

VR050 Diesel Refuelling Pump

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 $+50^{\circ}$ C (-22° F to $+104^{\circ}$ F)

Pump Body : Cast Iron

- Rotor : Sintered Iron
- Vanes : Sintered Bronze

Shaft : Carbon Steel

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

Ports : Vertical ³/₄" 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

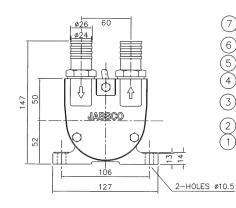
Model number	Description				
VR050-2022V	³ / ₄ " BSP ports, 12v DC, switch & fuse for B20 BI0 DIESEL				
VR050-2022	³ /4" BSP ports, 12v DC, switch & fuse				
VR050-2120V	³ / ₄ " BSP ports, 24v DC, for B20 BI0 DIESEL				
VR050-2120	³ / ₄ " BSP ports, 24v DC				
VR050-2122	³ /4 ^{°°} BSP ports, 24v DC, 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				
Accessories	For further information see Data Sheet 43010-0031				
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				

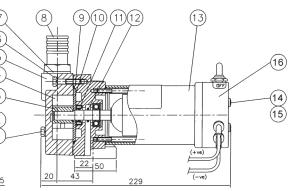




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Dimensions in mm (inches)





Parts List

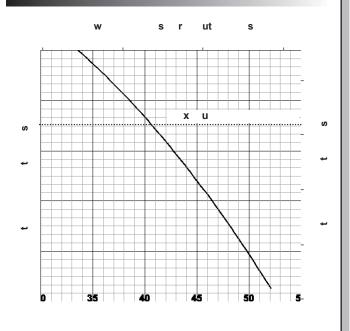
Key	Descripti	on			Qty	Part No.	Version -2120V	ו
1	Bolt		M6	x 42	2	X3000-191F		
2	Spring w	asher			3	X3081-091F		
3	Rotor				1	50242-0000		
4	Vane*				4	Use SK421-0000		
5	Body			BSP NPT	1 1	50244-2000 50244-9000		
6	Bolt			x 30	-	X3000-186F		
7	Sealing V	Washer			2	SP1613-1415		
8	Port ada	ptor			2	23543-1000		
9	O-Ring*				1	X4020-264A	X4020-	264B
10	Backplat	е			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		
		& Fu	ise	24V	1	98012-9296B		
		Basi	С	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 (12) 10 Amp (24)		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 $20^{\circ}C$ ($68^{\circ}F$). 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.

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