

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



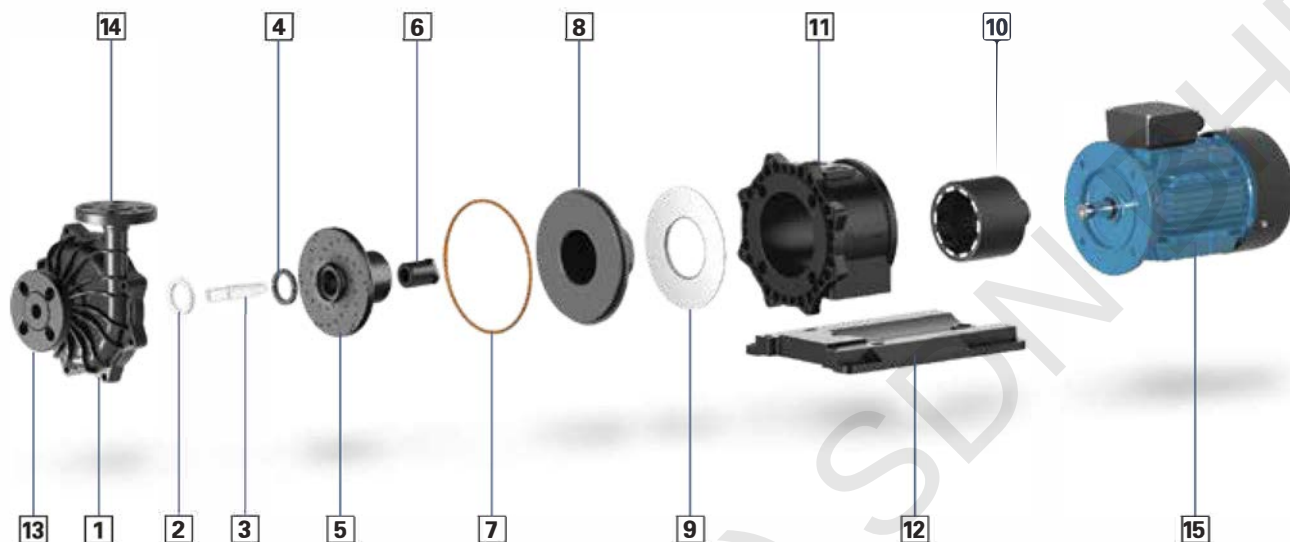
Patented product design

High head design
The head can reach more than 35 meters

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MATERIAL

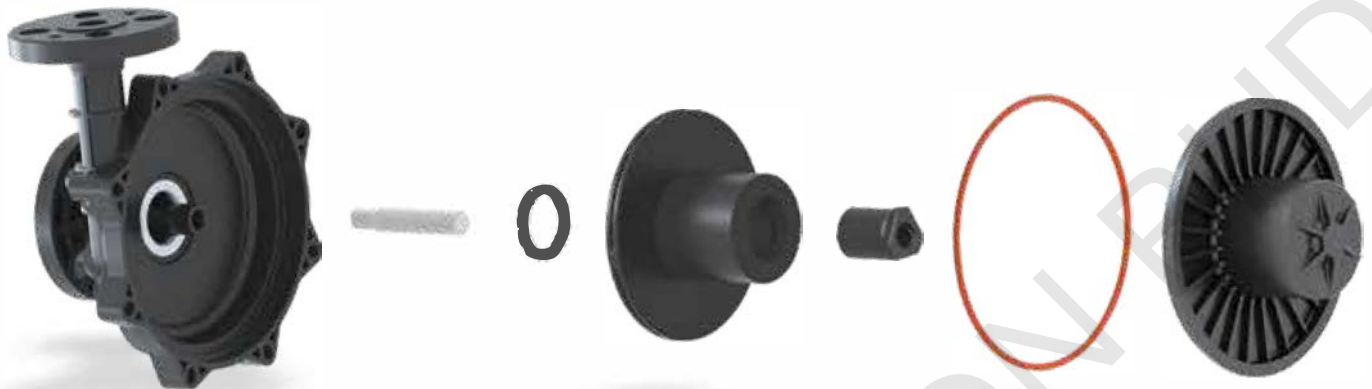


NO.	Description	ACE	ACV	ARE	ARV	AAE	AAV	SSE	SSV	
1	Pump casing	GFRPP/ CFRPP/ PVDF/ CFRETFE								
2	Front thrust ring	CERAMIC						SSIC		
3	Shaft	CERAMIC						SSIC		
4	Wear resistant ring	PTFE						SSIC		
5	Impeller unit	GFRPP/ CFRPP/ PVDF/ CFRETFE								
6	Bearing	CARBON		PTFE		CERAMIC		SSIC		
7	O-Ring	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.

