

### VR050 12/24V Fuel Transfer Pump

#### Features

- Faster refuelling - 50 litres/minute (13 GPM)
- High head capability - 10 metres (32 feet)
- Self priming up to 3 metres (9.6 feet)
- Continuously rated\*
- Vibration tested
- IP55 protected motor
- 24V version with thermal cut-out protection
- Full range of installation accessories
- Customised kits for OEM customers



#### Typical Applications

- Designed for refuelling medium sizes diesel powered vehicles [typical tank sizes 200 - 500 litres (50 - 200 gallons)] from drums.
- Suitable for mounting to the following equipment: Excavators, Cranes, Road rollers (compactors), Pavers, Agricultural machines, Generators, Helicopters.
- Suitable for diesel fuel, Kerosene, Paraffin, Hydraulic oils, Oils up to 150 centi Stokes (750 Saybolt Universal) viscosity.

#### Specifications

**Temperature Range :** -30°C to +50°C (-22°F to +104°F)

**Pump Body :** Cast Iron

**Rotor :** Sintered Iron

**Vanes :** Sintered Bronze

**Shaft :** Carbon Steel

**Seal :** Nitrile Lip Seal. (Viton - 2120v - 2022v)

**Ports :** Vertical ¾" BSP or 25mm hose adaptors (1").

**Motor :** 12V or 24V DC permanent magnet, corrosion resistant IP55 protected

**Duty :** \*Continuously rated up to 3 metres (10 ft.), total head of diesel fuel at 40°C (104°)

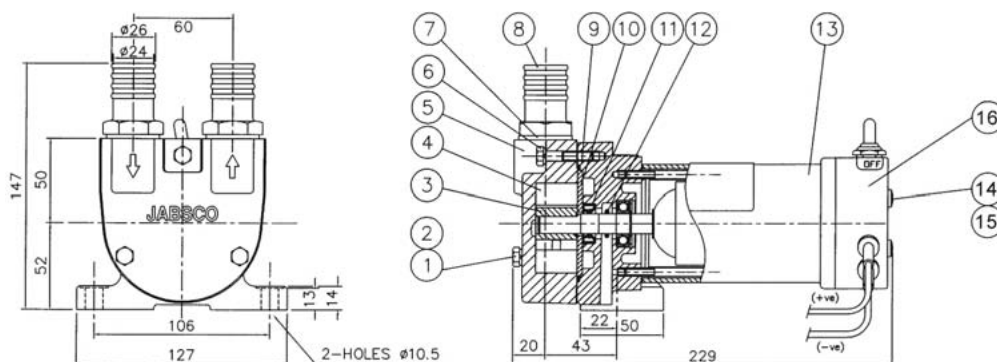
#### Model Range

| Model number   | Description   |
|--|---|
| VR050-2022V  | ¾" BSP ports, 12v DC, switch & fuse for B20 B10 DIESEL            |
| VR050-2022   | ¾" BSP ports, 12v DC, switch & fuse                               |
| VR050-2120V  | ¾" BSP ports, 24v DC, for B20 B10 DIESEL                          |
| VR050-2120   | ¾" BSP ports, 24v DC  |
| VR050-2122   | ¾" BSP ports, 24v DC, switch & fuse                               |
| VR050-1120   | 25mm (1"), Hose ports, 24v DC                                     |
| VR050-1022   | 25mm (1"), Hose ports, 12v DC, switch & fuse                      |
| VR050-1122   | 25mm (1"), Hose ports, 24v DC, switch & fuse                      |
| VR050-1123   | 25mm (1"), Hose ports, 24v DC, automatic shut off controller      |
| VR050-B013   | 25mm (1"), Hose ports, 24v DC, switch & fuse, fitted with by-pass |
| <b>Accessories For further information see Data Sheet 43010-0031</b> |   |
| 23738-0010B  | Check valve kit   |
| 23739-0000B  | Foot valve kit  |
| 23739-0100B  | Foot valve with shrouded strainer                                 |
| 23541-0001G  | Hose - 25mm (1") bore, [per metre]                                |
| 23733-0000   | Suction strainer 250 micron                                       |
| 50290-1000   | Shrouded strainer   |



