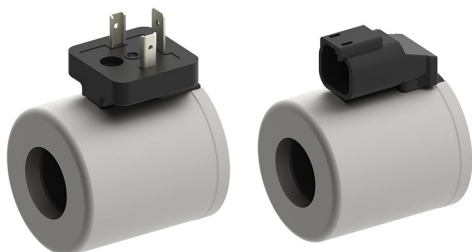


Coils for Solenoid Valves

Diverse connector types, power ratings and voltages
Series D45/22...



- Facilitates compact assemblies
- All common DC voltages
- Nominal power up 22 W
- Diverse connector types
- Protection class IP 65 / IP 67 / IP 69K
- For core tube \varnothing 22 mm

1 Description

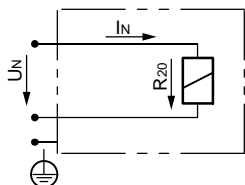
The slip-on coils can be replaced without opening the hydraulic envelope and can be positioned at any angle through 360°. When combined with the appropriate core tube, the coils produce an on/off solenoid function or a proportional solenoid function. Thanks to the wide variety of connector types and voltages, these coils are suitable for

widespread use in mobile and industrial applications. These coils are very adaptable in use, a benefit that is enhanced by various power ratings. The plug base are plastic. The body is zinc-nickel plated according to DIN 50 979 and is thus suitable for use in the harshest operating environments.

2 Symbol

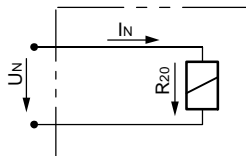
Connector type to DIN EN 175301-803

Direct current DC



All connector types except DIN EN 175301-803 (DC)

Without protection diode



IMPORTANT!

For solenoid coils with integrated rectifier as well as for solenoid coils without protection diode the two supply connections (U_N) can be interchanged. The earth connection is marked with ...



3 Technical data

General characteristics	Description, value, unit
Designation	coil, D45/22
Design	slip-on, rotatable 360°
Mounting method	core tube, knurled nut

General characteristics		Description, value, unit
Ambient temperature range	14 W 22 W 8 W	-30 °C ... +65 °C (Prop.) -30 °C ... +65 °C (ON/OFF) -30 °C ... +80 °C (ON/OFF)
Coil weight		530 g
Electrical characteristics		Description, value, unit
Electrical connection:	standard on request on request on request	- DIN EN 175301-803, 3-pole 2 P+E - Deutsch plug connection DT04-2P - Junior Timer radial plug connection, 2-pole - AMPSEAL axial plug connection
Insulation class to VDE 0580		H (180 °C)
Protection class 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)
Relative duty cycle		100 %
Control current		see valve data sheet (proportional function)
Supply voltage tolerance		± 10 %
Supply voltages / power ratings:	standard standard	12 V DC / 14 W, 22 W 24 V DC / 14 W, 22 W
Others on request		



IMPORTANT!:

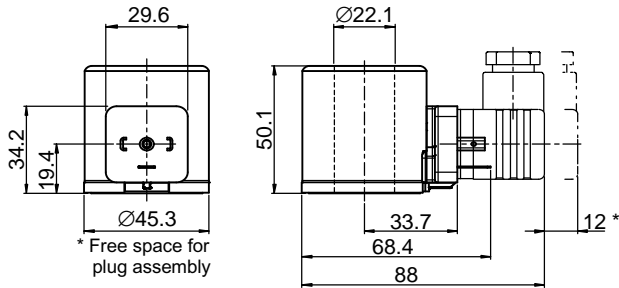
1) supply voltages > 75 VDC or 50 VAC only possible with DIN EN 175301-803 connect.

Supply voltage: 12 V DC		14 W	22 W
Coil resistance R	- cold value at + 20 °C	2.6 Ω	6.28 Ω
	- cold value at - 30 °C	2.1 Ω	5.1 Ω
	- max. warm value	4.1 Ω	9.8 Ω
Inductance Measured at the core tube, non-operated	parallel 120 Hz	42 mH	-- mH
	serial 1000 Hz	8 mH	--mH
Supply voltage: 24 V DC		14 W	22 W
Coil resistance R	- cold value at + 20 °C	10.1 Ω	26.4 Ω
	- cold value at - 30 °C	8.1 Ω	21.2 Ω
	- max. warm value	15.8 Ω	41.3 Ω
Inductance Measured at the core tube, non-operated	parallel 120 Hz	170 mH	445 mH
	serial 1000 Hz	33 mH	90 mH

4 Dimensions

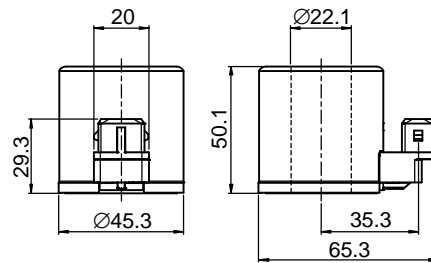
Coil with DIN EN plug connection

- Standard-Type G (see Ordering code)



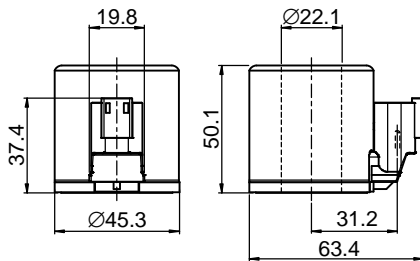
Coil with Junior Timer axial plug connection

- Type I (see ordering code)



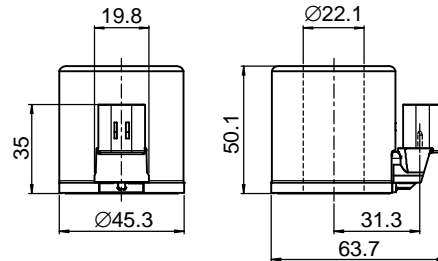
Coil with Deutsch DT04-2P plug connection

- Type T (see Ordering code)



Coil with AMPSEAL 16 axial plug connection

- Type A (see ordering code)



5 Installation information



Attention.

Because of the danger of overheating, the coil must only be operated when it is properly fitted on a valve.



Attention.

Delivery is done without mating connector.

6 Ordering code

Ex.

COIL	D45/22	—	24	D	—	22W
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- COIL = coil
- D45/22 = $\varnothing 45$ mm (outside \varnothing) / $\varnothing 22$ mm (inside \varnothing)
- B = use for a switching valves (8 W, 22 W)
- P = use for a prop. Valves (14 W)
- ... = voltage e.g. 24 (24 V),
see "Electrical characteristics" - supply voltage
- D = current DC
- G = standard plug connection to DIN EN (3-pole, 2 P+E) (IP 65)
for the following plug-variants, please consult Bucher
- T = Deutsch plug connection DT04-2P 2-pole axial (IP 67/69K)
- I = Junior Timer plug connection 2-pole axial (IP 65)
- A = AMPSEAL plug connection 2-pole axial (IP 67/69K)
- ... = Nominal power consumption, see "Electrical characteristics"

} mating plug not supplied

7 Related data sheets

Reference	Description
400-D-9010002	Technical hints and tips – solenoid coils