



CDL046...

"A09" DC COILS CH. I PAGE 73

CONNECTORS STANDARD CH. I PAGE 20

CDL046... 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 ÷ 500 mm ² /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 $\beta_{25} \geq 75$
Weight	see "Overall dimension"

ORDERING CODE

CDL Stackable circuit selector 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	115Vac/50Hz 120Vac/60Hz with rectifier
N	48V*	
P	110V*	230Vac/50Hz 240Vac/60Hz with rectifier
Z	102V*	
X	205V*	
W	Without DC coil	

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

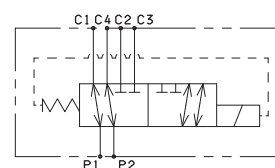
* Special voltage

** Technical data see page I • 68

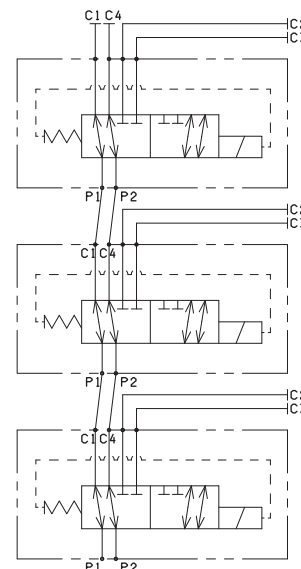
- The AMP Junior coil, the Deutsch coil with bidirectional diode and the coil with flying leads (with or without diode) coils are available in 12V or 24V DC voltage only.

HYDRAULIC SYMBOLS

SINGLE ELEMENT



MULTI STATION CONNECTION



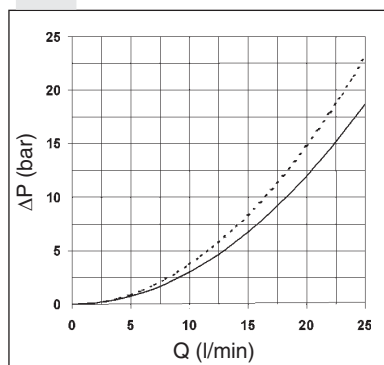
TAB. 2 - VARIANTS

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	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 20.

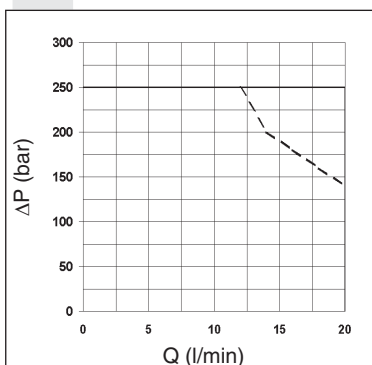
(**) P2 Emergency tightening torque **max. 6÷9 Nm / 0.6 ÷ 0.9 Kg** with CH n. 22

