

● FDA80/40-6/1100mF

Fujika Drainage Aluminum submersible pump

● General :

- FDA Series is a compact and reliable range of submersible drainage pumps engineered for efficient transfer and removal of clean and slightly dirty water in domestic commercial and light-duty applications.
- The pumps combine a lightweight aluminum construction with a direct-coupled submersible motor and an efficient hydraulic design, providing stable performance, easy handling and dependable operation.
- Designed for installation in sumps, pits, tanks and drainage areas, the series provides a practical solution for both fixed and temporary water-transfer duties with minimum installation and maintenance requirements.

● Characteristics :

- Two-pole induction motor with Class F insulation and IPX8 protection.
- Single-phase models with capacitor and built-in thermal overload protection.
- Bottom suction arrangement with protective inlet strainer.
- Copper motor winding and high heat-resistant bearing arrangement.
- Suitable for water with pH 6.5–8 and low concentrations of fine suspended solids.

● Features :

- Compact and lightweight design for easy handling and installation.
- Automatic float switch for level-controlled operation on applicable models.
- Built-in thermal overload protection for single-phase versions.
- High heat-resistant bearings for dependable operation and extended service life.
- Reliable mechanical sealing arrangement suitable for submerged duty.
- Protective suction strainer helps prevent oversized debris from entering the pump.

● Performance table :

Model	Power		Max flow m ³ /h	Max head meters	Voltage	Outlet Inch
	KW	HP				
FDA80/40-6/1100mF	1.1	1.5	47	10	1x220V	3

● Applications :

- Clean-water lifting and transfer to roof or storage tanks.
- Drainage of rainwater and accumulated water.
- Construction-site and light-duty dewatering.
- Swimming-pool and general water transfer duties.
- Fountains, waterfalls and decorative water features.
- Irrigation and transfer of suitable river water.
- Transfer of mildly brackish water only where its composition is compatible with the pump materials.

● Product photo: -



● Ratings :

- Frequency: 50/60 Hz.
- Voltage: 220V single phase, 380V three phase (according to model)
- Liquid temperature: up to 40 °C.
- Ambient temperature: up to 40 °C.
- Maximum submergence depth: 5 m.
- Protection grade: IPX8; Insulation class: F.
- Maximum sand content: 0.1%; suspended solids passage up to 0.2 mm.

● Installation Arrangement Options :

