

CDL.04.6...

"A09" DC Coils	Ch. I Page 68		
CONNECTORS STANDARD	Ch. I Page 19		

ORDERING CODE

CDL Stackable circuit selector valve

04 Size NG04

W

6 No. of way (single element)

> Threaded connectors 1/4" BSP

I Internal drainage

No. of elements: 1 / 2 / 3 / 4

Voltage (Tab. 1)

Variants (Tab. 2)

Serial No. 1

CDL.04.6... STACKABLE CIRCUIT SELECTOR VALVES



The stackable circuit selector valves, type CDL.04.6, allows one single drive of 5 users with 4 elements connected in series.

As they are moved from high performances solenoids they don't need the external drainage.

Additionally, beyond having a reduced and compact dimensions, they can manage high hydraulic powers with a minimal pressure drop. The body valve is white zinc plated.

Max. pressure 250 bar Max. flow 20 l/min Overlap positive Hydraulic fluids Mineral oils DIN 51524 Fluid viscosity $10 \div 500 \text{ mm}^2/\text{s}$ Fluid temperature -25°C ÷ 75°C Ambient temperature -25°C ÷ 60°C

Max. contamination level class 10 in accordance NAS with 1638 with filter $\beta_{25} \ge 75$

HYDRAULIC SYMBOLS

SINGLE ELEMENT

MULTI STATION CONNECTION

Weight see "Overall dimension"

TAB.1 - A09 (27 W) COIL

DC VOLTAGE ** 12V 4 14V 115Vac/50Hz 120Vac/60Hz M 24V with rectifier Ν 48V* Р 110V* 230Vac/50Hz Z 240Vac/60Hz 102V* with rectifier 205V***◆** W Without DC coil Voltage codes are not stamped on the plate, their

- * Special voltage
- ** Technical data see page I 67
- The AMP Junior coil and with the flying leads (with or without diode) coils are available in 12V or 24V DC voltage only.
- The Deutsch coil with bidirectional diode is available in 12V DC voltage only.

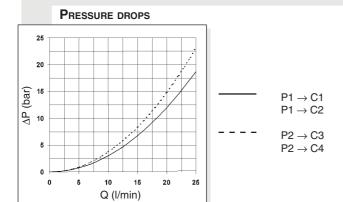
TAB. 2 - VARIANTS

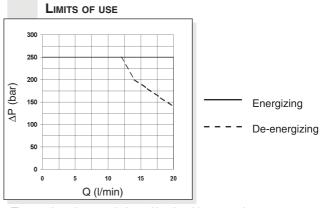
VARIANT	CODE
No variant (without connectors)	S1(*)
Viton	SV(*)
Rotary emergency button	P2(*)(**)
Emergency button	ES(*)
AMP Junior connection	AJ(*)
Bobina con fili (250 mm)	FL
with flying leads (130 mm) and integr. diode	e LD
Deutsch connection with bidir. diode	CX
Other variants available on request.	

(*) Coils with Hirschmann and AMP Junior connection supplied without connectors. The connectors can be ordered separately, ch. I page 19.

(**) P2 Emergency tightening torque max. 6÷9 Nm / 0.6 ÷ 0.9 Kgm with CH n. 22

TABLE VALUATIO	
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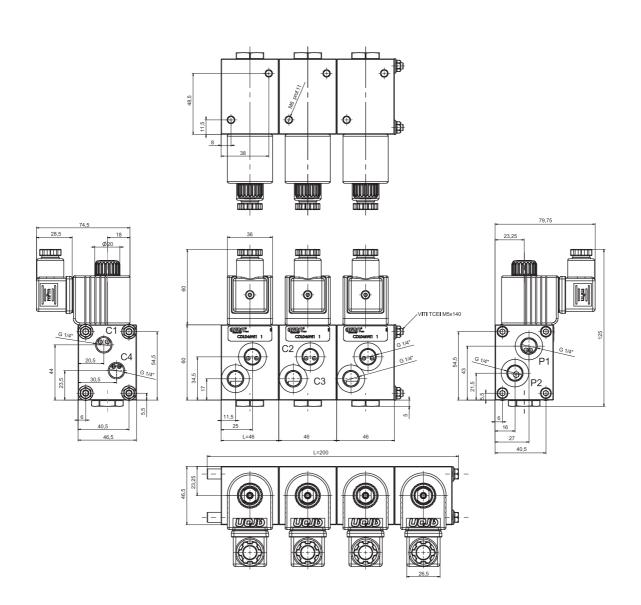




