CDL.04.6					
"A09" DC Coils	Ch. I Page 67				
CONNECTORS STANDARD	Ch. I Page 19				

Stackable circuit selector valve

ORDERING CODE

Size NG04

No. of way (single element)

1/4" BSP

Threaded connectors

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

Internal drainage

Voltage (Tab. 1)

Variants (Tab. 2)

Serial No.

CDL

04

6

W

ı

**

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

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.

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 B ₂₅ ≥75			

DC VOLTAGE				
L 12V M 24V N 48V* 115Vac/50Hz 120Vac/60Hz with rectifier				
P 110V* Z 102V* X 205V* With rectifier				
W Without DC coil				
Voltage codes are not stamped on the plate, their are readable on the coils.				
* Special voltage				

- The AMP Junior coil and with the flying able in 12V or 24V DC voltage only.
- The Deutsch coil with bidirectional diode is available in 12V DC voltage only.

TAB. 2 - VARIANTI

VARIANTE	CODE
No variant	00
Viton	V1
Pilot light	X1
Rectifier	R1
Solenoid valve without connectors	S1
Cable gland "PG 11"	C1
Viton + Pilot light	VX
Viton + Rectifier	VR
Pilot light + Rectifier	XR
Rotary emergency button	P1(*)
Emergency button	E1
AMP Junior connection	AJ
Bobina con fili (250 mm)	FL
with flying leads (130 mm) and integr. dioc	de LD
Deutsch connection with bidir. diode	CX
Other variants relate to a special design.	

Tab.1 - A09 (27 W) Coll

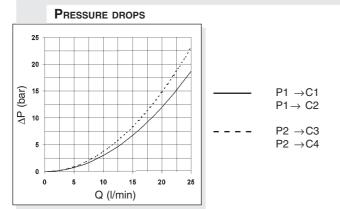
Weight

DC VOLTAGE				
L M N	12V 24V 48V*	115Vac/50Hz 120Vac/60Hz with rectifier		
P Z X	110V* 102V*← 205V*←	230Vac/50Hz 240Vac/60Hz with rectifier		
W Without DC coil				
Voltage codes are not stamped on the plate, their are readable on the coils.				
* Special voltage				

leads (with or without diode) coils are avail-

VARIANTE	CODE
No variant	00
Viton	V1
Pilot light	X1
Rectifier	R1
Solenoid valve without connectors	S1
Cable gland "PG 11"	C1
Viton + Pilot light	VX
Viton + Rectifier	VR
Pilot light + Rectifier	XR
Rotary emergency button	P1(*)
Emergency button	E1
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

(*) P1 Emergency tightening torque max. 6÷9 Nm / 0.6 ÷ 0.9 Kgm with CH n. 22

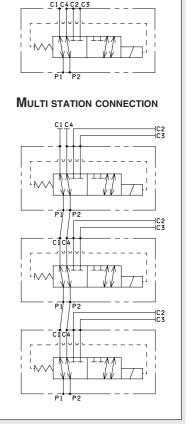


Leakages: ≤10 cc/min with rest carried out at a fluid temperature of 40°C with a pressure at 200 bar; the fluid used was a mineral based oil with viscosity of 46 mm2/s at 40° C.

LIMITS OF USE 300 250 200 (bar) Energizing 150 Δ De-energizing 50 0 10 20 Q (I/min)

