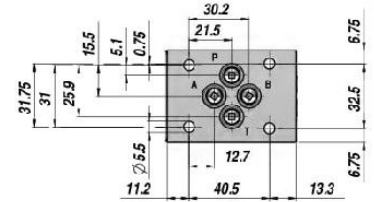
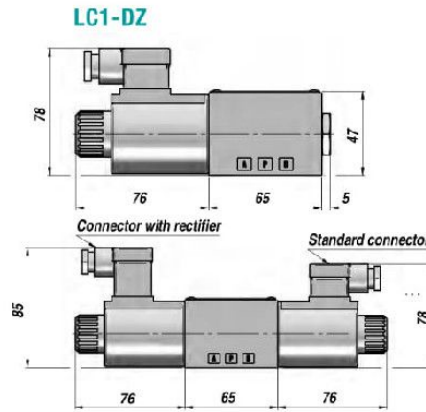
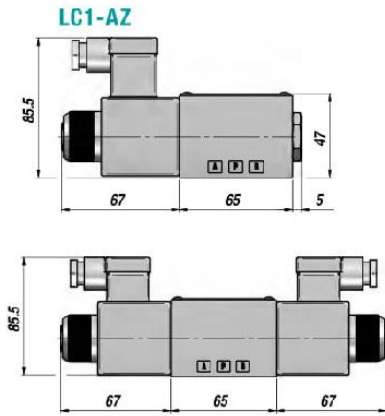
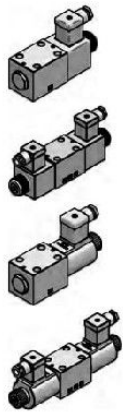


