

# AMA SERIES

## High Head Magnetic Drive Pump

### **No Leak, Durable and High Efficiency**

The pump body is completely sealed to prevent liquid leakage, and hence preventing pollution or corrosion problems caused by many traditional mechanical seal pump. The pump's impeller and magnetic parts are well integrated to avoid damage during high-speed rotation and high temperature. The integrated impeller and inner magnet also reduce the assembly risk and therefore increase the efficiency of the pump.

### **Excellent corrosion resistance thermoplastic materials**

The pump body is made from reinforced polypropylene and enhanced fluoroplastic (PP/GFRPP/PVDF). The pump shaft, bearing and thrust ring made from high corrosion resistant materials such as Ceramic, SSIC, PTFE and Carbon which integrated with seal-less and leaked proof design to ensure the safe transfer of chemicals.

### **Easy to assemble and maintenance**

Most of the pump's parts are molded design for easy to assemble and maintain.



High head design, the head can reach more than 35 meters.



The suction size and discharge size is 25mm, significantly reduce piping costs.



Power : 0.375kw ~ 3.75kw



Use for PCB horizontal line



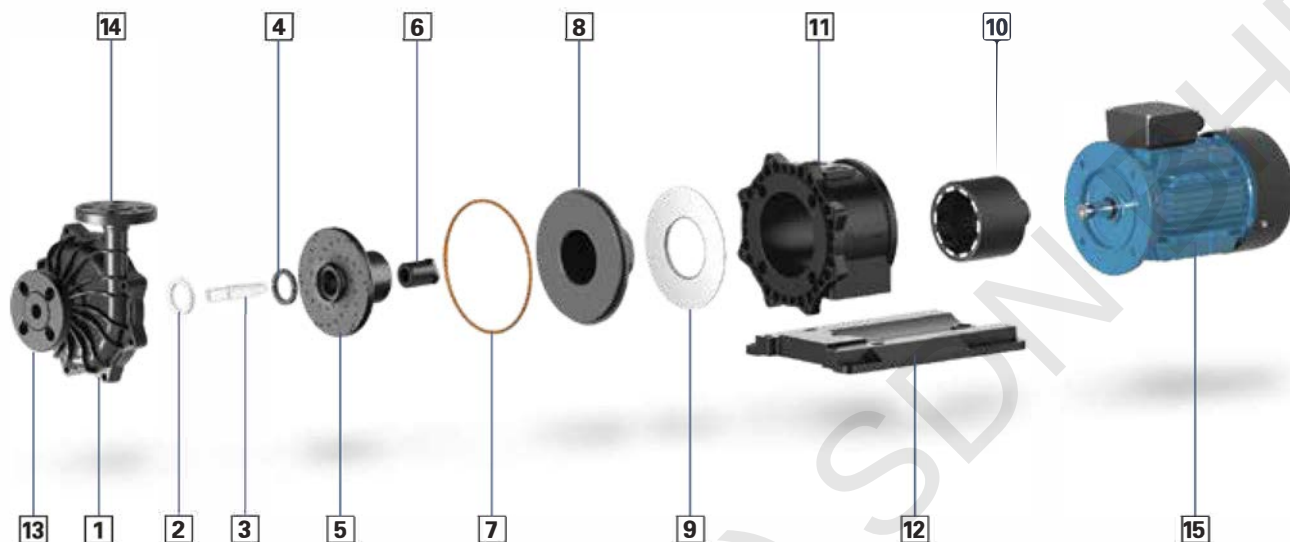
Patented product design

**High head design**  
**The head can reach more than 35 meters**

# AMA SERIES

## High Head Magnetic Drive Pump

### MATERIAL

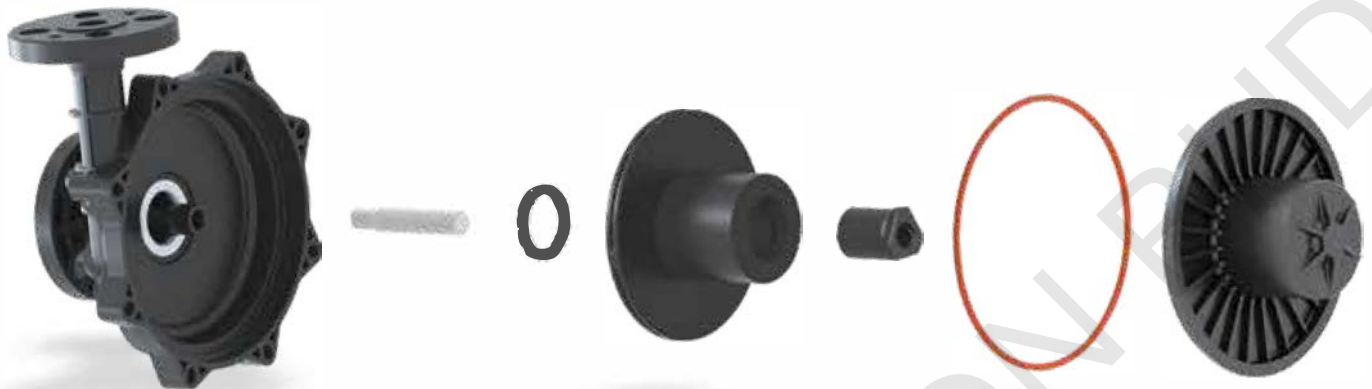


| NO. | Description              | ACE                        | ACV  | ARE   | ARV  | AAE     | AAV  | SSE   | SSV  |       |
|-----|--------------------------|----------------------------|------|-------|------|---------|------|-------|------|-------|
| 1   | Pump casing              | GFRPP/CFRPP/ PVDF/ CFRETFE |      |       |      |         |      |       |      |       |
| 2   | Front thrust ring        | CERAMIC                    |      |       |      |         |      | SSIC  |      |       |
| 3   | Shaft                    | CERAMIC                    |      |       |      |         |      | SSIC  |      |       |
| 4   | Wear resistant ring      | PTFE                       |      |       |      |         |      | SSIC  |      |       |
