Valve accessory
Solenoid coil

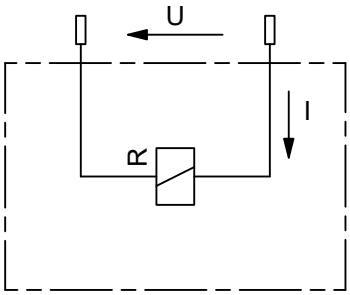
Type series: COIL D37-161...

- Compact construction
- Power consumption 26 W
- Protection class IP65 / IP67 / IP69K

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 various plug connection types and voltages, these coils are suitable for widespread use in mobile and industrial applications. The coil encapsulation and the plug base are glass-fibre 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	0.2 kg

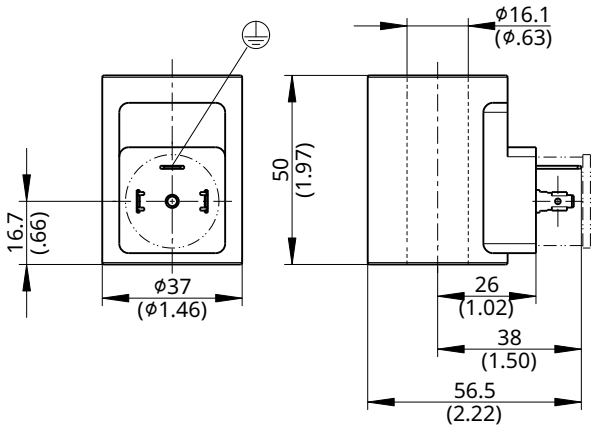
Electric characteristics	Description, value, unit
Actuator type	solenoid coil
Solenoid coils type	D37-161
Supply voltage DC	12/24 V DC
Supply voltage tolerance	± 10 %
Nominal power consumption	26 W
Switching time	see valve data sheet
Relative duty cycle	100 %
Minimum ambient temperature	- 30 °C
Maximum 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)

Dimensions and sectional view

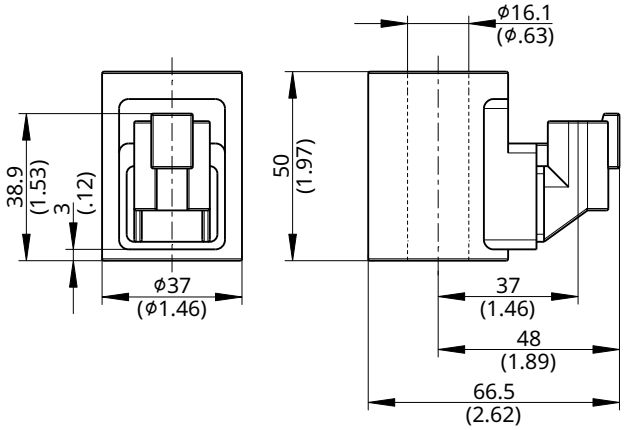
Beispiel für die Masseinheit:
Exampel for the dimensional units:

0.79 = 0.79 mm millimeter
(.031) = 0.031" inch

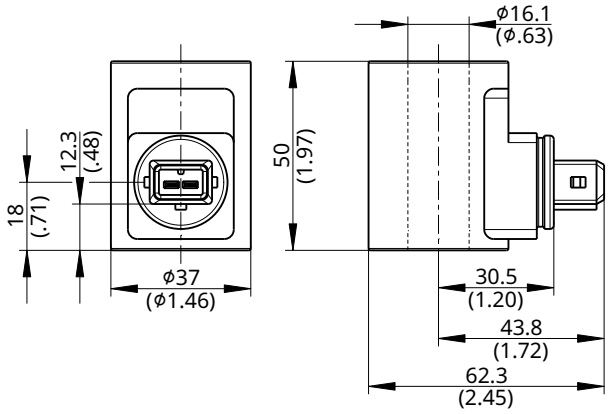
Version "G": mit DIN-EN Steckeranaschluss (Standard)
Version "G": with DIN-EN plug connection (Standard)



Version "T": mit Deutsch-Steckeranaschluss DT04-2P
Version "T": with Deutsch DT04-2P plug connection



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



Installation information

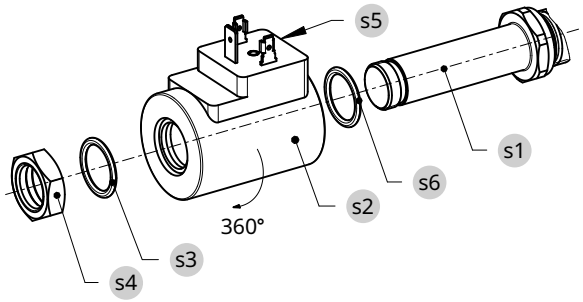
ATTENTION!
Due to the risk of overheating, the solenoid coil may only be put into operation when properly mounted on a valve.

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		**26 W**
Coil resistance R	cold value at + 20 °C cold value at - 30 °C max. warm value	5,5 Ω 4,5 Ω 8,8 Ω
Inductance Measured at the core tube, non-operated, at 0.1 mA (rms) / 1 kHz	parallel 120 Hz serial 1000 Hz	32,7 mH 12,6 mH

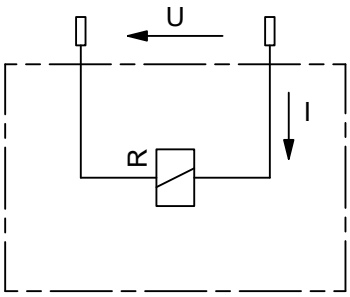
Supply voltage: 24 VDC		**26 W**
Coil resistance R	cold value at + 20 °C cold value at - 30 °C max. warm value	22,2 Ω 17,9 Ω 35,2 Ω
Inductance Measured at the core tube, non-operated, at 0.1 mA (rms) / 1 kHz	parallel 120 Hz serial 1000 Hz	128,0 mH 48,6 mH

Installation instructions

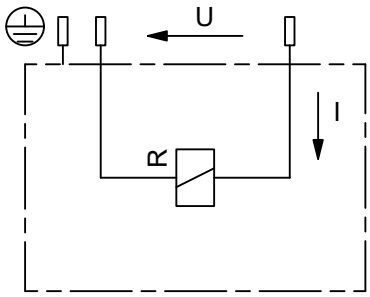


1. Depending on the application, it is important to observe the orientation of the plug base. s5 (See valve data sheet)
2. install seal s6 to the solenoid tube
3. Attach the solenoid coil s2 to the solenoid tube of the valve s1
4. Fit the seal. s3 (Size of the seal according to the valve data sheet)
5. Align solenoid coil s2 and install retaining nut s4 with MA = 2.7 Nm / 2.0 ft-lb.

Additional symbols



2-pole



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

IMPORTANT!
The earth connection is marked with ⏚.

Ordering code

Ex. COIL | D37 | - | 161 | X | 50 | 24 | D | G | _ | 26W

COIL	=	coil		
D37	=	outside dimension Ø37		
161	=	inside diameter 16.1 mm (0.63“)		
50	=	coil length 50 mm (1.97“)		
12	=	voltage 12 V		
24	=	voltage 24 V **(standard)**		
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)
T	=	Deutsch plug connection DT04-2P	2-pole axial	(IP 67/69K)
(blank)	=	connection without mating plug **(standard)**		
Q	=	only connection “G“ with mating plug		
26W	=	Nominal power consumption 26 W		

IMPORTANT!
Not every combination of voltage values, current type and plug connections available.

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