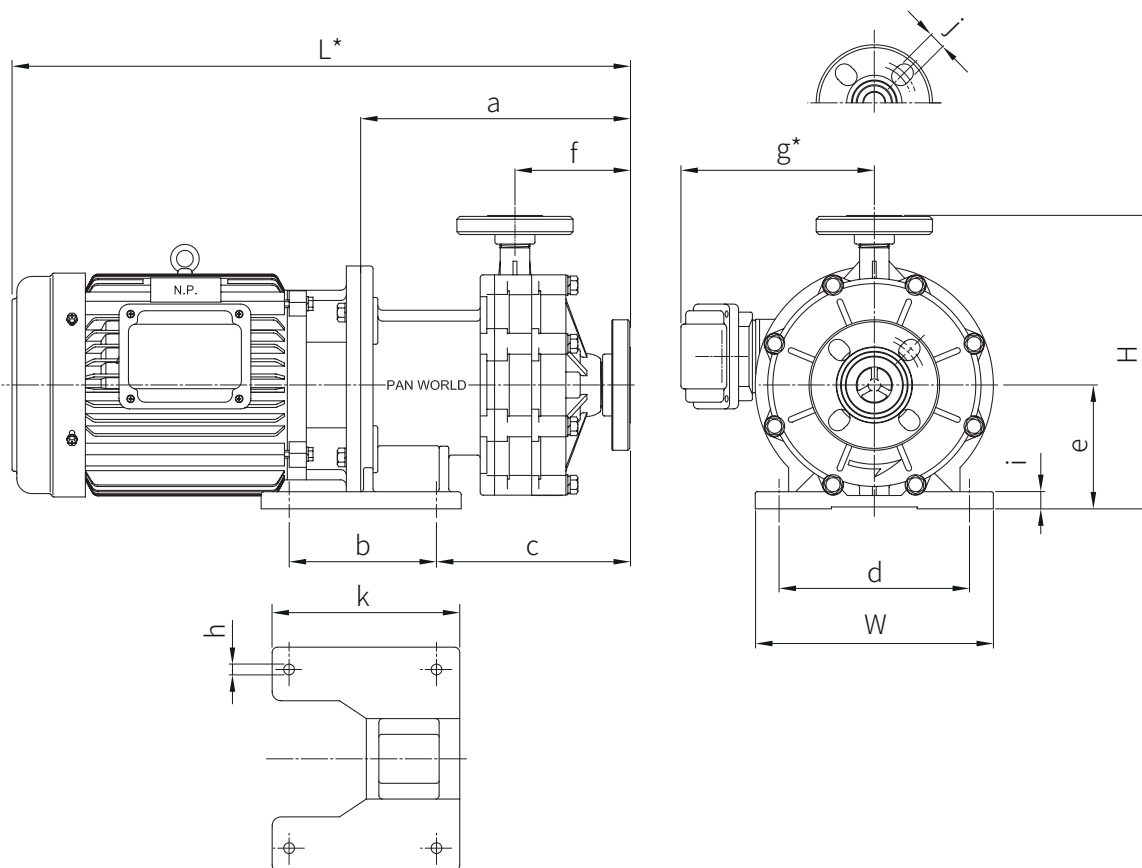
## Parts List



| Position | Description        |
|----------|--------------------|
| 1        | Bracket            |
| 2-A      | Front casing-1st   |
| A 2-1    | Flange             |
| 2-B      | Casing-2nd         |
| B 2-1    | Flange             |
| 3        | Rear casing        |
| 4-A      | Impeller ass'y-1st |
| 4-B      | Impeller ass'y-2nd |
| 5        | Drive magnet       |
| 6        | Magnet capsule     |

| Position | Description                                                  |
|----------|--------------------------------------------------------------|
| 7        | Spindle                                                      |
| 8        | Rear casing cover                                            |
| 9        | Defuser                                                      |
| 10       | O. Ring (x2)                                                 |
| 11       | O. Ring                                                      |
| 12       | O. Ring                                                      |
| 13       | Hexagon head bolt w/t spring washer (x8)<br>w/t plain washer |
| 14       | Set screw (x2)                                               |
| 15       | Hexagon head bolt w/t spring washer (x4)                     |

