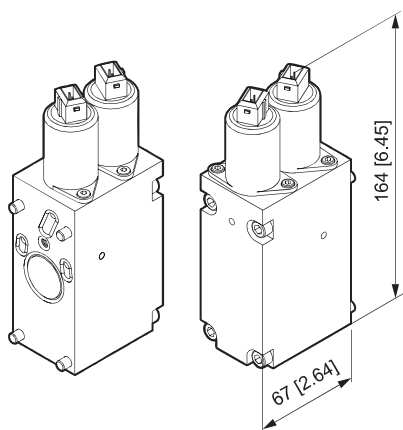
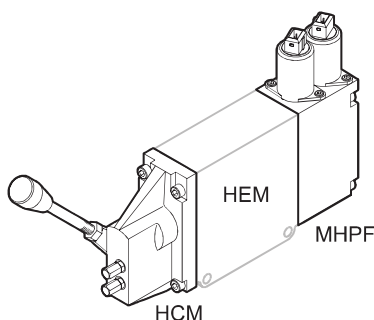




MHPF



Example with module MHPF and manual control HCM

MHPF electrohydraulic PROPORTIONAL module

MHPF proportional electrohydraulic module shifts the position of the spool precisely in proportion to an electric current signal generated by the remote control.

The spool is shifted by means of the hydraulic pressure generated by the pressure-reduction proportional solenoid valves. The MHPF module is not equipped with an inductive position transducer (LVDT) and the entire electronic circuit to detect and signal faults.

This means that in the joystick remote control phase, any control (for example a manual control) that overrides the force exerted by the pressure reduction valves on the spool, may vary the position of that spool without any error signal and without inhibition, leaving the safety of the entire hydraulic system to the visual operator control, only.

MHPF module has the following main features:

- It can be operated with on-off signals also
- Short response time
- Electro-proportional pressure reduction valves
- PWM electric control of low-frequency solenoid valves
- Any adjustment to limit the flow or to create work ramps will be made directly on the remote control
- Very low hysteresis and excellent sensitivity

Voltage	Code (Aluminum)	Code (Cast iron)
12 Vdc	MHPF004107051	MHPF004107053
24 Vdc	MHPF004107052	MHPF004107054

Rated voltage	12 Vdc	24 Vdc
Power supply voltage range	11 to 15 V	22 to 30 V
Max. ripple	8 %	
Max. current	1500 mA $\pm$ 10	750 mA $\pm$ 10
Power consumption	18 W at 22 °C [71.6 °F] coil temperature	
Start spool travel	560 mA	280 mA
End spool travel	1080 mA	520 mA
R ₂₀	4.72 Ω $\pm$ 5 %	20.8 Ω $\pm$ 5 %
Heat insulation	Class H, 180 °C [356 °F]	
Oil temperature	Recommended	-30 $\div$ +60 °C [-22 $\div$ +140 °F]
	Min	-30 °C [-22 °F]
	Max	+90 °C [+194 °F]
Dither adjustment	75 Hz	
Inductance	8.5 mH	70 mH
Current variation	100 mA/s	50 mA/s
Duty cycle % ED on-off operating	14 V = 100	28 V = 100
	15 V = 50	30 V = 50
Plug connector	2-pole AMP Junior Power Timer	
Reaction time from neutral position to end spool stroke (constant voltage)	120 ms	
Reaction time from end spool stroke to neutral position (constant voltage)	90 ms	
Grade of enclosure to IEC 529, with female connector	IP 65	