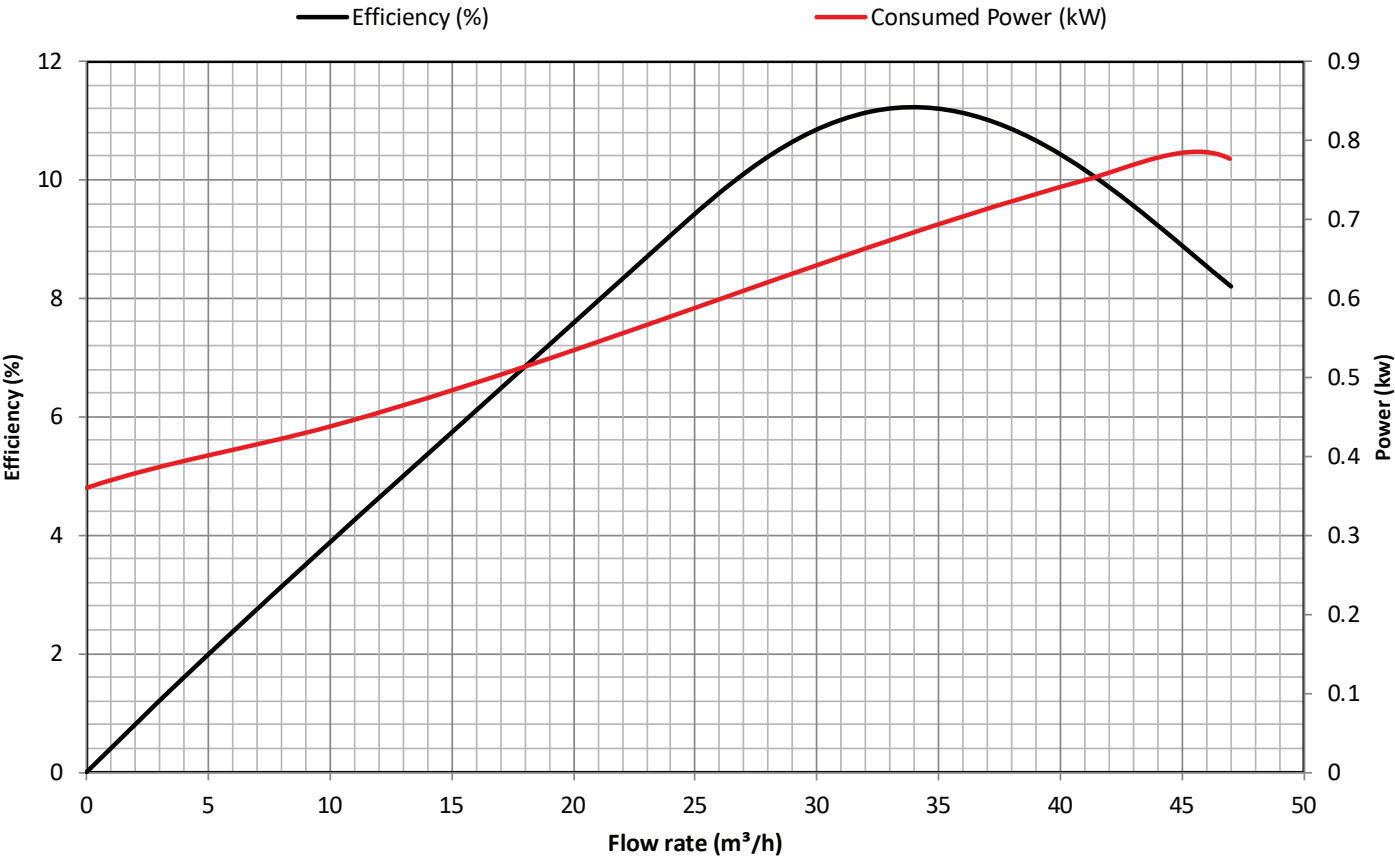
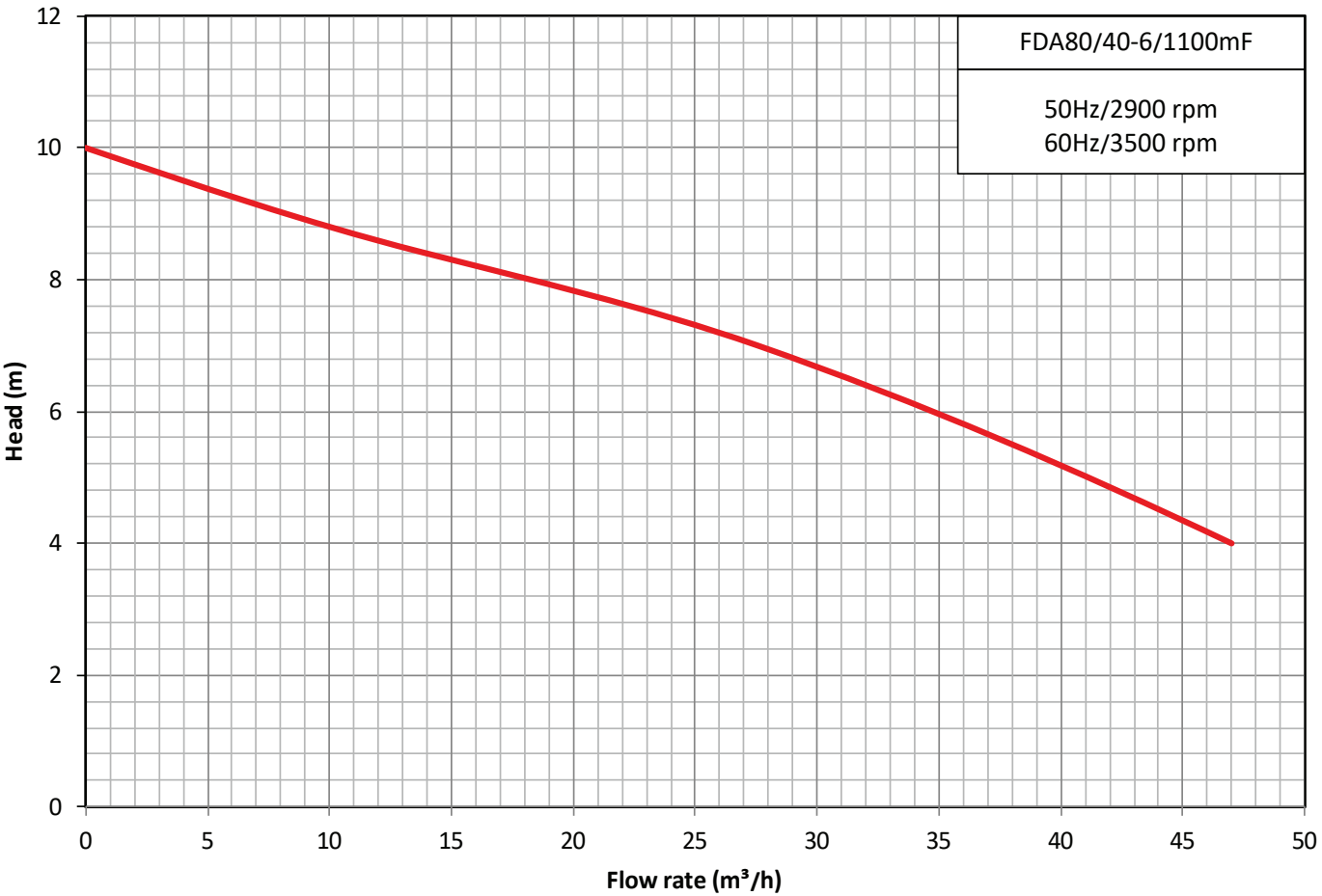
- Install vertically in a sump, pit or tank on a firm and stable base.
- Keep the suction strainer clear of sediment and surrounding obstructions.
- Allow sufficient clearance for unrestricted float switch movement where fitted.
- Do not exceed the specified immersion depth or lift the pump by its power cable.
- Provide secure discharge piping, proper grounding and suitable electrical protection.