| 5   | Impeller unit            | GFRPP/CFRPP/ PVDF/ CFRETFE |      |       |      |         |      |       |      |       |
| 6   | Bearing                  | CARBON                     |      | PTFE  |      | CERAMIC |      | SSIC  |      |       |
| 7   | O-Ring                   | Note                       | EPDM | VITON | EPDM | VITON   | EPDM | VITON | EPDM | VITON |
| 8   | Rear casing              | GFRPP/CFRPP/ PVDF/ CFRETFE |      |       |      |         |      |       |      |       |
| 9   | Backup plate             | SUS304                     |      |       |      |         |      |       |      |       |
| 10  | Drive magnet             | Nd-Fe-B                    |      |       |      |         |      |       |      |       |
| 11  | Frame                    | GFRPP                      |      |       |      |         |      |       |      |       |
| 12  | Base frame               | GFRPP                      |      |       |      |         |      |       |      |       |
| 13  | Inlet adjustable flange  | GFRPP/CFRPP/ PVDF/ CFRETFE |      |       |      |         |      |       |      |       |
| 14  | Outlet adjustable flange | GFRPP/CFRPP/ PVDF/ CFRETFE |      |       |      |         |      |       |      |       |
| 15  | Motor                    |                            |      |       |      |         |      |       |      |       |

Note: O-ring can choose FFKM.

# AMA SERIES

## High Head Magnetic Drive Pump



### Flexible flange

Patented single piece design leak-free flange.  
Without tightening alignment problem during installation.

### Enhanced front casing

Made of reinforced polypropylene and Enhanced fluoroplastic, which has high corrosion resistance.

Optional material:

GFRPP  
PVDF

CFRPP  
CFRTEFE



### Shaft

Using double point supporting structure to increase the reliability of the pump shaft.



### Bearing

4 different types of bearing materials to choose for different type of chemicals.



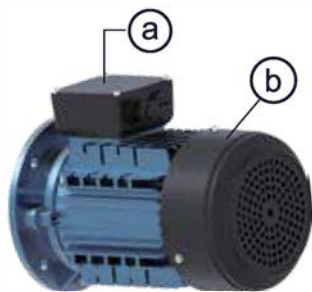
EPDM VITON FFKM

### O-Ring

3 types of high corrosion resistant material for selection.

# AMA SERIES

## High Head Magnetic Drive Pump



### a. Terminal box

Terminal box of the motor is injection mould of flame retarded reinforce plastic to improve the protective grade of motor.