PRESSURE DROPS



— P1 → C1
P1 → C2
- - - P2 → C3
P2 → C4

LIMITS OF USE

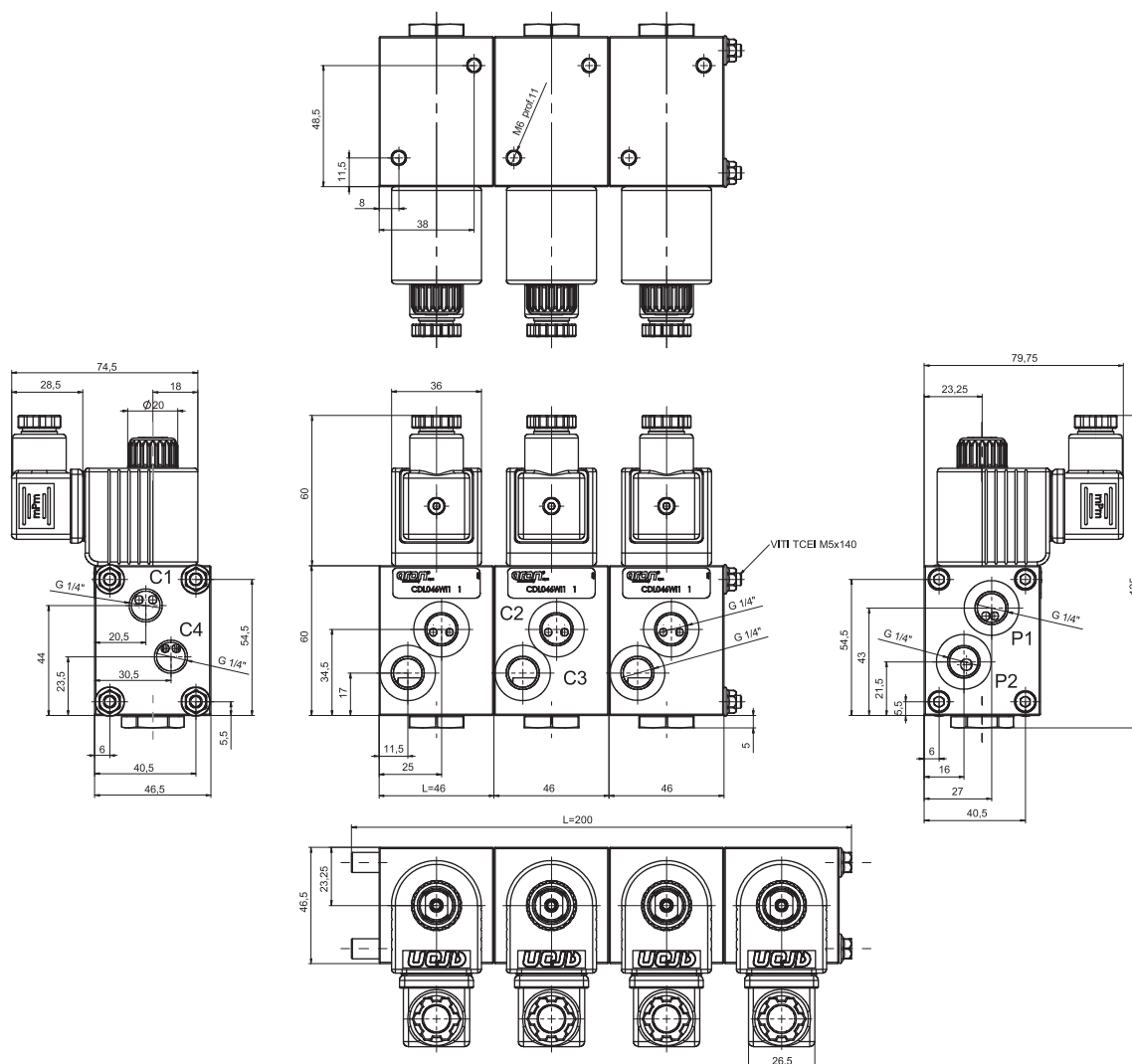


— Energizing
- - - De-energizing

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.

OVERALL DIMENSIONS

1

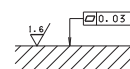


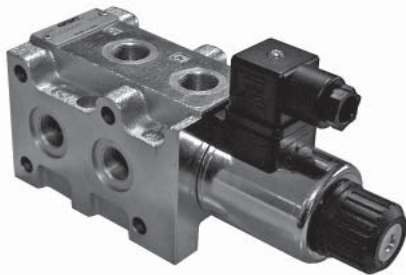
Fixing screws with material specifications min. 8.8
Tighten the screws to a torque of 5 Nm (0.5 Kgm)

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.

Support plane specifications





CDL.06.6...

"40W" DC COILS CH. I PAGE 74

CONNECTORS STANDARD CH. I PAGE 20

ORDERING CODE

CDL Stackable circuit selector valve

06	Size NG06
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6	No. of way (single element)
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W Threaded connectors
3/8" BSP

I Internal drainage

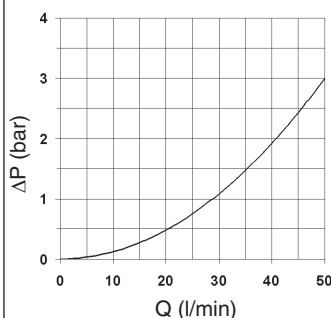
* No. of elements: **1 / 2 / 3 / 4 / 5**

