MINICENTRALINE KUBE CORRENTE CONTINUA
DIRECT CURRENT KUBE POWER PACKS

CODICE FAMIGLIA *FAMILY CODE* **147**

SERIE *SERIES* Kube

INDICE

MINICENTRALINE

- Caratteristiche generali pag. 3
- Particolari costituenti pag. 4
- Ingombri e fissaggi pag. 5
- Tipologie minicentraline pag. 6
- Configurazione comandi pag. 9

- STANDARD pag. 12
- RE - RE+EMERGENZA pag. 13
- 1A1 - 1A1+EMERGENZA pag. 14
- 1A2 - 1A2+EMERGENZA pag. 15
- 1A2+VALVOLA DI BLOCCO pag. 16
- 1A2+VALVOLA DI BLOCCO+EMERGENZA pag. 16
- 2A1 - 2A1+EMERGENZA pag. 17
- 2A2 - 2A2+EMERGENZA pag. 18
- 2A2+VALVOLA DI BLOCCO pag. 19
- 2A2+VALVOLA DI BLOCCO+EMERGENZA pag. 19
- 3A1 - 3A1+EMERGENZA pag. 20
- 3A2 - 3A2+EMERGENZA pag. 21
- 3A2+VALVOLA DI BLOCCO pag. 22
- 3A2+VALVOLA DI BLOCCO+EMERGENZA pag. 22

- Motori - Pompe pag. 23
- Caratteristiche tecniche pag. 24
- Ricambi pag. 26
- Accessori pag. 28
- Pannelli ed elettrovalvole CETOP3 pag. 29
- Pompa a mano di emergenza pag. 30
- Schemi elettrici e cablaggi pag. 33
- Marcatura e certificazioni pag. 39

Data: Venerdì 27 marzo 2015

Codice foglio: 997-147-70010 Rev: AQ

OMFB Hydraulic Components

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DIRECT CURRENT KUBE POWER PACKS

CODICE FAMIGLIA *FAMILY CODE* **147**

SERIE *SERIES* Kube

TABLE OF CONTENTS

MINI POWER PACK

- General characteristics pag. 3
- Power Pack elements pag. 4
- Dimensions and fixing pag. 5
- Power Pack types pag. 6
- Control configurations pag. 9

- STANDARD pag. 12
- RE - RE+EMERGENCY pag. 13
- 1A1 - 1A1+EMERGENCY pag. 14
- 1A2 - 1A2+EMERGENCY pag. 15
- 1A2+BLOCK VALVE pag. 16
- 1A2+BLOCK VALVE+EMERGENCY pag. 16
- 2A1 - 2A1+EMERGENCY pag. 17
- 2A2 - 2A2+EMERGENCY pag. 18
- 2A2+BLOCK VALVE pag. 19
- 2A2+BLOCK VALVE+EMERGENCY pag. 19
- 3A1 - 3A1+EMERGENCY pag. 20
- 3A2 - 3A2+EMERGENCY pag. 21
- 3A2+BLOCK VALVE pag. 22
- 3A2+BLOCK VALVE+EMERGENCY pag. 22

- Motors - Pumps pag. 23
- Technical specifications pag. 24
- Spare parts pag. 26
- Accessories pag. 28
- Panels and CETOP3 solenoid valve pag. 29
- Emergency hand pump pag. 30
- Electric schemes and wiring pag. 33
- Marking and certifications pag. 39

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OMFB HYDRAULIC COMPONENTS

CARATTERISTICHE GENERALI

Kube nasce per offrire agli allestitori di veicoli industriali un prodotto preassemblato che risponda alle sempre maggiori esigenze di praticità e rapidità di montaggio, senza rinunciare a qualità, affidabilità e compattezza.
Il cuore di Kube è il performante gruppo motore/pompa che equipaggia le collaudatissime centraline Power-Pro intorno al quale è stato confezionato un abito su misura con componentistica e materiali di prima scelta.
Il cablaggio integrato permette di gestire i comandi direttamente sulla centralina, tramite pulsantiera mobile o con un radiocomando.
Una delle peculiarità delle minicentraline Kube è costituita dalla grande flessibilità di utilizzo che spazia da applicazioni per azionamento di portelloni, tipici dei furgoni di negozio, a movimentazioni di centine o di rampe per carrelloni e ogni altro impiego che presupponga l'azionamento di cilindri idraulici sia a semplice che a doppio effetto.
L'ampia gamma di versioni disponibili, consente all'utente di identificare sempre il modello Kube più consono all'impiego voluto. Anni di esperienza progettuale e di impieghi in specifici ambiti operativi, costituiscono il miglior biglietto da visita dell'alto livello qualitativo raggiunto dalla OMFB in questo settore.

GENERAL CHARACTERISTICS

Kube has been created to offer to industrial vehicles assembling companies a pre-assembled product which can satisfy the always increasing needs in practicality and quick assembly, without sacrificing quality, reliability and compactness.
The Kube focus is on the well-performing motor/pump assembly equipping the tried and tested Power-Pro power packs with high quality components and materials conceived around it.
The built-in wiring system allows to lead the controls directly on the power pack through the mobile push button panel or through a remote control.
One of the mini power pack Kube most peculiar features is represented by its high flexibility in uses: from applications for operating the lift gate of commercial vans, to movement of roof systems or loading ramps and any other use which implies the operation of hydraulic cylinders, both simple and double effect.
The wide range of versions available allow the user to get always the most proper unit Kube for its requirements. Many years of experience in projects and in specific uses are the best business card to present the high quality level OMFB has reached in this field.

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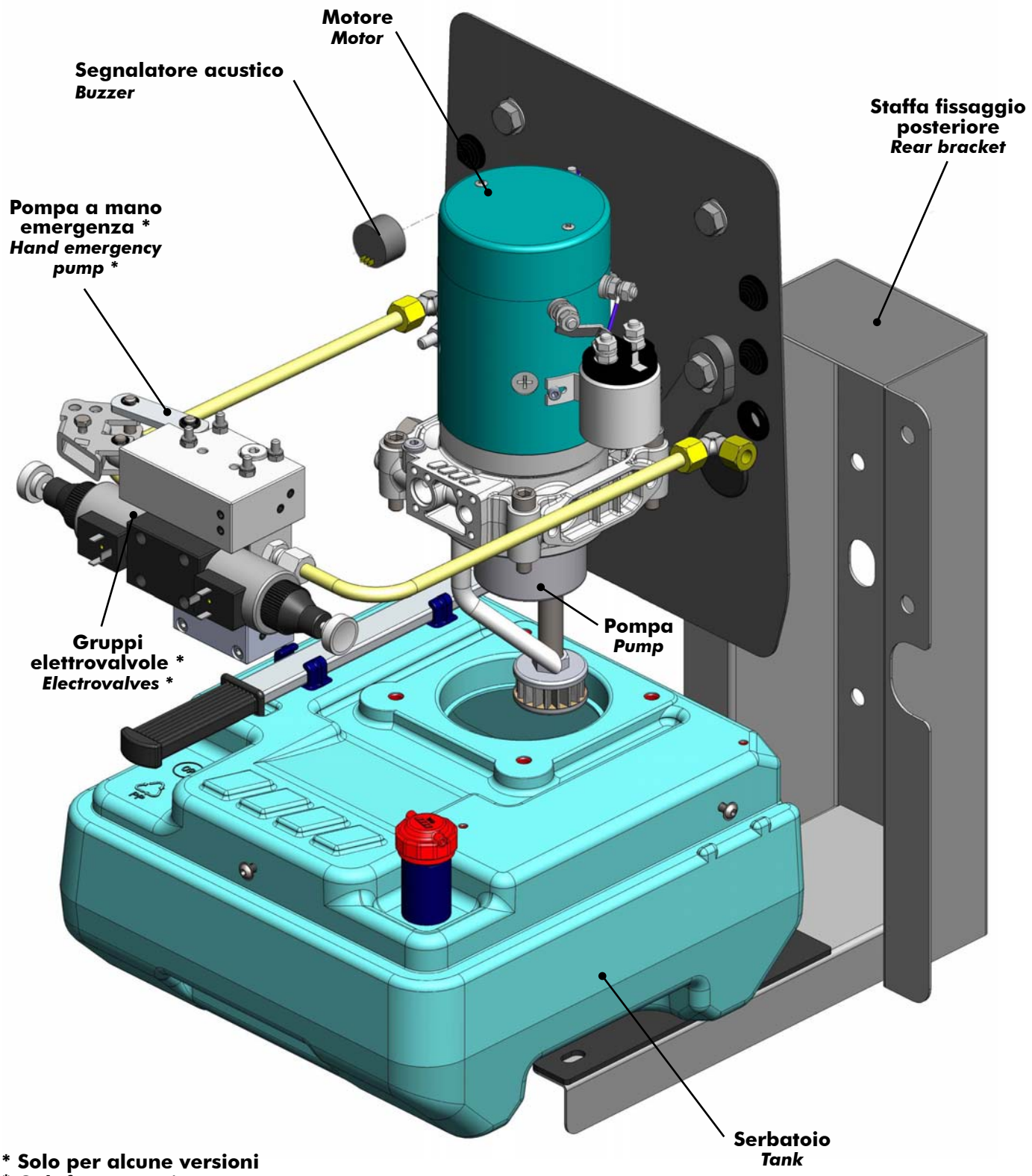
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PARTICOLARI COSTITUENTI LA MINICENTRALINA
POWER PACKS ELEMENTS

CODICE FAMIGLIA 147
FAMILY CODE

Kube



*** Solo per alcune versioni**
*** *Only for any versions***

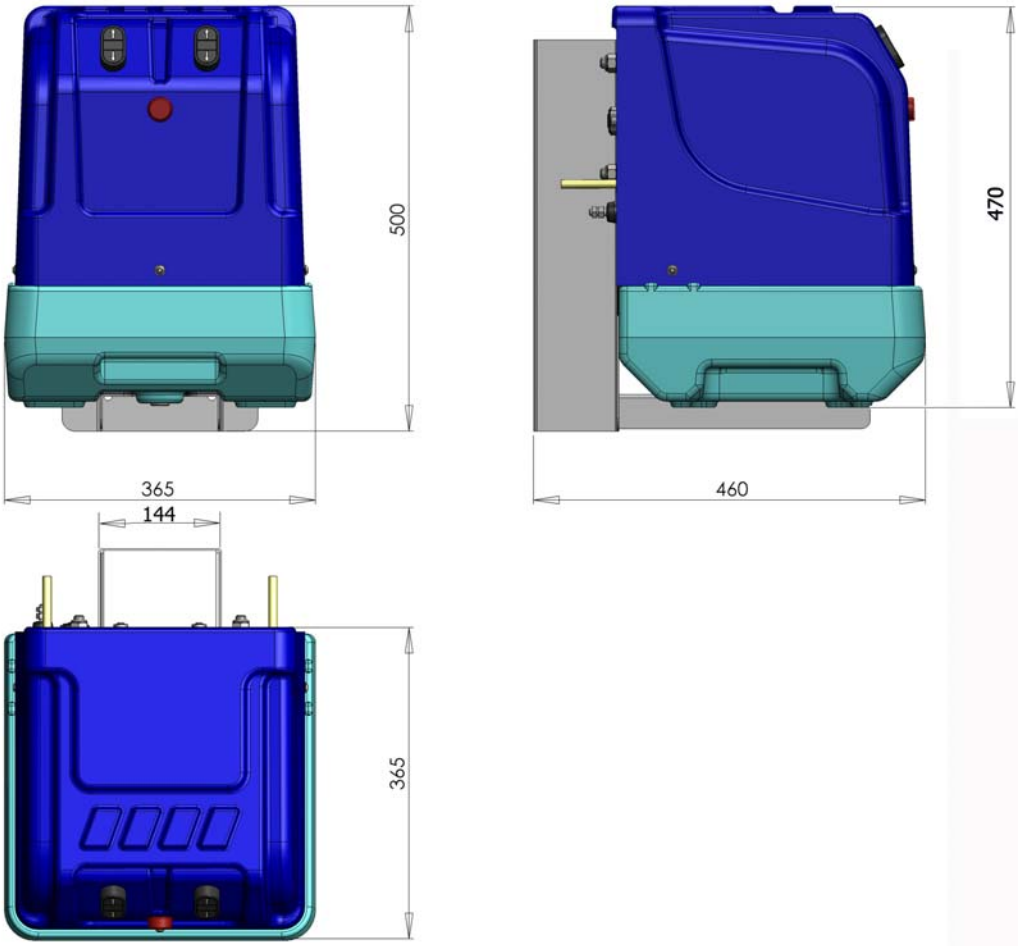
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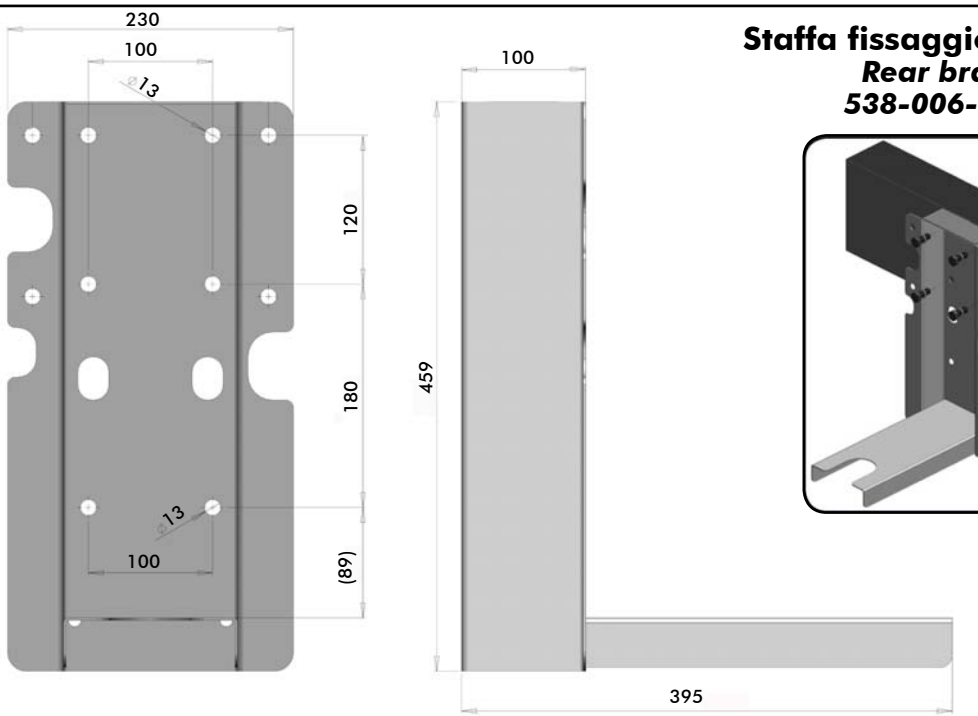
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Staffa fissaggio posteriore
Rear bracket
538-006-00200