LC1

CETOP 3

ELECTROVANNE
SOLENOID OPERATED DIRECTIONAL VALVE

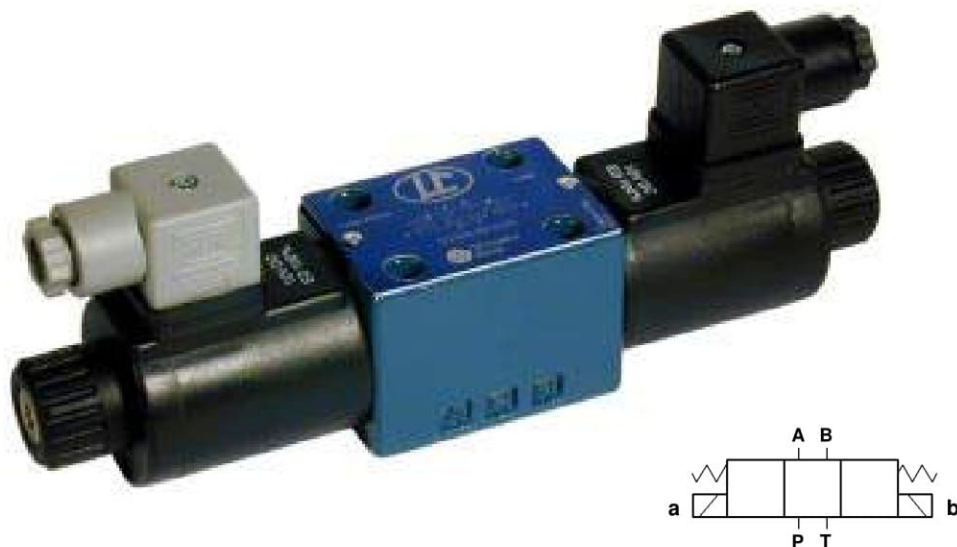


Code Code	Type Type	Tension Voltage	Symbole Hydraulique Hydraulic Symbol	Q MAX l/min	P MAX bar	kg
EL10A02002450	LC1-A201 AZ	24/50VAC		60	250	1,66
EL10A02011050	LC1-A201 AZ	110/50VAC		"	"	1,66
EL10A02022050	LC1-A201 AZ	220/50VAC		70	310	1,82
EL10A02012VDC	LC1-A201 DZ	12VDC		"	"	1,82
EL10A02024VDC	LC1-A201 DZ	24VDC	A201 (ex A2)	"	"	1,82
EL10B02002450	LC1-B201 AZ	24/50VAC		60	250	1,66
EL10B02011050	LC1-B201 AZ	110/50VAC		"	"	1,66
EL10B02022050	LC1-B201 AZ	220/50VAC		70	310	1,82
EL10B02012VDC	LC1-B201 DZ	12VDC		"	"	1,82
EL10B02024VDC	LC1-B201 DZ	24VDC	B201 (ex B2)	"	"	1,82
EL10C02002450	LC1-C201 AZ	24/50VAC		60	250	1,66
EL10C02011050	LC1-C201 AZ	110/50VAC		"	"	1,66
EL10C02022050	LC1-C201 AZ	220/50VAC		70	310	1,82
EL10C02012VDC	LC1-C201 DZ	12VDC		"	"	1,82
EL10C02024VDC	LC1-C201 DZ	24VDC	C201 (ex C2)	"	"	1,82
EL10E02002450	LC1-E201 AZ	24/50VAC		60	250	1,66
EL10E02011050	LC1-E201 AZ	110/50VAC		"	"	1,66
EL10E02022050	LC1-E201 AZ	220/50VAC		70	310	1,82
EL10E02012VDC	LC1-E201 DZ	12VDC		"	"	1,82
EL10E02024VDC	LC1-E201 DZ	24VDC	E201 (ex E2)	"	"	1,82
EL10A11S02450	LC1-A301 AZ	24/50VAC		60	250	1,25
EL10A11S11050	LC1-A301 AZ	110/50VAC		"	"	1,25
EL10A11S22050	LC1-A301 AZ	220/50VAC		70	310	1,33
EL10A11S12VDC	LC1-A301 DZ	12VDC		"	"	1,33
EL10A11S24VDC	LC1-A301 DZ	24VDC	A301 (ex A11S)	"	"	1,33
EL10A11C02450	LC1-Y301 AZ	24/50VAC		60	250	1,25
EL10A11C11050	LC1-Y301 AZ	110/50VAC		"	"	1,25
EL10A11C22050	LC1-Y301 AZ	220/50VAC		70	310	1,33
EL10A11C12VDC	LC1-Y301 DZ	12VDC		"	"	1,33
EL10A11C24VDC	LC1-Y301 DZ	24VDC	Y301 (ex A11C)	"	"	1,33
EL10B11C02450	LC1-B301 AZ	24/50VAC		60	250	1,25
EL10B11C11050	LC1-B301 AZ	110/50VAC		"	"	1,25
EL10B11C22050	LC1-B301 AZ	220/50VAC		70	310	1,33
EL10B11C12VDC	LC1-B301 DZ	12VDC		"	"	1,33
EL10B11C24VDC	LC1-B301 DZ	24VDC	B301 (ex B11C)	"	"	1,33
EL10C11A02450	LC1-C301 AZ	24/50VAC		60	250	1,25
EL10C11A11050	LC1-C301 AZ	110/50VAC		"	"	1,25
EL10C11A22050	LC1-C301 AZ	220/50VAC		70	310	1,33
EL10C11A12VDC	LC1-C301 DZ	12VDC		"	"	1,33
EL10C11A24VDC	LC1-C301 DZ	24VDC	C301 (ex C11A)	"	"	1,33

SUR DEMANDE - ON REQUEST : VALVES MODULAIRES POUR ELECTROVANNES CETOP 3 - MODULAR VALVES FOR SOLENOID OPERATED DIRECTIONAL VALVES CETOP 3

LC1AZ - LC1DZ

Elettrovalvole dirette controllo direzione
Solenoid operated directional valves



CARATTERISTICHE TECNICHE

Grandezza: NG6 ISO 4401 - 03 CETOP RP121 H-03 (CETOP 3)

LC1AZ - CORRENTE ALTERNATA: Portata massima : 60 l/min
Pressione massima d'esercizio su A-B-P: 250bar
Pressione massima in T: dinamica=160 bar - statica=180 bar