● Model Name :

FDA80/40-6/1100mF

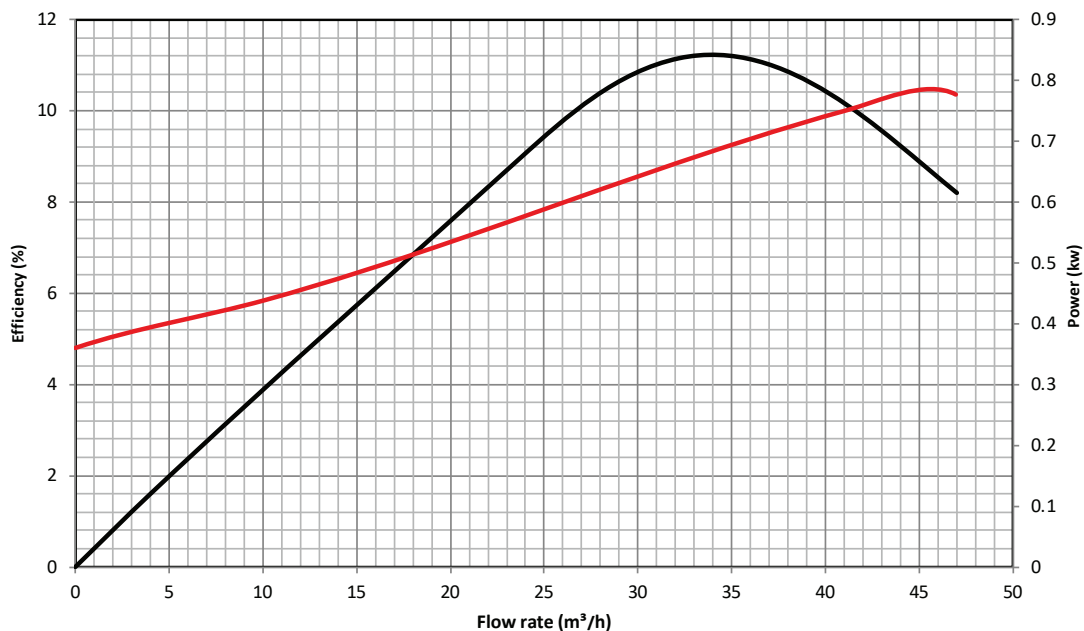
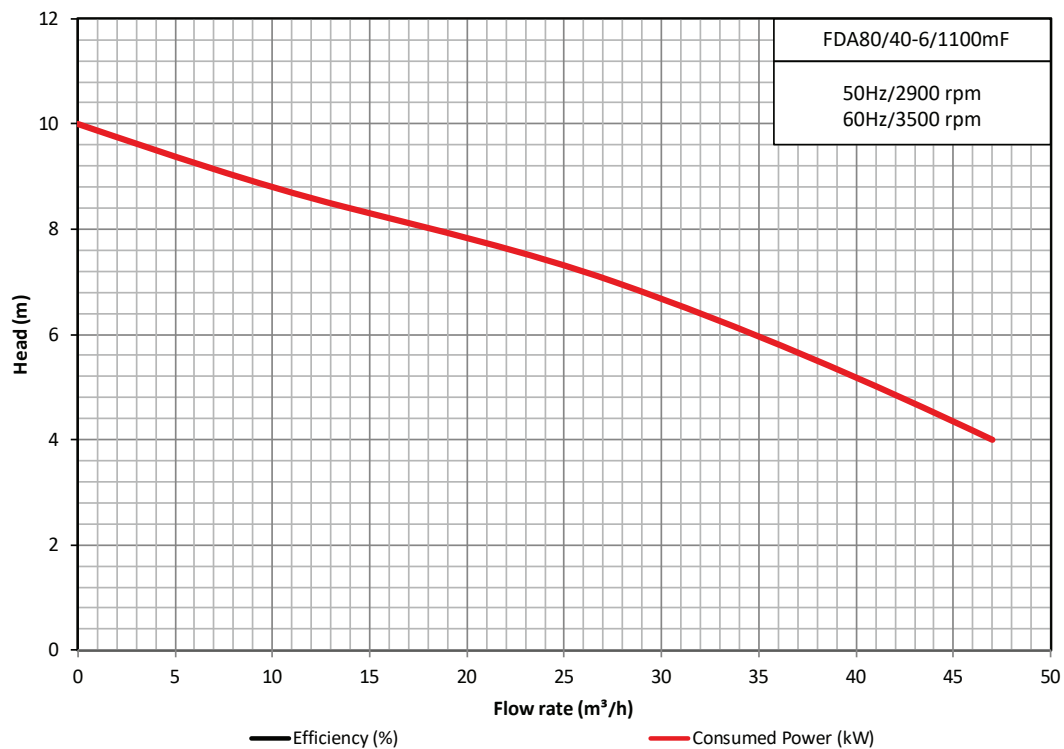
- FDA : FUJIKA Submersible Drainage Pump Series.
- 80 : Nominal discharge size.
- 40 : Flowrate range (m³/h)
- 6 : Head range (m)
- 1100 : Power (W).
- mF: Single-phase version with float switch.