* Voltage (Tab. 1)

** Variants (Tab. 2)

1 Serial No.

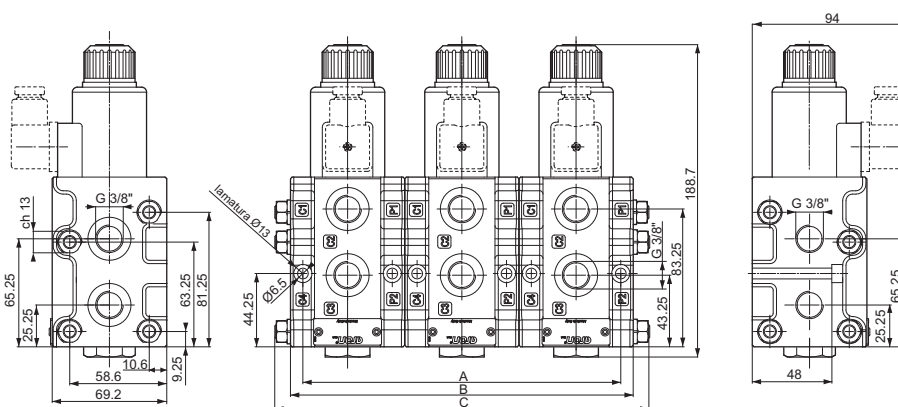
PRESSURE DROPS


$$P1 \rightarrow C1, P1 \rightarrow C2, \\ P2 \rightarrow C3 \text{ et } P2 \rightarrow C4$$

The fluid used is a mineral oil with a viscosity of $46 \text{ mm}^2/\text{s}$ at 40°C ; the tests have been carried out at a fluid temperature of 40°C .

Fixing screws UNI 5931 M6x60
with material specifications min. 8.8
Tightening torque for studs 8 Nm / 0.8 Kgm
Tightening torque for rods 20 Nm / 2 Kgm

OVERALL DIMENSIONS



No. of elements	No. of way	A	B	C	Weight (Kg)	Kit spare part code* (rods and studs)
		Length (mm)				
1	06	54	69	-	3	/
2	08	123	138	160	6,3	V89.56.0001
3	10	192	207	226	9,3	V89.56.0002
4	12	261	276	296	12,3	V89.56.0003
5	14	330	345	365	15,3	V89.56.0004

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

TAB.1 - 40W COIL

DC VOLTAGE

L 12V

M 24V

W Without DC coil

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

TAB.2 - VARIANTS

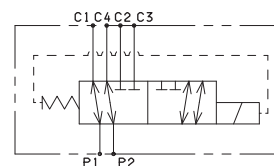
No variant (without connectors)	S1(*)
Viton	SV(*)
Emergency button	ES(*)
Rotary emergency button	P2(*)
Raccordements Deutsch DT04-2P	CZ

Other variants available on request.

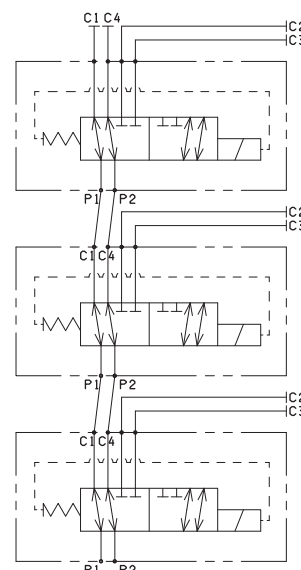
(*) Coils with Hirschmann connection supplied without connectors. The connectors can be ordered separately, Ch. I page 20.

HYDRAULIC SYMBOLS

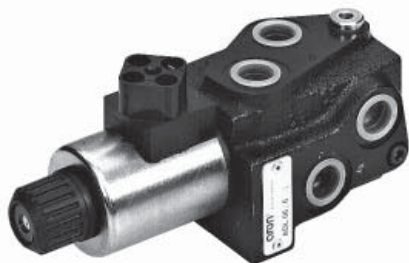
SINGLE ELEMENT



MULTISTATION CONNECTION



ADL066... FLOW DIVERSION VALVES



ADL066...