LC1DZ - CORRENTE CONTINUA: Portata massima : 70 l/min
Pressione massima d'esercizio su A-B-P: 310bar
Pressione massima in T: dinamica=250 bar - statica=310 bar

TECHNICAL CHARACTERISTICS

Size: NG6 ISO 4401 - 03 CETOP RP121 H-03 (CETOP 3)

*LC1AZ - A.C. VERSION: Max flow : 60 l/min
Max operating pressure on A-B-P: 250bar
Max pressure in T: dynamic=160 bar - static=180 bar*

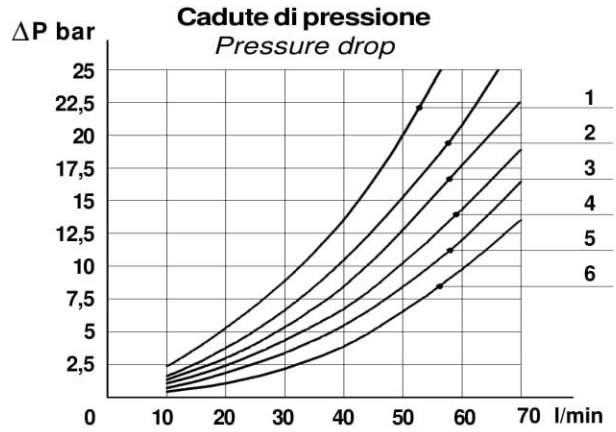
*LC1DZ - D.C. VERSION: Max flow : 70 l/min
Max operating pressure on A-B-P: 310bar
Max pressure in T: dynamic=250 bar - static=310 bar*

TIPI DI CIRCUITI • SPOOL TYPES

Nuovo codice <i>New code</i>	Vecchia sigla <i>Old code</i>	Simbolo <i>Circuit</i>	Direzione del flusso durante il passaggio al centro <i>Oil direction during shift</i>	Nuovo codice <i>New code</i>	Vecchia sigla <i>Old code</i>	Simbolo <i>Circuit</i>	Direzione del flusso durante il passaggio al centro <i>Oil direction during shift</i>
W				W			
X301	A11A			X401	A12A		
Y301	A11C			Y401	A12C		
A301	A11S			A401	A12S		
A361	A14S			A471	A13S		
B301	B11C			B471	B12C		
B361	B14C			B401	B13C		
C301	C11A			C471	C12A		
C361	C14A			C401	C13A		
D301	D11C			D471	D12C		
D361	D14C			D401	D13C		
E301	E11C			E401	E12C		
E361	E14C			E471	E13C		
K301	K11C			K401	K12C		
N301	N11C			N401	N12C		
T301	T11C			T409	T12C		
T361	T13C			T479	T14C		
U369	U11C						
W				W			
A201	A2			L201	M2A		
B201	B2			M201	M2C		
C201	C2			N201	N2		
D201	D2						
E201	E2						
E2R1	ER			W			
F201	F2						
G201	G2			L501	M2A/D		
G209	H2			M501	M2C/D		
K201	K2			N501	N2/D		
K209	R2						
U201	U2						

CARATTERISTICHE TECNICHE • TECHNICAL FEATURES

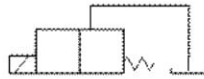
Tipo di circuito <i>Spool type</i>	Nr. di riferimento <i>Reference number</i>				
	P>T	P>A	P>B	A>T	B>T
A2 - A11S - A12S - A13S - A14S G2 - H2	2	1	1	1	1
B2 - B11C - B12C - B13C - B14C M2A - M2C - U2		4	4	4	4
C2 - C11A - C12A - C13A - C14A	6	5	5	6	6
D2 - D11C - D12C - D13C - D14C		6	6	5	5
E2 - E11C - E12C - E13C - E14C T11C - T12C		5	5	6	6
K2 - R2		5	5	3	3
A11A - A12A - A11C - A12C		4	4	4	4
N11C - N12C - N2		4	4		



