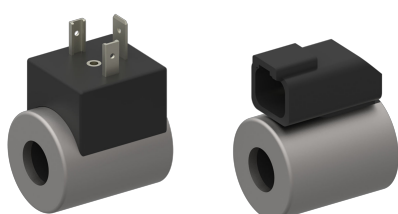


Valve accessory

Solenoid coil

Type series: COIL D30-131...



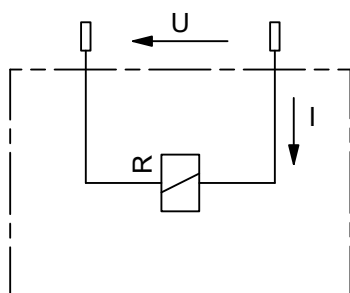
- Compact construction
- Power consumption 20 W
- Optionally with protection diode
- For core tube 13mm / 0.51"
- Protection class IP65 / IP67 / IP69K
- Metal sheathing with zinc-nickel coating according to DIN EN ISO 19598

Description

The slip-on coils can be replaced without opening the hydraulic envelope and can be positioned at any angle through 360°. When combined with the appropriate core tube, the coils produce an on/off solenoid function or a proportional solenoid function. Thanks

to the variety of plug connection types and voltages, these coils are suitable for widespread use in mobile and industrial applications. The metal-coated coil body and the plug base are made of glass fiber-reinforced thermoplastic

Symbol



for more symbols refer to "Additional symbols"

Technical data

| General characteristics | Description, value, unit |
|-------------------------|--|
| Function group | Valve accessory |
| Function | Solenoid coil |
| Mounting attitude | see chapter "Installation information" |
| Weight | 0.12...0.15 kg |

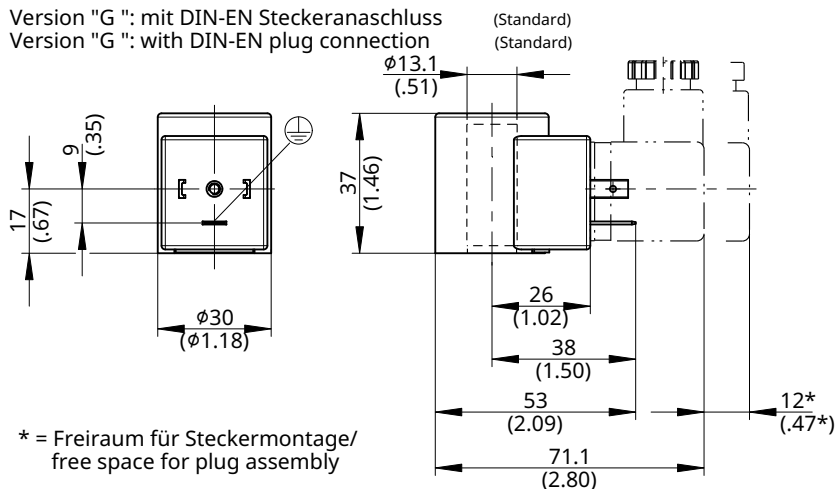
| Electric characteristics | Description, value, unit |
|--|---|
| Actuator type | solenoid coil |
| Solenoid coils type | D30-131 |
| Supply voltage DC | 12/24 V DC |
| Supply voltage tolerance | ± 10 % |
| Nominal power consumption | 20 W |
| Switching time | see valve data sheet |
| Relative duty cycle | 100 % |
| Minimum ambient temperature | - 30 °C |
| Maximum ambient temperature | + 50 °C |
| Coil resistance R | See table "Supply voltage" |
| Electrical connection coil | several connection types available, see ordering code |
| Protection class solenoid coil to ISO 20 653 / EN 60 529 | IP 65 / IP 67 / IP 69K, see "Ordering code" (with appropriate mating connector and proper fitting and sealing) |


NOTE!

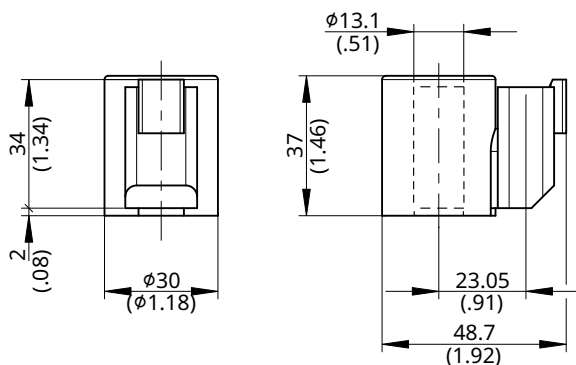
For further data on the protection diode, see chapter "Protection diode characteristics".

Dimensions and sectional view

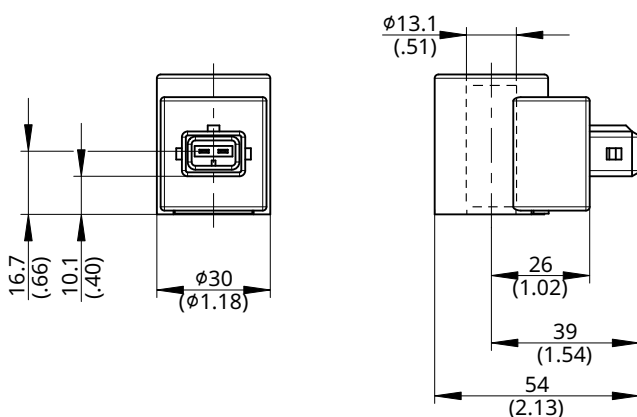
Version "G": mit DIN-EN Steckeranschluss
Version "G": with DIN-EN plug connection



Version "T / TR": mit Deutsch-Steckeranschluss DT04-2P
Version "T / TR": with Deutsch DT04-2P plug connection



Version "J / JR": mit Junior-Timer-Radialsteckeranschluss
Version "J / JR": with Junior Timer radial plug connection



Installation information



ATTENTION!

