



Data Sheet

Magnetically coupled pumps

RS stock numbers 266-597, 266-979

General description

The **RS** magnetically coupled pumps are centrifugal types of fully encapsulated construction. The pumps are rated for continuous duty and are ideally suited for recirculation applications. The units can be used with mild acids or alkalis, since the only components in contact with the pumped fluid are plastic and ceramic with a viton O-ring. (See 'Chemical compatibility'.)

Motor specification

RS stock no. 266-597

Supply voltage _____ Single phase 240Vac 50/60Hz
 Input power _____ 84W
 Output power _____ 18W
 Maximum current _____ 0.7A
 Maximum flow rate _____ 35 l/min

RS stock no. 266-979

Supply voltage _____ Single phase 240Vac 50/60Hz
 Input power _____ 51W
 Output power _____ 10W
 Maximum current _____ 0.5A

Installation

The pump can be connected to pipework using suitable fittings such as jubilee clips. The pump mounting plates have several fixing options (Figure 1). Flexible hoses with internal diameters of 22mm (**RS** stock no. 266-597) or 13mm (**RS** stock no. 266-979) may be used (avoid overtightening as this may cause damage to the ports). The pump and pipework should be adequately supported and correctly fitted to avoid shock loading and strain on the pump and its ports. The pump should not be mounted vertically with the ports below the motor.

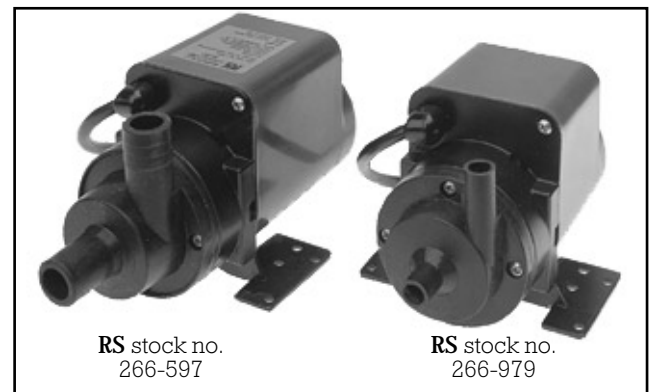


Figure 1 Dimensions

Dimensions	RS stock numbers	
	266-597	266-979
A	191	150
B	22	13
C	46	27.5
D	59	50
E	15	18.6
F	76	54.5

