



## Electromagnetic Control electromagnets Holding magnets

Control electromagnet protected against dirt and humidity

Any mounting position

### Application:

The control electromagnets are primarily used to drive valves in gas, air, water or oil-hydraulic control systems.

### Materials:

All parts are protected against corrosion.

### Special features:

The solenoid plunger of the electromagnet is supported at two points and thus protected against wear.

A diaphragm seal between the valve and the solenoid plunger chamber protects the control electromagnet against dirt and humidity.

### Versions:

The electrical connections can be supplied in the form of loose lines directly brought out from the magnet or as an appliance coupler with associated plug including indicator lamp.

### Protection classes:

Many control electromagnets can also be supplied in (Sch)d/(Ex)d2, VDE 0170/0171 or as intrinsically safe versions.

### Controllable versions:

Proportional control magnets for proportionally controlling pilot-control valves in hydraulic control systems.

To be used in combination with electronic control cards only.

**Holding magnets for holding ferromagnetic materials when activated.**

### Materials:

All parts are protected against corrosion.

### Special features:

The solenoids are completely encapsulated. No mechanical moving parts.

Nom. width valve	Housing dim. in mm	Protect. class housing	Connection type	Ambient temperature	Mounting position	Operating voltage *	Current intensity	Switch-on period	Pull-in power	Holding power	Lifting force	Stroke
NW3	40 * 40	iP 54	Connector	max. + 35°	any	12 V = to 220 V~	1,1 A to 0,06 A	100% ED	13 W	13 W	28N to 31N	4 mm
NW 6	50 * 50	iP 54	Connector	max. + 35°	any	12 V = to 220 V~	3 A to 0,150 A	100% ED	36 W	36 W	95 N	5 mm
iE 5	50 * 50	Intrins. safe	Conn.housing	max. + 35°	any	12 V intrins. safe	185 mA	100% ED	2,33 W	2,33 W	21 N	4 mm
iE 7	60 * 60	Intrins. safe	Conn.hous.	max. + 35°	any	12 V intrins. safe	185 mA	100% ED	2,16 W	2,16 W		
iE 9	40 * 40	Intrins. safe	Conn.hous.	max. + 35°	any	12 V intrins. safe	0,05 A	100% ED	0,54 W	0,54 W	10 N	1 mm
iE 14	30 * 30	Intrins. safe	Connector	max. + 35°	any	12 V intrins. safe	0,168 A	100% ED	1,82 W	1,82W		
iE 16	50 * 50	Intrins. safe	Connector	max. + 35°	any	12 V intrins. safe	0,055 A	100% ED	0,59 W	0,59 W		
iE 27	40 * 84	Intrins. safe	Connector	max. + 35°	any	2x 12 V intrins. safe	2x 185 mA	100% ED				
iE 36	40 * 88	Intrins. safe	Connector	max. + 35°	any	2x 12 V intrins. safe	2x 185 mA	100% ED	2,7 W	2,7 W		0,2 mm
prop. NW 3	40 * 40	iP 54	Connector	max. + 35°	any	24 V	0,77 A	100% ED	18,5 W	18,5 W	110 N	2 mm
prop. NW 6	50 * 50	iP 54	Connector	max. + 35°	any	24 V	1,5 A	100% ED	36 W	36 W	95 N	5 mm
dE 3	50	EX	Free cable ends	max. + 35°	any	12 V = to 500 V~	1,35A to 0,06A	100% ED	29 W	29 W	59 N	5 mm
Hold. mag.			Free cable ends	max. + 35°	any	24 V	0,26 A	100% ED	6,2 W	6,2 W		

\* Other voltages available on request