Performance Curve

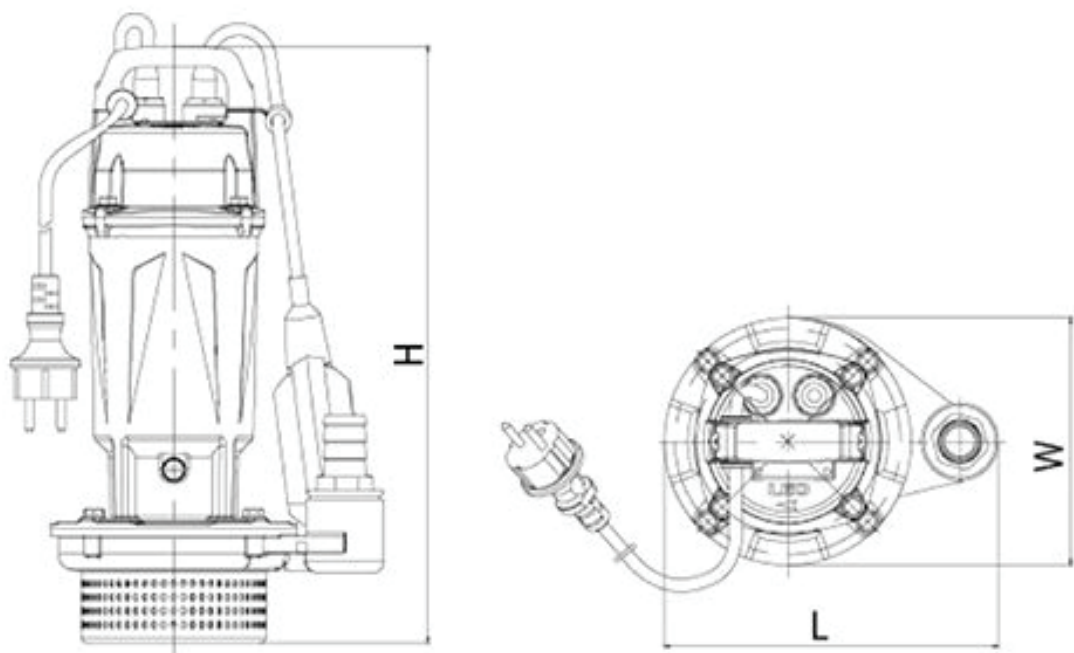


Test Report
FDA80/4-6/1100mF

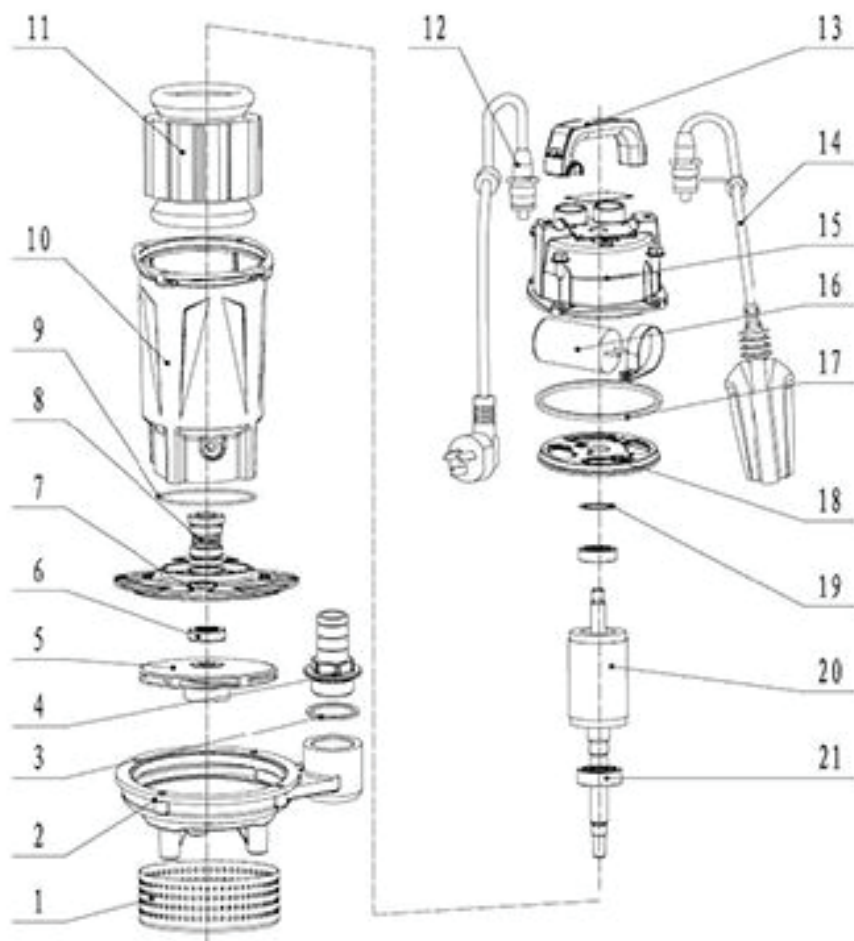
Measured Data						Performance Data				
No.	InletPre. (kPa)	OutletPre. (kPa)	Flow Rate (m³/h)	Rotate spe. (r/min)	Voltage (V)	Currency (A)	Motor Pow Input (kw)	Flow Rate (m³/h)	Head (m)	Pump pow. Output (kw)
1	0.00	403.00	0	3499.9	214.2	5.23	1.014	0	10	0.360
2	0.00	390.00	4	3476.4	214.0	5.62	1.107	4	9.5	0.401
3	0.00	383.00	8	3479.4	213.9	5.87	1.162	8	9	0.419
4	0.00	379.00	12	3470.4	214.1	6.12	1.219	12	8.5	0.443
5	0.00	364.00	16	3453.6	213.9	6.58	1.319	16	8	0.487
6	0.00	334.00	20	3434.4	213.8	7.10	1.436	20	8	0.539
7	0.00	304.00	24	3421.2	213.7	7.54	1.532	24	7.5	0.582
8	0.00	259.00	28	3403.8	213.6	8.01	1.637	28	7	0.631
9	0.00	210.00	32	3391.2	213.6	8.36	1.706	32	6.2	0.665
10	0.00	128.00	36	3377.4	213.5	8.70	1.780	36	5.8	0.703
11	0.00	110.00	40	3370.1	213.5	9.00	1.802	40	5	0.730
12	0.00	103.00	44	3298.0	213.4	9.37	1.802	44	4.5	0.780
13	0.00	98.00	47	3298.0	213.3	10.00	1.802	47	4	0.780



