

Stainless Steel Drainage Pumps

KP/AP

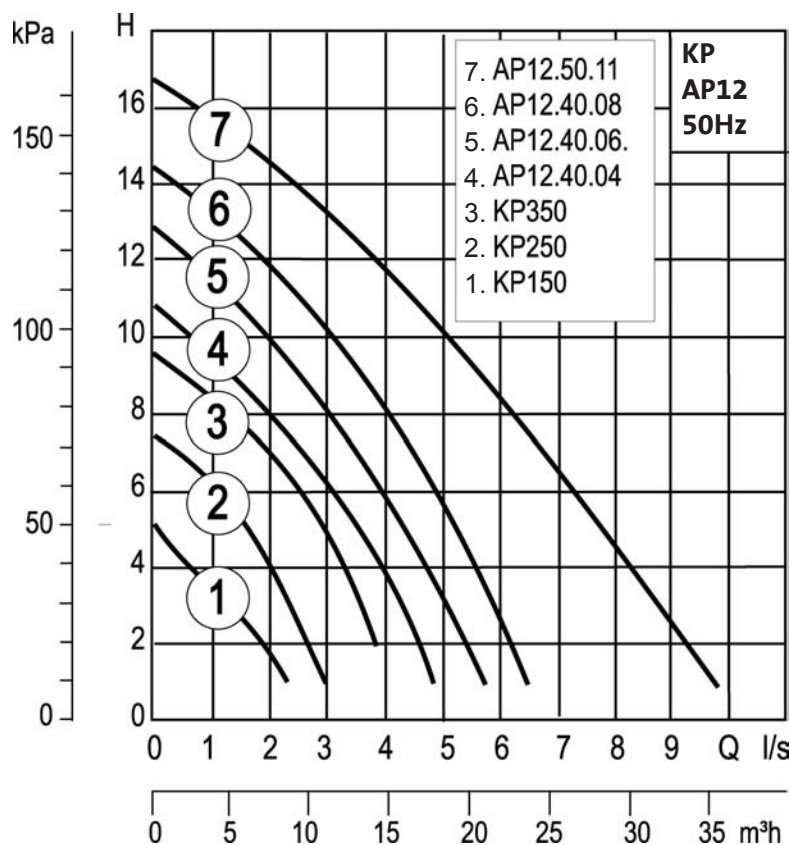
Grundfos KP/AP portable drainage pumps are designed for the removal of (grey) waste water from washing machines, baths, showers, basins, dewatering, emptying swimming pools, ponds, fountains, waterfalls and many other general transfer duties. Stainless steel is used extensively for vital pump components providing resistance to corrosion and abrasion, as well as sustained performance levels and long life. The wet rotor design enables the pump to withstand dry running for short periods whilst the open impeller construction with slinger and bevelled edge vanes helps prevent fibres and other debris from jamming the pump. On KP models a strainer at the base of the pump permits the passage of particles or solids in suspension up to 10mm in diameter, whilst AP models can handle solids up to 12mm diameter.



Features:

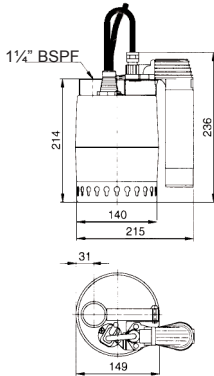
- High quality stainless steel materials
- Robust construction
- Automatic motor protection on single phase models
- Optional level switch on most models
- 110V KP250 models for site operation
- Pumps up to 10mm solids (KP) and 12mm solids (AP12)

Performance 50Hz

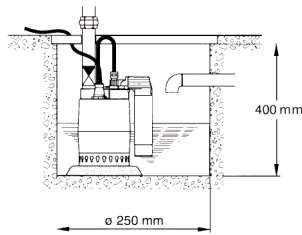


INSTALLATION/DIMENSIONS (mm) KP 150/250/350

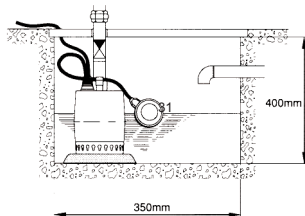
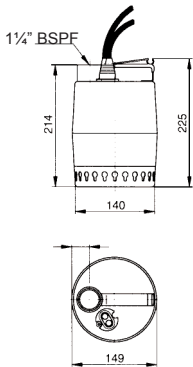
Vertical Float Switch
(Clean water only)



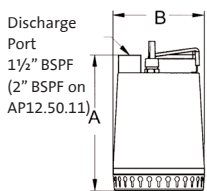
Minimum sump dimensions



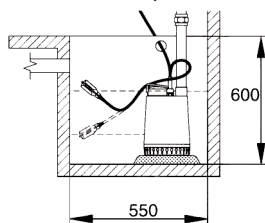
Automatic Float Switch



DIMENSIONS (mm) AP12



Minimum sump dimensions



Model	A	B	Minimum Sump Dimensions		
			Depth	Width	Length
AP12.40.04	321	216	600	550	550
AP12.40.06	321	216	600	550	550
AP12.40.08	321	216	600	550	550
AP12.50.11	357	241	600	550	550

OPERATING CONDITIONS

KP/AP12 models are suitable for continuously pumped liquid temperatures, partly or completely submerged, as follows:

KP150/KP250/350: 0°C to +50°C

KP250 110 Volt: 0°C to +40°C

All AP12 models: 0°C to +55°C

The maximum particle size for solids in suspension is 10mm for KP models, 12mm for AP12 models

Whilst the pump can operate for short periods without water, dry running is not recommended.