## ■ Installation dimension



| Model             | W   | H   | L*  | a   | b   | c   | d   | e   | f   | g*  | h  | i  | j  | k   |
|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|-----|
| NH-3012PH (1.5kW) | 250 | 303 | 522 | 239 | 165 | 171 | 200 | 125 | 88  | 170 | 12 | 16 | 19 | 210 |
| NH-3013PH (2.2kW) | 250 | 303 | 522 | 239 | 165 | 171 | 200 | 125 | 88  | 170 | 12 | 16 | 19 | 210 |
| NH-3024PH (3.7kW) | 250 | 308 | 649 | 283 | 165 | 204 | 200 | 130 | 121 | 203 | 12 | 18 | 19 | 210 |
| NH-3026PH (3.7kW) | 250 | 308 | 649 | 283 | 165 | 204 | 200 | 130 | 121 | 203 | 12 | 18 | 19 | 210 |
| NH-4012PH (2.2kW) | 250 | 301 | 560 | 277 | 165 | 185 | 200 | 125 | 90  | 170 | 12 | 16 | 19 | 210 |
| NH-4013PH (3.7kW) | 250 | 306 | 653 | 287 | 165 | 185 | 200 | 130 | 90  | 203 | 12 | 18 | 19 | 210 |
| NH-4024PH (5.5kW) | 280 | 356 | 691 | 351 | 195 | 227 | 220 | 180 | 132 | 252 | 14 | 20 | 19 | 250 |
| NH-4026PH (7.5kW) | 280 | 356 | 725 | 351 | 195 | 227 | 220 | 180 | 132 | 252 | 14 | 20 | 19 | 250 |
| NH-5012PH (3.7kW) | 250 | 305 | 655 | 289 | 165 | 186 | 200 | 130 | 92  | 203 | 12 | 18 | 19 | 210 |
| NH-5013PH (5.5kW) | 280 | 355 | 650 | 310 | 195 | 187 | 220 | 180 | 92  | 252 | 14 | 20 | 19 | 250 |
| NH-5024PH (7.5kW) | 280 | 355 | 726 | 352 | 195 | 229 | 220 | 180 | 134 | 252 | 14 | 20 | 19 | 250 |

Remarks :

1. Over all size & construction may be changed without notice.
2. \* Depending on type of motor used.

Unit : mm

## PA-S Series

### Chemical Stirrers

- Available with ECTFE or SUS316 wetted-end material.
- Designed for tank top mounting with flange connections.
- Standard lengths of 490mm, 690mm, and 890mm.
- Driven by a 20W/1400rpm TELC motor.

### Type indication

**N H - P A - S - 3 - P - 4**

- ① Series name    ② Model    ③ Wetted end    ④ Length
- P : ECTFE coated  
S : SUS-316
- 4 : 490 mm  
6 : 690 mm  
8 : 890 mm



## PD Series

### Pan World Dry Running Protector

- Compact design.
- Two integral current transformers.
- Wide range current adjustment.
- Definite trip time characteristic.
- Manual (instantaneous)/Electric (remote) reset.
- Easy maintenance.