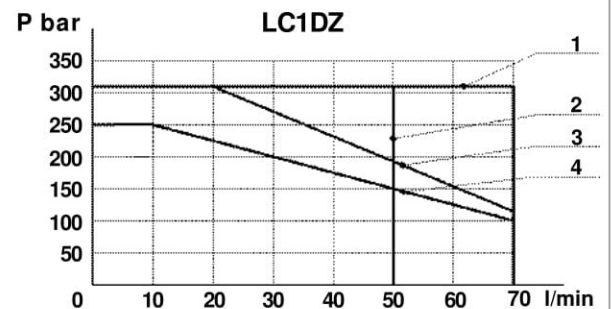
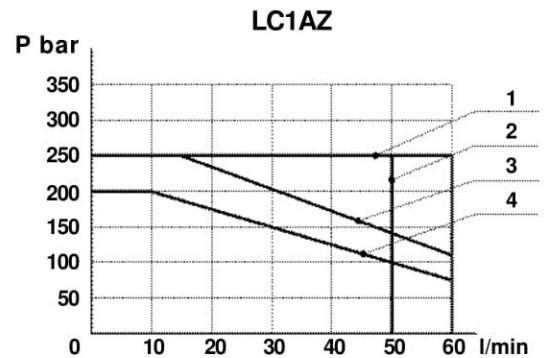
Tipo di circuito <i>Spool type</i>	Nr. di riferimento <i>Reference number</i>
B2 - B11C - B12C - B13C B14C - C2 - C11A - C12A C13A - C14A - T12C - D2 D11C - D12C - D13C D14C - E2 - E11C - E12C E13C - E14C - T11C	1
A2 - A11S - A12S - A13S A14S - G2 - H2 - K2 - R2	2
A11A - A12A - A11C A12C - M2C - M2A - U2	3
N11C - N12C - N2	4

I valori indicati nel grafico non sono validi se l'elettrovalvola è utilizzata in applicazioni con collegamenti 2 o 3 vie.

The values indicated in the graph are not valid if the solenoid valve is used in applications with 2 or 3 way connections.



Portate massime in funzione della pressione *Maximum flows depending on pressure*



Tempi di commutazione

(rilevati con 40 l/min e 150 bar)

Shifting time

(taken with 40 l/min and 150 bar)

c.c. - DC

Eccitazione
Energised
30÷50ms

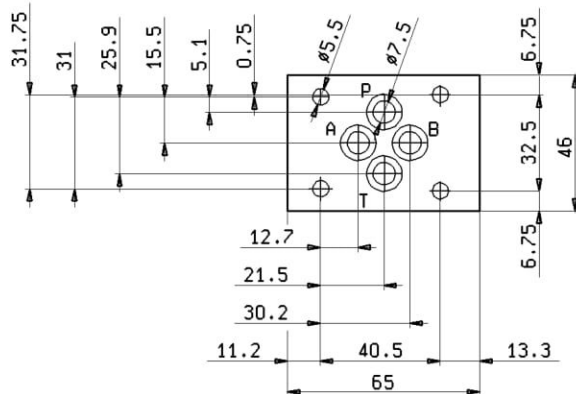
Diseccitazione
De-energised
40÷60ms

c.a. - AC

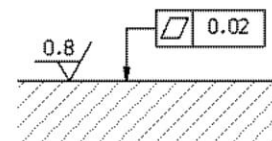
Eccitazione
Energised
10÷30ms

Diseccitazione
De-energised
20÷50ms

GRANDEZZA • SIZE : NG6 ISO 4401-03 CETOP RP 121H- 03 (CETOP 3)