The tests have been carried out with solenoids at operating temperature and a voltage 10% less than rated voltage with a fluid temperature of 50 C°. The fluid used was a mineral oil with a viscosity of 46 mm²/s at 40 degrees C.



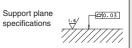
OVERALL DIMENSIONS

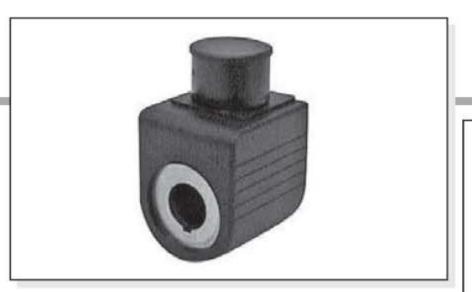


Fixing screws with material specifications min. 8.8 Tighten the screws to a torque of 5 Nm (0.5 Kgm)

No. of elements	No. of way	L (Length)	Weight (Kg)	Fixing screws	Kit spare part code* (rods and studs)
1	06	46	1.05	_	_
2	08	100	2.20	TCEI M5x95	V89.54.0020
3	10	145	3.30	TCEI M5x140	V89.54.0021
4	12	200	4.45	TCEI M5x194 (special rods)	V89.54.0022

(*) For multiple composition rods and studs are available.





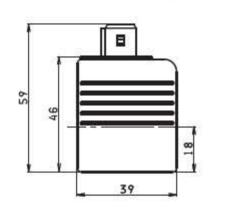
"A09" DC coils for CDL.04...



Type of protection	
(in relation to connector used)	IP 65
Number of cycle	18.000/h
Supply tolerance	±10%
Ambient temperature	-30°C ÷ 60°C
Duty cycle	100% ED
Insulation class wire	Н
Weight	0,215 Kg

- The AMP Junior coil and with the flying leads (with or without diode) coils are available in 12V or 24V DC voltage only.
- The Deutsch coil with bidirectional diode is available in 12V DC voltage only.

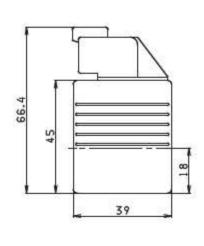
AMP JUNIOR (AJ)



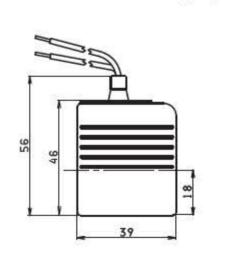
VOLTAGE (V)	Max winding temperature (Ambient temperature 25°C)	RATED POWER (W)	RESISTANCE AT 20°C (OHM) ±7%
12V	123°C	27	5.3
24V	123°C	27	21.3
48V*	123°C	27	85.3
102V(*)(**)	123°C	27	392
110V(*)(**)	123°C	27	448
205V(*)(**)	123°C	27	1577

** The european low voltage directive is applied to electronical equipments used at a nominal voltages between 50 and 1000 VAC or 75 and 1500 VDC. In conformity with the low directive each part of the manifold or the subplate on which the valve is mounted should be connected to a protective earth with a resistence less than 0.1 ohms.