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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



CERAMIC

SSIC

Shaft

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



CARBON

SSIC



PTFE

CERAMIC

Bearing

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



EPDM

VITON

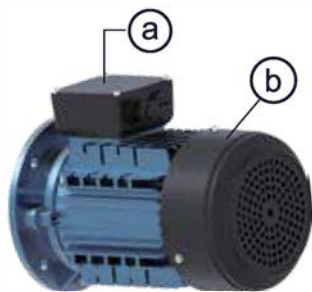
FFKM

O-Ring

3 types of high corrosion resistant material for selection.

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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.



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

SPECIFICATIONS

50/60HZ

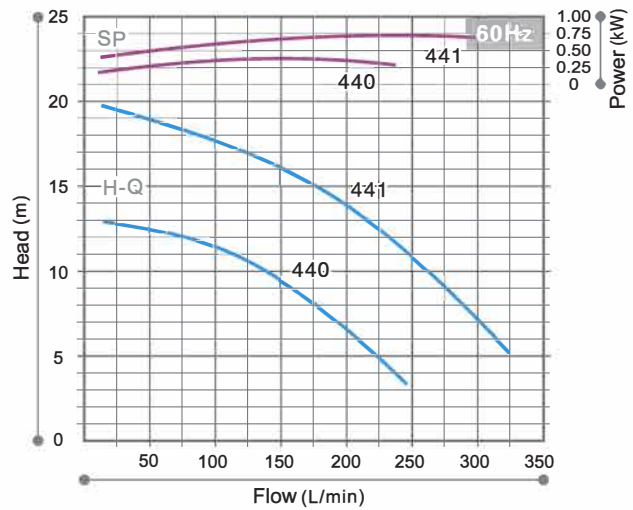
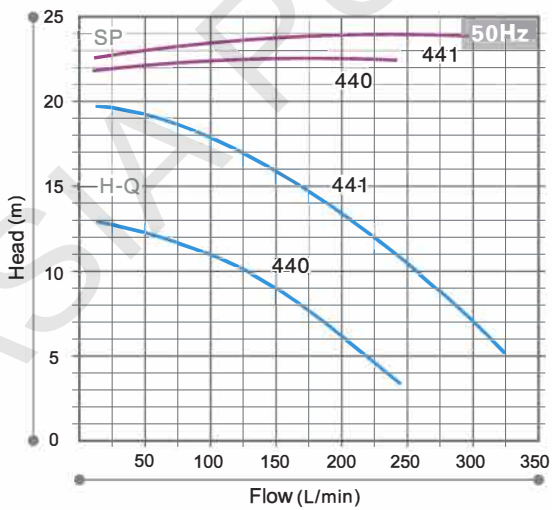
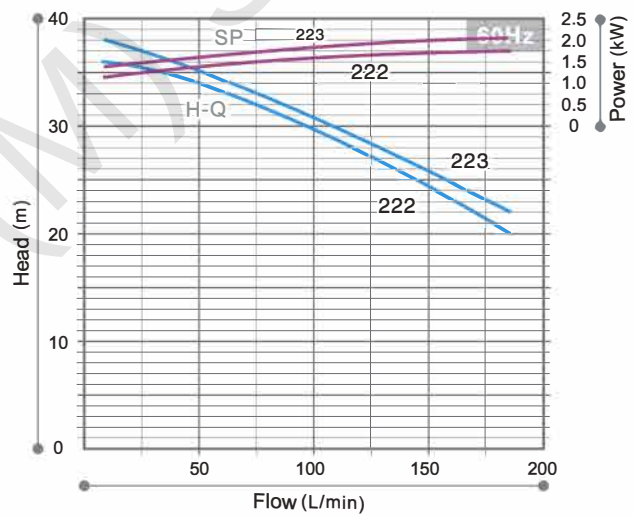
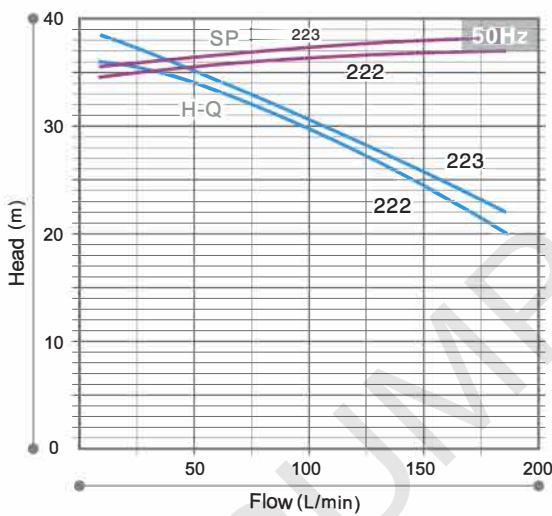
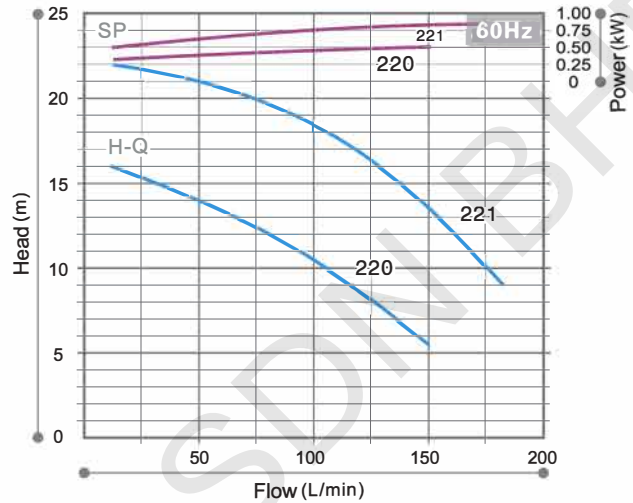
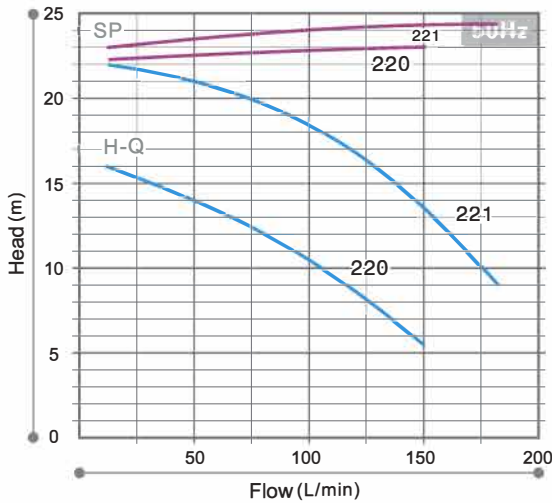
Model	Inlet x Outlet	Rated Capacity (L/min)	Rated Head (m)	Max. Capacity (L/min)	Max. Head (m)	Motor output (kW)
AMA-220	25×25	50	14	150	16	0.37
AMA-221	25×25	50	21	180	22	0.75
AMA-222	25×25	50	34	180	36	1.5
AMA-223	25×25	50	35	180	38	2.2
AMA-440	40×40	100	11/11.5	240	13	0.37
AMA-441	40×40	150	15.5	330	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℃.