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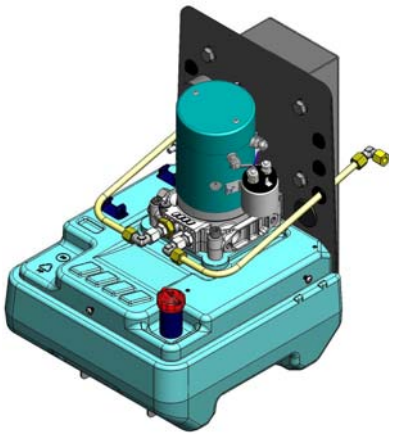
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TIPOLOGIE MINICENTRALINA
MINI POWER PACKS TYPES

CODICE FAMIGLIA 147
FAMILY CODE

Kube

TIPO STD
STD TYPE



147-701-12310 12V P-S
147-702-24315 24V P-S

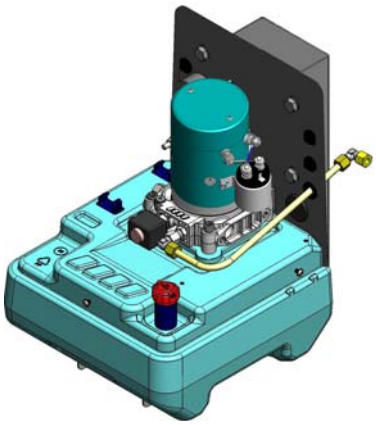
LEGENDA

STD = Standard
RE = Semplice effetto con EV a cartuccia
1EV. A1 = Con 1 elettrovalvola tipo A1
1EV. A2 = Con 1 elettrovalvola tipo A2
2EV. A1 = Con 2 elettrovalvole tipo A1
2EV. A2 = Con 2 elettrovalvole tipo A2
Vedi schemi idraulici pag. 25
+EMERGENZA = Con pompa a mano di emergenza
+VB = Con valvola di blocco

LEGEND

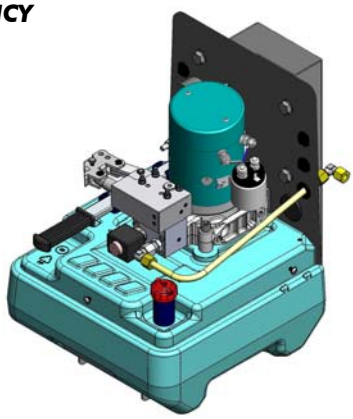
STD = Standard
RE = Single acting with cartridge solenoid valve
1EV. A1 = With 1 electrovalve tipo A1
1EV. A2 = With 1 electrovalve tipo A2
2EV. A1 = With 2 electrovalves tipo A1
2EV. A2 = With 2 electrovalves tipo A2
See hydraulic scheme pag. 25
+EMERGENCY = With emergency hand pump
+VB = With check valve

TIPO RE
RE TYPE



147-705-12316 12V RE
147-706-24311 24V RE

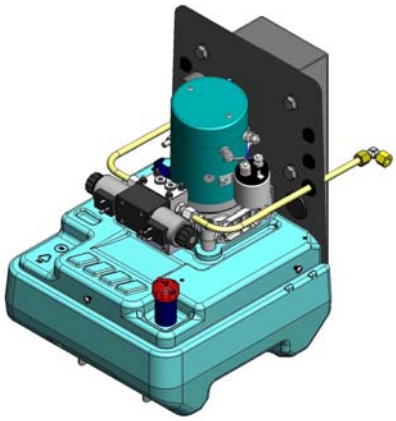
TIPO RE + EMERGENZA
RE TYPE + EMERGENCY



147-707-12314 12V RE+EMERG.
147-708-24319 24V RE+EMERG.

TIPO 1A1
TIPO 1A2

1A1 TYPE
1A2 TYPE

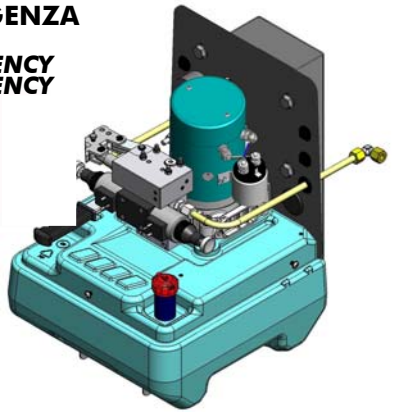


147-709-12312 12V 1EV. A1
147-710-24315 24V 1EV. A1

147-713-12316 12V 1EV. A2
147-714-24311 24V 1EV. A2

TIPO 1A1+EMERGENZA
TIPO 1A2+EMERGENZA

1A1 TYPE + EMERGENCY
1A2 TYPE + EMERGENCY



147-711-12318 12V 1EV. A1+EMERG.
147-712-24313 24V 1EV. A1+EMERG.

147-715-12314 12V 1EV. A2+EMERG.
147-716-24319 24V 1EV. A2+EMERG.

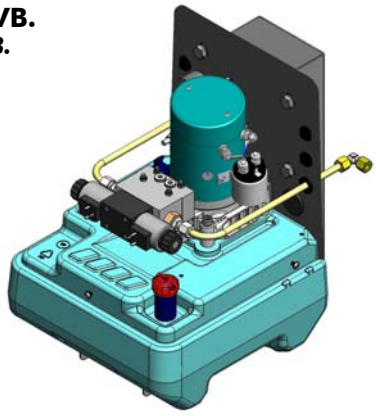
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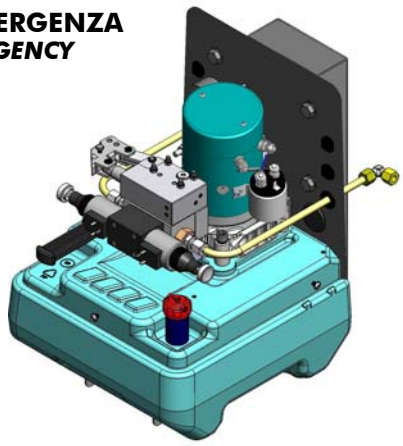
OMFB HYDRAULIC COMPONENTS

TIPO 1A2+VB.
1A2 TYPE+VB.



147-717-12312	12V 1EV. A2+VB.
147-718-24317	24V 1EV. A2+VB.

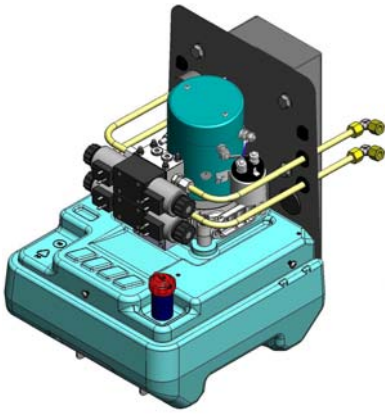
TIPO 1A2+VB.+EMERGENZA
1A2 TYPE+VB.+EMERGENCY



147-719-12310	12V 1EV. A2+VB.+EMERG.
147-720-24313	24V 1EV. A2+VB.+EMERG.

TIPO 2A1
TIPO 2A2

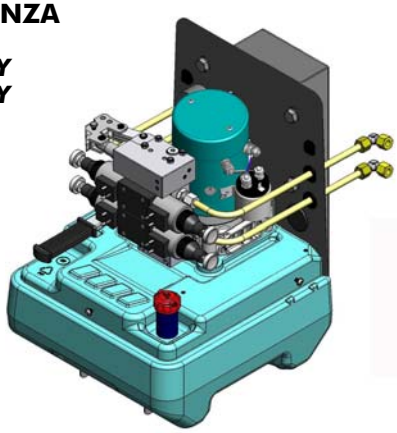
2A1 TYPE
2A2 TYPE



147-721-12316	12V 2 EV. A1
147-722-24311	24V 2 EV. A1
147-725-12312	12V 2 EV. A2
147-726-24317	24V 2 EV. A2

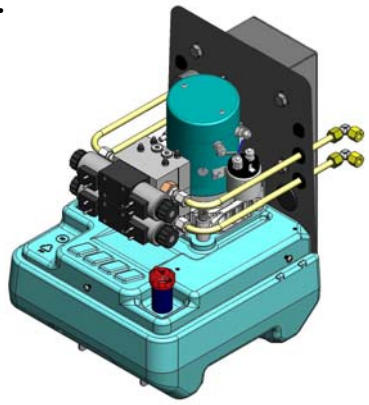
TIPO 2A1+EMERGENZA
TIPO 2A2+EMERGENZA

2A1 TYPE+EMERGENCY
2A2 TYPE+EMERGENCY



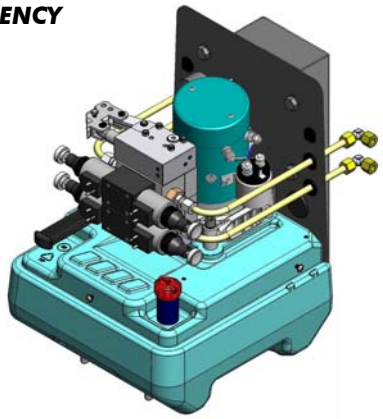
147-723-12314	12V 2 EV. A1+EMERG.
147-724-24319	24V 2 EV. A1+EMERG.
147-727-12310	12V 2 EV. A2+EMERG.
147-728-24315	24V 2 EV. A2+EMERG.

TIPO 2A2+VB.
2A2 TYPE+VB.



147-729-12318	12V 2 EV. A2+VB.
147-730-24311	24V 2 EV. A2+VB.