### b. Motor Fan Cover

Motor fan cover made of injection mould high strength plastic to improve the protective grade of motor.

### Impeller unit + magnetic capsule

Integrated impeller and inner magnet unit able to withstand high speed running and high temperature. The magnetic capsule is a rare earth magnet with strong charging force of over 1.5kW.



### Enhance rear casing

Reinforced by stainless steel for rear casing, to improve the pressure resistance and durability.



### Drive magnet

The outer drive magnet having strong support frame to enhance the mechanical strength and precision alignment of the magnet. The strong driving force of magnet is over 1.5kW.



### Plastic support plastic frame

Made of durable and anti corrosion plastic suitable for corrosive environment.



# AMA SERIES

## High Head Magnetic Drive Pump

### MODEL IDENTIFICATION

**AMA** – **5** **4** **2** **F** **G** **A** **C** **V** **5** – **C** **S**  
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

|                      |                                                                                             |                    |                                                                               |
|----------------------|---------------------------------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------|
| ① Series Symbol      | AMA                                                                                         | ⑦ Shaft Material   | A: CERAMIC S: SSIC                                                            |
| ② Suction Size       | 2:25A (1") 4:40A (1½")<br>5:50A (2") 6:65A (2½")                                            | ⑧ Bearing Material | A: CERAMIC C: CARBON<br>R: PTFE S: SSIC                                       |
| ③ Discharge Size     | 2:25A (1") 4:40A (1½")<br>5:50A (2")                                                        | ⑨ O-Ring Material  | E: EPDM<br>V: VITON<br>K: FFKM                                                |
| ④ Motor Power        | 0: 1/2HP (0.37kW)<br>1: 1HP (0.75kW)<br>2: 2HP (1.5kW)<br>3: 3HP (2.2kW)<br>5: 5HP (3.75kW) | ⑩ Code of impeller | 5: 50HZ 6: 60HZ                                                               |
| ⑤ Type of Connection | F: Flange<br>U: Union                                                                       | ⑪ Motor type       | No code: TEFC Indoor type<br>C: TEFC Outdoor type<br>A: Increased safety type |
| ⑥ Casing Material    | G: GFRPP P:PVDF<br>C: CFRPP E:CFRETFE                                                       | ⑫ Special code     | No code: Standard type<br>S: Special type                                     |