"D15" DC COILS	CH. I PAGE 73
STANDARD CONNECTORS	CH. I PAGE 20

The 6 way flow diversion valves are special solenoid valves which allow the simultaneous connection of two systems.

In order to obtain valve's working at pressure of 250 bar up to 320 bar (external drainage) the G 1/8" BSP plug must be removed to Y connector.

Max. pressure (without drainage, Y plugged)	250 bar
Max. pressure (external drainage)	320 bar
Max. flow	40 l/min
Overlap	negative
Fluid viscosity	10 ÷ 500 mm ² /s
Fluid temperature	-25°C ÷ 75°C
Ambient temperature	-25°C ÷ 60°C
Max. contamination level	class 10 in accordance with NAS 1638 with filter $\beta_{25} \geq 75$
Weight	2,4 Kg

ORDERING CODE

ADL06	Flow diversion valves NG6
6	No. of way
W	Threaded connectors 3/8"BSP
I	Without drainage Y connector plugged
*	Voltage (see table 1)
**	Variants (see table 2)
3	Serial No.

TAB.2 - VOLTAGE

D15 COIL (30W) **

L	12V
M	24V
V	28V*
N	48V*
Z	102V*
P	110V*
X	205V*
W	Without DC coils and connectors

115Vac/50Hz 120Vac/60Hz with rectifier
230Vac/50Hz 240Vac/60Hz with rectifier

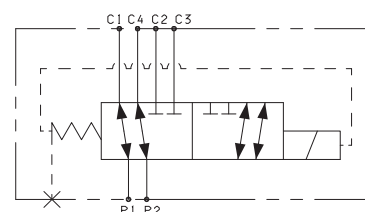
Voltage codes are not stamped on the plate, their are readable on the coils.

* Special voltage

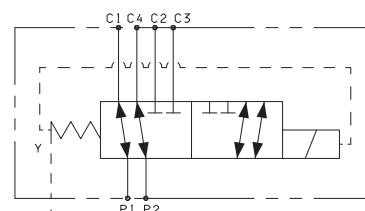
** Technical data see Ch I • 73

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

DRAINS AND HYDRAULIC SYMBOLS



WITHOUT DRAINAGE - Y PLUGGED



EXTERNAL DRAINAGE

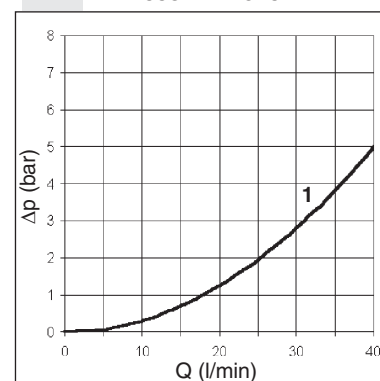
TAB.2 - VARIANTS

No variant (without connectors)	S1(*)
Viton	SV(*)
Emergency button	ES(*)
Rotary emergency button	P2(*)
AMP Junior coil	AJ(*)
AMP Junior coil and integrated diode	AD(*)
Coil with flying leads (175mm)	SL
Deutsch DT04-2P Coil type	CZ
Plastic type coil D15	RS(*)

Other variants available on request.

