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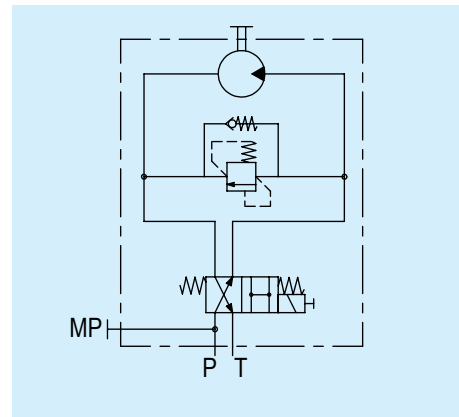


- Fan Drive system** In mobile equipment and transport vehicles, it is important to optimise performance, reduce noise and minimise emissions. To do this effectively, it is useful to have a heat dissipation system that is capable of varying its performance according to the machine's actual operating requirements. The Fan Drive system is a **smart system** that **decouples the fan speed from the revolutions of** the internal combustion engine and **optimises its performance according to the specific operating situation** by managing the parameters according to the programmed logics.
- The HPLMF2 family consists of a **Group 2 external gear motor** in aluminium with a cast iron flange and cover with the **electro-hydraulic fan control logics** all integrated into the hydraulic motor cover.
- Features** The integrated HPLMF2 fan drives consist of a **Group 2 aluminium gear motor** with a cast iron flange and cast iron cover with **integrated electro-hydraulic logics**.
- When signals are received from sensors or the CAN network, a **programmable electronic control unit pilots an electric or electro-hydraulic actuator** which controls the fan speed according to actual cooling requirements. The system **can be equipped with a reverser** which cleans the radiator core.
- Benefits** Thanks to their compactness, functionality and price-performance ratio, **HPLMF2 integrated Fan Drive systems are the ideal solution for controlling cooling in new-generation IC engines** in their flow rate range. The possibility of housing the SMART POWER control unit makes it possible to construct specific speed control ramps or completely deactivate rotation when the IC engine is idling. This makes the product **suitable for every need and maximises energy saving**.
- Range** The range consists of four models which can be identified by the cover codes **QB, QC, PA and PD** which represent the logical core of the product. Each cover model is available in additional versions which are described in the respective product sheets.
- For each type of cover, the customer can configure the motor by choosing the displacement, flange, shaft and any integrated support.
- Recommendations** Users are advised to use the **HPLMF2 product within the pressure, flow rate and speed limits defined in this catalogue** and select the direction of rotation according to the cover model.
- For different applications and/or conditions of use, please contact our technical sales department.

## HPLMF2 QB

### Motor with ON-OFF fan stop.

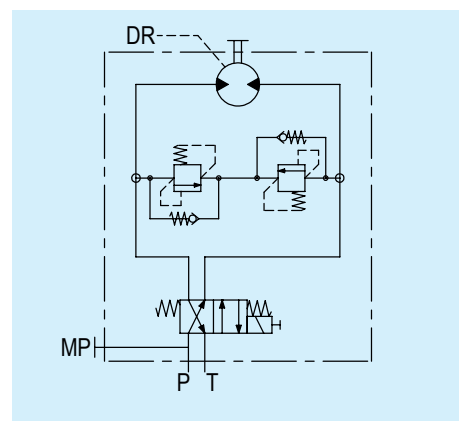
This stops the fan and bypasses all oil directed to the motor when the coil is energised.



## HPLMF2 QC

### Reversible motor.

This reverses the direction of rotation of the fan. This is required whenever poor cleaning of the cooling system affects its efficiency.

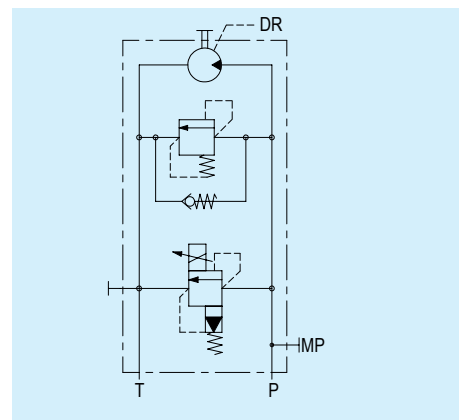
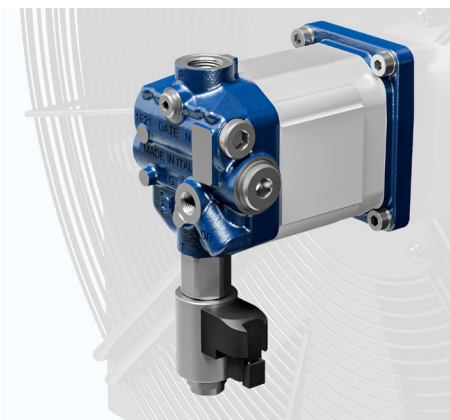


## HPLMF2 PA

### Motor with proportional speed control.

This varies the fan speed when the coil is energised by discharging part of the flow directly to the motor.

In a non-energised condition, the fan will operate at maximum speed. This safety logic allows the system to be in maximum cooling condition if there is no electrical signal.



## HPLMF2 PD

### Motor with proportional speed control plus reversal.

This allows proportional control of the fan speed (with a safety logic) and the possibility of reversing the direction of rotation.

