



VERSA[®] PUMP

LARGE CAPACITY PUMP

HORIZONTAL CENTRIFUGAL MIXED FLOW PUMP





Applications

- Emergency flood control
- De-watering and storm water transfer
- Irrigation and drainage
- Circulation in cooling towers

Features

- Single stage centrifugal pump
- Back-pull-out design
- High efficiency mixed-flow type impeller
- Electric motor or engine driven

Benefits

- Huge volumes of water using very little power
- Very low generated head
- High efficiency hydraulics
- Simple reliable design
- Good suction lift capability



Design

Single stage centrifugal pump with end-suction and either top or side discharge, for horizontal installation.

The back-pull-out construction allows the pump to be disassembled without disturbing the suction and discharge pipework.

Impellers are of high hydraulic efficiency mixed flow design. Heavy duty bearings support a generously sized shaft, for minimum deflection and reliable long term operation.

Operating data

Discharge flanges:	100 mm to 700 mm
Flange standard:	BS 4504 PN6
Optional flanges:	Customer's choice
Flowrate:	Up to 5000 M3/Hr
Total head:	Up to 15 metres
Max working pressure:	2 bar standard
Maximum temperature:	80 deg C standard
Minimum temperature:	-20 deg C standard

Electric motor drive

The pump is usually supplied with a standard electric motor, complete with bedplate, coupling and guard. Motors are generally inverter driven, to obtain the exact operating speed required for the specified duty.

NEMA, Eex d, Ex(N), Energy Efficient (EFF1) and other special motors are available as options.

Diesel engine drive

A choice of air and water cooled diesel engines may be fitted, often through a gearbox to achieve the low pump running speeds.

Material choices

Casing

Cast iron	BS 1452 Grade 250
Ductile iron	BS 2789 Grade 420/12
Stainless steel	BS 970 Grade 316C15

Impeller

Cast iron	BS 1452 Grade 250
Gunmetal bronze	BS 1400 Grade LG4
Stainless steel	BS 970 Grade 316C15

Shaft

Stainless steel	BS 970 Grade 303
Stainless steel	BS 970 Grade 316

Shaft seal

Packed gland seal or single carbon vv ceramic mechanical seal with nitrile elastomers as standard. Pumps can be fitted with a wide variety of alternative mechanical seals to suit the application.