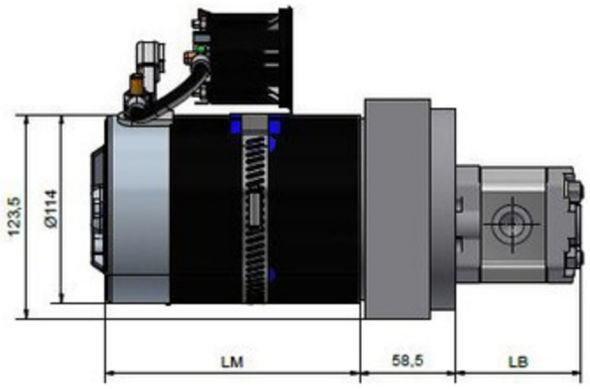
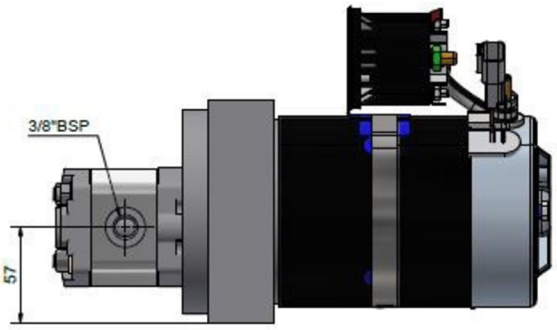
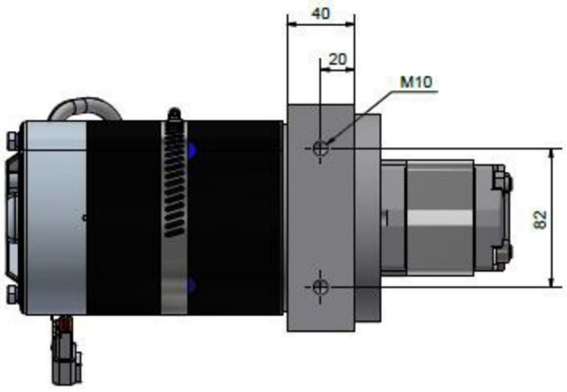
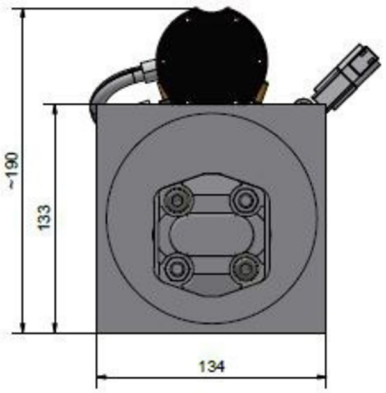
FLOWFIT DC MOTOR PUMP SETS









1. General Overview

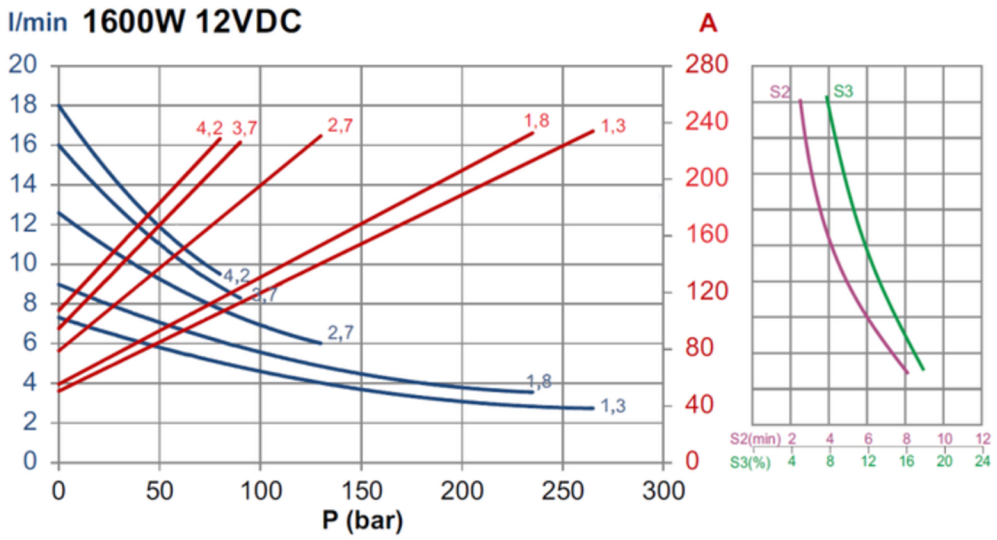
Flowfit DC Motor Pump Sets are compact, reliable hydraulic power units designed to deliver efficient fluid flow and pressure in a variety of mobile and industrial applications. These motor pump sets integrate a direct current (DC) motor with a hydraulic pump to provide robust and versatile performance in battery-powered systems.

