

PV-4 Proportional Valves

Function

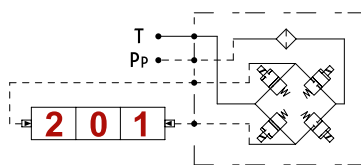
Electronic control system was based on the deviation between the input signal and the feedback, to control the solenoid valve. Thereby changing the pilot pressure drives the main spool, and makes it in the right direction and speeds to meets the desired position.

Supply voltage 12V DC & 24V DC, and it can options with LED light or not.

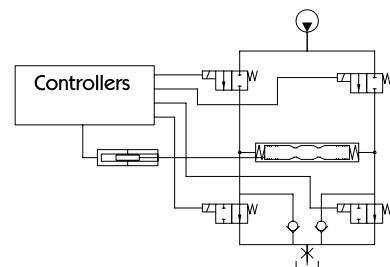
Code	description	Connector	enclosure to ieC 529
EPVM-H0110	Proportional valve, Voltage 12 VDC Without LED light.	Hirschmann	IP65
EPVM-H0111	Proportional valve, Voltage 12 VDC With LED light.	Hirschmann	IP65
EPVM-H0120	Proportional valve, Voltage 24 VDC Without LED light.	Hirschmann	IP65
EPVM-H0121	Proportional valve, Voltage 24 VDC With LED light.	Hirschmann	IP65

Parameter	description	12V dC	24V dC	Parameter	description
Supply voltage (UDC)	Rated	12V	24V	Ambient temperature	-30°C~60°C {-22°F~140°F}
	Range	11V~15V	22V~30V	Oil temperature	-30°C~90°C {-22°F~194°F}
	Max. ripple	5%		Oil viscosity	Range : 12~75 mm ² /s { 65~350 SUS }
Current consumption	Typical	760 mA	450 mA		Min. : 4 mm ² /s { 40 SUS }
					Max. : 400 mm ² /s { 2130 SUS }
Signal vantage (US)	Neutral	0.5 x U _{DC}		Pilot oil pressure	10~15 bar { 145~217.5 psi }
	A port ↔ B port	0.25~0.75 x U _{DC}			
Power consumption		10W	11W	Filtering in the hydraulic system	Max. allowed degree of contamination (ISO 4406)

Circuit

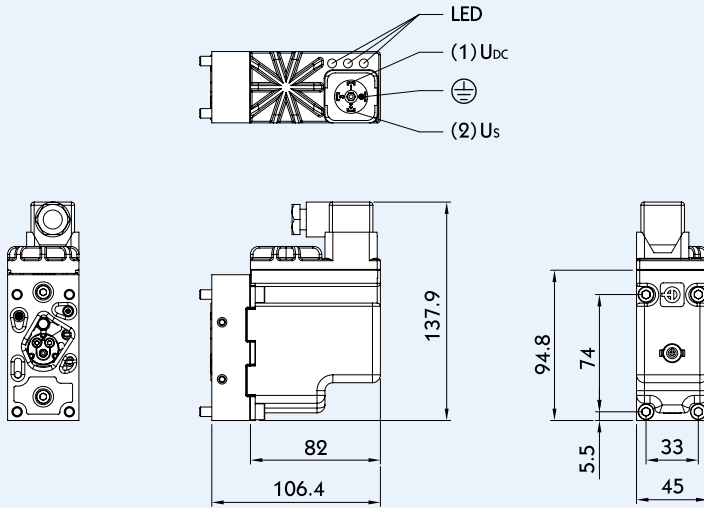


Function



PV-4 Proportional Valves

Standard Type-hirschmann



Function	Signal voltage (Us)	LED indicator
Neutral position	Us (Pin 2) = 0.5 x U _{DC}	Green
P → A	Us (Pin 2) = (0.5 → 0.25) x U _{DC}	Blue
P → B	Us (Pin 2) = (0.5 → 0.75) x U _{DC}	Yellow

Control Curve