### SPECIFICATIONS

50/60HZ

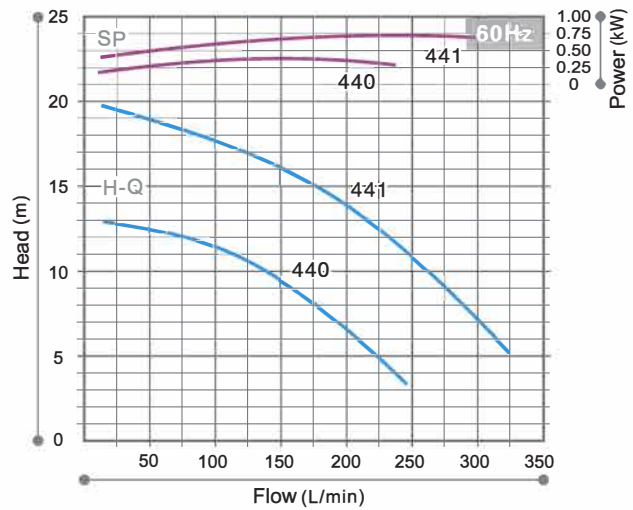
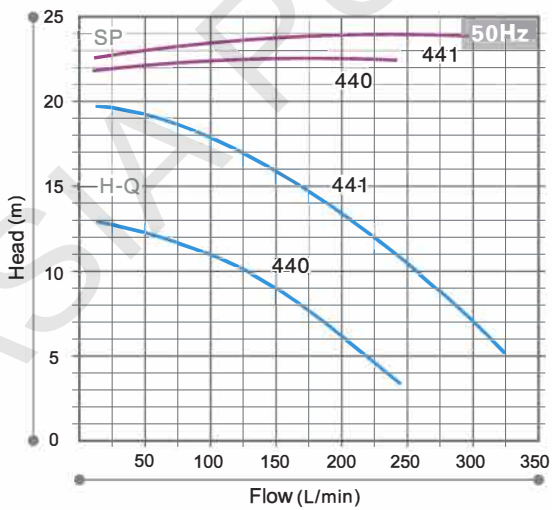
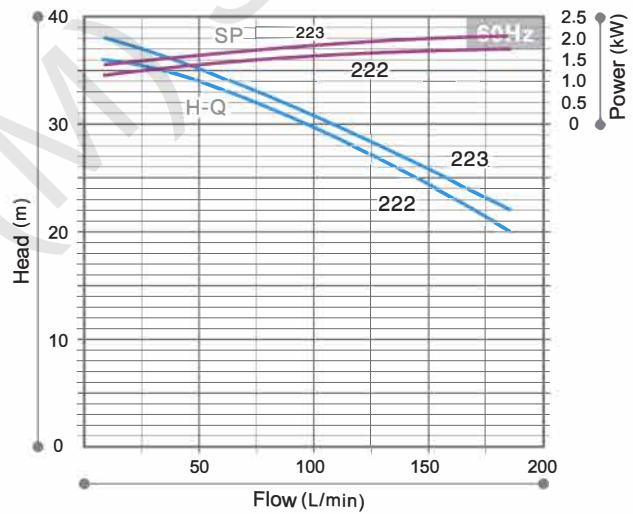
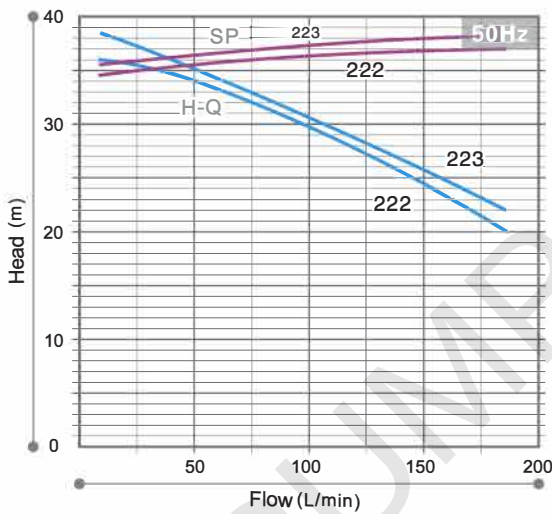
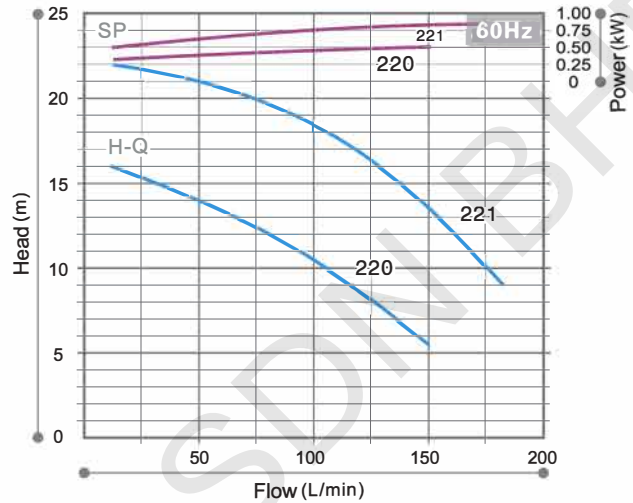
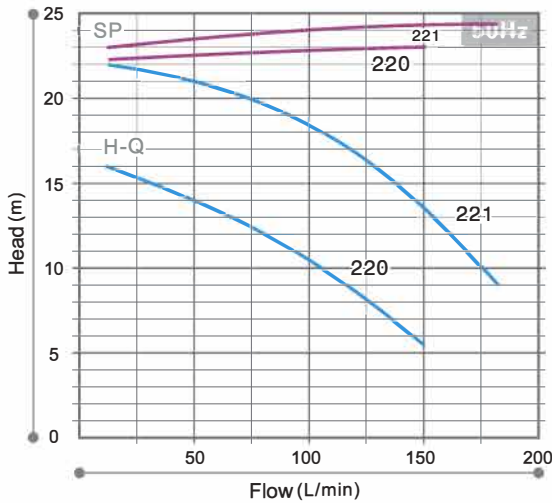
| Model    | Inlet x Outlet | Rated Capacity (L/min) | Rated Head (m) | Max. Capacity (L/min) | Max. Head (m) | Motor output (kW) |
|----------|----------------|------------------------|----------------|-----------------------|---------------|-------------------|
| AMA-220  | 25×25          | 50                     | 14             | 150                   | 16            | 0.37              |
| AMA-221  | 25×25          | 50                     | 21             | 180                   | 22            | 0.75              |
| AMA-222  | 25×25          | 50                     | 34             | 180                   | 36            | 1.5               |
| AMA-223  | 25×25          | 50                     | 35             | 180                   | 38            | 2.2               |
| AMA-440  | 40×40          | 100                    | 11/11.5        | 240                   | 13            | 0.37              |
| AMA-441  | 40×40          | 150                    | 15.5           | 330                   | 19.5          | 0.75              |
| AMA-542  | 50×40          | 200                    | 22             | 450                   | 25.5          | 1.5               |
| AMA-552  | 50×50          |                        |                |                       |               |                   |
| AMA-542H | 50×40          | 100                    | 26.5/29        | 250/150               | 27.5/30.5     | 1.5               |
| AMA-552H | 50×50          |                        |                |                       |               |                   |
| AMA-543  | 50×40          | 250                    | 26             | 500                   | 31.5          | 2.2               |
| AMA-553  | 50×50          |                        |                |                       |               |                   |
| AMA-543H | 50×40          | 150                    | 32/34          | 300/250               | 34/36         | 2.2               |
| AMA-553H | 50×50          |                        |                |                       |               |                   |
| AMA-545  | 50×40          | 250                    | 31/35          | 520                   | 35/39         | 3.7               |
| AMA-555  | 50×50          |                        |                |                       |               |                   |
| AMA-653  | 65×50          | 450                    | 16             | 600                   | 20            | 2.2               |
| AMA-655  | 65×50          | 500                    | 25             | 860                   | 28.5          | 3.7               |

