CDL046... STACKABLE CIRCUIT
DIVERTER VALVES



CDL046...		
"A09" DC COILS	SECT. A	75
CONNECTORS STANDARD	SECT. L	15

The stackable circuit diverter 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 ÷ 500 mm²/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 $ß_{25}≥75$
Weight	see "Overall dimension"

ORDERING CODE

CDL	Stackable circuit diverter valve
04	Size NG04
6	No. of way (single element)
W	Threaded connectors 1/4" BSP
I	Internal drainage
*	No. of elements: **1 / 2 / 3 / 4**
*	Voltage (Tab. 1)
**	Variants (Tab. 2)
1	Serial No.

TAB.1 - A09 (27 W) COIL DC VOLTAGE **

L	12V
4	14V
M	24V
N	48V*
P	110V*
Z	102V*
X	205V*
W	Without DC coil

115Vac/50Hz 120Vac/60Hz with rectifier

230Vac/50Hz 240Vac/60Hz with rectifier

Voltage codes are not stamped on the plate, their are readable on the coils.

* Special voltage
** Technical data see page SECT. A 75

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

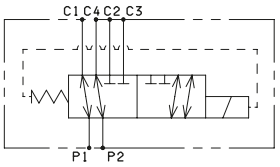
TAB. 2 - VARIANTS

VARIANT	CODE
No variant (without connectors)	S1(*)
FKM	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	LD
Deutsch connection with bidir. diode	CX
Other variants available on request.	

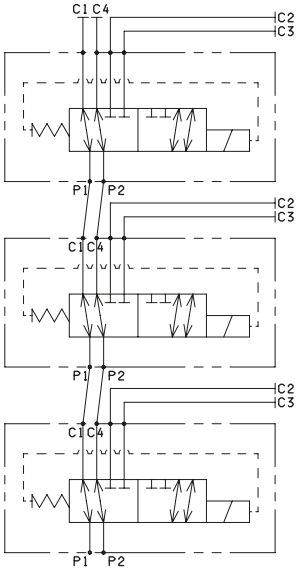
(*) Coils with Hirschmann and AMP Junior connection supplied without connectors. The connectors can be ordered separately, SECT. L 15
(**) **P2 Emergency** tightening torque **max. 6÷9 Nm / 0.6 ÷ 0.9 Kgm** with CH n. 22