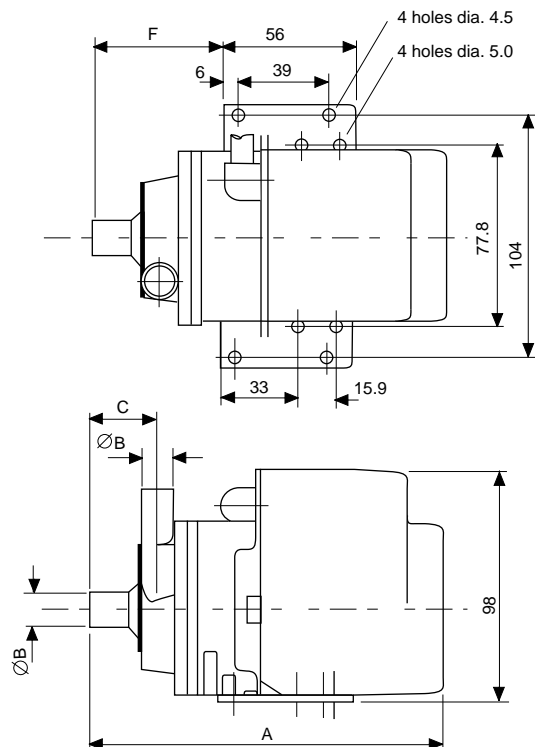
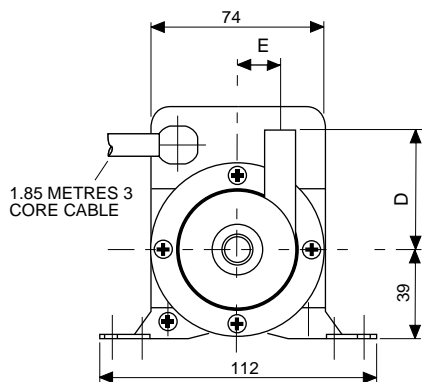
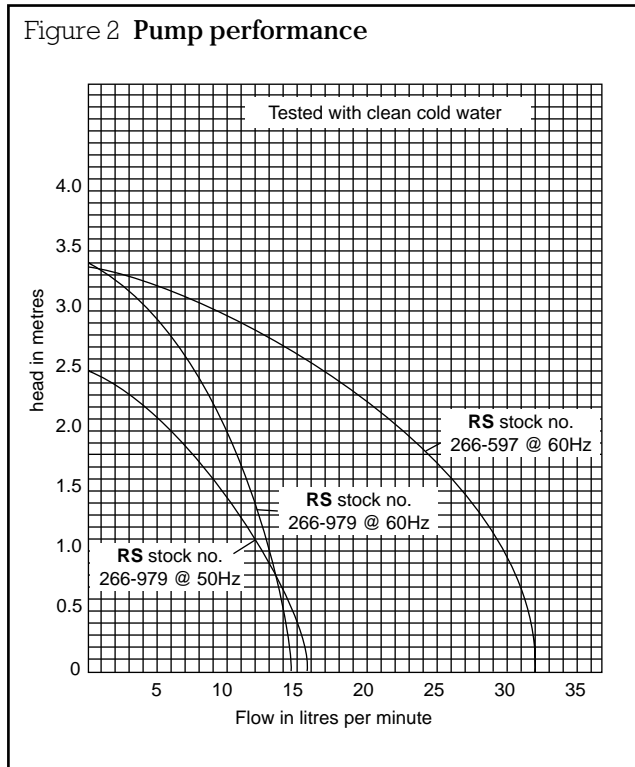


Figure 2 Pump performance



Operation and maintenance

The pump should have flooded suction since it does not self prime. Filters or restrictions should not be situated before the pump inlet. When priming, operate the pump in short 10 second cycles to facilitate the cleaning of air. Ensure that there are no leaks or blockages in the associated pipework. The pump should not be operated against a closed valve for longer than 30 seconds. Where the pumped fluid causes coating or deposition, periodic cleaning of pump internals may be necessary. This can be achieved by flushing through with an appropriate cleaning agent. The pump casing should be adequately ventilated to avoid overheating the motor. The motor is protected by the magnetic coupling should the impeller stall.

Do not run pump dry.

Chemical compatibility list

Aluminium chloride (10%)
 Ammonium sulphate (50%)
 Aniline
 Antimony trichloride
 Arsenic acid
 Barium chloride
 Boric acid
 Calcium chloride
 Castor oil
 Chromic acid
 Citric acid
 Cod liver oil
 Copper sulphate
 Cresols
 Diesel oil
 Diethylene Glycol
 Ferric chloride
 Formaldehyde (40%)
 Freon - 113
 Furfural
 Glycerol
 Hexane
 Hydrochloric acid (10%)
 Hydrochloric acid (36%)
 Hydrogen peroxide (35%)
 Hydrogen sulphide gas
 Iso-propanol
 Lactic acid (90%)
 Linseed oil
 Lubricating oil
 Magnesium chloride
 Mercuric chloride
 Molasses
 Nickel chloride
 Oleic acid
 Olive oil
 Paraffin oil
 Petrol
 Potassium cyanide
 Potassium permanganate (25%)
 Potassium sulphate
 Rape seed oil
 Silicone fluids
 Silver nitrate
 Sodium carbonate (10%)
 Sodium chloride (25%)
 Sodium cyanide
 Sodium nitrate
 Stannic chloride
 Sulphur dioxide
 Tetrachloroethane
 Tricesyl phosphate
 Water (distilled)
 Water (sea)
 White spirit
 Wine
 Zinc chloride (aq sol)

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