Liquid temperature range: GFRPP:0–80℃, CFRPP:0–80℃, PVDF:0–90℃, CFRETFE:0–100℃.

# AMA SERIES

## High Head Magnetic Drive Pump

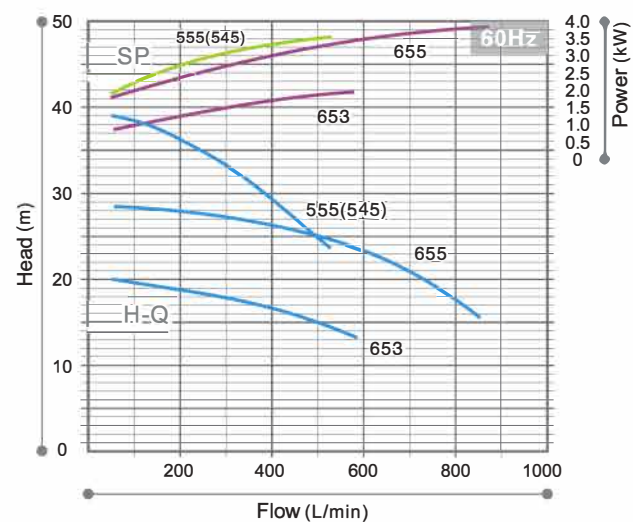
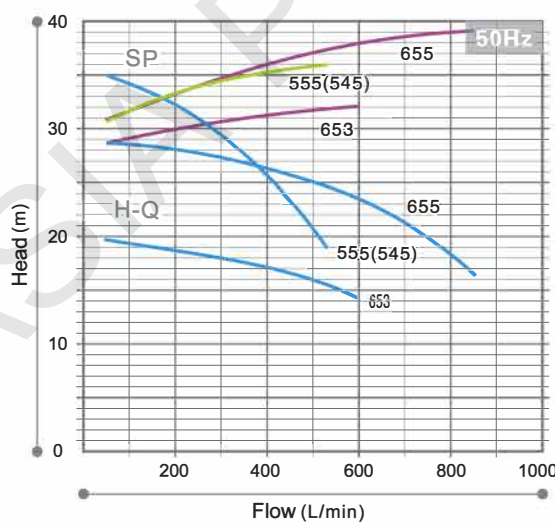
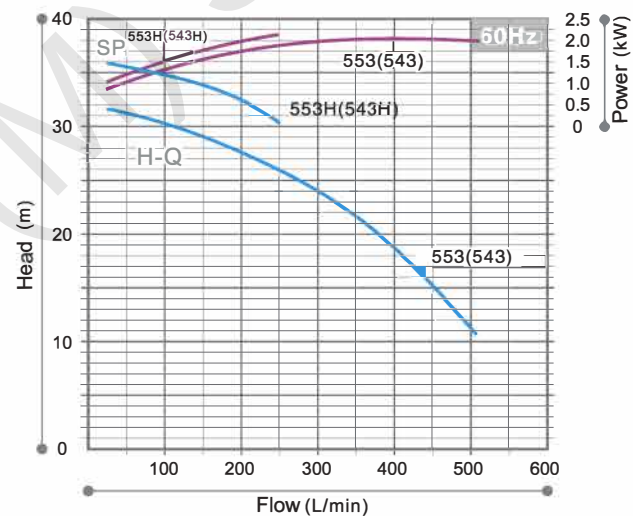
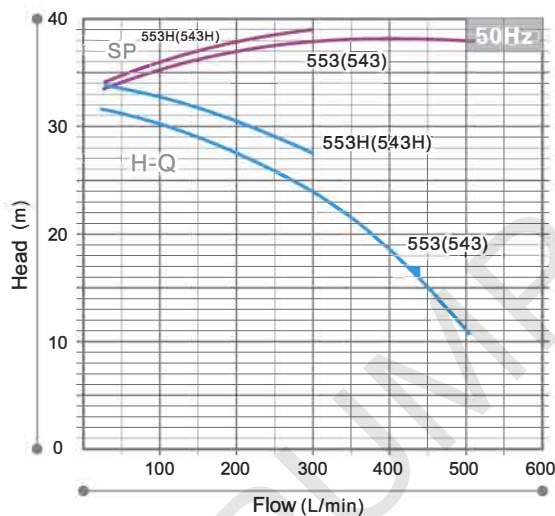
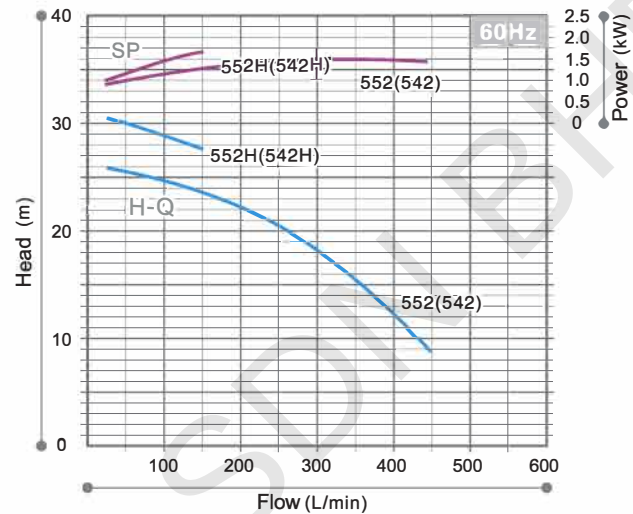
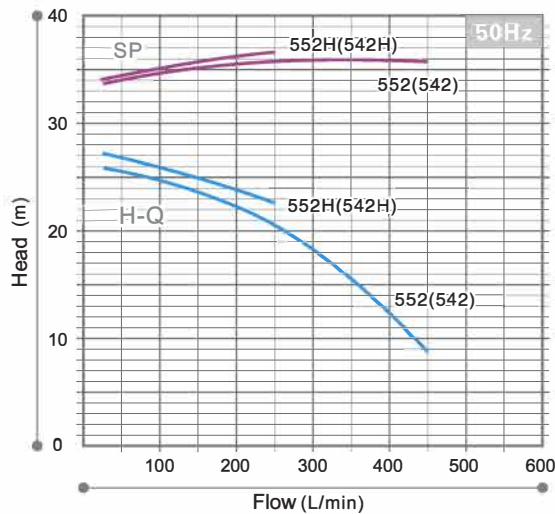
### PERFORMANCE CURVES