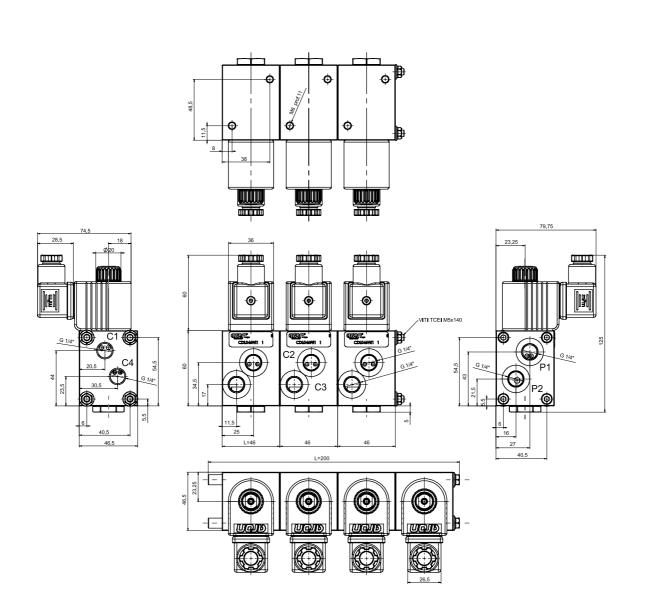
The tests have been carried out with solenoids at operating temperature and a voltage 10% less than rated voltage with a fluid temperature of 50 C°. The fluid used was a mineral oil with a viscosity of 46 mm²/s at 40 degrees C.

see "Overall dimension"





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.



CDL.06.6					
"40W" DC Coils	Ch. I Page 68				
CONNECTORS STANDARD	Ch. I Page 19				

ORDERING CODE

CDL

Stackable circuit selector valve

06

Size NG06

6

No. of way (single element)

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.

CDL.06.6... STACKABLE CIRCUIT SELECTOR VALVES



The stackable circuit selector valves. type CDL.06.6, allows one single drive of 6 users with 5 elements connected

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 50 l/min Max. flow 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 $\beta_{25} \ge 75$ Weight see "Overall dimension"

Tab.1 - 40W Coil

DC VOLTAGE

12V М 24V

Without DC coil w

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

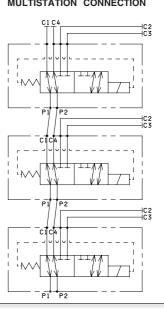
TAB.2 - VARIANTS

No variant	00
(connectors as in the drawing)	
Viton	V1
Pilot light	X1
Rectifier	R1
Valve without connector (coil)	S1
Viton + Pilot light	VX
Viton + Rectifier	VR
Pilot light + Rectifier	XR
Emergency button	E1
Rotary emergency button	P1
Raccordements Deutsch DT04-2P	CZ

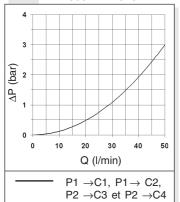
HYDRAULIC SYMBOLS

SINGLE ELEMENT

MULTISTATION CONNECTION



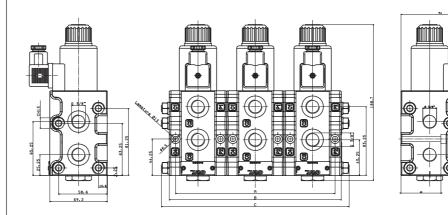
PRESSURE DROPS



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



No. of	No. of	Α	В	С	Weight	Kit spare part code*		
elements	way	Lengths (mm)		Lengths (mm) (Kg)		(Kg)	(rods and studs)	
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	25,3	V89.56.0004		

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

000

ADL06.6					
Ch. I page 67					
Ch. I page 19					

ADL06.6... 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 (exeternal drainge) the G 1/8" BSP plug must be removed to Y connector.

Max. pressure (without drainage, \	/ pluged)	250 bar
Max. pressure (external drainage	e)	320 bar
Max. flow		40 l/min
Overlap		negative
Fluid viscosity	10 ÷ 50	00 mm ² /s
Fluid temperature	-25°	C ÷ 75°C
Ambient temperature	-25°	C ÷ 60°C
Max. contamination level clas	s 10 in ac	cordance
with NAS 163	38 with filt	er ß₂₅≥75
Weight		2,4 Kg

ORDERING CODE

ADL06 Flow diversion valves NG6
No. of way
Threaded connectors 3/8"BSP
Without drainage Y connector pluged

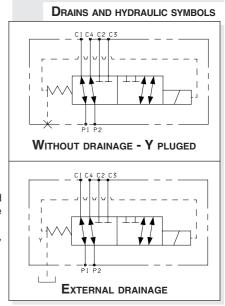
* Voltage (see table 1)

** Variants (see table 2)

Serial No.