TIPO 2A2+VB.+EMERGENZA
2A2 TYPE+VB.+EMERGENCY



147-731-12314	12V 2EV. A2+VB.+EMERG.
147-732-24319	24V 2EV. A2+VB.+EMERG.

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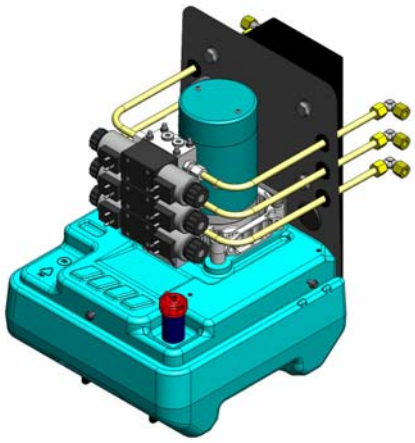
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TIPO 3A1
TIPO 3A2

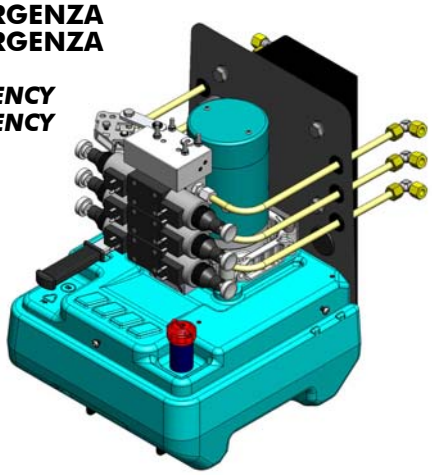
3A1 TYPE
3A2 TYPE



147-751-12310	12V 3 EV. A1
147-752-24315	24V 3 EV. A1
147-755-12316	12V 3 EV. A2
147-756-24311	24V 3 EV. A2

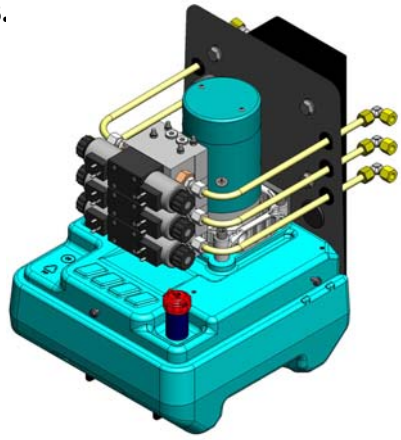
TIPO 3A1+EMERGENZA
TIPO 3A2+EMERGENZA

3A1 TYPE+EMERGENCY
3A2 TYPE+EMERGENCY



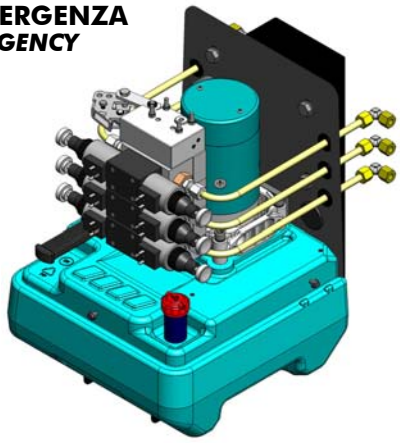
147-753-12318	12V 3 EV. A1+EMERG.
147-754-24313	24V 3 EV. A1+EMERG.
147-757-12314	12V 3 EV. A2+EMERG.
147-758-24319	24V 3 EV. A2+EMERG.

TIPO 3A2+VB.
3A2 TYPE+VB.



147-759-12312	12V 3 EV. A2+VB.
147-760-24315	24V 3 EV. A2+VB.

TIPO 3A2+VB.+EMERGENZA
3A2 TYPE+VB.+EMERGENCY



147-761-12318	12V 3EV. A2+VB.+EMERG.
147-762-24313	24V 3EV. A2+VB.+EMERG.

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OMFB HYDRAULIC COMPONENTS

CONFIGURAZIONI COMANDI
CONTROLS CONFIGURATIONS

CODICE FAMIGLIA *FAMILY CODE* **147**

Kube



Carter Kube
base
147-790-00102



Carter Kube
1 spia / 1 light
147-790-00200



Carter Kube
1 spia + 1 pulsante
1 light + 1 button
147-790-00308
147-790-00157 (vers. RE)



Carter Kube con
1 spia + 2 pulsanti
1 light + 2 buttons
147-790-00406



Carter Kube con
1 spia + 3 pulsanti
1 light + 3 buttons
147-790-00451



Carter Kube con
1 spia + 1 pulsante
+ 1 presa
1 light + 1 button
+ 1 socket
147-790-00504



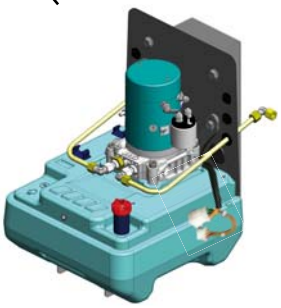
Carter Kube con
1 spia + 2 pulsanti
+ 2 prese
1 light + 2 buttons
+ 2 sockets
147-790-00602



Carter Kube
1 spia + 1 prese
1 light + 1 socket
147-790-00700



Carter Kube
1 spia + 2 prese
1 light + 2 sockets
147-790-00808



Cod. 147-790-10011

(Maggiorazione montaggio staccabatteria)
(Battery switch application including mounting)

Nelle versioni con 2 elettrovalvole i pulsanti di azionamento vengono montati entrambi sul lato sinistro.

On 2 solenoid valves version, push buttons are located both on the left side.



Carter 2 pulsanti
2 buttons carter





Carter 2 pulsanti + staccabatteria
2 buttons carter + battery switch



ATTENZIONE: lo staccabatteria **NON** può essere montato sul carter Kube, nelle versioni con 3 elettrovalvole.
*ATTENTION: battery switch application **CANNOT** be use on 3 solenoid valves Kube versions.*

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Tipologie di console fissate direttamente al telaio del veicolo
Console types directly fixed on vehicle chassis



Console 1 pulsante+1 spia
Lunghezza cavo 2 mt
Console 1 button +1 light
Cable length 2 mt

101-045-00011



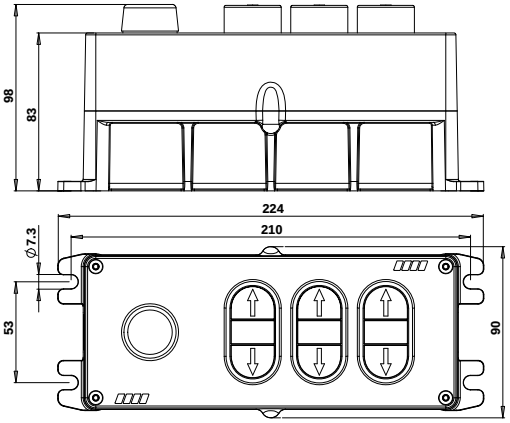
Console 2 pulsanti +1 spia
Lunghezza cavo 2 mt
Console 2 buttons +1 light
Cable length 2 mt

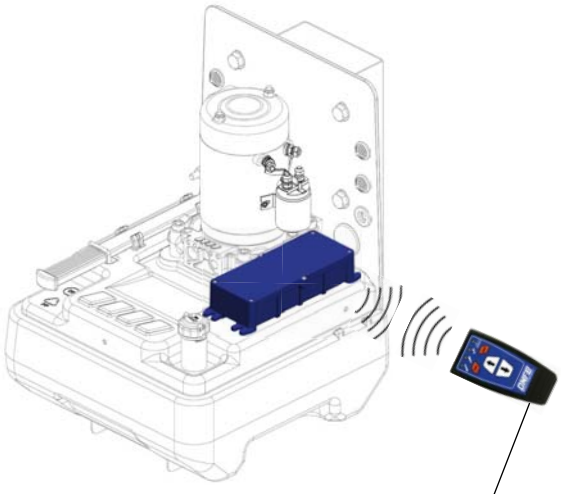
101-045-00020



Console 3 pulsanti +1 spia
Lunghezza cavo 2 mt
Console 3 buttons +1 light
Cable length 2 mt

101-045-00039





Vedere istruzioni allegate al prodotto
See instructions inside product



Radiocomando ricetrasmettitore
Radio remote and receiver control
TIPO / TYPE : WL RE
2 CANALI / 2 CHANNELS
Cod. 101-050-70174

Radiocomando ricetrasmettitore
Radio remote and receiver control
TIPO / TYPE : WL
2 CANALI / 2 CHANNELS
Cod. 101-050-70156



Radiocomando ricetrasmettitore
Radio remote and receiver control
TIPO / TYPE : WL
4-6 CANALI / 4-6 CHANNELS
Cod. 101-050-70165



Radiocomando / *Radio remote control*
TIPO / TYPE : QUASAR
4 CANALI FM / 4 CHANNELS FM
Cod. 101-050-70136

Radiocomando / *Radio remote control*
TIPO / TYPE : QUASAR
6 CANALI FM / 6 CHANNELS FM
Cod. 101-050-70145

I radiocomandi ricetrasmettitori 101-050-70174 WL, 101-050-70156 e 101-050-70165 hanno un raggio d'azione max. di 10 metri e batterie standard 2xAAA nel trasmettitore.
The radio remote and receiver controls 101-050-70174 WL, 101-050-70156 and 101-050-70165 can operate within a distance of 10 meters and have already included 2xAAA batteries in the sender unit.

I radiocomandi 101-050-70136 e 101-050-70145 Quasar sono basati su trasmissione in FM, raggio di azione superiore a 50 metri, trasmettitore con batterie ricaricabili e caricabatt., membrana retroilluminata.
The radio remote controls 101-050-70136 - 101-050-70145 Quasar are based on FM transmission and cover a distance of more than 50 meters; sender unit complete with rechargeable accumulators and battery charger, keypad with backlight.

Data: Venerdì 27 marzo 2015
Codice foglio: 997-147-70010 Rev: AQ

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OMFB HYDRAULIC COMPONENTS

Nelle versioni "motrice/rimorchio" costituite da 2 distinte Kube da controllare con un solo trasmettitore, l'unica configurazione di radiocomando possibile è:

Nr. 1 part. 101-050-70136 completo + Nr. 1 ricevitore 101-051-41383

For the versions "truck/trailer" composed of 2 separate KUBE power units to be controlled with only one sender unit, the only possible configuration is to order:

1 complete assembly 101-050-70136 + 1 receiver unit 101-051-41383

Pulsantiere
Push-button panels



149-155-10052
(RE)



149-155-10043
(1A1 - 1A2)



149-155-10061
(2A1 - 2A2)

Per schemi elettrici vedere pagina 33
For electric schemes please see page 33



Sul cavo del positivo di alimentazione deve essere inserito dall'installatore uno staccabatteria che l'utilizzatore deve sempre scollegare quando il veicolo viaggia su strada. L'installatore non fornendo lo staccabatteria o non comunicando all'utilizzatore il suo corretto utilizzo si assume qualunqeu responsabilità su eventuali danni potessero derivare da tali mancanze. Il cavo del negativo di alimentazione deve essere connesso direttamente in batteria in quanto la sua connessione a telaio potrebbe non garantire il corretto passaggio di corrente per il sistema oltre a poter diventare potenziale causa di guasto al veicolo stesso. L'installatore, connettendo il cavo negativo di alimentazione a telaio del veicolo, si assume qualunque responsabilità su eventuali malfunzionamenti del sistema.

On the positive power lead you have to fit a battery-off switch, which has to be always switched-off when the vehicle is on the move. If the installer do not supply or inform the user about the proper function of this switch he is responsible for any damages or consequences coming from his negligence. The negative power lead has to be connected directly to the battery because if connected to the frame it could not assure the proper power to the system or even damage the vehicle itself. The installer is responsible for any damage to the system when the negative lead is connected to the frame.

