

Electronic accessory components

There is a wide range of electronic components for the control of common on/off and proportional solenoids available. The range consists of e.g. electronic amplifiers as modules, cards, versions integrated in the plug for single or twin solenoids or for pressure switches.

A power supply for 230V DC / 24V DC solenoid valves is also available.

All these components are designed for HAWE solenoid valves.

Nomenclature:

- Plugs
 - No special feature (standard)
 - With rectifier circuit
 - With clamp diode
 - With LED
 - With economy circuit
- Amplifiers for proportional solenoids
- Power supplies

Design:

- Plugs
- Modules with terminals
- Cards with terminals



Versions

Plugs for solenoid valves (single and twin solenoids)

Brief description

Application

No special feature (standard)

For all applications with no special requirements

Version with LED

Visual operation control and EMC protection
(note prolonged cut-off times)

Version with clamp diode

For optimum EMC protection
(note prolonged cut-off times)

Version with economy circuit

Increased functional security and prolonged service life of the solenoids by reducing the voltage (pulse width modulation) after a defined period. Recommended for use in areas with high ambient temperatures and/or for application where the solenoids are permanently energized (e.g. safety circuits)

Version with rectifier circuit

Enabling use of DC solenoids when a power supply of 110V AC / 230V AC 50/60 Hz is only available

Plugs with no special feature (for DC mains) or versions with built-in rectifier for mains 110V AC / 230V AC 50/60 Hz are standard parts of delivery with any solenoid valve.

Proportional amplifiers

Characteristic

- Maintains a constant current, largely independent of the supply voltage and temperature related alternations of the coil resistance.
- Improved EMC protection
- Enables use over a wide temperature range

Adjustable parameter

- I_{max} and I_{min} - setting
- Ramp time (up to 10 sec)
- Reference voltage for set point generator
- Dither amplitude and frequency

Type	Brief description	Application
EV 1 M EV 1 G EV 1 D	Module version (board only or built-in housing)	For installation in switch cabinets via terminals
EV 22 K	Card version	This card is able to control two proportional solenoids. May be individually installed in a card retainer or up to 3 in a module carrier

Mains supply for solenoid valves

Type	Brief description	Application
MNG	Mains supply for inlet 230V 50/60 Hz and outlet 24V DC, max. power rating 5A	Power supply for solenoid actuated hydraulic valves or electr. amplifiers for prop. solenoids

Further information

• Plugs (connectors); Type overview	D 7163	• Listing for combination possibilities of valves and electronic accessories	P 7163
• Economy circuits for actuation solenoids WG 230	D 7813	• Joystick type EJ	D 7844
• Economy circuit type MSE 28026	D 7832	• Lifting module type HMT etc.	D 7650, Sk 7650 ++, Sk 7758 ++
• Plugs with economy circuit for 24V DC type MSD 4 P55	D 7833	• Prop. directional seated valves type EMP	D 7490/1, D 7490/1E
• Electronic amplifiers type EV 1 M 2	D 7831/1	• Prop. directional spool valve type PSL, PSV	D 7700 ++
type EV 1 D	D 7831 D	• Prop. pressure valve type PM, PMZ	D 7625
type EV 1 G 1	D 7837	type PMV	D 7485/1
type EV 22 K 1	D 7817	type PDV	D 7486
type EV 22 K 2	D 7817/1	type PDM	D 7486, D 7584/1
type EV 22 K 5	D 7817/2	• Prop. flow control valve type SE, SEH	D 7557/1
• Programmable logical valve control type PLVC 2	D 7845-2	• Electronic pressure sensor type DT 11	D 5440 T/2
type PLVC 4	D 7845-4	type DT 2	D 5440 T/1
type PLVC 8x2	D 7845 M		
type CAN HMI-XS	D 7845 XS	• See also section "Devices for special applications" (Proportional valves)	
type CAN HMI	D 7845 HMI		
• Mains supply 24V DC type MNG	D 7835		