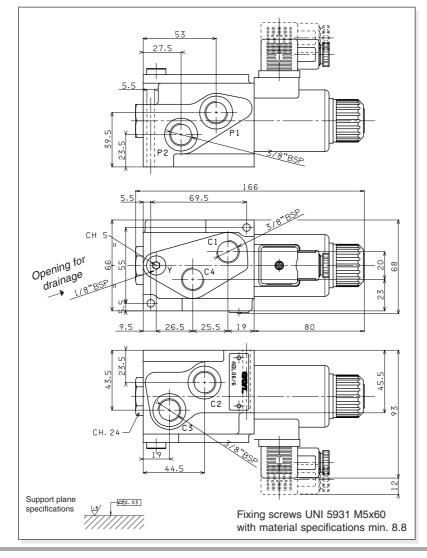
TAB.2 - VOLTAGE D15 Coil (30W) 12V 24V M 115Vac/50Hz 28V* 120Vac/60Hz with rectifier Ν 48V* Z 102V* 230Vac/50Hz 110V* 240Vac/60Hz with rectifier Χ 205V* w Without DC coils and connectors Voltage codes are not stamped on the plate, their are readable on the coils. * Special voltage

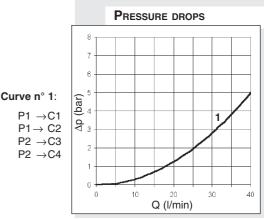
- AMP Junior (with or without diode) and Deutsch and with flying leads coils, are available in 12V or 24V DC voltage only.
- Plastic type coils are available in 12V, 24V, 28V or 110V DC voltage only.



TAB.2 - VARIANTS

No variant (connectors as in the drawing) Viton Pilot light Rectifier Flow diversion without connector (coil) Emergency button Rotary emergency button	00
Pilot light Rectifier Flow diversion without connector (coil) Emergency button Rotary emergency button	
Rectifier Flow diversion without connector (coil) Emergency button Rotary emergency button	V1
Flow diversion without connector (coil) Emergency button Rotary emergency button	X1
Emergency button Rotary emergency button	R1
Rotary emergency button	S1
, , ,	E1
A Chair Dillat Barba	P1
Viton + Pilot light	VX
Viton + Rectifier	VR
Pilot light + Rectifier	XR
AMP Junior coil	AJ
AMP Junior coil and integrated diode	AD
Coil with flyning leads (175mm)	SL
Deutsch DT04-2P Coil type	CZ
Plastic type coil	BR





Leakages: \leq 10 cc/min with rest carried out at a fluid temperature of 40°C with a pression at 200 bar; the fluid used was a mineral based oil with viscosity of 46 mm²/s at 40° C.

CDL.10.6

"A16" DC Coils	Ch. I Page 68
CONNECTORS STANDARD	CH. I PAGE 19

ORDERING CODE

CDL

Stackable circuit selector valve

10

Size NG10

6

No. of way (single element)

W

Threaded connectors 1/2" BSP

Internal drainage

*

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

*

Voltage (Tab. 1)

**

Variants (Tab. 2)

1

Serial No.