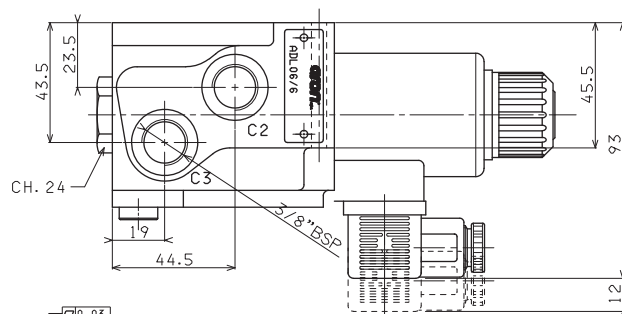
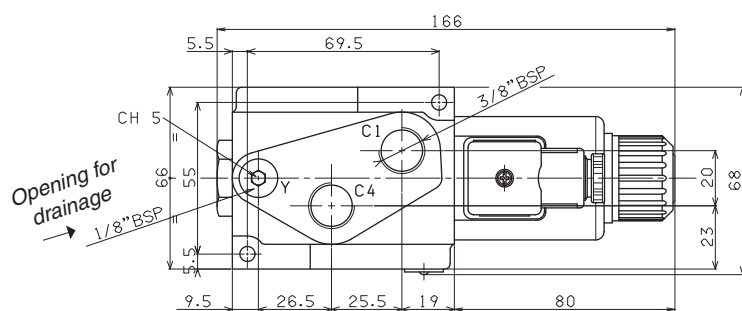
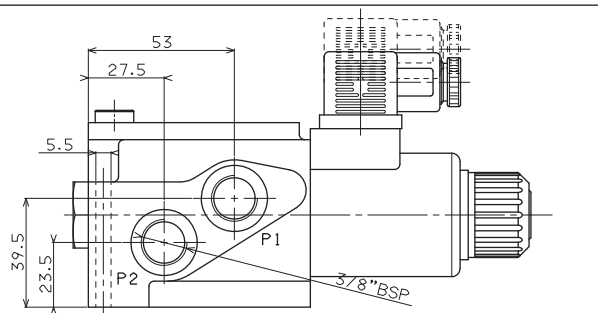
(*) Coils with Hirschmann and AMP Junior connection supplied without connectors. The connectors can be ordered separately, Ch. I page 20.

PRESSURE DROPS



Curve n° 1:

- P1 → C1
- P1 → C2
- P2 → C3
- P2 → C4



Support plane specifications

Fixing screws UNI 5931 M5x60 with material specifications min. 8.8



BDL06.6...

"40W" DC COILS	CH. I PAGE 74
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BDL066... FLOW DIVERSION VALVES



The 6 way flow diversion valves, type BDL.06.6, are special solenoid valves which allow the simultaneous connection of two systems. With all user ports on the same side, these valves allow to simplify the layout of hydraulic plant. As they are moved from high performances solenoids they don't need the external drainage.

This valves can manage high hydraulic powers with a low pressure drop.

Max. pressure	250 bar
Max. flow	50 l/min
Overlap	negative
Hydraulic fluids	Mineral oils DIN 51524
Fluid viscosity	10 ÷ 500 mm ² /s
Fluid temperature	-25°C ÷ 75°C
Ambient temperature	-25°C ÷ 60°C
Max. contamination level	class 10 in accordance with NAS 1638 with filter $\beta_{25} \geq 75$
Weight	3 Kg

ORDERING CODE

BDL	Flow diversion valves
06	Size NG06
6	No. of way
W	Threaded connectors 3/8"BSP
I	Internal drainage
*	Voltage (Tab. 1)
**	Variants (Tab. 2)
1	Serial No.

TAB.1 - 40W COIL

DC VOLTAGE

L	12V
M	24V
N	48V*
W	Without DC coils

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

* Special voltage

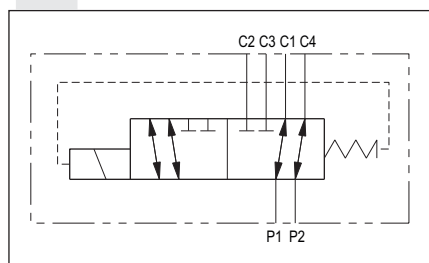
TAB.2 - VARIANTS

No variant (without connectors)	S1(*)
Viton	SV(*)
Emergency button	ES(*)
Rotary emergency button	P2(*)
Deutsch DT04-2P Coil type	CZ

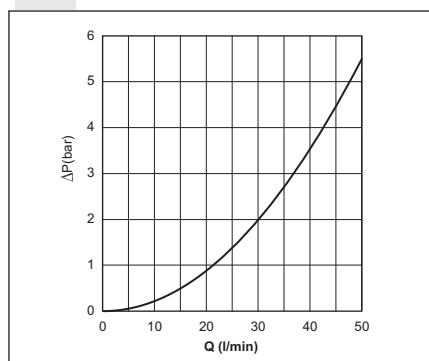
Other variants available on request.

(*) Coils with Hirschmann connection supplied without connectors. The connectors can be ordered separately, Ch. I page 20.