Maximum submerged depths: 10 metres for all KP & AP12 models.

The pumps are not suitable for pumping sewage, flammable liquids, aggressive liquids, or liquids containing long fibres - for these applications the larger Grundfos APL Waste Water and Sewage pumps should be used.

MOTOR & MOTOR PROTECTION

The motor is a single or three phase cased squirrel cage induction type. The motor is cooled by the pumped liquid. The enclosure class is IP68, insulation class F.

Three phase pumps require external motor protection and must be connected to a contactor starter incorporating no voltage release, overload protection, and phase failure protection (single phase prevention). The overload unit should be set to the full load current shown on the pump data plate. All single phase models incorporate an automatic resetting thermal overload switch which protects the motor against overheating.

ACCESSORIES FOR KP MODELS

- Boxed hose kit, part number 99.11.00.20 comprising 10 metres 1 1/4" lay-flat hose, male x male nipple, screwed union fitting and hose clip.
- Rubber non-return flap valve. (00015220, Pk of 10 00015221)

LEVEL SWITCH

The level switch is connected directly to the pump on single phase models providing the automatic control option has been specified. On three phase models ordered with automatic control, the level switch is not connected into the pump and must be connected via the coil circuit of a contactor starter. Vertical side float is for clean water only. Start level is 180mm above pump base, stop level is 100mm.

CONSTRUCTION MATERIALS

Casing, strainer, discharge impeller, bearing plate, shaft Cable, 'O' Ring (KP) Level switch Bearings (AP)

Mechanical shaft seal (AP) Lip seal Rotor chamber fluid (KP) Barrier Fluid (AP) Carrying handle

Stainless steel grade 304 S15
Neoprene rubber
Polypropylene
Deep groove ball bearings greased for life
Silicon carbide/Silicon carbide
NBR rubber
30% solution Propylene Glycol Oil, Cassida Fluid 68
Noryl 731-701 (KP)
Luranyl (AP)

ELECTRICAL DATA

Model	Voltage 50Hz	Full Load Current (A)	Starting Current (A)	Input Power P1	Weight. Net Kg
KP150-A-1& AV-1	230-240V1Ph	1.3	2.6	300	5.7
KP150-M-1	230-240V 1Ph	1.3	2.6	300	5.7
KP250-A-1 & AV-1	230-240V1Ph	2.2	4.7	480	6.5
KP250-M-1	230-240V 1Ph	2.2	4.7	480	6.7
KP250-A-1	110V 1Ph	5.3	11.3	480	7.2
KP350-A-1 & AV-1	230-240V1Ph	3.2	6.9	700	7.2
KP350-M-1	230-240V 1Ph	3.2	6.9	700	7.2
AP12.40.04.1	230V 1Ph	3.0	11.5	800	11.6
AP12.40.04.A1	230V 1Ph	3.0	11.5	800	11.8
AP12.40.04.3	400V 3Ph	1.2	6.0	800	10.2
AP12.40.04.A3	400V 3Ph	1.2	6.0	800	12.5
AP12.40.06.1	230V 1Ph	4.4	16.5	1000	11.6
AP12.40.06.A1	230V 1Ph	4.4	16.5	1000	11.8
AP12.40.06.3	400V 3Ph	1.6	7.7	1000	10.7
AP12.40.06.A3	400V 3Ph	1.6	7.7	1000	13.0
AP12.40.08.1	230V 1Ph	5.9	22.3	1300	13.2
AP12.40.08.A1	230V 1Ph	5.9	22.3	1300	13.4
AP12.40.08.3	400V 3Ph	2.1	10.3	1200	12.0
AP12.40.08.A3	400V 3Ph	2.1	10.3	1200	14.3
AP12.50.11.1	230V 1Ph	8.5	32.0	1900	15.7
AP12.50.11.A1	230V 1Ph	8.5	32.0	1900	15.9
AP12.50.11.3	400V 3Ph	3.2	14.7	1900	15.6
AP12.50.11.A3	400V 3Ph	3.2	14.7	1900	17.9

Models designated with an 'A' are pump types supplied with an integral or separate float switch. Models designated with a 'V' have a vertical side float. Models designated with an 'M' have no float switch and are for manual operation.

GB/KP/02/03