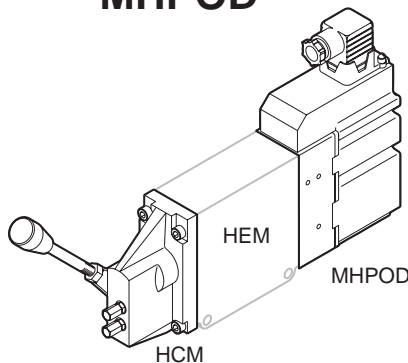


**MHPOD**



Example with module MHPOD and manual control HCM

## MHPOD electrohydraulic PROPORTIONAL module

MHPOD is an open loop electrohydraulic activation unit, whose design is based on digital technology.

MHPOD has been specially developed to meet the harsh operating requirements of today's mobile machine market. MHPOD electrical open loop proportional actuation operates the main spool's shift according to an electrical signal coming from a remote control unit, and is recommended where a simple proportional control is required, and where hysteresis and reaction time are not critical.

MHPOD does not have the inductive position transceiver (LVDT) and any electronic circuit for faults monitoring. This means that any forces that override the pilot pressure spool forces may change the spool position with no error signal, and the safety of the whole system is left to the operator's visual control, only.

MHPOD is defined by:

- Capacity to handle three different kinds of input signal control (see chart below).
- The required signal control is to be stated in the order phase
- Integrated PWM (Pulse Width Modulator)
- Good flow regulation
- Simple built-up.

Voltage	Input signal control		
	0.5 x U <sub>DC</sub> (A) joystick	0 ÷ 10 V <sub>DC</sub> (B) PLC	0 ÷ 20 mA (C) PLC
12 Vdc	<b>MHPOD07708077</b>	<b>MHPOD07708082</b>	<b>MHPOD07708086</b>
24 Vdc	<b>MHPOD07708075</b>	<b>MHPOD07708084</b>	<b>MHPOD07708088</b>

Aluminum body

Rated voltage		12 Vdc	24 Vdc
Power supply voltage range		11 ÷ 15 V	20 ÷ 28 V
Max. ripple		5 %	
Current supply		520 mA	260 mA
Current consumption (neutral position, constant voltage)		36 mA	46 mA
Power consumption		6 W	
Heat insulation		Class H 180 °C [256 °F]	
Reaction time (constant voltage)	From neutral position to max. spool travel	110 ÷ 140 ms	
	From max. spool travel to neutral position	70 ÷ 90 ms	
Reaction time (neutral switch)	From neutral position to max. spool travel	130 ÷ 170 ms	
	From max. spool travel to neutral position	70 ÷ 90 ms	
Connector		Standard (IP 65) according to DIN 43650 / ISO 4400	
Enclosure to IEC 529		IP 65	
(A) joystick	Input signal control	Neutral position	0.5 x U <sub>DC</sub>
		Control range	0.25 x U <sub>DC</sub> to 0.75 x U <sub>DC</sub>
	Max. current signal control	0.5 mA	1 mA
	Input impedance in relation to 0.5 x U <sub>DC</sub>	12 kΩ	
(B) PLC	Input signal control	Voltage	0 ÷ 10 VDC
		Neutral position	5 VDC
		Control range	0.25 x 10 VDC to 0.75 x 10 VDC
	Current signal control	0.5 mA	
(C) PLC	Input signal control	Current	0 ÷ 20 mA
		Neutral position	10 mA
		Control range	0.25 x 20 mA to 0.75 x 20 mA
	Input impedance in relation to 0 ÷ 20 mA	0.5 kΩ	

Electrical connections for MHPOD controls, see page: E-4