HYDRAULIC SYMBOL



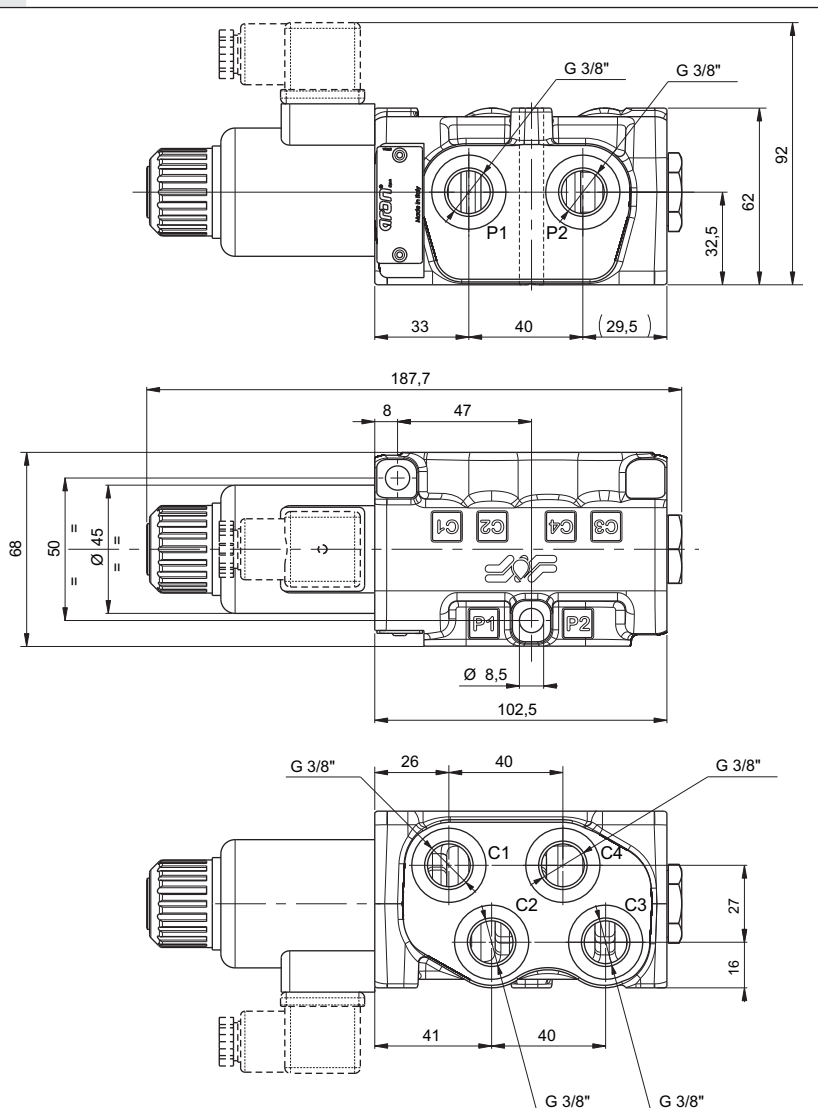
PRESSURE DROPS



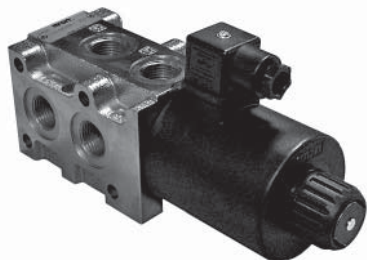
P1 → C1 , P1 → C2
P2 → C4 , P2 → C3

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



Fixing screws UNI 5931 M8x70 with strength class DIN 8.8.
Tightening torque 8 Nm / 0.8 Kgm



CDL106... STACKABLE CIRCUIT SELECTOR VALVES

brevini

The stackable circuit selector 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.

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}^{375} see "Overall dimension"
Weight	

CDL106...

"A16" DC Coils	Ch. I PAGE 74
CONNECTORS STANDARD	Ch. I PAGE 20

ORDERING CODE

CDL	Stackable circuit selector valve
10	Size NG10
6	No. of way (single element)
*	W = Threaded connectors 1/2" 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
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 Ch I • 74

TAB.2 - VARIANTS

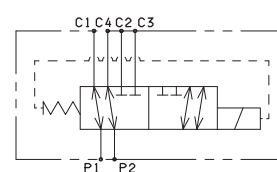
No variant (without connectors)	S1(*)
Viton	SV(*)
Emergency button	ES(*)
Rotary emergency button	P2(*)

Other variants available on request.