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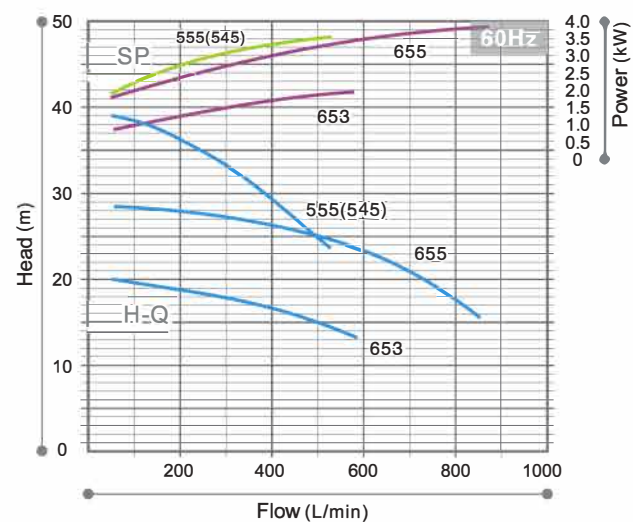
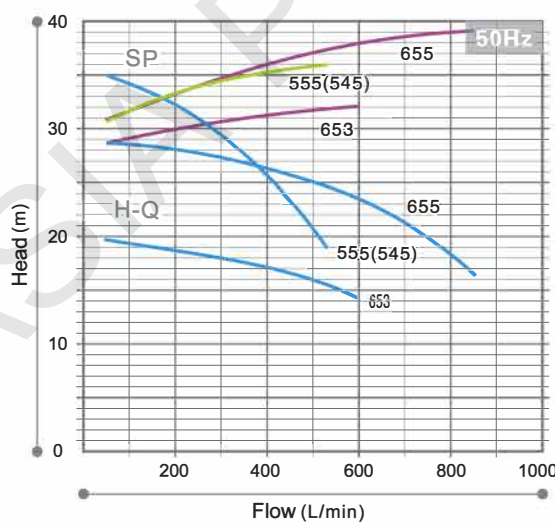
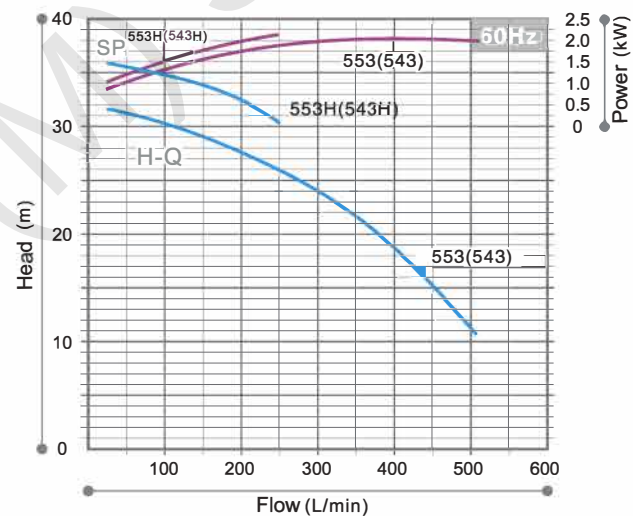
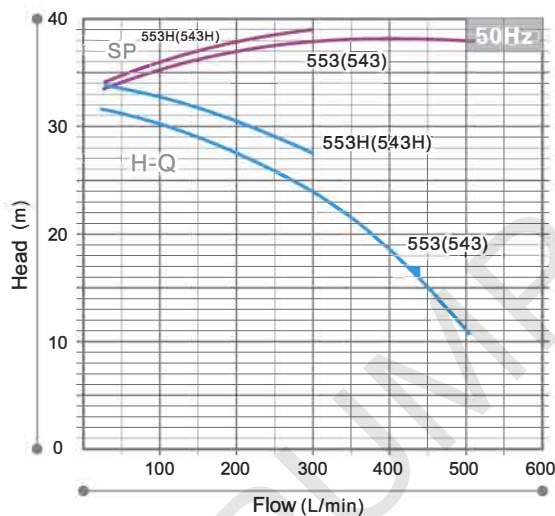
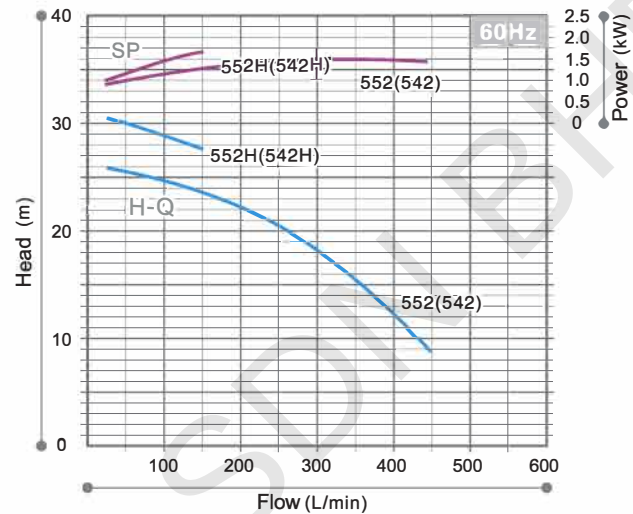
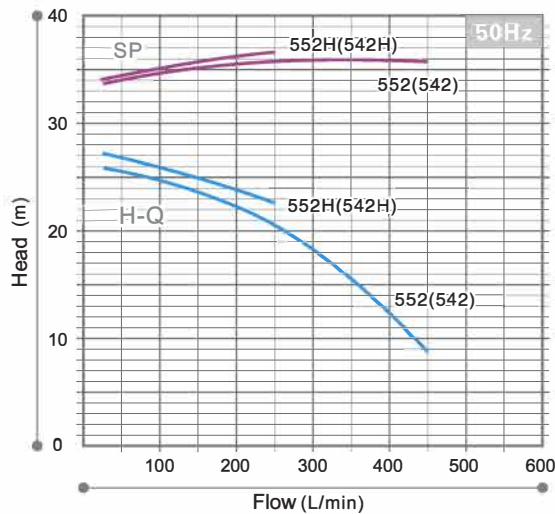
PERFORMANCE CURVES



