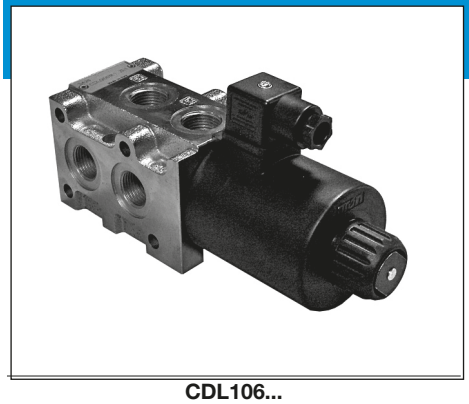
CDL106... STACKABLE CIRCUIT
DIVERTER VALVES



CDL106...

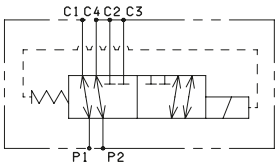
"A16" DC COILS	SECT. A	76
CONNECTORS STANDARD	SECT. L	15

The stackable circuit diverter valves, type CDL.10.6, allows one single drive of 6 users with 5 elements connected in series.
As they are moved from high performances solenoids they don't need the external drainage.
This valves can manage high hydraulic powers with a minimal pressure drop.
Flow diverter valves are not able to act when max flow and max pressure are applied together. In case this is needed, please contact Dana

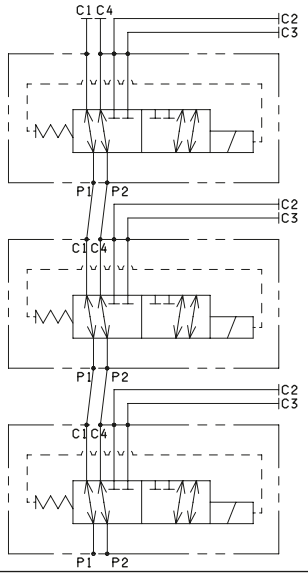
Max. pressure	250 bar
Max. flow	80 l/min
Overlap	negative
Hydraulic fluids	Mineral oils DIN 51524
Fluid viscosity	10 ÷ 500 mm²/s
Fluid temperature	-25°C ÷ 75°C
Ambient temperature	-25°C ÷ 60°C
Max. contamination level	class 10 in accordance NAS with 1638 with filter β_{25} 75
Weight	see "Overall dimension"

HYDRAULIC SYMBOLS

SINGLE ELEMENT



MULTISTATION CONNECTION



ORDERING CODE

CDL	Stackable circuit diverter valve
10	Size NG10
6	No. of way (single element)
*	**W** =Threaded connectors1/2" BSP **U** =Threaded connectors SAE10 7/8"-14 UNF
I	Internal drainage
*	No. of elements: **1 / 2 / 3 / 4 / 5**
*	Voltage (Tab. 1)
**	Variants (Tab. 2)
1	Serial No.

TAB.1 - A16 COIL

DC VOLTAGE **

L	12V	
M	24V	115Vac/50Hz 120Vac/60Hz with rectifier
N	48V*	
P	110V*	
Z	102V*	230Vac/50Hz 240Vac/60Hz with rectifier
X	205V*	
W	Without DC coil	

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

* Special voltage
** Technical data see SECT. A 76

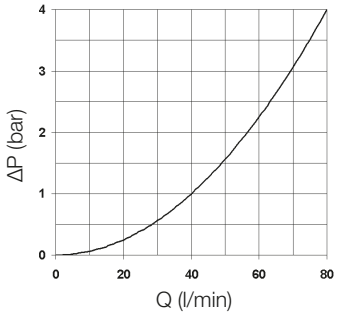
TAB.2 - VARIANTS

No variant (without connectors)	S1(*)
FKM	SV(*)
Emergency button	ES(*)
Rotary emergency button	P2(*)

Other variants available on request.

(*) Coils with Hirschmann connection supplied without connectors. The connectors can be ordered separately, SECT. L 15.

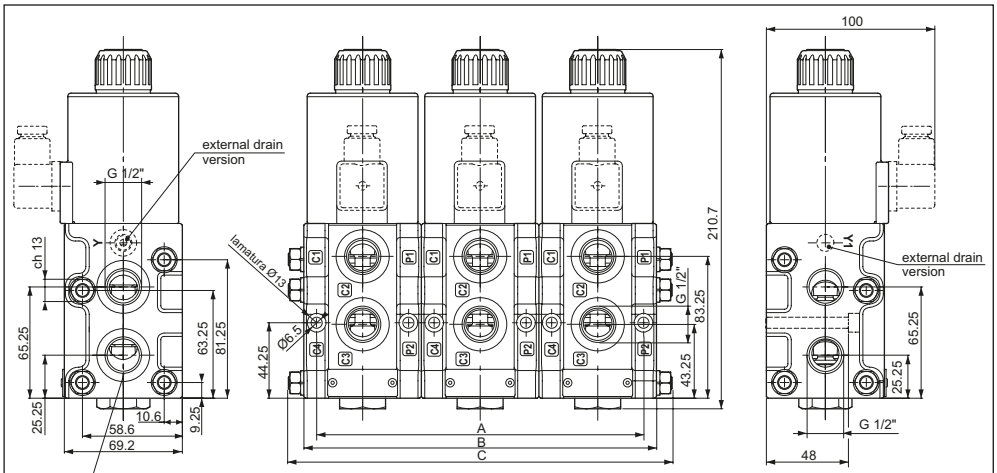
PRESSURE DROPS



——— P1 → C1, P1 → C2, P2 → C3 e P2 → C4

The fluid used is a mineral oil with a viscosity of 46 mm²/s at 40°C; the tests have been carried out at a fluid temperature of 40°C.