# AMA SERIES

## High Head Magnetic Drive Pump

### PERFORMANCE CURVES

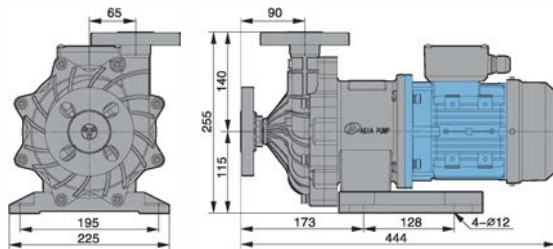


# AMA SERIES

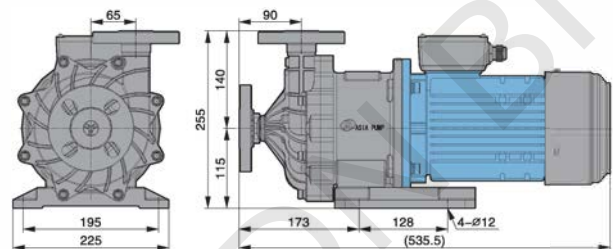
## High Head Magnetic Drive Pump

### DIMENSIONAL DRAWING, PART DRAWING

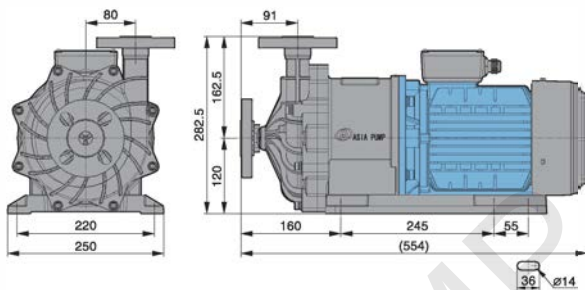
AMA-220



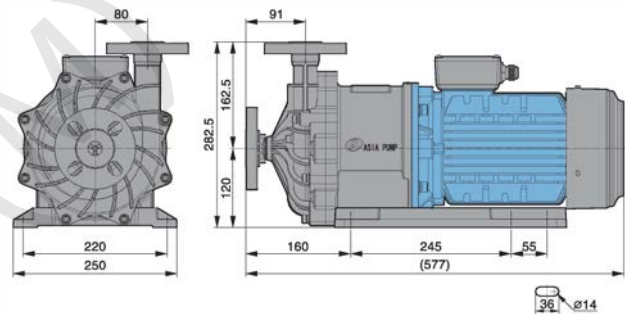
AMA-221



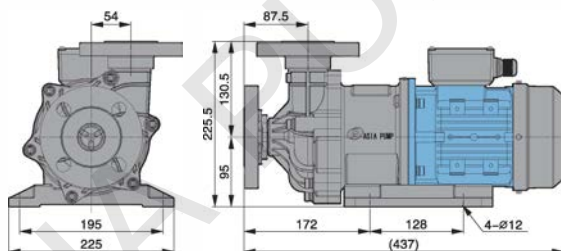
AMA-222



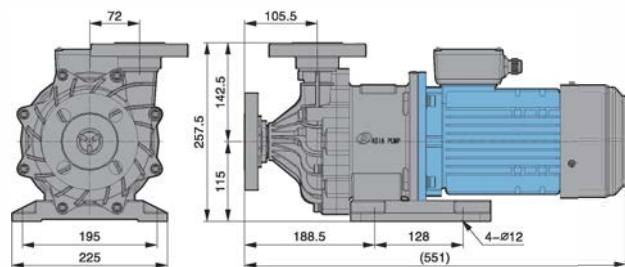
AMA-223



AMA-440



AMA-441



#### NOTICE:

The full length of the pump will be different, it depends on the motor brand or manufacturer and type.

Parameters and picture may change without duplicate notification.