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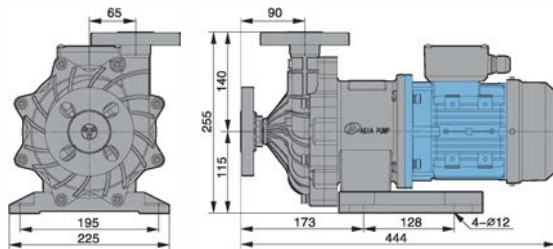


AMA SERIES

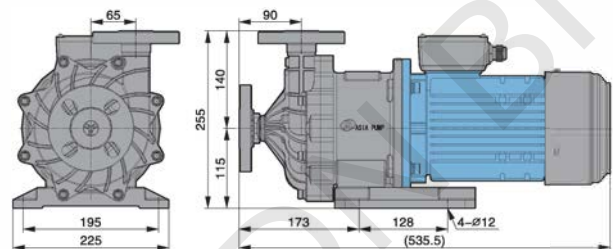
High Head Magnetic Drive Pump

DIMENSIONAL DRAWING, PART DRAWING

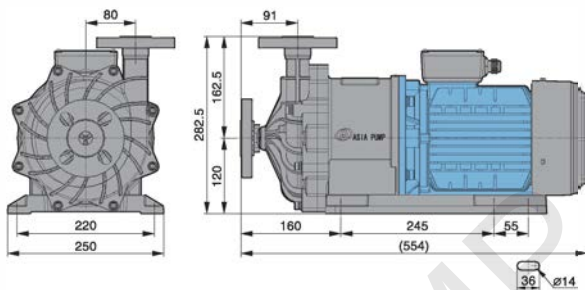
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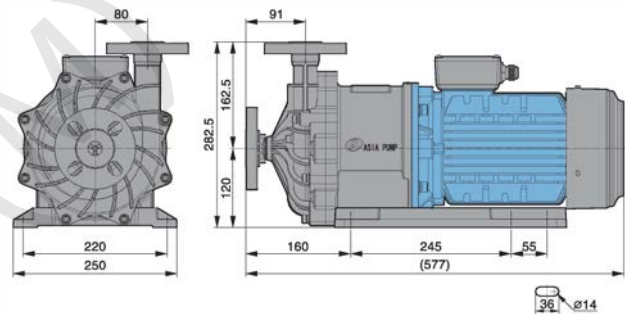
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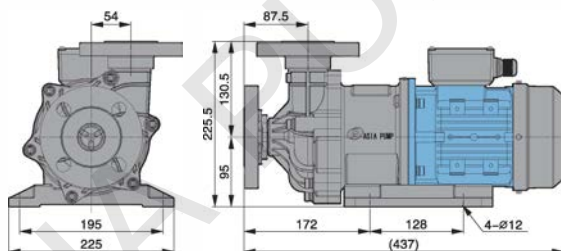
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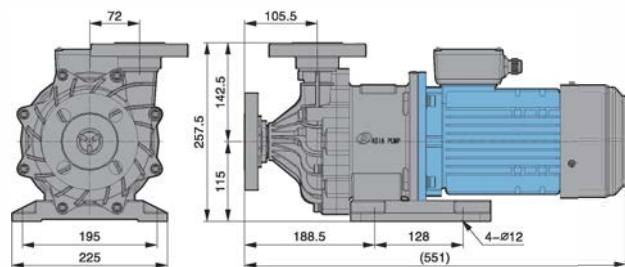
AMA-223