OVERALL DIMENSIONS

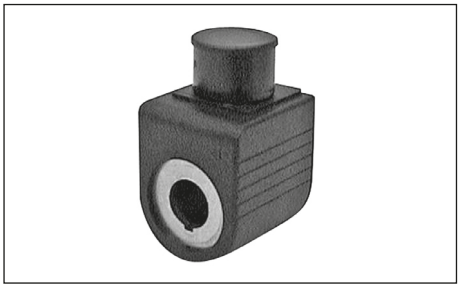


N. 2 O-ring
1/2" BSP: 2-024
SAE10 7/8"-14 UNF:2-025

No. of elements	No. of way	A	B	C	Weight (Kg)	Kit spare part code* (rods and studs)
		Length (mm)				
1	06	54	69	-	4,5	/
2	08	123	138	160	9,3	V89.56.0001
3	10	192	207	226	14	V89.56.0002
4	12	261	276	296	18,5	V89.56.0003
5	14	330	345	365	23,3	V89.56.0004

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

Fixing screws ISO 4762 M6x60
with material specifications min. 8.8
Tightening torque for studs 8 Nm / 0.8 Kgm
Tightening torque for rods 20 Nm / 2 Kgm

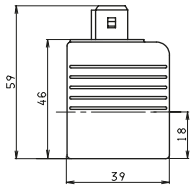


"A09" DC COILS FOR CDL04...

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)

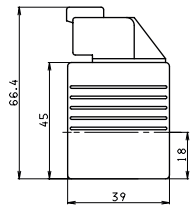


VOLTAGE (V)	MAX WINDING TEMPERATURE (AMBIENT TEMPERATURE 25°C)	RATED POWER (W)	RESISTANCE AT 20°C (OHM) ±7%
12V	123°C	27	5.3
24V	123°C	27	21.3
48V*	123°C	27	85.3
102V(*)(**)	123°C	27	392
110V(*)(**)	123°C	27	448
205V(*)(**)	123°C	27	1577

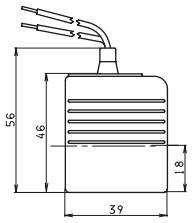
* Special voltages

** 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

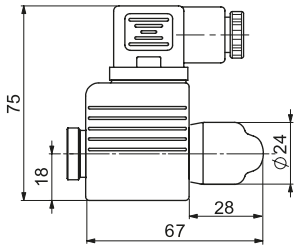


FLYING LEADS (FL) LEADS WITH DIODO (LD)

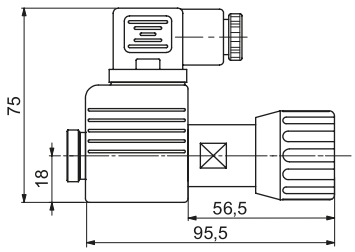


EMERGENCY (COILS WITH HIRSCHMANN CONNECTION)

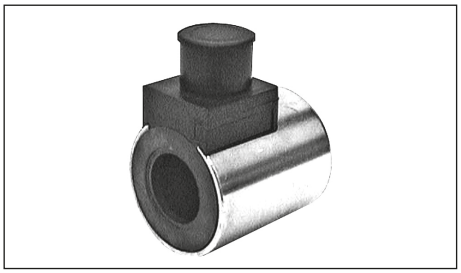
MANUAL WITHOUT CONN. (ES)
MANUAL WITH CONN. (E1)



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



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



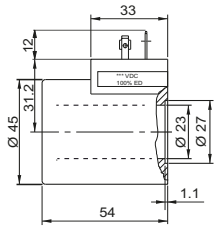
"D15" DC COILS FOR ADL06... AND A66..

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)

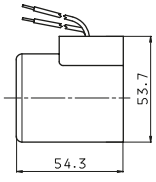


VOLTAGE (V)	MAX WINDING TEMPERATURE (AMBIENT TEMPERATURE 25°C)	RATED POWER (W)	RESISTANCE AT 20°C (OHM) ±10%
12V	110°C	30	4.8
24V	110°C	30	18.8
28V*	110°C	30	25.6
48V*	110°C	30	75.2
102V(*)(**)	110°C	30	340
110V(*)(**)	110°C	30	387
205V(*)(**)	110°C	30	1375

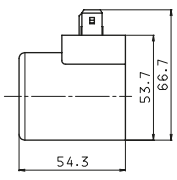
* Special voltages

** 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.

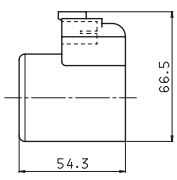
FLYING WITH LEADS COIL (SL)



AMP JUNIOR (AJ) AJ + DIODE (AD)

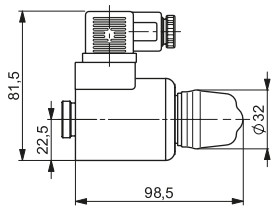


DEUTSCH DT04 - 2P (CZ) CZ + ECOAT (R6)



EMERGENCY (COILS WITH HIRSCHMANN CONNECTION)

MANUAL WITHOUT CONNECTOR (ES)



ROTARY WITHOUT CONNECTOR (P2)