Due to the risk of overheating, the solenoid coil may only be put into operation when properly mounted on a valve.



NOTE!

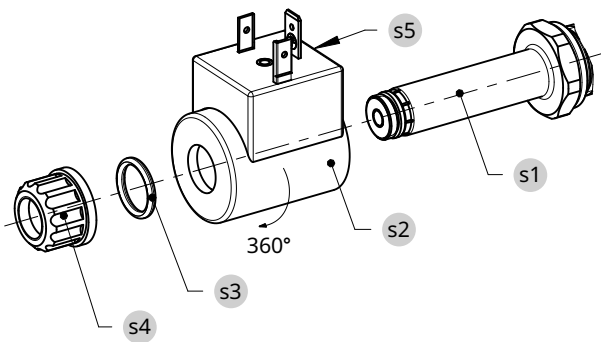
When used with adjacent proportional valves, the distance must be observed. An influence on the proportional valve cannot be ruled out.

| Supply voltage: 12 VDC | | 20 W |
|--|-----------------------|---------|
| Coil resistance R | cold value at + 20 °C | 7,5 Ω |
| | cold value at - 30 °C | 6,0 Ω |
| | max. warm value | 12,0 Ω |
| Inductance Measured at the core tube, non-operated, at 0.1 mA (rms) / 1 kHz | parallel 120 Hz | 22,0 mH |
| | serial 1000 Hz | 6,4 mH |

| Supply voltage: 24 VDC | | 20 W |
|--|-----------------------|---------|
| Coil resistance R | cold value at + 20 °C | 29,0 Ω |
| | cold value at - 30 °C | 23,5 Ω |
| | max. warm value | 46,0 Ω |
| Inductance Measured at the core tube, non-operated, at 0.1 mA (rms) / 1 kHz | parallel 120 Hz | 86,0 mH |
| | serial 1000 Hz | 25,5 mH |

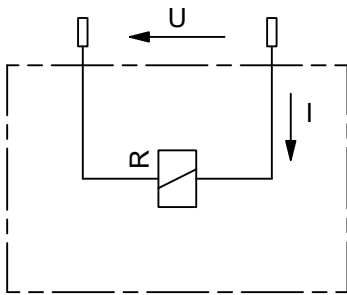
| Protection diode characteristics | Description, value, unit |
|--|--------------------------------------|
| Bipolar protection diode | 12 VDC: P6KE33CA 24 VDC: P6KE56CA |
| Nominal breakdown voltage of the bipolar protection diode | 12 VDC: 33 V 24 VDC: 56 V |
| Max. allowed voltage peaks for 1 second and relative duty cycle ED = 0.4 % | 12 VDC: 25 V 24 VDC: 43 V |

Installation instructions

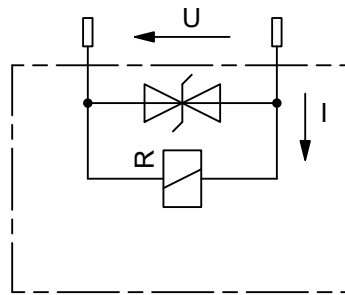


1. Depending on the application, it is important to observe the orientation of the plug base. **s5** (See valve data sheet)
2. Attach the solenoid coil **s2** to the solenoid tube of the valve **s1**
3. Fit the seal. **s3** (Size of the seal according to the valve data sheet)
4. Align solenoid coil **s2** and install retaining nut **s4** with MA = 2.7 Nm / 2.0 ft-lb.

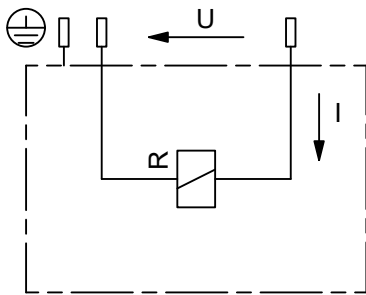
Additional symbols



2-pole



2-pole, with protection diode



3-pole 2 P+E (DIN EN 175301-803)



IMPORTANT!

The earth connection is marked with \oplus .

Ordering code

| | | | | | | | | | |
|---------|--|--------------------------------------|---|-----|----|---|---|---|-------------|
| Ex. | COIL | D30 | - | 131 | 24 | D | G | - | 20W |
| COIL | = coil | | | | | | | | |
| D30 | = outside dimension Ø30 (1.18") | | | | | | | | |
| 131 | = nominal diameter 13.1 mm (0.51") | | | | | | | | |
| 24 | = voltage 24 V (standard) | | | | | | | | |
| 12 | = voltage 12 V | | | | | | | | |
| D | = current DC | | | | | | | | |
| G | = DIN EN 175301-803 connection | 3-pole 2 P+E (standard) | | | | | | | (IP 65) |
| J | = Junior Timer plug connection | 2-pole radial | | | | | | | (IP 65) |
| JR | = Junior Timer plug connection | 2-pole radial, with protection diode | | | | | | | (IP 65) |
| T | = Deutsch plug connection DT04-2P | 2-pole axial | | | | | | | (IP 67/69K) |
| TR | = Deutsch plug connection DT04-2P | 2-pole axial, with protection diode | | | | | | | (IP 67/69K) |
| (blank) | = connection without mating plug (standard) | | | | | | | | |
| Q | = only connection "G" with mating plug | | | | | | | | |
| 20W | = Nominal power consumption, 20 W | | | | | | | | |



IMPORTANT!

Not every combination of voltage values and plug connections available.

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