HYDRAULIC SYMBOLS

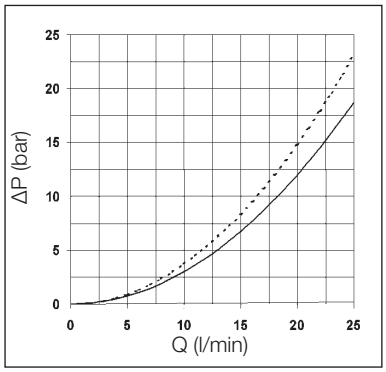
SINGLE ELEMENT



MULTI STATION CONNECTION



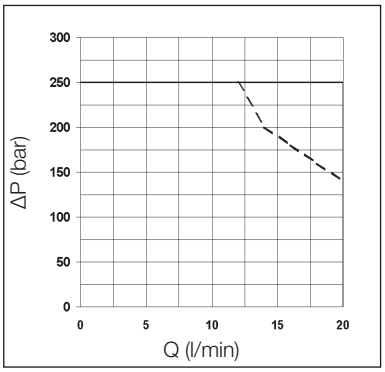
PRESSURE DROPS



P1 → C1
P1 → C2

P2 → C3
P2 → C4

LIMITS OF USE



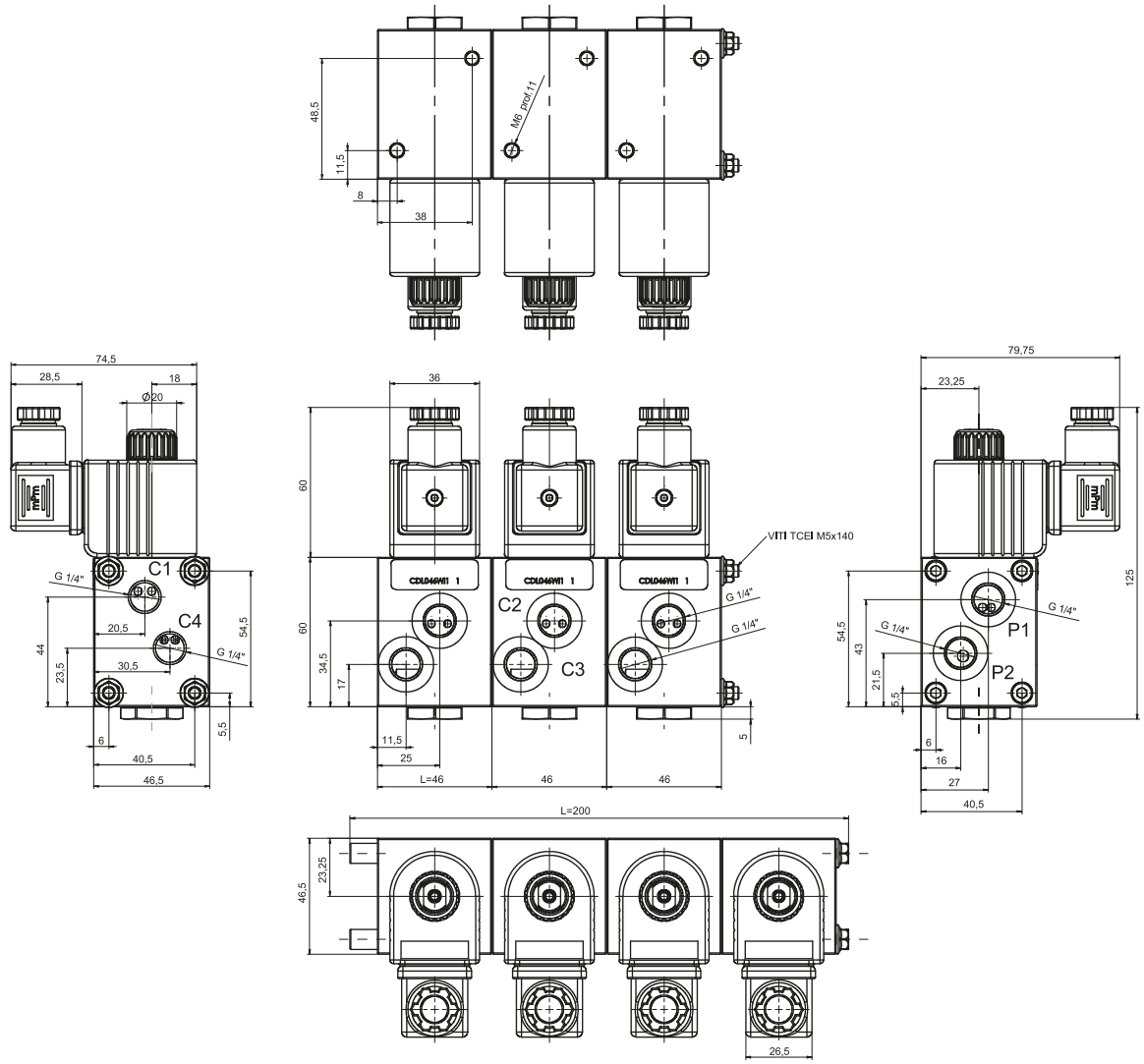
Energizing

De-energizing

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.

A

OVERALL DIMENSIONS

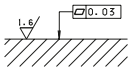


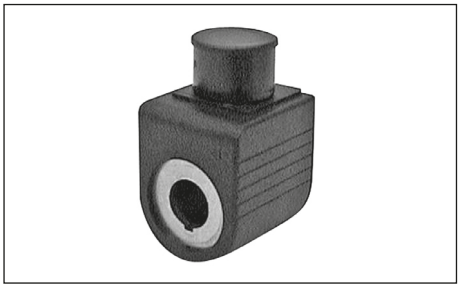
Tighten the screws to a torque of 5 Nm (0.5 Kgm)
Fixing screws with material specifications min. 8.8

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.

Support plane specifications



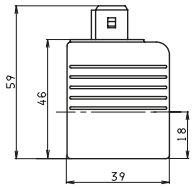


"A09" DC COILS FOR CDL04...

