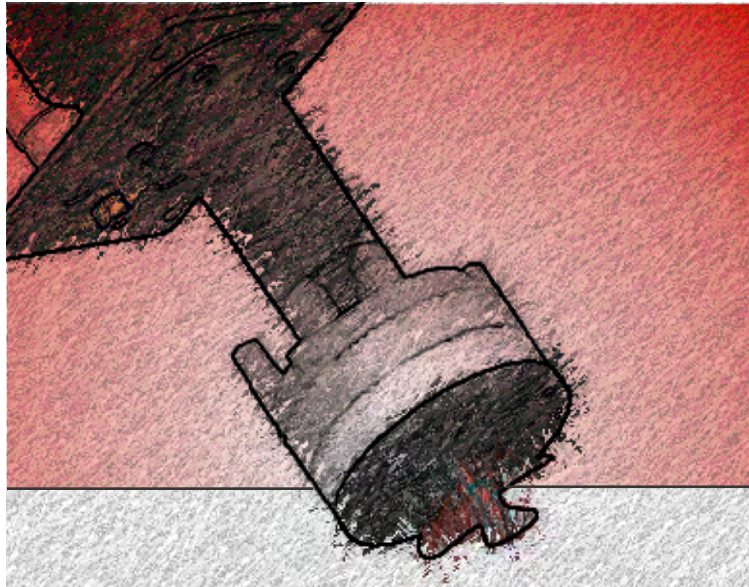


# Vertical Spindle Pumps

For Use In Original Equipment

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March May manufactures a largest range of small vertical spindle pumps for OEM applications in the beverage dispense industry, fume scrubbing, graphics and scientific markets.

They are used to pump both water and chemicals from temperatures ranging between -30°C and + 120°C.

**Reliable and Long Lasting**

March May vertical spindle pumps are constructed from the highest quality materials using well proven designs.

**Efficient and Quiet**

Based on long experience their designs have been refined to minimise frictional loss to produce efficient and quiet pumps.

**Mounting Plates**

March May vertical spindle pumps can be fitted to a very wide range of mounting plates.

**Ex-Stock**

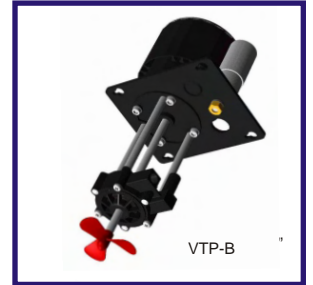
Virtually all March May vertical pumps are stocked in the UK.

**Design Flexibility**

As March May also designs and manufactures pumps we possess the ability to modify and redesign our pumps to suit specific and unusual applications.

**Refurbishment Friendly**

March May vertical spindle pumps are designed and constructed to make them easy to refurbish.



**VSP**  
VSP multi-stage centrifugal pumps are designed to minimise noise and heat transfer into the liquid. They can be manufactured from a range of materials and with different configurations.

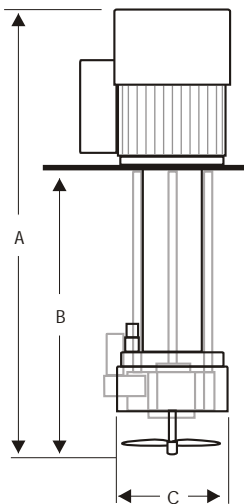
**VTP**  
The **VTP** is a unique semi-submersible high head / low flow regenerative turbine pump, specifically designed to reduce power consumption and heat transfer.

**VSR**  
The VSR is a vertical spindle magnetic drive version of the VTP.



# DIMENSIONS

Dimensions in mm not to scale specifications are subject to change



| Model   |          | A<br>mm | B<br>mm | C<br>mm | Motor<br>Kw | Volts | amps |
|---------|----------|---------|---------|---------|-------------|-------|------|
| VSP-1   | 50hz     | 115     | 140     | 100     | 0.03        | 230   | 0.42 |
| VSP-1sp | 50hz     | 85      | 140     | 100     | 0.07        | 230   | 0.40 |
| VSP-2   | 50hz     | 133     | 190     | 100     | 0.07        | 230   | 0.70 |
| VSP-3   | 50hz     | 142     | 190     | 100     | 0.09        | 230   | 0.92 |
| VSP-4   | 50hz     | 142     | 190     | 100     | 0.09        | 230   | 0.92 |
| VTP-A   | 50hz     | 85      | 140     | 80      | 0.07        | 230   | 0.40 |
| VTP-B   | 50hz     | 115     | 190/140 | 80      | 0.03        | 230   | 0.42 |
| VTP-C   | 50hz     | 124     | 190/140 | 80      | 0.04        | 230   | 0.50 |
| VSP-1   | 60 hz UL | 120     | 140     | 100     | 0.04        | 110   | 0.60 |
| VTP-B   | 60 hz UL | 120     | 190/140 | 80      | 0.04        | 110   | 0.60 |
| VTP-C   | 60 hz UL | 120     | 190/140 | 80      | 0.04        | 110   | 0.60 |
| VSR-A   | 50hz     | 85      | 140     | 80      | 0.03        | 230   | 0.40 |
| VSR-B   | 50hz     | 115     | 190/140 | 80      | 0.03        | 230   | 0.42 |
| VSR-C   | 50hz     | 124     | 190/140 | 80      | 0.04        | 230   | 0.50 |

## MOTORS

TE pumps are fitted with IP55, 415 or 230 volt CE motors as standard. In addition the following types of motors are also available.