DEUTSCH COIL WITH BIDIR. DIODE (CX) DT04 - 2P



FLYING LEADS (FL)
LEADS WITH DIODO (LD)



EMERGENCY (COILS WITH HIRSCHMANN CONNECTION)

MANUAL WITHOUT CONN. (ES)

MANUAL WITH CONN. (E1)

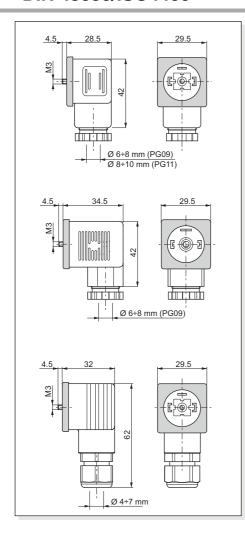
ROTARY WITH CONNECTOR (P2*)

ROTARY WITH CONNECTOR (P1*)

(*) Emergency tightening torque max. 6÷9 Nm / 0.6 ÷ 0.9 Kgm with CH n. 22

Connectors directional control valves in accordance with DIN 43650/ISO4400





Connector	Protection level	Туре	Cable gland	Code
		Black color	PG09	V86 05 0002
Standard	IP65	Grey color	PG09	V86 05 0004
Stanuaru	IP65	Black color	PG11	V86 05 0006
		Grey color	PG11	V86 05 0008
		12 VAC/VDC	PG09	V86 10 0018
Lang cover with pilot light (*)		24 VAC/VDC	PG09	V86 10 0012
Lens cover with pilot light (*)		115 VAC/VDC	PG09	V86 10 0020
		230 VAC/VDC	PG09	V86 10 0022

Screw tightening torque: 0.60 Nm

Connector	Protection level	Туре	Cable gland	Code
With rectifier (*) Inlet voltage 12÷230 VAC	IP65	Black color	PG09	V86 20 0002
Outlet voltage 9÷205 VDC	1700	Grey color	PG09	V86 20 0004
	IP65	12 VAC	PG09	V86 25 0018
ens cover with pilot light and		24 VAC	PG09	V86 25 0019
rectifier (*)		48 VAC	PG09	V86 25 0020
Inlet voltage 12÷230 VAC Outlet voltage 9÷205 VDC		115 VAC	PG09	V86 25 0021
Cullet Vollage 9-203 VDC		230 VAC	PG09	V86 25 0022

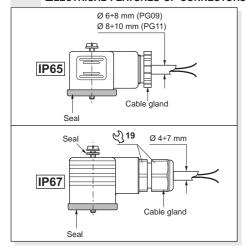
Screw tightening torque: 0.60 Nm

	Connector	Protection level	Туре	Cable gland	Code
	With protection level IP67	IP67	Black color	_	V86 28 0001
			Grey color	_	V86 28 0002

Screw tightening torque: 0.60 Nm

(*) Don't use for proportional versions

ELECTRICAL FEATURES OF CONNECTORS

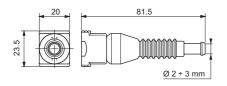


Description	IP65	IP67
AC rated voltage	Max. 250 V	Max. 250 V
DC rated voltage	Max. 300 V	Max. 300 V
Pin conctat nominal current	10A	10A
Pin conctat max. current	16A	16A
Max. section cable	1.5 mm ²	1.5 mm ²
Cable gland PG09 - M16x1,5	Ø cable 6 ÷ 8 mm	Ø cable 4 ÷ 7 mm
Cable gland PG11 - G 1/2" - M20x1,5	Ø cable 8 ÷ 10 mm	_
Protection level	IP65 EN60529	IP67 EN60529
Insulation class	VDE 0110-1/89	VDE 0110-1/89
Operating temperature	-40°C ÷ 90 C°	-20°C ÷ 80 C°

The degrees of protection indicate is guaranteed only if the connectors were properly mounted with his original seals.

AMP JUNIOR CONNECTORS





Connector	Туре	Cable section	Pin conctat max current	Code
AMP Junior connector Timer 2 conctat	Black color	0,5 ÷ 1,5 mm ²	10A	RKRC0808000