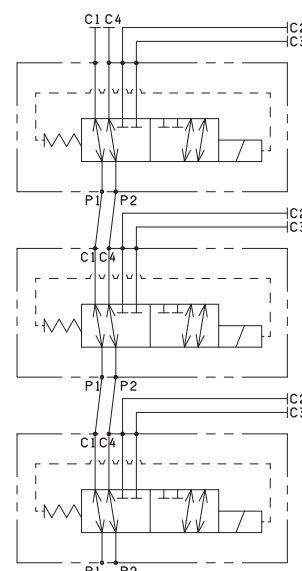
(*) Coils with Hirschmann connection supplied without connectors. The connectors can be ordered separately, Ch. I • 20.

HYDRAULIC SYMBOLS

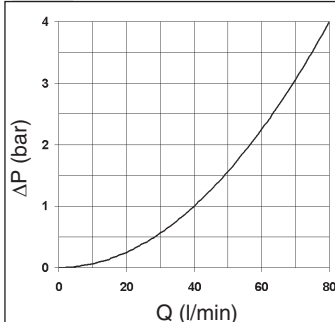
SINGLE ELEMENT



MULTISTATION CONNECTION



PRESSURE DROPS

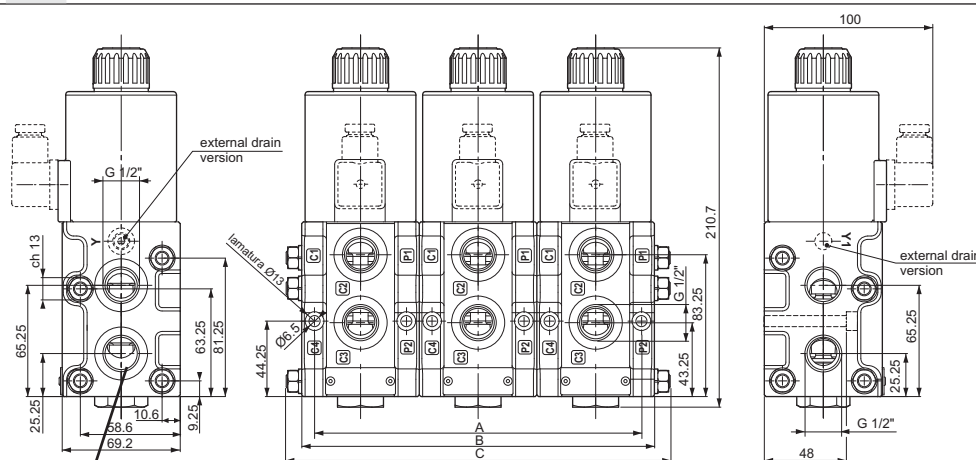


P1 → C1, P1 → C2,
P2 → C3 et P2 → C4

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.

Fixing screws UNI 5931 M6x60
with material specifications min. 8.8
Tightening torque for studs 8 Nm / 0.8 Kgm
Tightening torque for rods 20 Nm / 2 Kgm

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)
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.



ADL106... FLOW DIVERSION VALVES

The 6 way flow diversion valves are special solenoid valves which allow the simultaneous connection of two systems.

In order to obtain valve's working at pressure of 250 bar up to 320 bar (external drainage) the G 1/8" BSP plug must be removed to Y connector.

Max. pressure (without drainage, Y plugged)	250 bar
Max. pressure (external drainage)	320 bar
Max. flow	80 l/min
Fluid viscosity	10 ÷ 500 mm ² /s
Fluid temperature	-25°C ÷ 75°C
Ambient temperature	-25°C ÷ 60°C
Max. contamination level	class 10 in accordance with NAS 1638 with filter $\beta_{25} \geq 75$
Weight	3,6 Kg

ADL106...