### Type indication

**N H - P D - 0 5 - 2 2 0**

- ① Series    ② Operation current    ③ Supply voltage
- 05 : 0.5-5A  
30 : 3.0-30A



### Specification table

| Model             | PD-05           | PD-30     |
|-------------------|-----------------|-----------|
| Current range     | 0.5 - 5A        | 3.0 - 30A |
| Trip time setting | 0.2 - 30 sec.   |           |
| Power supply      | 3 phase 220V AC |           |
| Output relay      | 3A 250V AC      |           |

## Areas of Application

| Series                     | PI-Z-D/PI-X-D<br>PX/PX-D/PS | PI-Z-D-F/PI-X-D-F<br>PX-N/PX-D-N/PX-F<br>PX-D-F/PS-F/PS-K | PWE/PWH/PW<br>PS-N/PW-N<br>PS-N-K/PW-N-K | PWE-F/PWH-F<br>PW-F/PW-K | PWX-C<br>PW-C/PW-XJ | PH            | PA-S  |
|----------------------------|-----------------------------|-----------------------------------------------------------|------------------------------------------|--------------------------|---------------------|---------------|-------|
| Classification             | Magnetic pump               | Magnetic pump                                             | Magnetic pump                            | Magnetic pump            | Magnetic pump       | Magnetic pump | Mixer |
| Filtration                 | *                           |                                                           | *                                        |                          |                     | *             |       |
| P.C.B. machine             |                             |                                                           | *                                        |                          |                     | *             |       |
| Etching machine            | *                           | *                                                         | *                                        | *                        |                     | *             |       |
| Chemical, Electric plating | *                           | *                                                         | *                                        | *                        |                     | *             | *     |
| Scrubber                   |                             |                                                           | *                                        |                          |                     |               |       |
| Waste water treatment      |                             |                                                           | *                                        | *                        | *                   | *             |       |
| Chemical transfer          | *                           | *                                                         | *                                        | *                        | *                   | *             | *     |
| Chemical refine process    |                             |                                                           | *                                        | *                        | *                   | *             |       |
| Pharmaceutical             | *                           | *                                                         | *                                        | *                        |                     | *             | *     |
| Shadow mask machine        |                             |                                                           | *                                        | *                        | *                   | *             | *     |
| C.R.T.producing            |                             |                                                           | *                                        | *                        | *                   | *             |       |
| Metal degreasing           |                             |                                                           |                                          | *                        | *                   |               |       |
| Glass etching              |                             |                                                           |                                          | *                        | *                   |               |       |
| Paper industry             |                             |                                                           | *                                        | *                        | *                   | *             |       |
| Laboratory application     | *                           | *                                                         | *                                        |                          |                     |               | *     |
| Vending machine            | *                           |                                                           |                                          |                          |                     |               |       |
| Food process               |                             |                                                           | *                                        | *                        | *                   | *             |       |
| Deionizing equipment       | *                           | *                                                         | *                                        | *                        | *                   | *             | *     |
| Semi-conductor             |                             | *                                                         |                                          | *                        |                     | *             |       |
| Ice machine                | *                           |                                                           |                                          |                          |                     |               |       |
| Juice server               | *                           |                                                           |                                          |                          |                     |               |       |
| Power station              |                             |                                                           |                                          |                          | *                   |               |       |
| Salt industry              |                             |                                                           | *                                        |                          |                     |               | *     |
| Battery industry           | *                           | *                                                         | *                                        | *                        | *                   | *             |       |
| Waste chemical transfer    | *                           | *                                                         | *                                        | *                        | *                   | *             | *     |
| Chemical controller        | *                           |                                                           |                                          |                          |                     |               |       |
| MC/CNC machinery           | *                           |                                                           |                                          |                          |                     |               |       |



# Pan World Group

**Pan World Co., Ltd.**  
Headquarter (Japan)

**TPW, Hong Yuan Co., Ltd.**  
Factory (Taiwan)

**Jen Fu Technology Inc.**  
Taiwan Branch

**Shinfu Mechanical (SuZhou) Co., Ltd.**  
SUZhou Branch (China)

**Shenzhen Yongchao Technology Co.,Ltd.**  
Shenzhen Branch (China)

**Global Prospect Engineering & Trading Ltd.**  
Hong Kong Branch

**Magnetic Panworld Pumps Trading**  
Philippines Branch



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Specifications are subjected to changes without prior notice.

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