CDL.10.6... STACKABLE CIRCUIT SELECTOR VALVES



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

Ambient temperature $-25^{\circ}\text{C} \div 60^{\circ}\text{C}$ Max. contamination level class 10 in accordance

NAS with 1638 with filter Ω_{sc}^{375}

Weight see "Overall dimension"

TAB.1 - A16 COIL

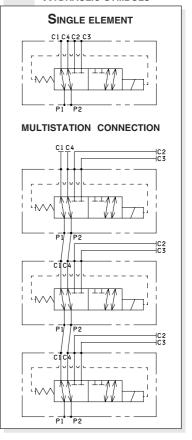
DC VOLTAGE 12V 115Vac/50Hz М 24V 120Vac/60Hz with rectifier Ν 48V* Р 110V* 230Vac/50Hz Z 102V***∢** 240Vac/60Hz X 205V***∢** with rectifier Without DC coil Voltage codes are not stamped on the plate, their are readable on the coils. * Special voltage

TAB.2 - VARIANTS

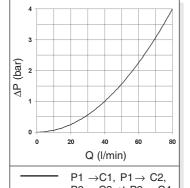
171512 17111111111	
No variant	00
(connectors as in the drawing)	
Viton	V1
Pilot light	X1
Rectifier	R1
Valve without connector (coil)	S1
Viton + Pilot light	VX
Viton + Rectifier	VR
Pilot light + Rectifier	XR
Emergency button	E1
Rotary emergency button	P1

HYDRAULIC SYMBOLS

-25°C ÷ 75°C



PRESSURE DROPS



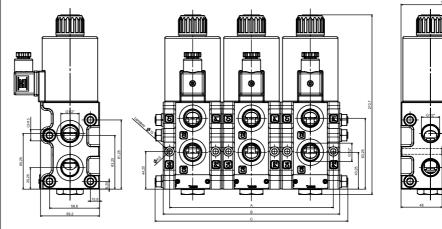
P2 \rightarrow C3 et P2 \rightarrow C4

The fluid used is a mineral oil with

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



No. of	No. of	Α	В	С	Weight	Kit spare part code*
elements	way	Le	ngths (m	m)	(Kg)	(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.

ADL10.6... FLOW DIVERSION VALVES



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

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 mm²/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 $\beta_{25} \ge 75$ Weight 3,6 Kg

ADL10.6	
"A16" DC Coils	Ch. I page 68
STANDARD CONNECTORS	Ch. I page 19

ORDERING CODE

ADL10

Flow diversion valves NG10

6

Connectors 3/4"BSP

No. of way

J I

Without drainage Y connector plugged

*

Voltage (see table 1)

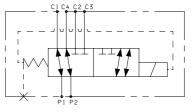
**

Variants (see table 2)

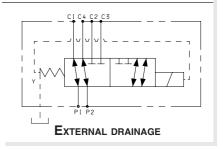
1 Serial No.

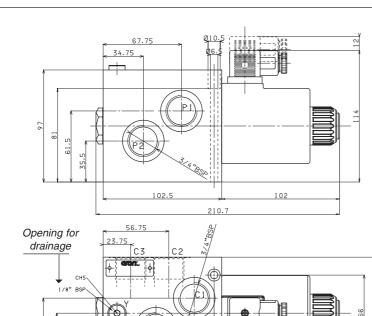
TAB.1 - A16 COIL **DC** VOLTAGE 12V M 24V 120Vac/60Hz with rectifier Ν 48V* Р 110V* 230Vac/50Hz Z 102V***←** 240Vac/60Hz with rectifier 205V***←** w Without DC coil Voltage codes are not stamped on the plate, their are readable on the coils. * Special voltage

DRAINS AND HYDRAULIC SYMBOLS



WITHOUT DRAINAGE - Y PLUGGED





TAB.2 - VARIANTS

VARIANT	CODE
No variant (connectors as in the drawing)	00
Viton	V1
Pilot light	X1
Rectifier	R1
Flow diversion without connector (coil)	S1
Viton + Pilot light	VX
Viton + Rectifier	VR
Pilot light + Rectifier	XR
Emergency button	E1
Rotary emergency button	P1

PRESSURE DROPS ∆p (bar) 30 40 50 60 70 80 90 Q (I/min)