- 60hz UL/CSA.
- Dual frequency.
- Chemically resistant.



Extended VSP3 with chemically resistant motor

## TECHNICAL DETAILS

### Wetted Materials

#### VSP

Impeller: Glass Filled Polypropylene, Talc filled Polypropylene, Glass filled Ryton.  
 Pump Housing: Glass Filled Polypropylene, Talc filled Polypropylene, Glass filled Ryton.  
 Pump Seals: Nitrile, Viton, EPDM.  
 Motor shaft: 416 st/steel, 303 st/steel, 316 st/steel.

#### VTP

Turbine: PTFE filled Ryton.  
 Pump Housing: Glass filled Ryton.  
 Pump Seals: Nitrile, Viton, EPDM.

#### VSR

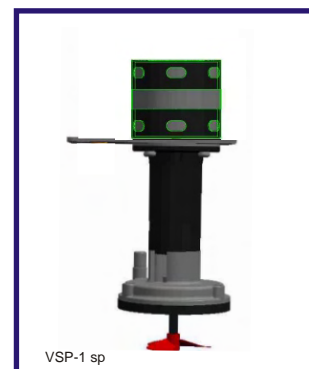
Turbine: PTFE filled Ryton.  
 Pump Housing: Glass filled Ryton.  
 Pump Seals: Nitrile, Viton, EPDM.  
 Drive Magnet: Strontium ferrite,  
 Impeller Magnet: Strontium ferrite, Ryton



Extended VSP3

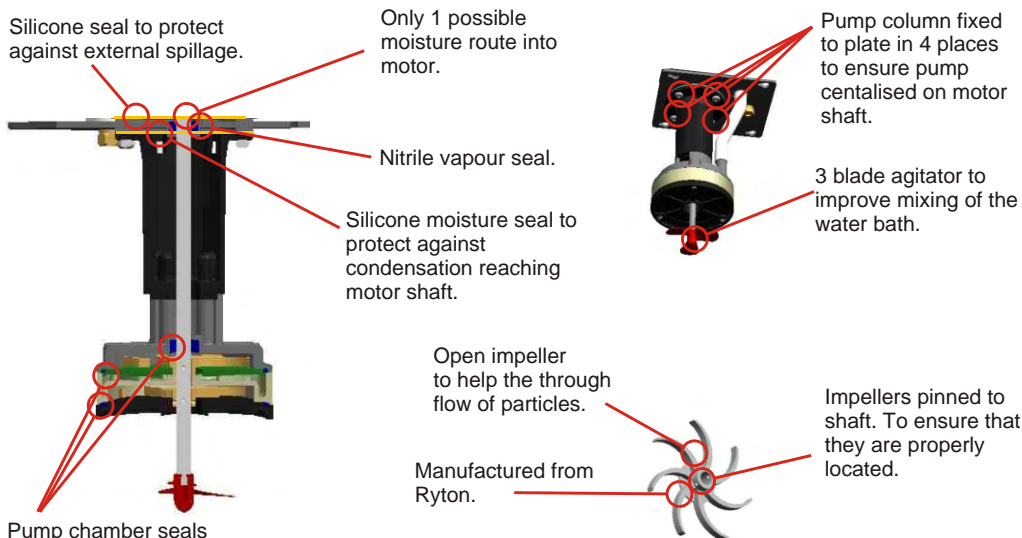


VSP-1 with Rotomatika motor



VSP-1 sp

### VSP CONSTRUCTION DETAILS

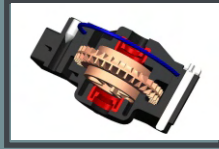


## VTP ENERGY SAVINGS

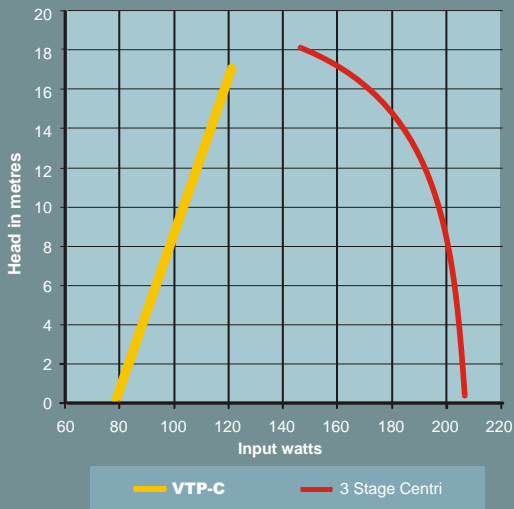
Because VTP pumps are turbine pumps they have different power input to flow characteristics than typical centrifugal pumps.

In particular they require much smaller motors to generate the same lift.

- Compact pump head.
- Extremely low power consumption.
- Less heat transferred into the liquid.



Power Usage Comparison  
Between VTP-C and 3 stage centrifugal



## OTHER MAGNETIC DRIVE PUMPS

March May offers probably the largest range of magnetic drive pumps in the UK.



Large centrifugal  
For milder chemicals.



Compact centrifugal with  
DC motors  
For milder chemicals



Single stage centrifugal  
For milder chemicals.



Brass centrifugal  
For high temperature  
liquids.



Single stage turbine  
For mild or aggressive  
liquids.



Submersible centrifugal  
For milder liquids.



Multi stage centrifugal  
For mild or aggressive  
liquids.



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