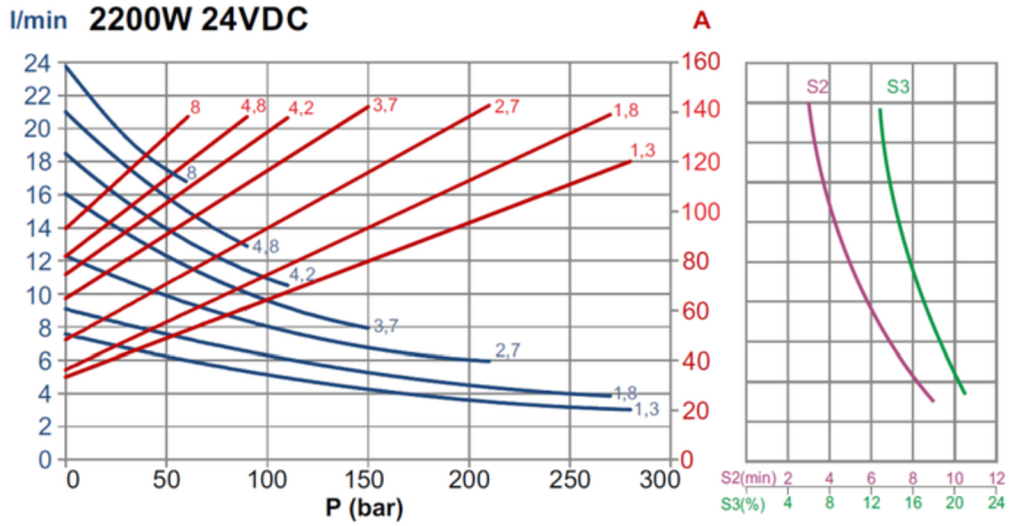
2. Key Features

- Power Source: Direct Current (DC) electric motor
- Compact Design: Space-saving, portable units for versatile installation
- High Efficiency: Optimized for battery-powered applications
- Pressure Range: Capable of operating under medium to high hydraulic pressures
- Low Noise Operation: Designed for reduced operational noise levels
- Durability: Built for continuous use in demanding environments

3. Technical Specifications

MOTOR PUMP VMP-K1DC						
Re ference	(cm3)	W	V	A	LM(mm)	LB(mm)
FF/1.3/12VDC	1,3	1600	12 DC	150	154	75
FF/1.8/12VDC	1,8	1600	12 DC	150	154	77
FF/2.7/12VDC	2,7	1600	12 DC	150	154	80
FF/3.7/12VDC	3,7	1600	12 DC	150	154	84
FF/4.2/12VDC	4,2	1600	12 DC	150	154	86
FF/1.3/24VDC	1,3	2200	24 DC	150	179,8	75
FF/1.8/24VDC	1,8	2200	24 DC	150	179,8	77
FF/2.7/24VDC	2,7	2200	24 DC	150	179,8	80
FF/3.7/24VDC	3,7	2200	24 DC	150	179,8	84
FF/4.2/24VDC	4,2	2200	24 DC	150	179,8	86
FF/4.8/24VDC	4,8	2200	24 DC	150	179,8	88





4. Applications

Flowfit DC Motor Pump Sets are ideal for:

- Mobile hydraulic systems
- Battery-operated machines
- Tail lifts and scissor lifts
- Emergency hydraulic power packs
- Small industrial hydraulic circuits
- Agricultural and construction equipment

5. Installation Guidelines

1. Mounting:
   - Ensure the unit is securely mounted to a flat, vibration-free surface.
   - Allow sufficient space for ventilation and cooling of the DC motor.
2. Hydraulic Connections:
   - Use hydraulic hoses rated for the system's operating pressure.
   - Connect suction and return lines with minimal bends to reduce flow restriction.
   - Confirm all connections are tight and leak-free.
3. Electrical Wiring:
   - Verify the power supply matches the motor voltage (12V, 24V, or 48V DC).
   - Use properly sized cables and fuses to handle the current load.
   - Connect the motor terminals securely and ensure a good ground connection.
4. Fluid:
   - Fill the reservoir with clean, compatible hydraulic oil (refer to the manufacturer’s fluid recommendations).
   - Bleed the system to remove air pockets before operating.

6. Maintenance Recommendations

- Regular Inspections:
  - Check for hydraulic leaks, worn hoses, or damaged fittings.
  - Inspect the electrical connections for corrosion or loose terminals.
- Fluid Maintenance:
  - Maintain the correct hydraulic fluid level and replace fluid as needed.
  - Replace hydraulic filters periodically to prevent contamination.
- Motor and Pump Performance:
  - Monitor operating pressure, flow rate, and noise levels for any irregularities.
  - Keep the motor's ventilation area clear of debris to prevent overheating.

7. Safety Precautions

- Always disconnect the power supply before servicing the unit.
- Relieve system pressure before making adjustments or repairs.
- Use appropriate personal protective equipment (PPE), including gloves and safety goggles, when working on hydraulic systems.
- Follow all electrical safety guidelines to prevent short circuits or fire hazards.

Note: Failure to follow these safety precautions may result in injury, equipment damage, or system failure. Always consult the manufacturer's documentation for additional details or specific requirements.