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MINICENTRALINA STD
POWER PACK STD

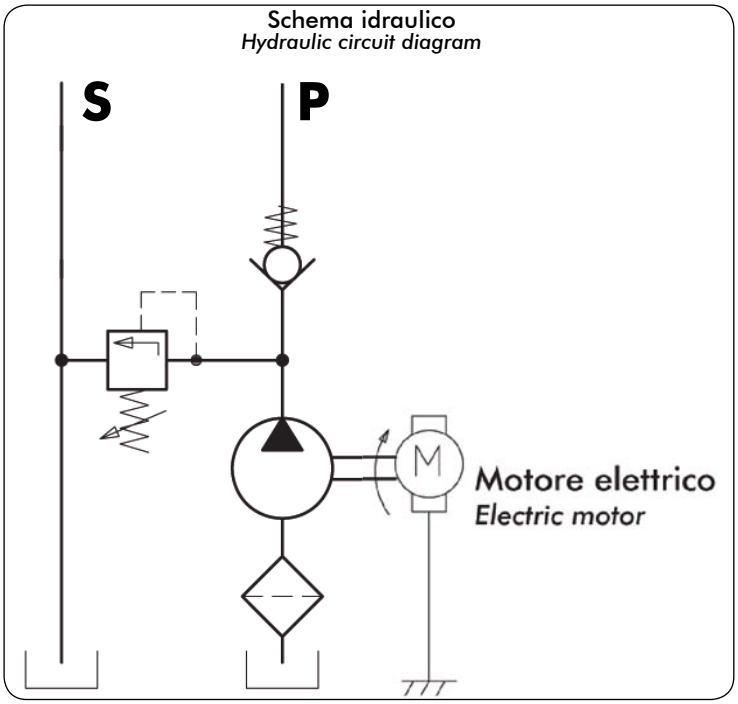
CODICE FAMIGLIA 147
FAMILY CODE

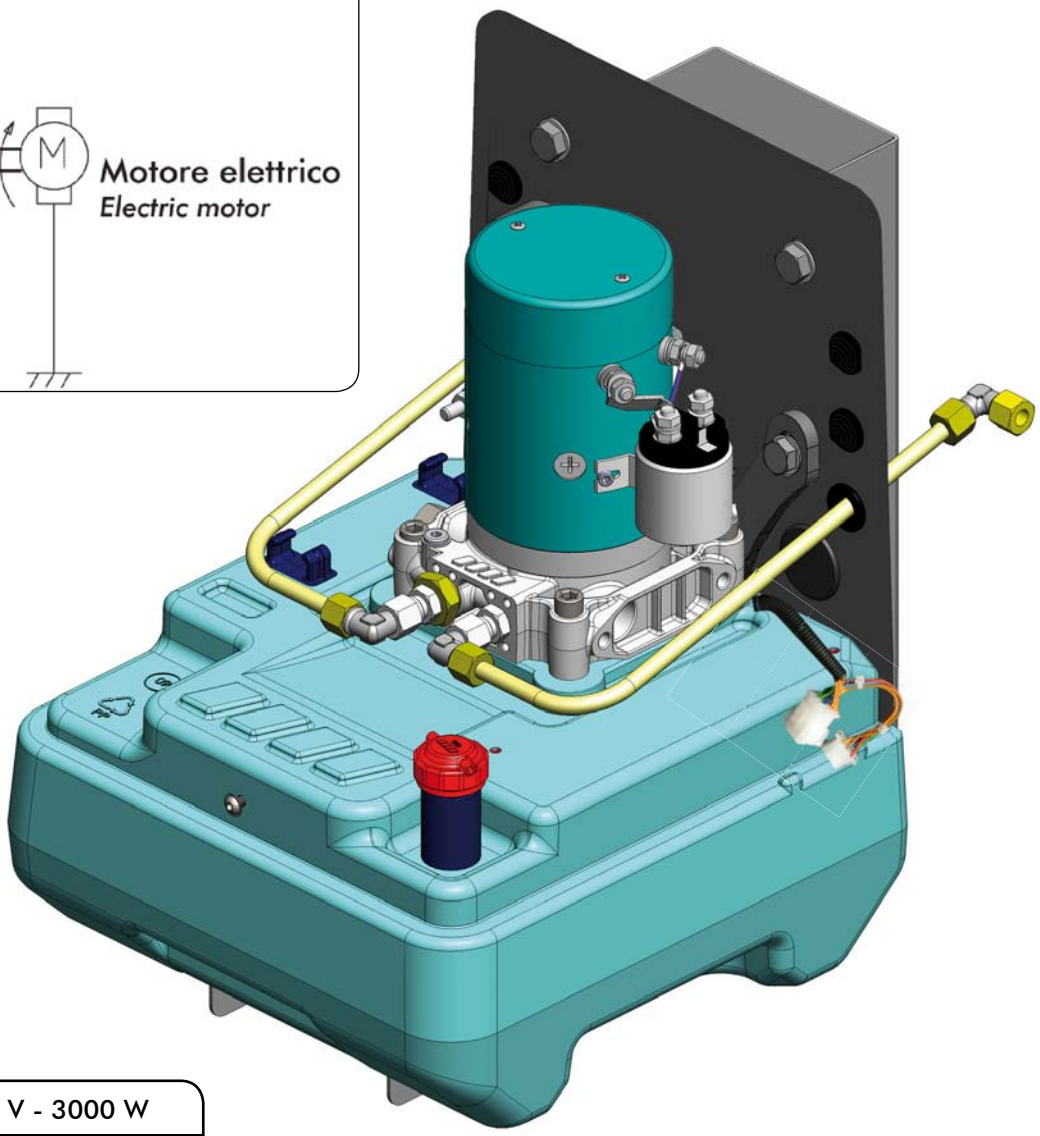
Kube

Centralina idraulica standard, comprensiva di cavo cablato per comandi esterni. Utilizzi liberi completamente adattabili per ogni esigenza (ved. schema idraulico). Motori da 2000W - 12V e 3000W - 24V. Serbatoio da 15 litri con tappo sfiato. Flangiabile direttamente al veicolo.

Standard hydraulic power pack, provided with wired cable for outside controls. Easy-fitting uses for any need (see hydraulic scheme). Motors of 2000W – 12V and 3000W – 24V. 15 lt tank with release plug. It can be directly flanged on vehicle.

Schema idraulico
Hydraulic circuit diagram





12 V - 2000 W	24 V - 3000 W
Cod.147-701-12310	Cod. 147-702-24315

Data: Venerdì 27 marzo 2015

Codice foglio: 997-147-70010 Rev: AQ

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OMFB HYDRAULIC COMPONENTS

MINICENTRALINA RE e RE + EMERGENZA
POWER PACK RE and RE + EMERGENCY

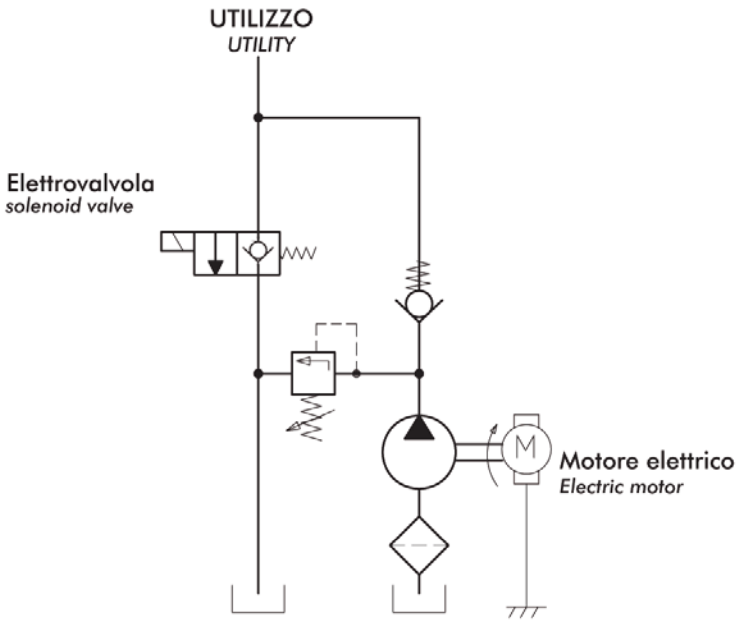
CODICE FAMIGLIA *FAMILY CODE* **147**

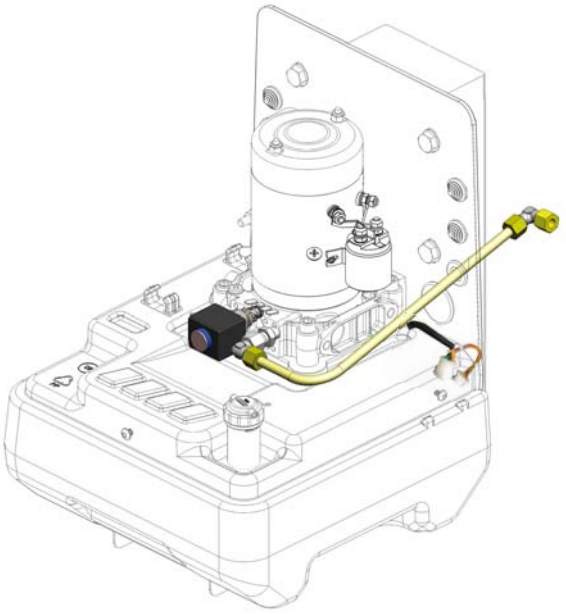
Kube

Centralina idraulica tipo RE (ribaltabile elettrico), comprensiva di cavo cablato per comandi esterni ed elettrovalvola. Utilizzi completamente adattabili per ogni esigenza (ved. schema idraulico). Motori da 2000W - 12V e 3000W - 24V. Serbatoio da 15 litri con tappo sfiato. Flangiabile direttamente al veicolo. Disponibile anche con pompa a mano di emergenza.

Hydraulic power pack type RE (electric tip-up), provided with wired cable for outside controls and electro-valve. Easy-fitting uses for any need (see hydraulic scheme). Motors of 2000W – 12V and 3000W – 24V. 15 lt tank with release plug. It can be directly flanged on vehicle. Available also with emergency hand pump.

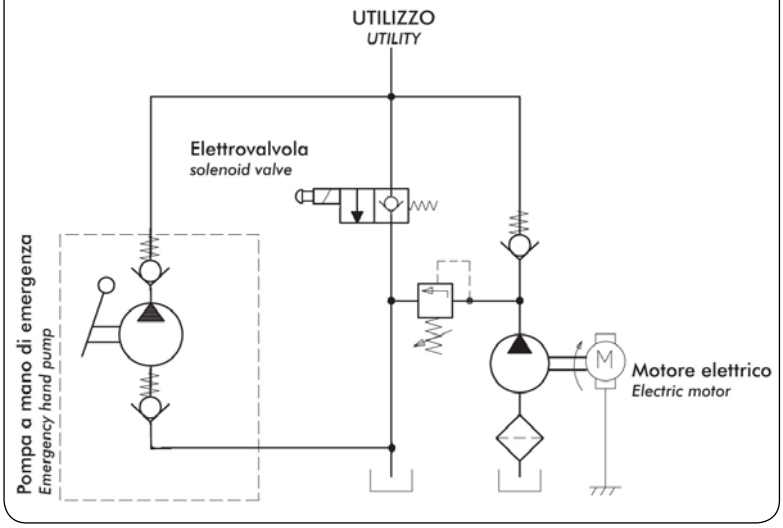
Schema elettroidraulico con EV semplice effetto
Electric and hydraulic circuit diagram with single-acting EV cartridge

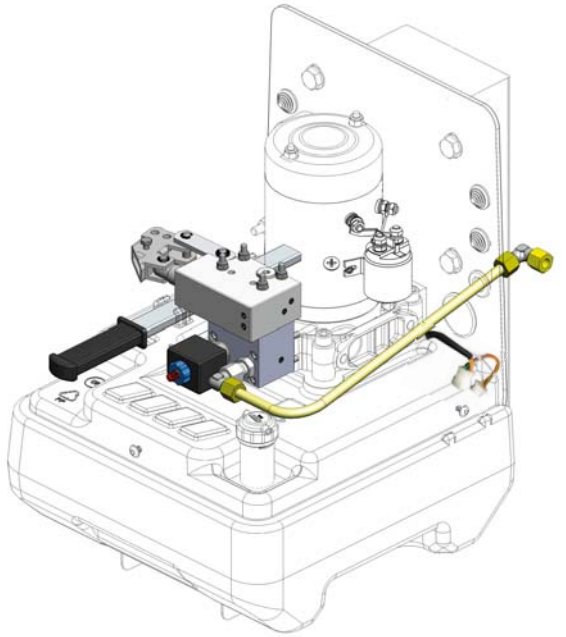




12 V - 2000 W	24 V - 3000 W
Cod. 147-705-12316	Cod. 147-706-24311

Schema elettroidraulico con EV semplice effetto + pompa a mano emergenza
Electric and hydraulic circuit diagram with single-acting EV cartridge + emergency pump