Dimentions



Model	Dimensions (mm)		
	H	L	W
FDA80/40-6/1100mF	475	265	138



No	Description
1	Filter
2	Bearing
3	O-Ring
4	Outlet connector
5	Impeller
6	Oil seal
7	Cover of cylinder
8	Mechanical seal
9	O-Ring
10	Motor casing
11	Stator
12	Cable assembly
13	Handle
14	Float switch
15	Top cover
16	Capacitor
17	O-Ring
18	End cover
19	wave spring pad
20	Rotor
21	Bearing

● FDA80/50-14/1500mF

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● Performance table :

Model	Power		Max flow m ³ /h	Max head meters	Voltage	Outlet Inch
	KW	HP				
FDA80/50-14/1500mF	1.5	2.0	53	15	1x220V	3

● Applications :

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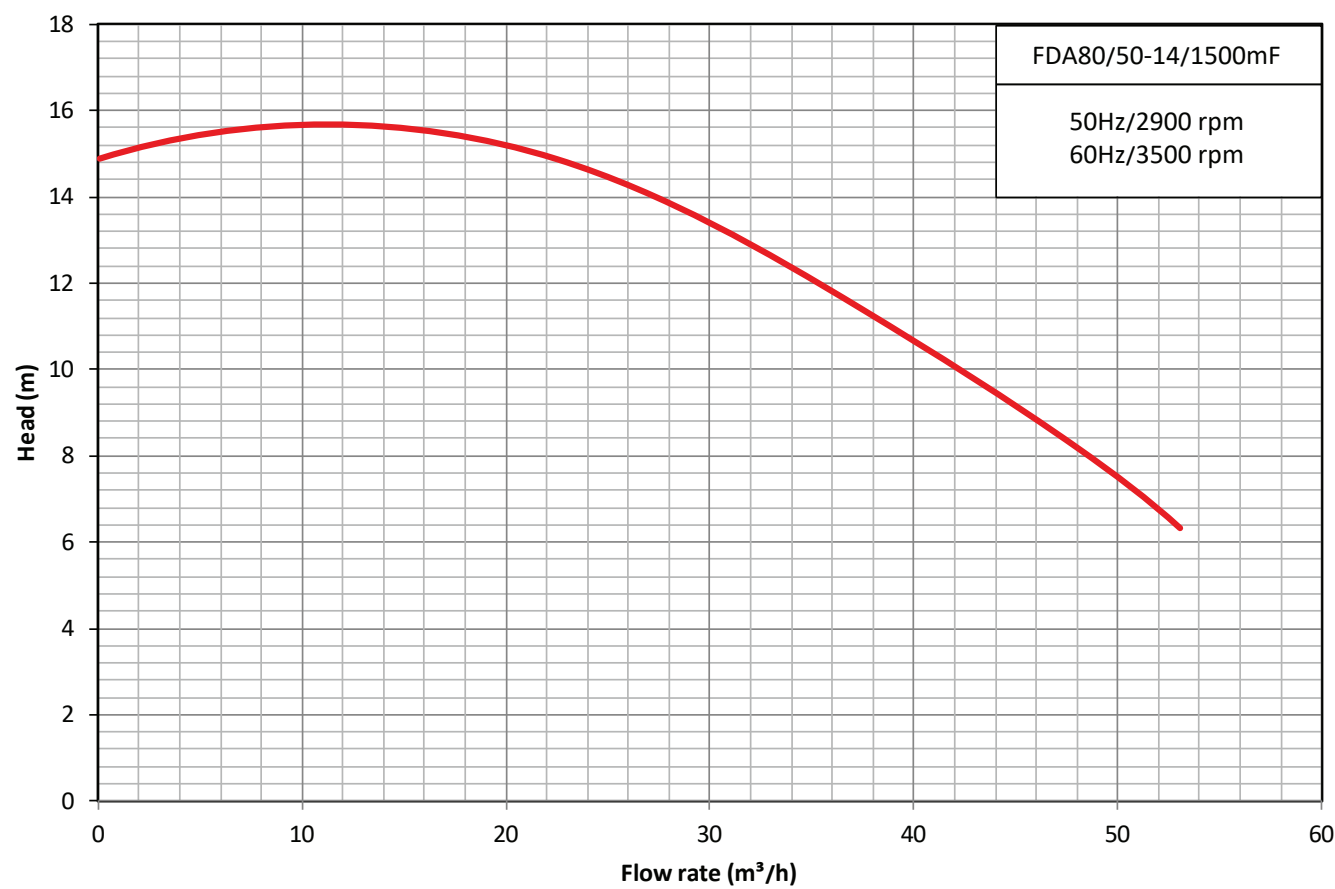