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	H
Weight	0,215 Kg

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

AMP JUNIOR (AJ)

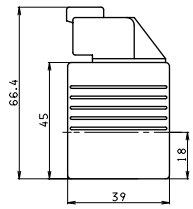


VOLTAGE (V)	MAX WINDING TEMPERATURE (AMBIENT TEMPERATURE 25°C)	RATED POWER (W)	RESISTANCE AT 20°C (OHM) ±7%
12V	123°C	27	5.3
24V	123°C	27	21.3
48V*	123°C	27	85.3
102V(*)(**)	123°C	27	392
110V(*)(**)	123°C	27	448
205V(*)(**)	123°C	27	1577

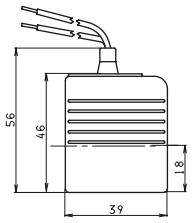
* Special voltages

** 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

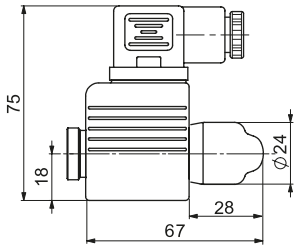


FLYING LEADS (FL) LEADS WITH DIODO (LD)

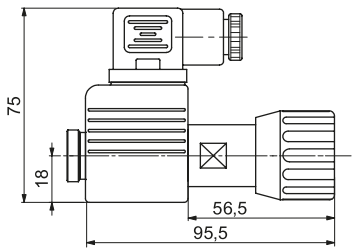


EMERGENCY (COILS WITH HIRSCHMANN CONNECTION)

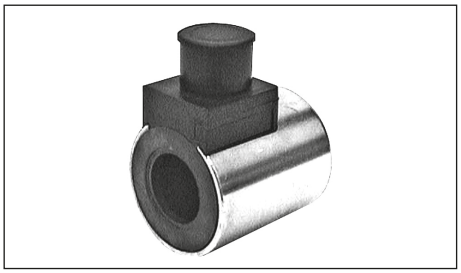
MANUAL WITHOUT CONN. (ES)
MANUAL WITH CONN. (E1)



ROTARY WITHOUT CONNECTOR (P2*)
ROTARY WITH CONNECTOR (P1*)



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



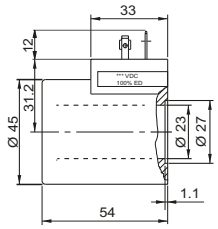
"D15" DC COILS FOR ADL06... AND A66..

Type of protection (in relation to the connector used)	IP 66
Number of cycles	18.000/h
Supply tolerance	±10%
Ambient temperature	-25°C ÷ 60°C
Duty cycle	100% ED
Insulation class wire	H
Weight	0,354 Kg

- AMP Junior coils (with or without diode) and coils with flying leads and coils type Deutsch, are available in 12V or 24V DC voltage only.
- The pastic type coil (BR variant) is available in 12V, 24V, 28V or 110V DC voltage only.

- Emergency, plastic coil, and Amp Junior, leads or deutch coils, are not available for A66 valve.

ECOAT COIL (RS)

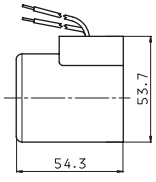


VOLTAGE (V)	MAX WINDING TEMPERATURE (AMBIENT TEMPERATURE 25°C)	RATED POWER (W)	RESISTANCE AT 20°C (OHM) ±10%
12V	110°C	30	4.8
24V	110°C	30	18.8
28V*	110°C	30	25.6
48V*	110°C	30	75.2
102V(*)(**)	110°C	30	340
110V(*)(**)	110°C	30	387
205V(*)(**)	110°C	30	1375

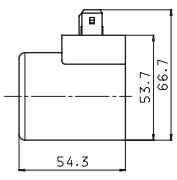
* Special voltages

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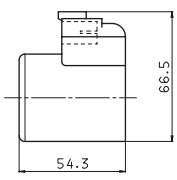
FLYING WITH LEADS COIL (SL)



AMP JUNIOR (AJ) AJ + DIODE (AD)

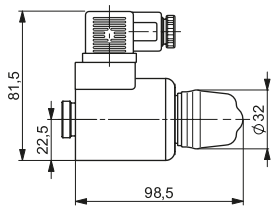


DEUTSCH DT04 - 2P (CZ) CZ + ECOAT (R6)



EMERGENCY (COILS WITH HIRSCHMANN CONNECTION)

MANUAL WITHOUT CONNECTOR (ES)



ROTARY WITHOUT CONNECTOR (P2)