12 V - 2000 W	24 V - 3000 W
Cod. 147-707-12314	Cod. 147-708-24319

Data: Venerdì 27 marzo 2015
Codice foglio: 997-147-70010 Rev: AQ

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MINICENTRALINA 1A1 e 1A1 + EMERGENZA
POWER PACK 1A1 and 1A1 + EMERGENCY

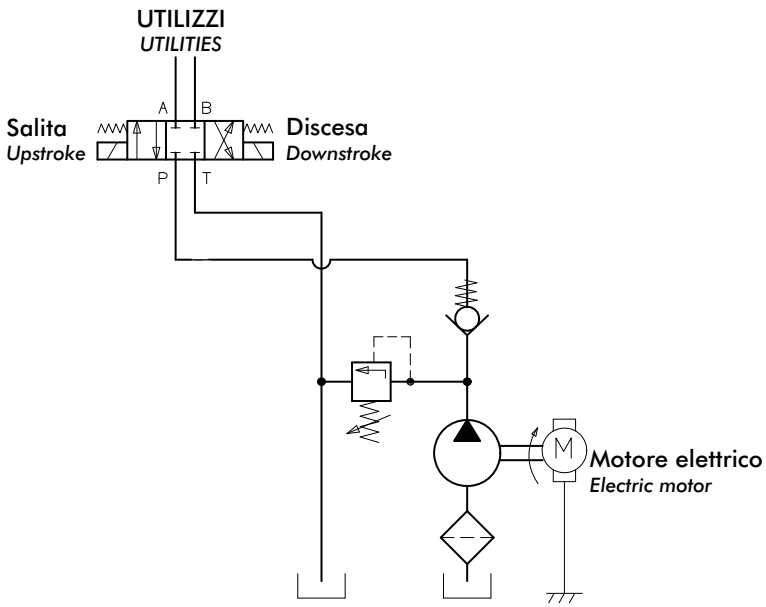
CODICE FAMIGLIA *FAMILY CODE* **147**

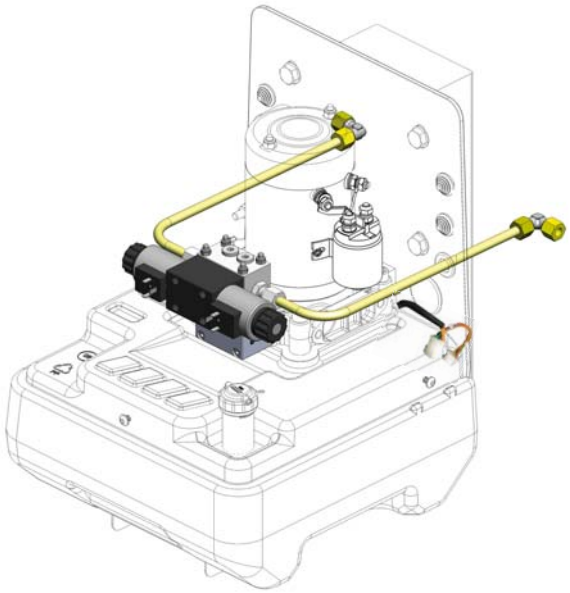
Kube

Centralina idraulica tipo 1A1, comprensiva di cavo cablato per comandi esterni ed elettrovalvola a centri chiusi tipo A1. Utilizzi completamente adattabili per ogni esigenza. Motori da 2000W - 12V e 3000W - 24V. Serbatoio da 15 litri con tappo sfiato. Flangiabile direttamente al veicolo. Disponibile anche con pompa a mano di emergenza.

Hydraulic power pack type 1A1, provided with wired cable for outside controls and electro-valve type A1 closed centres. Easy-fitting uses for any need (see hydraulic scheme). Motors of 2000W – 12V and 3000W – 24V. 15 lt tank with release plug. It can be directly flanged on vehicle. Available also with emergency hand pump.

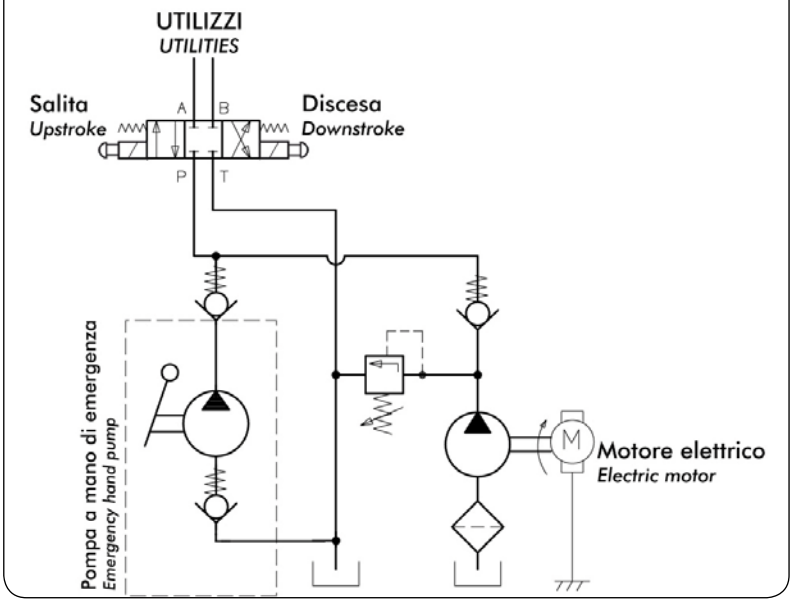
Schema elettroidraulico con EV doppio effetto tipo A1
Electric and hydraulic circuit diagram with double-acting A1 type EV cartridge

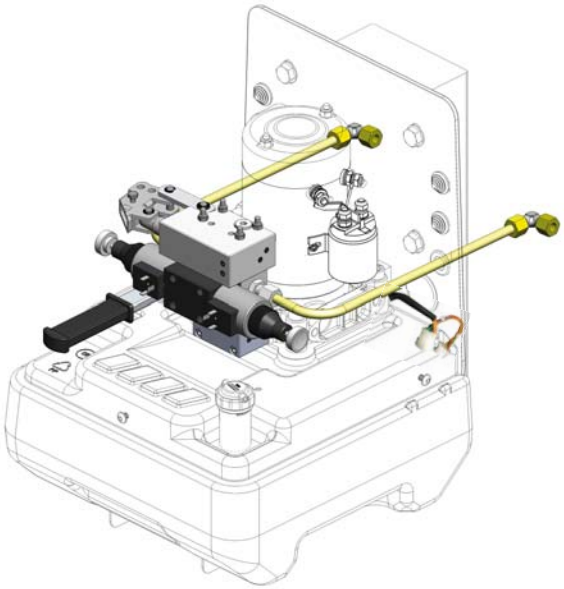




12 V - 2000 W	24 V - 3000 W
Cod. 147-709-12312	Cod. 147-710-24315

Schema elettroidraulico con EV doppio effetto tipo A1 + pompa a mano emergenza
Electric and hydraulic circuit diagram with double-acting A1 type EV cartridge + emergency pump





12 V - 2000 W	24 V - 3000 W
Cod. 147-711-12318	Cod. 147-712-24313

Data: Venerdì 27 marzo 2015

Codice foglio: 997-147-70010 Rev: AQ

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MINICENTRALINA 1A2 e 1A2 + EMERGENZA
POWER PACK 1A2 and 1A2 + EMERGENCY

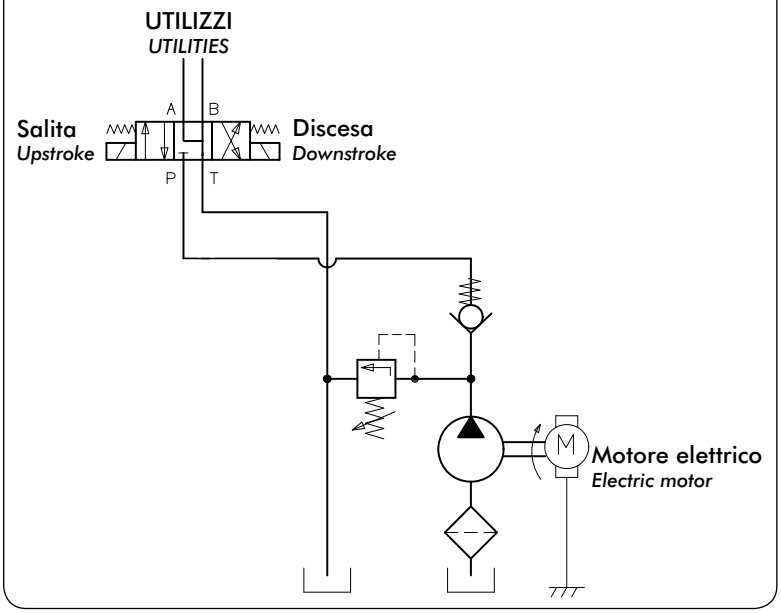
CODICE FAMIGLIA 147
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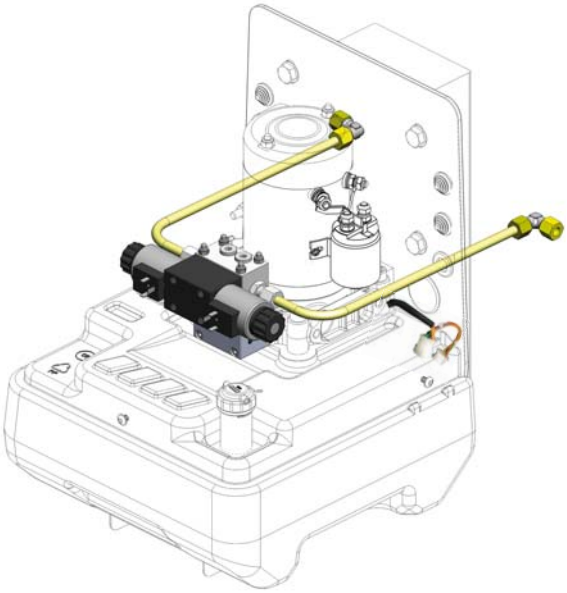
Kube

Centralina idraulica tipo 1A2, comprensiva di cavo cablato per comandi esterni ed elettrovalvola con utilizzo collegato a scarico tipo A2. Completamente adattabile ad ogni esigenza (ved. schema idraulico). Motori da 2000W - 12V e 3000W - 24V. Serbatoio da 15 litri con tappo sfiato. Flangiabile direttamente al veicolo. Disponibile anche con pompa a mano di emergenza.

Hydraulic power pack type 1A2, provided with wired cable for outside controls and electro-valve with use directly connected with type A2 drain. Easy-fitting uses for any need (see hydraulic scheme). Motors of 2000W – 12V and 3000W – 24V. 15 lt tank with release plug. It can be directly flanged on vehicle. Available also with emergency hand pump.