"A16" DC Coils	CH. I PAGE 74
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ORDERING CODE

ADL10	Flow diversion valves NG10
6	No. of way
J	Connectors 3/4"BSP
I	Without drainage Y connector plugged
*	Voltage (see table 1)
**	Variants (see table 2)
1	Serial No.

TAB.1 - A16 COIL

DC VOLTAGE **

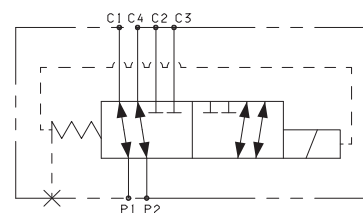
L	12V	115Vac/50Hz 120Vac/60Hz with rectifier
M	24V	
N	48V*	230Vac/50Hz 240Vac/60Hz with rectifier
P	110V*	
Z	102V*	
X	205V*	
W	Without DC coil	

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

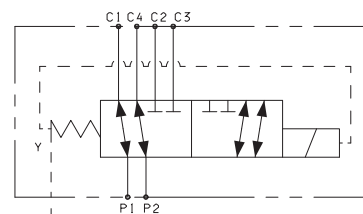
* Special voltage

** Technical data see Ch I • 74

DRAINS AND HYDRAULIC SYMBOLS



WITHOUT DRAINAGE - Y PLUGGED



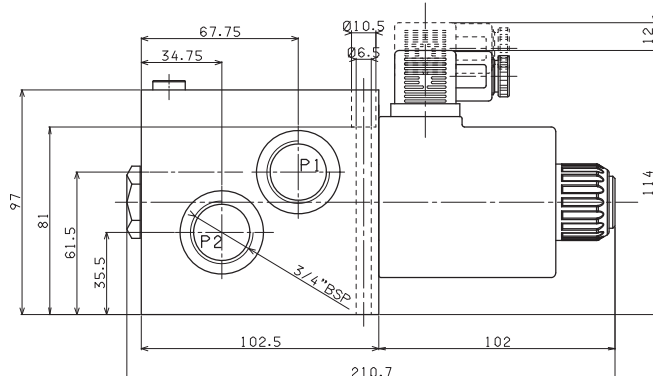
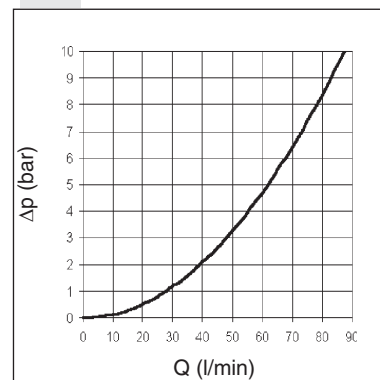
EXTERNAL DRAINAGE

TAB.2 - VARIANTS

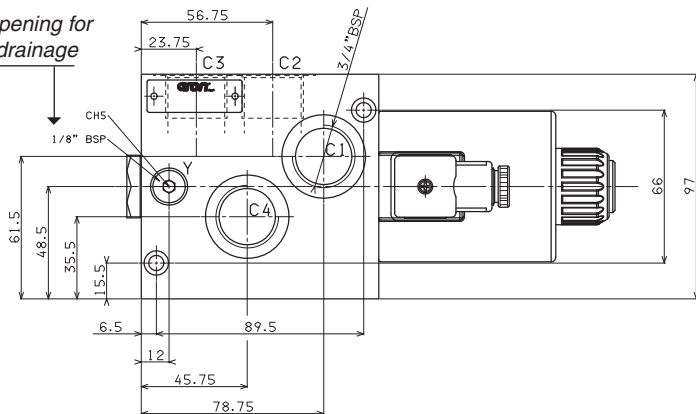
VARIANT	CODE
No variant (without connectors)	S1(*)
Viton	SV(*)
Emergency button	ES(*)
Rotary emergency button	P2(*)
Other variants available on request.	

(*) Coils with Hirschmann and AMP Junior connection supplied without connectors. The connectors can be ordered separately, Ch. I • 20.

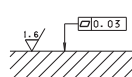
PRESSURE DROPS



Opening for drainage



Support plane specifications



Fixing screws UNI 5931 M6x90 with material specifications min. 8.8