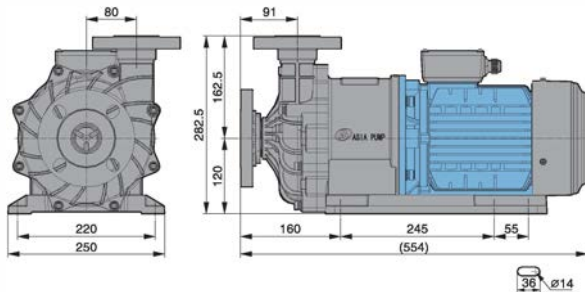
# AMA SERIES

## High Head Magnetic Drive Pump

### DIMENSIONAL DRAWING, PART DRAWING

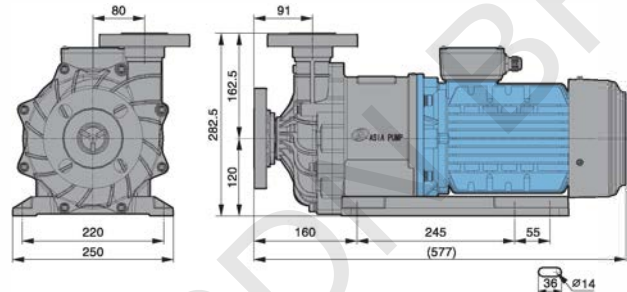
AMA-542  
AMA-552

AMA-542H  
AMA-552H



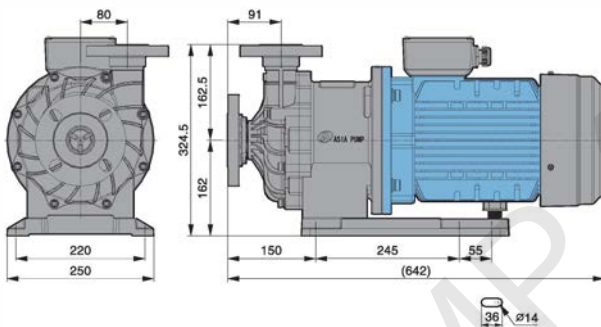
AMA-543  
AMA-553

AMA-543H  
AMA-553H

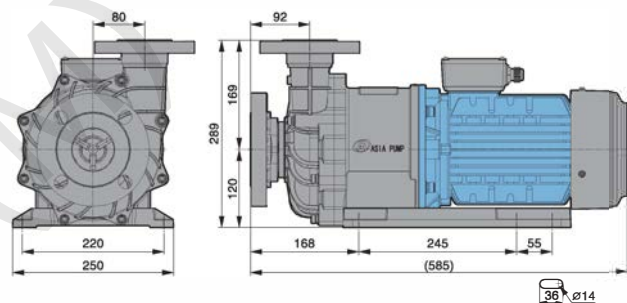


AMA-545

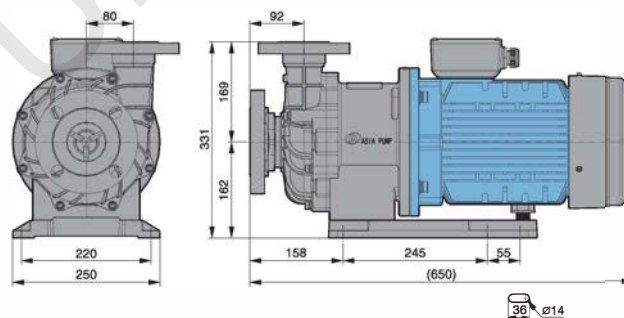
AMA-555



AMA-653



AMA-655



#### NOTICE:

The full length of the pump will be different, it depends on the motor brand or manufacturer and type.

Parameters and picture may change without duplicate notification.

**ASIA PUMP (M) SDN BHD (123884-X)**

No. 14 Jalan IKS Bukit Tengah,  
Taman IKS Bukit Tengah, 14000  
Bukit Mertajam, Penang Malaysia.  
Tel: +604-508 8848 H/P: +6012-955 8646  
Email: sales@asiapump.com.my  
Web: www.asiapump.com.my

**ASIA PUMP (SHENZHEN) CO., LIMITED**

1-1st Factory, Xitou Community Industrial  
Zone One Road, Songgang town, Bao'an District,  
Shenzhen, China.  
Tel: +86-755-237 16934 Fax: +86-755-23729910  
Email: huanya@asiapump123.com  
Web: www.asiapump123.com

**ASIA PUMP (HONGKONG) CO., LIMITED**

Room 1318-19, Hollywood Plaza,  
610 Nathan Road, Mongkok,  
Kowloon, Hong Kong.  
Tel: (852) 2710 8200 (EXT)83889  
Fax: (852) 2710 8266



Website QR Code

Distributor / Sales Agent