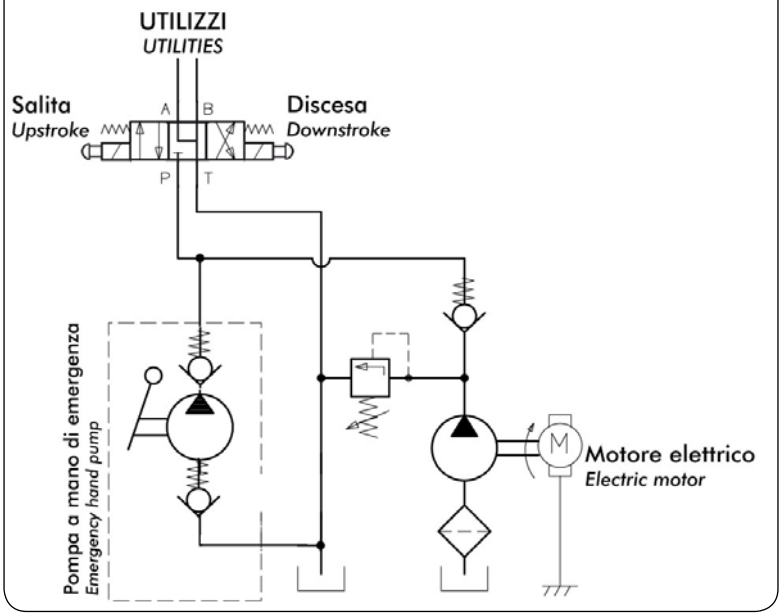
Schema elettroidraulico con EV doppio effetto tipo A2
Electric and hydraulic circuit diagram with double-acting A2 type EV cartridge

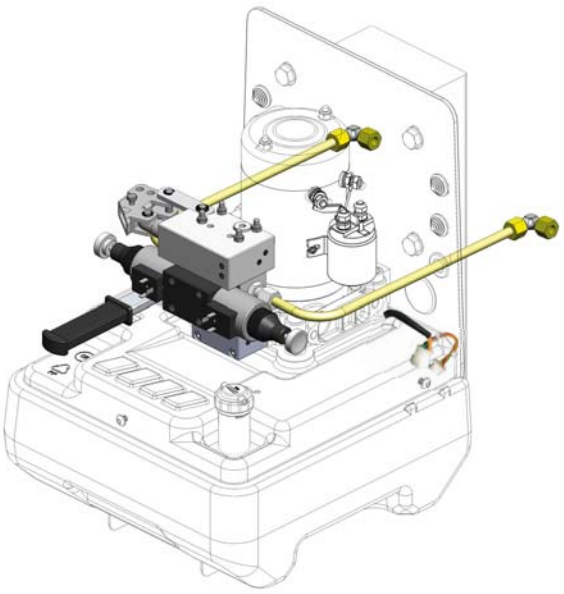




12 V - 2000 W	24 V - 3000 W
Cod. 147-713-12316	Cod. 147-714-24311

Schema elettroidraulico con EV doppio effetto tipo A2 + pompa a mano emergenza
Electric and hydraulic circuit diagram with double-acting A2 type EV cartridge + emergency pump





12 V - 2000 W	24 V - 3000 W
Cod. 147-715-12314	Cod. 147-716-24319

Data: Venerdì 27 marzo 2015
Codice foglio: 997-147-70010 Rev: AQ

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MINICENTRALINA 1A2 + VALV. BLOCK e 1A2 + VALV.BLOCK + EMERGENZA
POWER PACK 1A2 + BLOCK VALVE and 1A2 + BLOCK VALVE + EMERGENCY

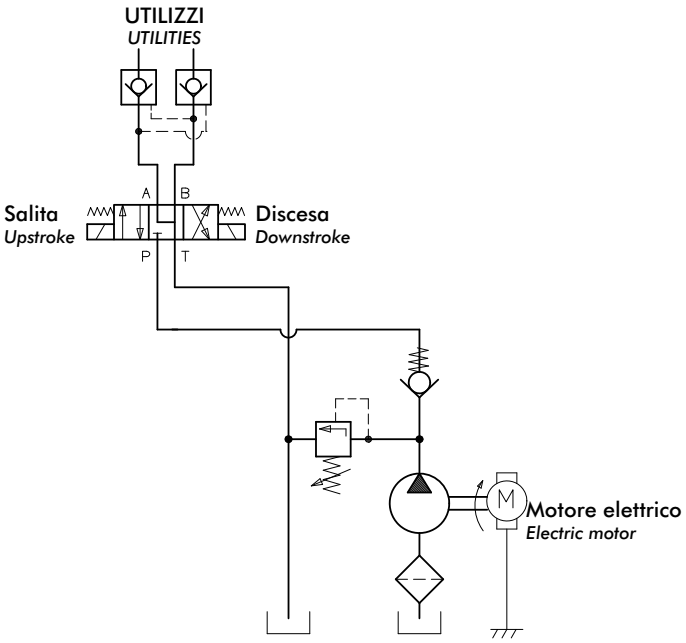
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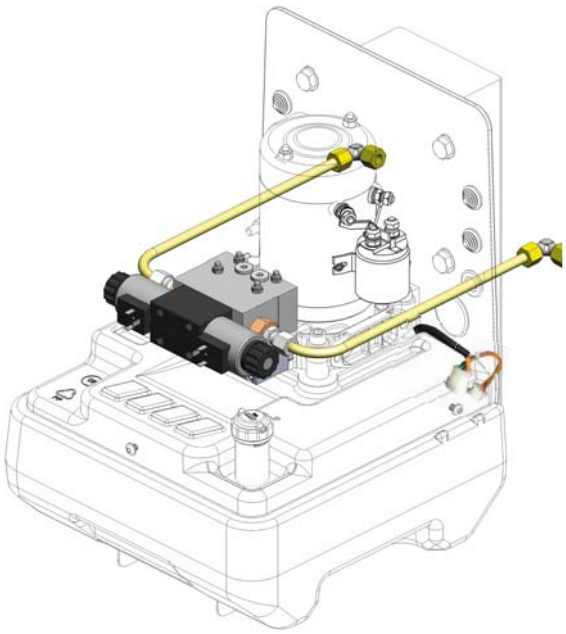
Kube

Centralina idraulica tipo 1A2, comprensiva di cavo cablato per comandi esterni ed elettrovalvola con utilizzo collegato a scarico tipo A2. È inoltre montata una valvola di blocco su ogni ramo d'utilizzo. Completamente adattabile ad ogni esigenza (ved. schema idraulico). Motori da 2000W - 12V e 3000W - 24V. Serbatoio da 15 litri con tappo sfiato. Flangiabile direttamente al veicolo. Disponibile anche con pompa a mano di emergenza.

Hydraulic power pack type 1A2, provided with wired cable for outside controls and electro-valve with use directly connected with type A2 drain. It is mounted on a block valve for any field of use. Easy-fitting uses for any need (see hydraulic scheme). Motors of 2000W – 12V and 3000W – 24V. 15 lt tank with release plug. It can be directly flanged on vehicle. Available also with emergency hand pump.

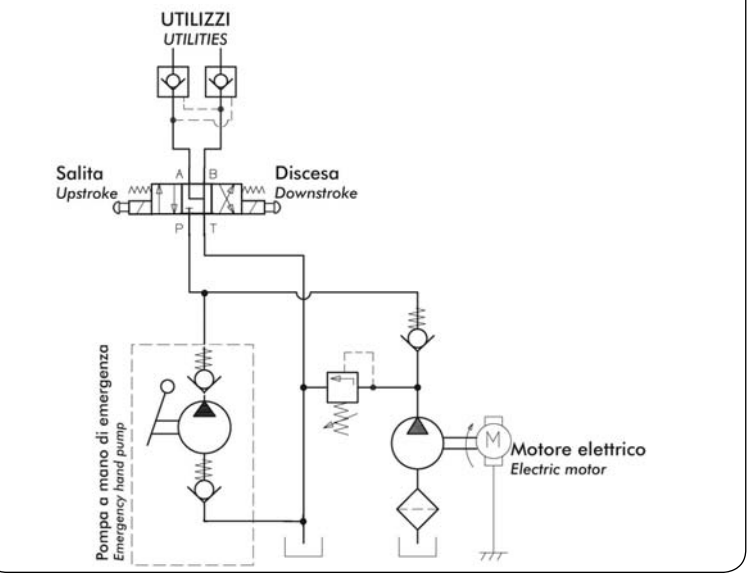
Schema elettroidraulico con EV doppio effetto tipo A2 + valv. blocco
Electric and hydraulic circuit diagram with double-acting A2 type EV cartridge + block valve

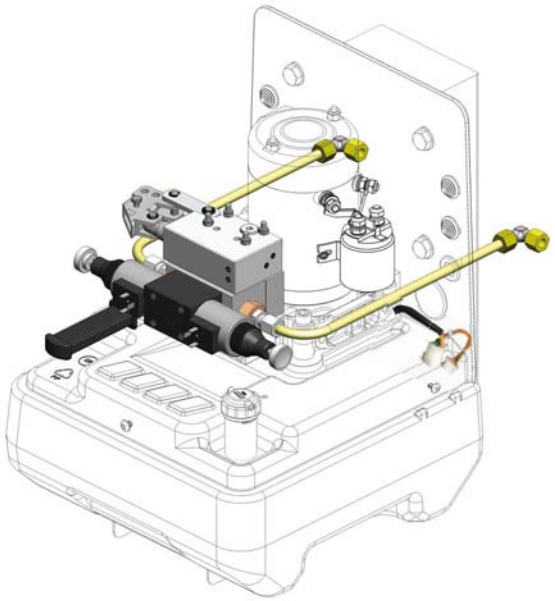




12 V - 2000 W	24 V - 3000 W
Cod. 147-717-12312	Cod. 147-718-24317

Schema elettroidraulico con EV doppio effetto tipo A2 + pompa a mano emergenza + valv.block
Electric and hydraulic circuit diagram with double-acting A2 type EV cartridge + emergency pump + block valve





12 V - 2000 W	24 V - 3000 W
Cod. 147-719-12310	Cod. 147-720-24313

Data: Venerdì 27 marzo 2015

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OMFB HYDRAULIC COMPONENTS

MINICENTRALINA 2A1 e 2A1 + EMERGENZA
POWER PACK 2A1 and 2A1 + EMERGENCY

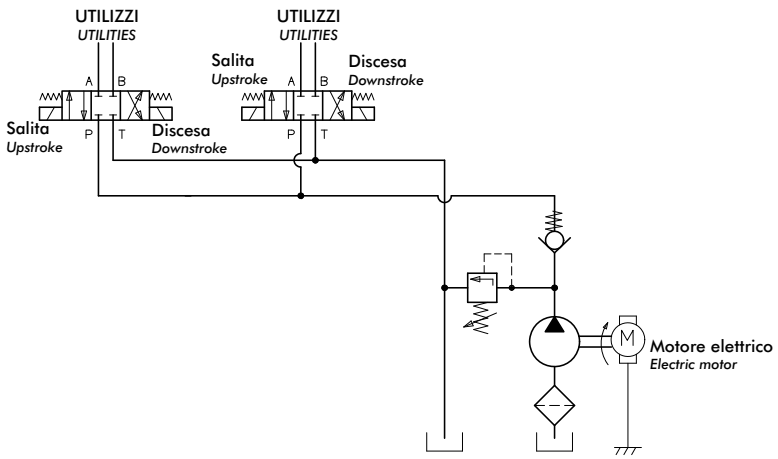
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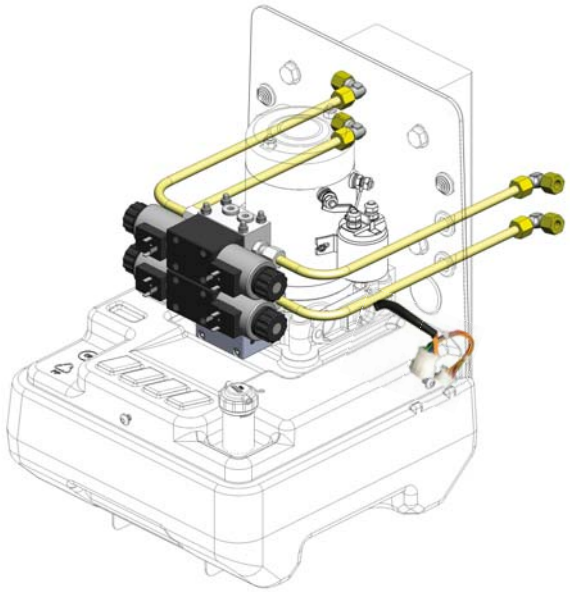
Kube

Centralina idraulica tipo 2A1, comprensiva di cavo cablato per comandi esterni e 2 elettrovalvole a centri chiusi tipo A1. Utilizzi completamente adattabili per ogni esigenza. Motori da 2000W - 12V e 3000W - 24V. Serbatoio da 15 litri con tappo sfiato. Flangiabile direttamente al veicolo. Disponibile anche con pompa a mano di emergenza.

Hydraulic power pack type 2A1, provided with wired cable for outside controls and 2 type A1 electro-valves closed centres. Easy-fitting uses for any need (see hydraulic scheme). Motors of 2000W – 12V and 3000W – 24V. 15 lt tank with release plug. It can be directly flanged on vehicle. Available also with emergency hand pump.