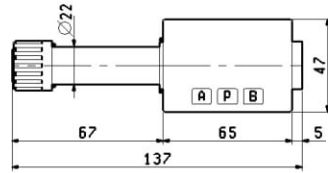


Qualità superficie di attacco *Mounting plane quality*

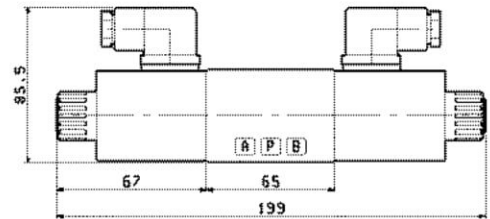
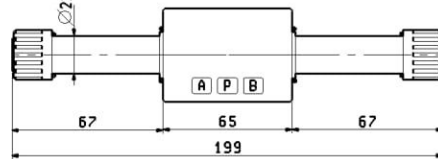
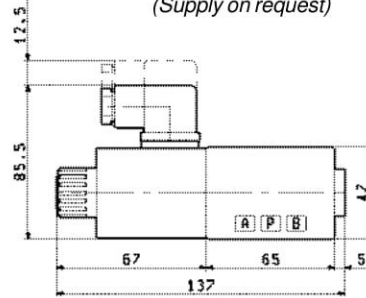


DIMENSIONI DI INGOMBRO • OVER-ALL DIMENSIONS

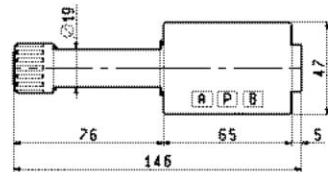
Elettrovalvola 4 vie 2/3 posizioni.
(Fornitura standard)
Solenoid valve 4 way 2/3 positions.
(Standard supply)



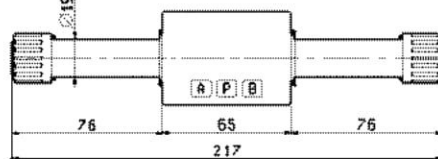
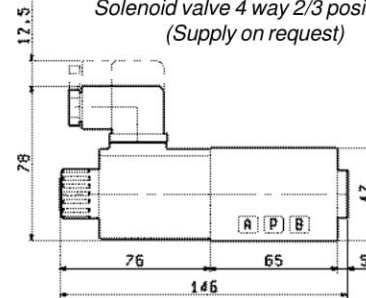
Elettrovalvola 4 vie 2/3 posizioni.
(Fornitura su richiesta)
Solenoid valve 4 way 2/3 positions.
(Supply on request)



Elettrovalvola 4 vie 2/3 posizioni.
(Fornitura standard)
Solenoid valve 4 way 2/3 positions.
(Standard supply)

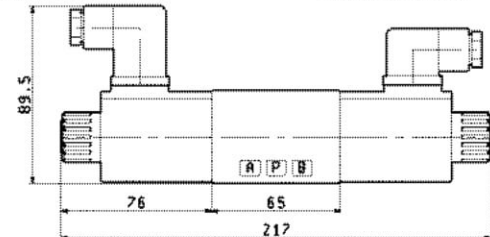


Elettrovalvola 4 vie 2/3 posizioni.
(Fornitura su richiesta)
Solenoid valve 4 way 2/3 positions.
(Supply on request)



Connettore con raddrizzatore
Connector with rectifier

Connettore standard
Standard connector



TIPO
TYPE:
LC1-AZ

Pesi <i>Weights</i>	
Elettrovalvola con 1 solenoide: <i>With 1 solenoid :</i>	1.25 kg
Elettrovalvola con 2 solenoidi: <i>With 2 solenoids :</i>	1.66 kg

TIPO
TYPE:
LC1-DZ

Pesi <i>Weights</i>	
Elettrovalvola con 1 solenoide: <i>With 1 solenoid :</i>	1.33 kg
Elettrovalvola con 2 solenoidi: <i>With 2 solenoids :</i>	1.82 kg

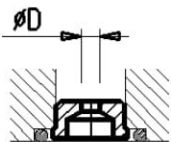
Strozzatore per utilizzi P,T,A,B
Flow restrictor for P,T,A,B ports

Ø D
mm

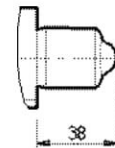
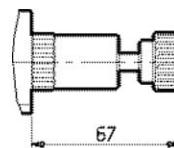
Codice
Designation code

Comando manuale di emergenza a vite
Screwed manual override
EF Cod.: LC1DZ EF

Comando manuale di emergenza a pulsante
Push-button manual override
EP Cod.: 271-05099