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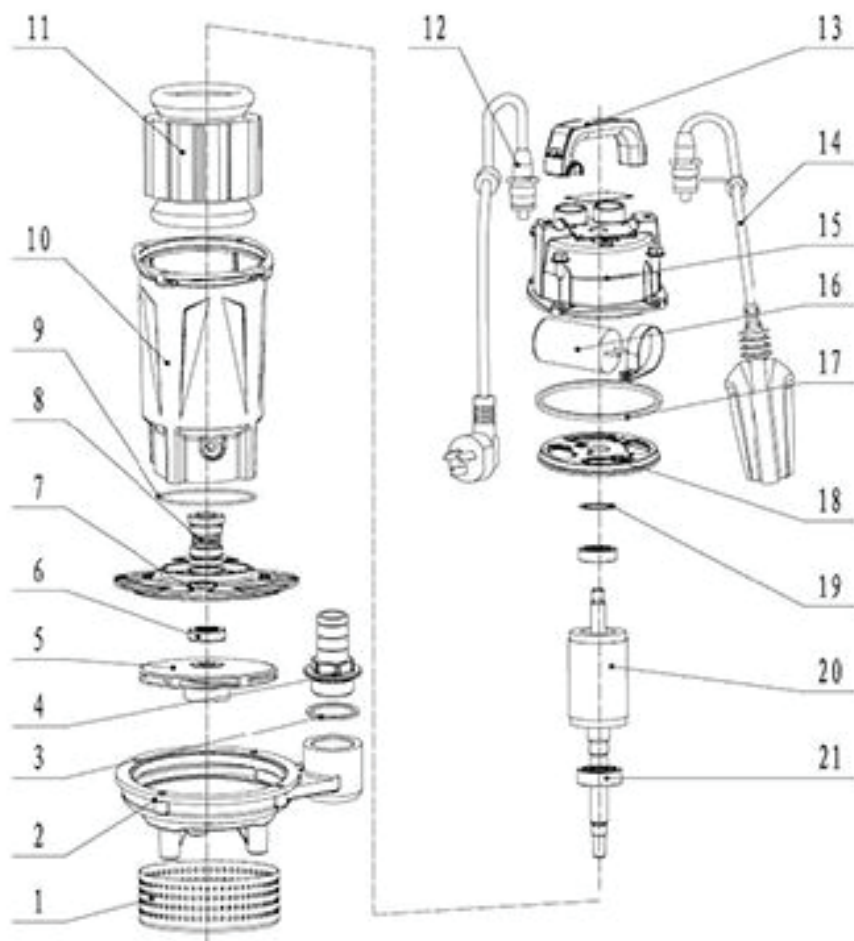
● Model Name :

FDA80/50-14/1500mF

- FDA : FUJIKA Submersible Drainage Pump Series.
- 80 : Nominal discharge size.
- 50 : Flowrate range (m³/h)
- 14 : Head range (m)
- 1500 : Power (W).
- mF: Single-phase version with float switch.

Performance Curve





No	Description
1	Filter
2	Bearing
3	O-Ring
4	Outlet connector
5	Impeller
6	Oil seal
7	Cover of cylinder
8	Mechanical seal
9	O-Ring
10	Motor casing
11	Stator
12	Cable assembly
13	Handle
14	Float switch
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