**Explosion hazard. Do not pump gasoline, solvents, thinners or other flammable liquids. To do so can cause an explosion resulting in injury or death.**

Dimensions in mm (inches)



### Parts List

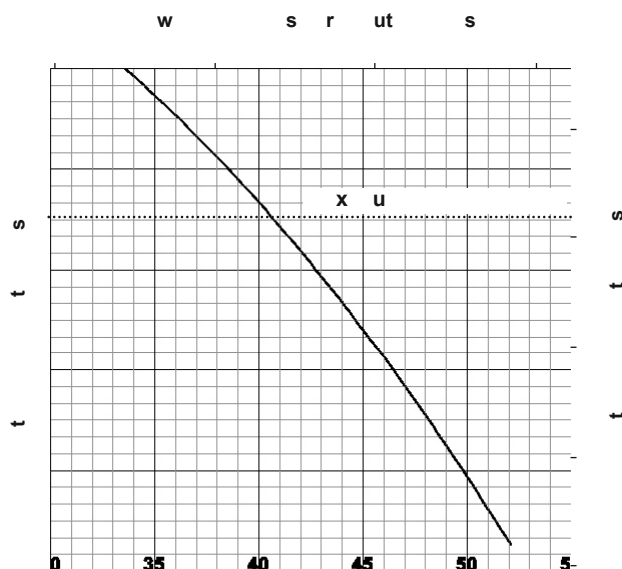
| Key | Description                 | Qty | Part No.       | Version<br>-2120V |
|-----|-----------------------------|-----|----------------|-------------------|
| 1   | Bolt M6 x 42                | 2   | X3000-191F     |                   |
| 2   | Spring washer               | 3   | X3081-091F     |                   |
| 3   | Rotor                       | 1   | 50242-0000     |                   |
| 4   | Vane*                       | 4   | Use SK421-0000 |                   |
| 5   | Body BSP                    | 1   | 50244-2000     |                   |
|     | NPT                         | 1   | 50244-9000     |                   |
| 6   | Bolt M6 x 30                | 1   | X3000-186F     |                   |
| 7   | Sealing Washer              | 2   | SP1613-1415    |                   |
| 8   | Port adaptor                | 2   | 23543-1000     |                   |
| 9   | O-Ring*                     | 1   | X4020-264A     | X4020- 264B       |
| 10  | Backplate                   | 1   | 50246-0000     |                   |
| 11  | Seal*                       | 1   | SP2701-0504    | SP2701- 1071      |
| 12  | O-Ring*                     | 1   | X4020-211A     | X4020- 211B       |
| 13  | Motor With Switch 12V       | 1   | 98012-9295B    |                   |
|     | & Fuse 24V                  | 1   | 98012-9296B    |                   |
|     | Basic 24V                   | 1   | 98012-9297B    |                   |
| 14  | Screw (Pack 10)             | 2   | 91046-6001B    |                   |
| 15  | Sealing washer (Pack 10)    | 2   | 91608-6001B    |                   |
| 16  | Fuse (Pack 10) 20 Amp (12V) | 1   | 92005-6020B    |                   |
|     | 10 Amp (24V)                | 1   | 92005-6010B    |                   |

Service kit contains items marked \*SK421-0000

#### Note

All performance information is based on diesel fuel at 20°C (68°F).  
On production product, this may vary by up to 10%.  
Maximum recommended total head of diesel fuel is 10 metres.

### Performance



**Current Draw** 12V = 12 Amps @ 3m head  
24V = 6 Amps @ 3m head

**Maximum Current** 12V = 20 Amps  
24V = 10 Amps

#### Safety

Do not use for pumping petrol, gasoline or products with a flash point below 37°C (99°F).  
Do not dry run.  
Always fit a fuse.

**xylem**  
Let's Solve Water

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