



Data Sheet

Magnetically coupled pump – 160l/min

RS stock number 445-992

General description

The Totton magnetically coupled pump is rated for continuous duty and is ideally suited for water or chemical transfer and re-circulation applications.

Features

- Magnetically coupling offers leak free pumping
- Trouble free pumping of acids and alkalis up to 1.2 specific gravity
- No mechanical seal
- Reduced heat transfer from motor to fluid
- Wetted parts are Polypropylene / PPS pump chamber, Polypropylene impeller, Alumina Ceramic shaft and thrust washers, Fluoroelastomer static rubber O-ring seal and Graphlon impeller bearings
- Not self priming, requires a flooded suction of approx. 500mm

Technical specification

Fluid temperature range	-20°C to +85°C
Max. flow rate	160L/min
Min flow rate	15L/Min
Max. body pressure	1.7 bar
Max. Head	8.8 metres
Inlet port	1 1/4in BSP
Outlet port	3/4 BSP
Weight	5.6kg
Dimensions	L. 340mm, H. 165mm, W. 120mm

Motor specification

Voltage	230V 50Hz - IP55 - 0.25Kw
Input power	400W
Output power	250W

Installation

The pump can be connected to pipework using suitable BSP fittings. Flexible hoses 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

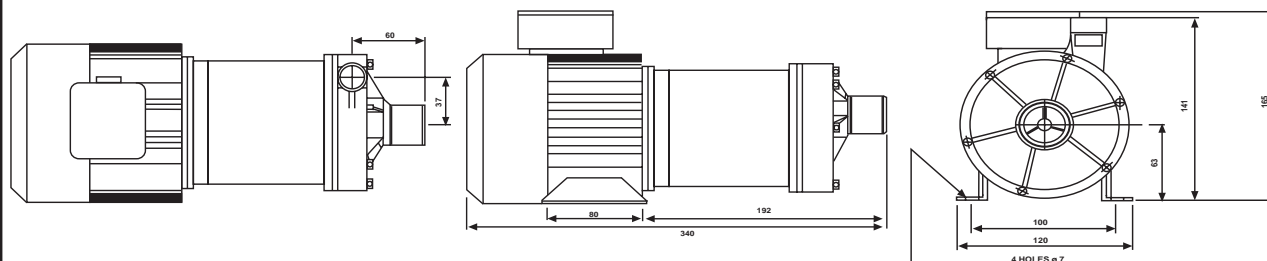
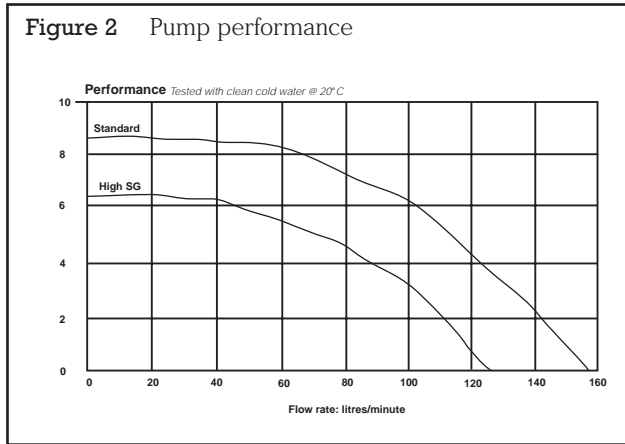


Figure 2 Pump performance



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 clearing 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 (10%)
 Citric acid
 Cod liver oil
 Copper sulphate
 Cresols
 Diethylene Glycol
 Ferric chloride (1.2SG)
 Freon - 113
 Glycerol
 Hydrochloric acid (10%)
 Hydrochloric acid (36%)
 Hydrogen peroxide (35%)
 Iso-propanol
 Lactic acid (90%)
 Linseed oil
 Lubricating oil
 Magnesium chloride
 Mercuric chloride
 Molasses
 Nickel chloride
 Olive oil
 Paraffin oil
 Potassium cyanide
 Potassium permanganate (25%)
 Potassium sulphate
 Rapeseed oil
 Silicone fluids
 Silver nitrate
 Sodium carbonate (10%)
 Sodium chloride (25%)
 Sodium cyanide
 Stannic chloride
 Tetrachloroethane
 Water (distilled)
 Water (sea)
 White spirit
 Wine
 Zinc chloride (aq sol)