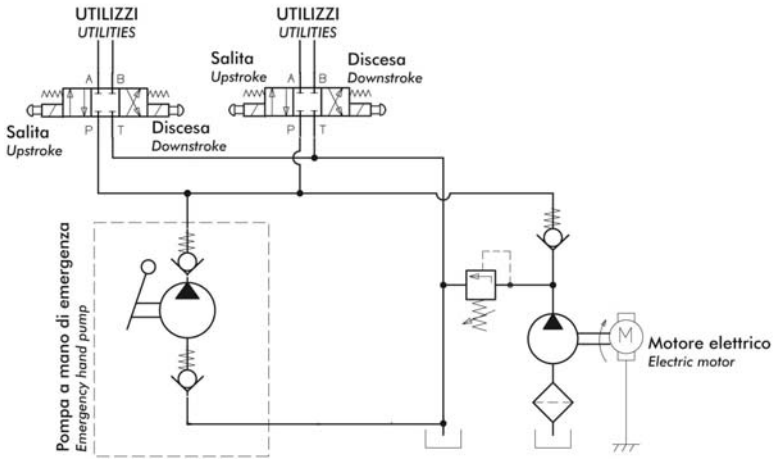
Schema elettroidraulico con 2 EV doppio effetto tipo A1
Electric and hydraulic circuit diagram with 2 double-acting A1 type EV cartridge

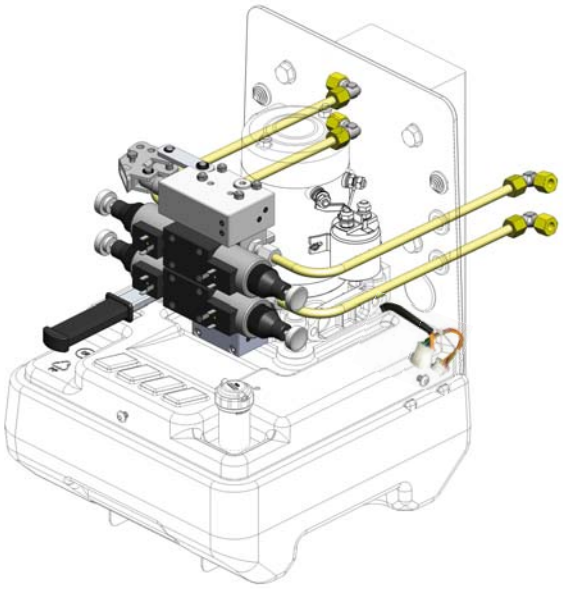




12 V - 2000 W	24 V - 3000 W
Cod. 147-721-12316	Cod. 147-722-24311

Schema elettroidraulico con 2 EV doppio effetto tipo A1 + pompa a mano emergenza
Electric and hydraulic circuit diagram with 2 double-acting A1 type EV cartridge + emergency pump





12 V - 2000 W	24 V - 3000 W
Cod. 147-723-12314	Cod. 147-724-24319

Data: Venerdì 27 marzo 2015
Codice foglio: 997-147-70010 Rev: AQ

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MINICENTRALINA 2A2 e 2A2 + EMERGENZA
POWER PACK 2A2 and 2A2 + EMERGENCY

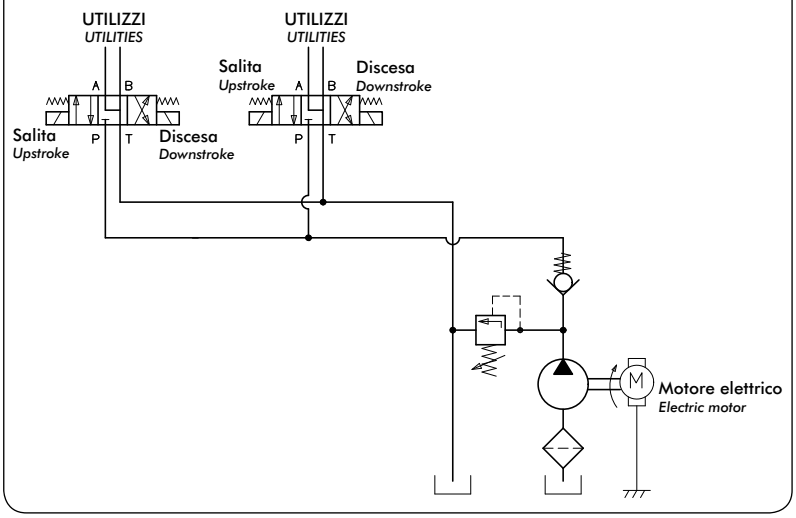
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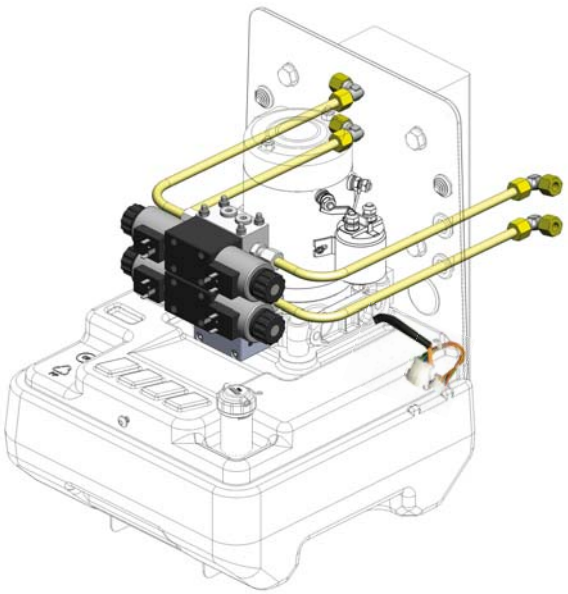
Kube

Centralina idraulica tipo 2A2, comprensiva di cavo cablato per comandi esterni e 2 elettrovalvole con utilizzo collegato a scarico tipo A2. Completamente adattabile ad ogni esigenza (ved. schema idraulico). Motori da 2000W - 12V e 3000W - 24V. Serbatoio da 15 litri con tappo sfiato. Flangiabile direttamente al veicolo. Disponibile anche con pompa a mano di emergenza.

Hydraulic power pack type 2A2, provided with wired cable for outside controls and 2 electro-valves with use directly connected with type A2 drain. Easy-fitting uses for any need (see hydraulic scheme). Motors of 2000W – 12V and 3000W – 24V. 15 lt tank with release plug. It can be directly flanged on vehicle. Available also with emergency hand pump.

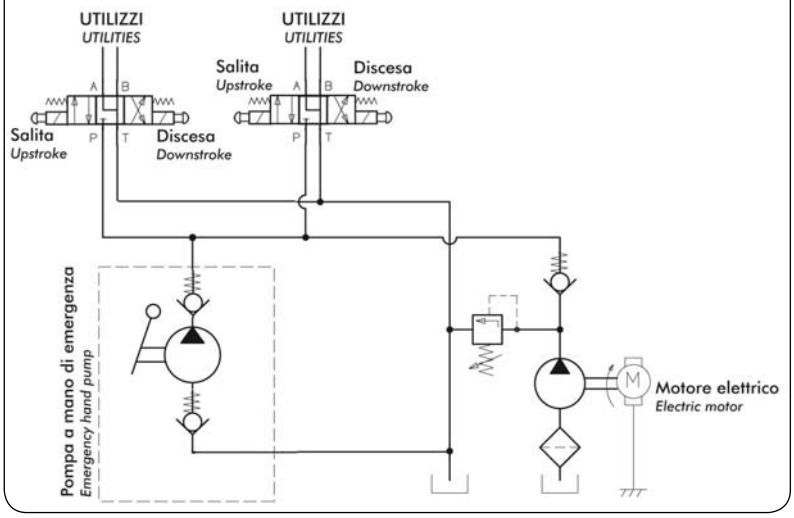
Schema elettroidraulico con 2 EV doppio effetto tipo A2
Electric and hydraulic circuit diagram with 2 double-acting A2 type EV cartridge

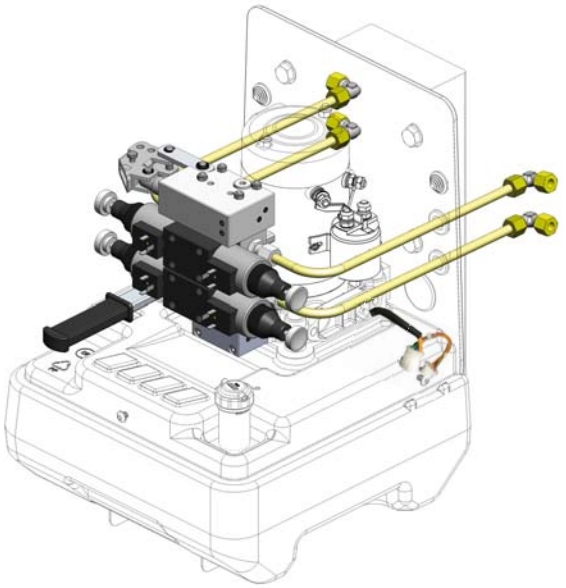




12 V - 2000 W	24 V - 3000 W
Cod. 147-725-12312	Cod. 147-726-24317

Schema elettroidraulico con 2 EV doppio effetto tipo A2 + pompa a mano emergenza
Electric and hydraulic circuit diagram with 2 double-acting A2 type EV cartridge





12 V - 2000 W	24 V - 3000 W
Cod. 147-727-12310	Cod. 147-728-24315

Data: Venerdì 27 marzo 2015
Codice foglio: 997-147-70010 Rev: AQ

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MINICENTRALINA 2A2 + VALV. BLOCK e 2A2 + VALV.BLOCK + EMERGENZA
POWER PACK 2A2 + BLOCK VALVE and 2A2 + BLOCK VALVE + EMERGENCY

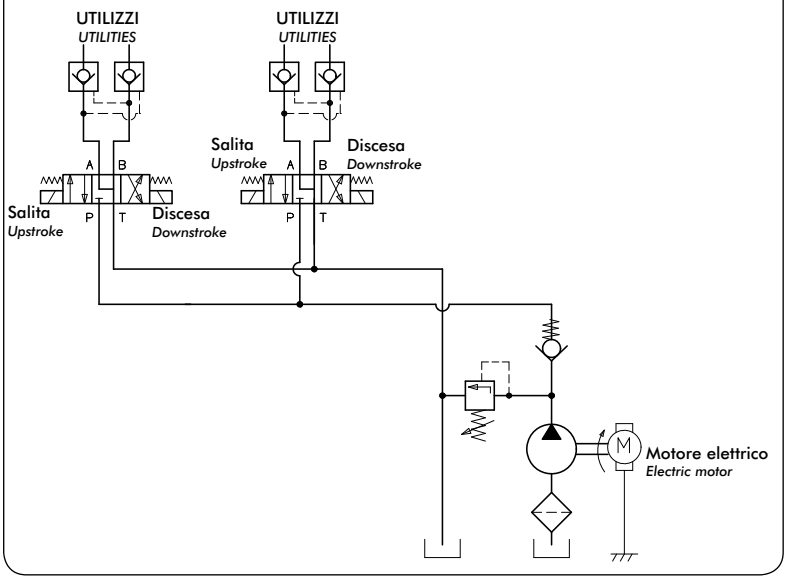
CODICE FAMIGLIA 147
FAMILY CODE

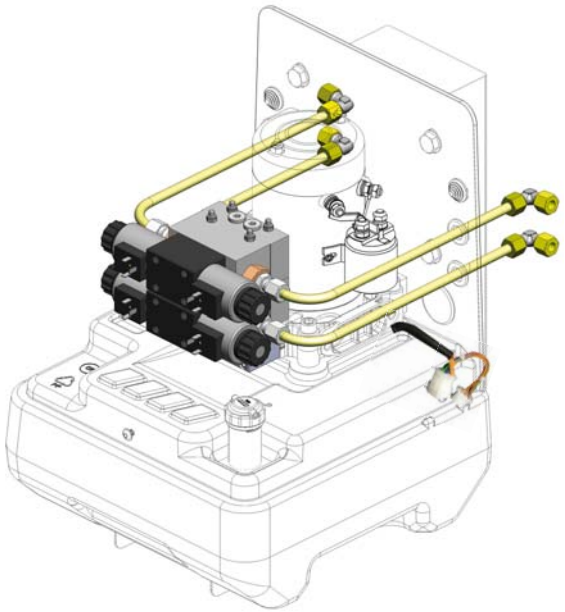
Kube

Centralina idraulica tipo 2A2, comprensiva di cavo cablato per comandi esterni e 2 elettrovalvole con utilizzo collegato a scarico tipo A2. È inoltre montata una valvola di blocco su ogni ramo d'utilizzo. Completamente adattabile ad ogni esigenza (ved. schema idraulico). Motori da 2000W - 12V e 3000W - 24V. Serbatoio da 15 litri con tappo sfiato. Flangiabile direttamente al veicolo. Disponibile anche con pompa a mano di emergenza.