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.

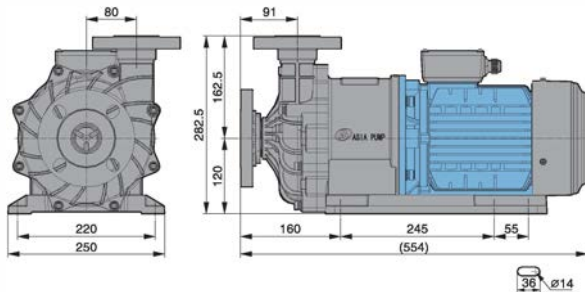
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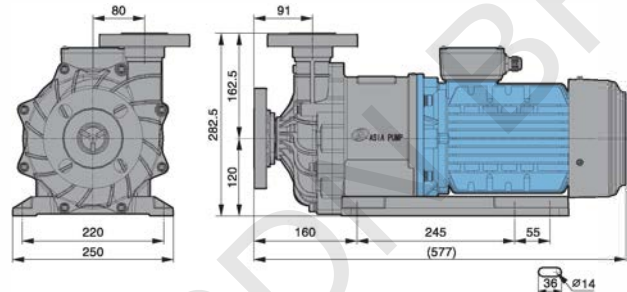
AMA-542
AMA-552

AMA-542H
AMA-552H



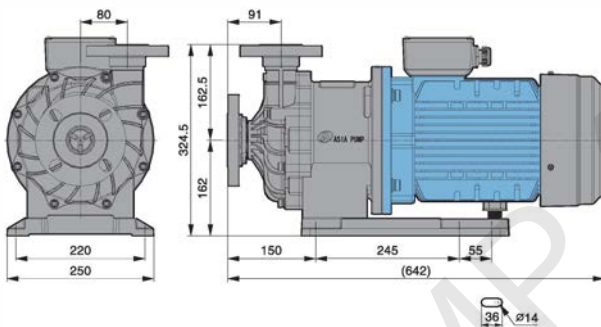
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AMA-553

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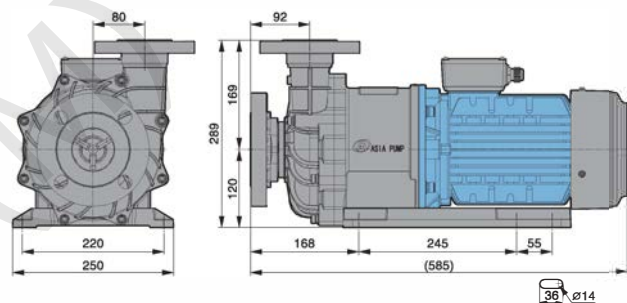


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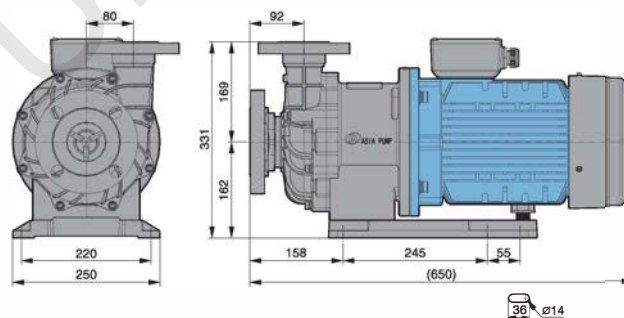
AMA-555



AMA-653



AMA-655



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