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

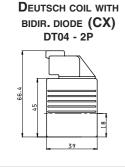


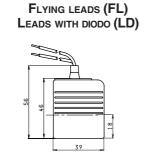
Type of protection	
(in relation to connector used)	IP 65
Number of cycle	18.000/h
Supply tolerance	±10%
Ambient temperature	-30°C ÷ 60°C
Duty cycle	100% ED
Insulation class	Н
Weight	0,215 Kg

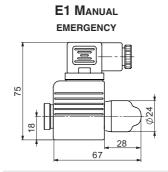
- The AMP Junior coil and with the flying leads (with or without diode) coils are available in 12V or 24V DC voltage only.
- The Deutsch coil with bidirectional diode is available in 12V DC voltage only.

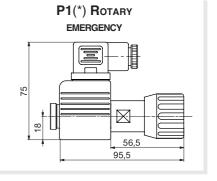
AMP JUNIOR (AJ)		
\$ 39 \$ 00 \$ 00 \$ 00 \$ 00 \$ 00 \$ 00 \$ 00 \$ 0		

Voltage (V)	Max winding temperature (Ambient temperature 25°C)	RATED POWER 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 volta	ages	ETA09/AI	02-CDL04-C3V - 04/2001/e









(*) P1 Emergency tightening torque max. 6÷9 Nm / 0.6 ÷ 0.9 Kgm with CH n. 22



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

"D15" DC coils for ADL06... AND A.66..

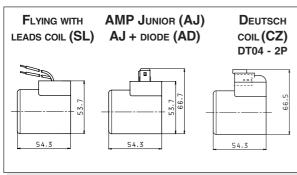


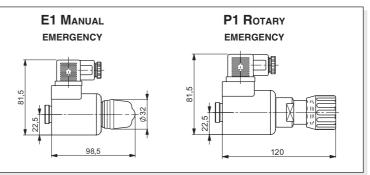
Type of protection	
(in relation to the connector used)	IP 66
Number of cycles	18.000/h
Supply tolerance	±10%
Ambient temperature	-54°C ÷ 60°C
Duty cycle	100% ED
Insulation class	Н
Weight	0,354 Kg

- 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.

PLASTIC COIL (BR)
9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9

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		ETD15/ADL06-A66 - 04/2001/	

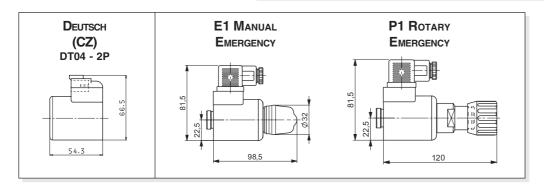




"40W" DC coils for CDL06...



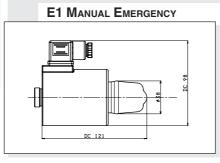
Voltage (V)	Max. winding temperature (Ambient temperature 25°C)	RATED POWER (W)	RESISTANCE AT 20°C (OHM) ±10%
12V	135°C	40	3.6
24V	135°C	40	14.4
			IT40W - 02/2004/e

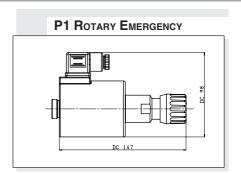




"A16" DC coils for ADL10 and CDL10







Type of protection (in relation to the connector used)	IP 65
Number of cycles	18.000/h
Supply tolerance	±10%
Ambient temperature	-30°C ÷ 60°C
Duty cycle	100% ED
Insulation class	Н
Weight	0,9 Kg

Voltage (V)	Max. winding temperature (Ambient temperature 25°C)	RATED POWER (W)	RESISTANCE AT 20°C (OHM) ±7%
12V	106°C	45	3.2
24V	113°C	45	12,4
48V*	-	45	-
102V*	-	45	-
110V*	118°C	45	268
205V*	-	45	-
(*) Special voltage			ETA16 - 03/2002/e