0.8	50-0500
1.0	50-0501
1.2	50-0502
1.5	50-0503
2.0	50-0504



MOMENTI MASSIMI DI SERRAGGIO • MAXIMUM BLOCKING TORQUE

Serraggio canotto <i>Tube mounting</i>	Serraggio ghiera blocco bobina <i>Retainer nut blocking torque</i>	Viti di fissaggio <i>Fixing screws</i>
LC1AZ ch. 13mm: 22+24Nm	5+6Nm	N°4 DIN 912-8.8 M5x30: 5+6Nm
LC1DZ ch. 16mm: 22+24Nm		

SOLENOIDI • SOLENOIDS

LC1AZ

Le elettrovalvole LC1AZ montano i solenoidi K14 costruiti per alimentazione in corrente alternata, con frequenze di 50 o 60Hz.

Frequenza di inserzione: 4Hz.

Sui solenoidi K14 sono montate le bobine K14-2053... nelle diverse versioni, per ulteriori informazioni tecniche vedere a pagina 2.50.07.

The valves LC1AZ use the solenoids K14 which function in alternate current (AC) with frequencies of 50 and 60Hz.

Switching frequency: 4Hz

The solenoids K14 use K 14-2053... coils in different versions; for more technical information go to page 2.50.07.

LC1DZ

Le elettrovalvole LC1DZ montano i solenoidi GM 5043, costruiti per alimentazione in corrente continua.

Per il funzionamento in corrente alternata, con frequenze di 50 o 60Hz, è indispensabile utilizzando un connettore con raddrizzatore (RAC).

Frequenza di inserzione: 3Hz.

Sui solenoidi GM 5043 sono montate le bobine C45... nelle diverse versioni, per ulteriori informazioni tecniche vedere a pagina 2.50.08.

The valves LC1DZ use the solenoids GM 5043 which function in direct current (DC).

To use in alternate current (AC) with frequencies of 50 and 60Hz is necessary use a connector with rectifier (RAC).

Switching frequency: 3Hz

The solenoids GM 5043 use C45... coils in different versions; for more technical information go to page 2.50.08.

CODICE DI ORDINAZIONE • ORDERING CODE

L 5 1 V W X Y Z

V	MODELLO <i>MODEL</i>
11	LC1 - DZ <i>LC1 - DZ</i>
12	LC1 - AZ <i>LC1 - AZ</i>

W	CIRCUITO <i>CIRCUIT</i>
----	VEDI PAGINA 2.20.02 <i>SEE PAGE 2.20.02</i>

Y	CONNESSIONE <i>CONNECTION</i>
00	SENZA BOBINA, SENZA CONNETTORE <i>WITHOUT COIL AND CONNECTOR</i>
01	CON BOBINA, SENZA CONNETTORE <i>WITH COIL, WITHOUT CONNECTOR</i>
02	CON CONNETTORE DIN 43650 <i>WITH CONNECTOR DIN 43650</i>
03	AMP JUNIOR <i>AMP JUNIOR</i>

modello <i>model</i>	X	TENSIONE <i>VOLTAGE</i>	Connessioni disponibili <i>Available connections</i>			
			00	01	03	
	00	SENZA BOBINA <i>WITHOUT COIL</i>				
LC1 DZ	OB	12V DC	X	X		
	AD	13V DC	X	X	X	
	OC	24V DC	X	X		
	AC	27V DC	X	X	X	
	OD	48V DC	X	X		
	OE	110V DC	X	X		
	OV	24 RAC (21.5 DC)	X	X		
	OW	110 RAC (98 DC)	X	X		
	OZ	230 RAC (207 DC)	X	X		
LC1 AZ	OH	24V AC 50/60Hz	X	X		
	OL	48V AC 50/60Hz	X	X		
	OM	110V AC 50/60Hz	X	X		
	ON	230V AC 50/60Hz	X	X		
	OK	240V AC 50Hz	X	X		

Z	VERSIONE <i>VERSION</i>
00	STANDARD <i>STANDARD</i>
0V	GUARNIZIONI IN VITON <i>SEALS IN VITON</i>