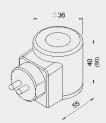


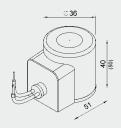
Connector type G DIN connector to EN175-301-803



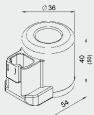
Connector type T AMP Junior Timer, 2-pole



Connector type K Kostal connector, 2-pole



Connector type L Lead-wires, 457 mm



Connector type N
Deutsch connector, 2-pole

# Solenoid Coils for Directional Valves (Solenoid Operated)

Types
For the following valves:

40-1836 WSM06020 Y, YR, Z, ZR, V, W ... WSM10120 Y, YR, Z, ZR, W ... WSM12120 Y, YR, Z, ZR, V, W ...

WSM10120 Y, YR, Z, ZR, W ... WSM12120 Y, YR, Z, ZR, V, W ... WS08 C, Y, YR, Z, ZR, V, W ... WS10 Y, YR, Z, ZR, W ... WS12 Y, YR, Z, ZR ...

WS10 1, 1R, Z, ZR, W ... WS12 Y, YR, Z, ZR ... WS16 Y, YR, Z, ZR ... WKM08140 X, EB, Y ... WK08 (07) (081) A. C. F

WK08 (07) (081) A, C, D, K, L, P, R, V, W, X, Z ...

50-1836

WS08 C, D ...

WSM08130 C, D ...

WK10 A, C, D, K, L, N, P ...

WK10 R, V, W, X, Y, Z ...

WS10 W ...

WK10 E, F, G, H, J, S, (2x) ...

WSM20121 W ...

# **FEATURES**

Maximum power for minimum space requirement
 Coil is layer-wound which ensures maximum copper fill for minimum space requirement. This prevents damage to the wire insulation.

• Fully encapsulated coil

Internal coil seal prevents moisture from penetrating and therefore prevents short circuits in the winding

Designed for 100% duty cycle
 At I<sub>max</sub> and ambient temperatures of -20° to +60°C

(Prevents failure due to short circuit)

Low energy consumption

Optimum power/energy ratio

High mechanical resistance

High mechanical resistance
 Zinc-plated steel casing

 High thermal load capacity Insulation material class H (180°C, VDE 0580)

 5 different types of electrical connection as standard, with protection classes IP65, IP67 and IP6K9K DIN/EN connector (G) IP65, Junior Timer (T) IP65/IP67 Kostal connector (K) IP67, Lead-wires (L) IP65/IP67, Deutsch connector (N) IP65/IP67/IP6K9K and others on request

 Mounting direction optional Symmetrical coil construction

• Coil dimensions = type code

Type 40-1836 = 40 mm high (18 mm internal  $\emptyset$ , 36 mm external  $\emptyset$ ) Type 50-1836 = 50 mm high (18 mm internal  $\emptyset$ , 36 mm external  $\emptyset$ )

# **SPECIFICATIONS**

Coil duty rating:		Continuous up to max. 115% of the nominal voltage at max. 60 °C ambient temperature			
Max. permitted coil te	mperature:	180 °C			
Power consumption:	40 type coil	18 - 20 Watt at nominal voltage and 20 °C coil temperature			
	50 type coil	25 - 27.2 Watt at nominal voltage and 20 °C coil temperature			
Coil wire:		Insulation material class H			
Coil casing:		Steel, zinc-plated			
Connector socket:		Polyamide, black			
(all specifications rela	te to coil when fitte	ed on a valve)			

# DESCRIPTION

The solenoid coil is manufactured as a DC coil as standard.

On request, solenoid coils can be fitted with an integrated reverse polarity protected diode for reducing the switch-off induction voltage, to protect against voltage surges. Solenoid coils for connection to alternating current have an integrated bridge rectifier.

For coils with a DIN connector to EN 175301-803 a corresponding connecting socket (Part No. 394287) can be supplied separately.

As a general rule, special coils can be manufactured to customer specification. Please consult your sales partner.

For the various connector electronics for coils, please see the relevant valve brochure.

## MODEL CODE

Coil 12 DG01 - 40-1836

Basic model-

Coil voltage

12 V DC

24 V DC

115 V AC (AG termination only) 230 V AC (AG termination only)

Other voltages on request

# Type of voltage

= DC, control valve

A = AC, control valve

#### Type of connector

= Connector to EN 175301-803, protection class IP65

= Junior Timer 2-pole, radial, protection class IP65/IP67

= Kostal threaded connection, M 27x1, 2-pole, protection class IP65/IP67

= 2 lead-wires, 0.75mm<sup>2</sup>, 457 mm (18") long, protection class IP65/IP67

N = Deutsch connector 2-pole, protection class IP65/IP67/IP6K9K

Other connectors on request

#### Version (depending on connector)

No details = standard

01, 02... = e.g. protection diodes, different cable lengths...

#### Type code

40-1836 = principal dimensions (height, internal diameter, external diameter)

The model code is for information only. For the types available, see table below:

# **BASIC MODEL AND RELEVANT PART NUMBERS**

Nominal voltage	Coil length	Coil	Nominal resistance	Nom. current	Part numbers for type of connector				
		power			DIN	Junior Timer	Kostal	Lead-wires	Deutsch
[Volt]	[mm]	[Watt]	[Ohm]	[Amp.]	(G)	(T)	(K)	(L)	(N)
12 V DC	40	18.00	8.00	1.50	3000489	3008275	3003133	3002244	3012600
					12DG-40-1836	12DT-40-1836	12DK-40-1836	12DL-40-1836	12-DN-40-1836
	50	26.70	5.40	2.20	915151	3001033	3091679	3091633	3091665
					12DG-50-1836	12DT-50-1836	12DK-50-1836	12DL-50-1836	12-DN-50-1836
24 V DC	40	19.00	30.00	0.80	3000249	3008279	3003138	3003119	3012599
					24DG-40-1836	24DT-40-1836	24DK-40-1836	24DL-40-1836	24DN-40-1836
	50 2	26.70	21.20	1.10	915142	3001503	3091681	3112951	3091667
					24DG-50-1836	24DT-50-1836	24DK-50-1836	24DL-50-1836	24DN-50-1836
115 V AC	40	20.00	500.00	0.20	3003156	_	_	_	_
					115AG-40-1836				
110 V AC	50	25.00	383.00	0.26	3019735	_	_	_	_
					110AG-50-1836				
230 V AC	40	20.00	2137.00	0.10	3002594	_	_	_	_
					230AG-40-1836				
	50	25.00	1680.00	0.12	3019736	_	_	_	_
					230AG-50-1836				

### NOTE

The information in this brochure relates to the operating conditions and applications described. For applications or operating conditions not described, please contact the relevant technical department. Subject to technical modifications.

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