Hydraulic power pack type 2A2, provided with wired cable for outside controls and 2 electro-valves with use directly connected with type A2 drain. It is mounted on a block valve for any field of use. Easy-fitting uses for any need (see hydraulic scheme). Motors of 2000W – 12V and 3000W – 24V. 15 lt tank with release plug. It can be directly flanged on vehicle. Available also with emergency hand pump.

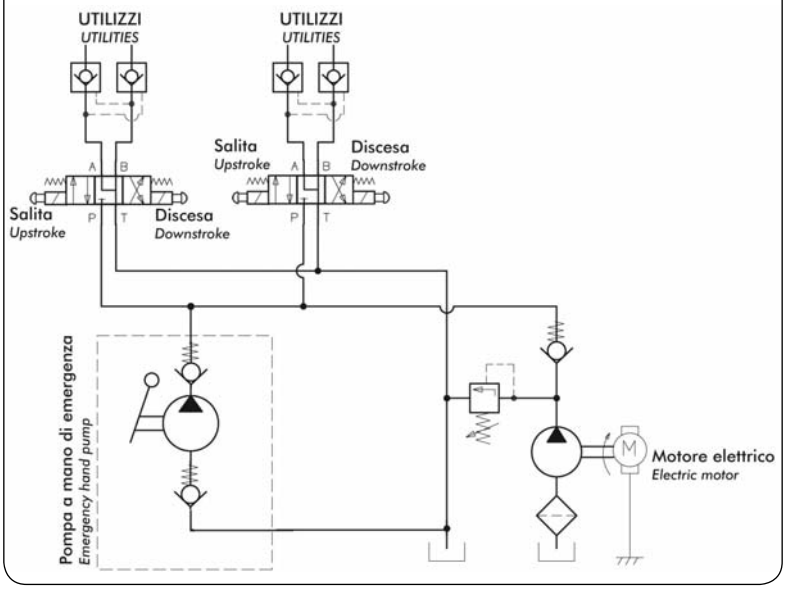
Schema elettroidraulico con 2 EV doppio effetto tipo A2 + valv. blocco
Electric and hydraulic circuit diagram with 2 double-acting A2 type EV cartridge + block valve

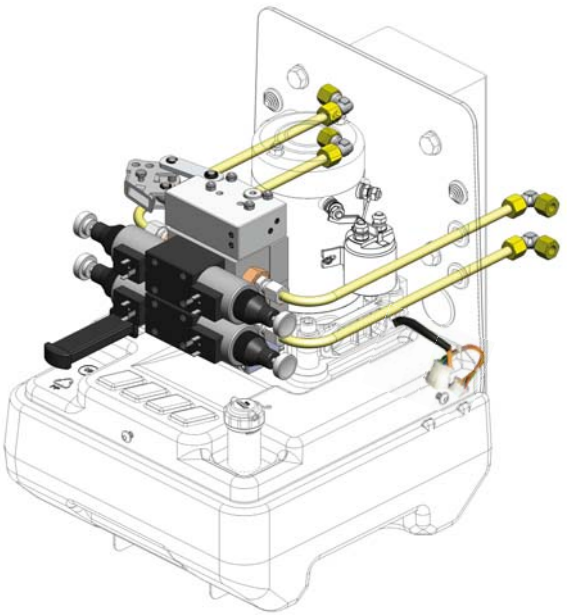




12 V - 2000 W	24 V - 3000 W
Cod. 147-729-12318	Cod. 147-730-24311

Schema elettroidraulico con 2 EV doppio effetto tipo A2+pompa a mano emergenza+valv.block
Electric and hydraulic circuit diagram with 2 double-acting A2 type EV cartridge + emergency pump + block valve





12 V - 2000 W	24 V - 3000 W
Cod. 147-731-12314	Cod. 147-732-24319

Data: Venerdì 27 marzo 2015
Codice foglio: 997-147-70010 Rev: AQ

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MINICENTRALINA 3A1 e 3A1 + EMERGENZA
POWER PACK 3A1 and 3A1 + EMERGENCY

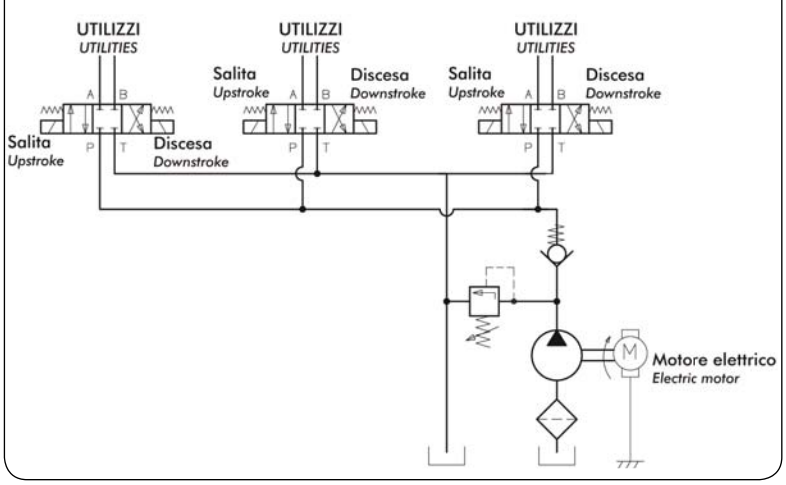
CODICE FAMIGLIA *FAMILY CODE* **147**

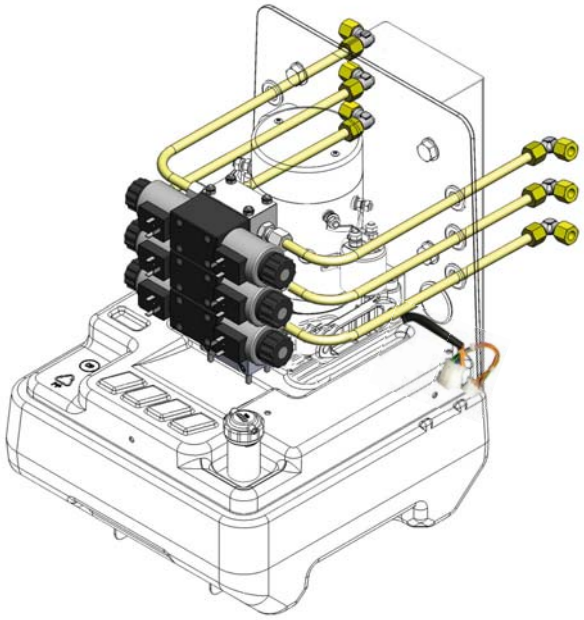
Kube

Centralina idraulica tipo 3A1, comprensiva di cavo cablato per comandi esterni ed elettrovalvola a centri chiusi tipo A1. Utilizzi completamente adattabili per ogni esigenza. Motori da 2000W - 12V e 3000W - 24V. Serbatoio da 15 litri con tappo sfiato. Flangiabile direttamente al veicolo. Disponibile anche con pompa a mano di emergenza.

Hydraulic power pack type 3A1, provided with wired cable for outside controls and electro-valve type A1 closed centres. Easy-fitting uses for any need (see hydraulic scheme). Motors of 2000W – 12V and 3000W – 24V. 15 lt tank with release plug. It can be directly flanged on vehicle. Available also with emergency hand pump.

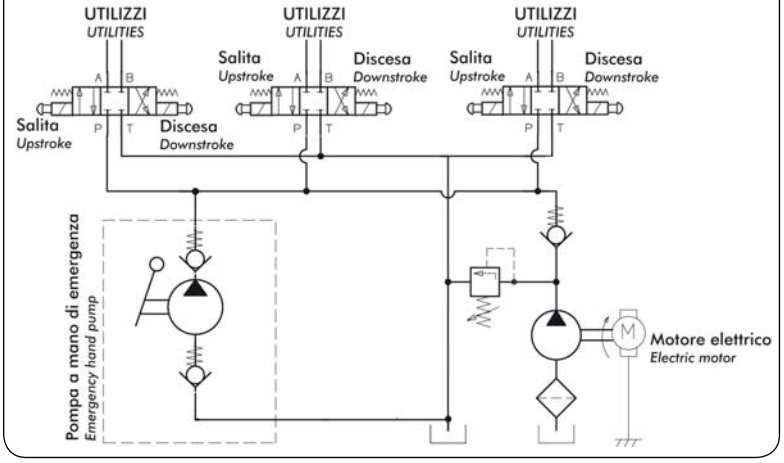
Schema elettroidraulico con 3 EV doppio effetto tipo A1
Electric and hydraulic circuit diagram with 3 double-acting A1 type EV cartridge

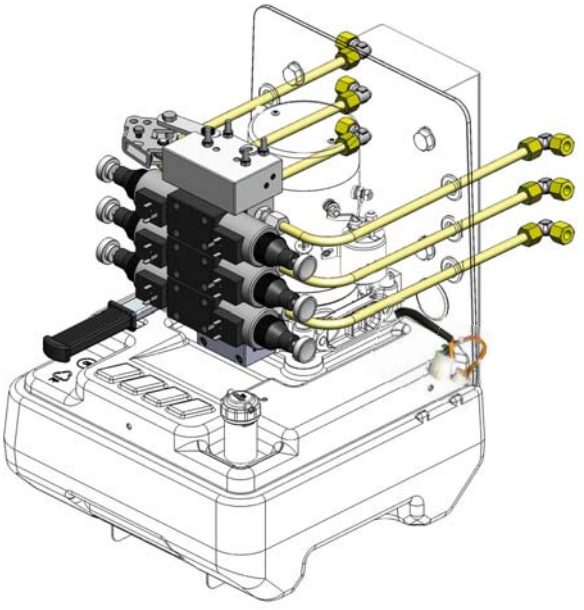




12 V - 2000 W	24 V - 3000 W
Cod. 147-751-12310	Cod. 147-752-24315

Schema elettroidraulico con 3 EV doppio effetto tipo A1 + pompa a mano emergenza
Electric and hydraulic circuit diagram with 3 double-acting A1 type EV cartridge + emergency pump





12 V - 2000 W	24 V - 3000 W
Cod. 147-753-12318	Cod. 147-754-24313

Data: Venerdì 27 marzo 2015

Codice foglio: 997-147-70010 Rev: AQ

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MINICENTRALINA 3A2 e 3A2 + EMERGENZA
POWER PACK 3A2 and 3A2 + EMERGENCY

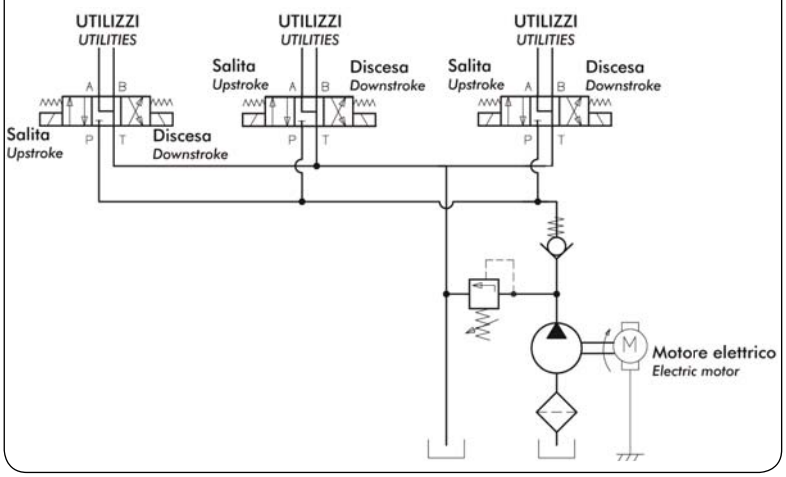
CODICE FAMIGLIA *FAMILY CODE* **147**

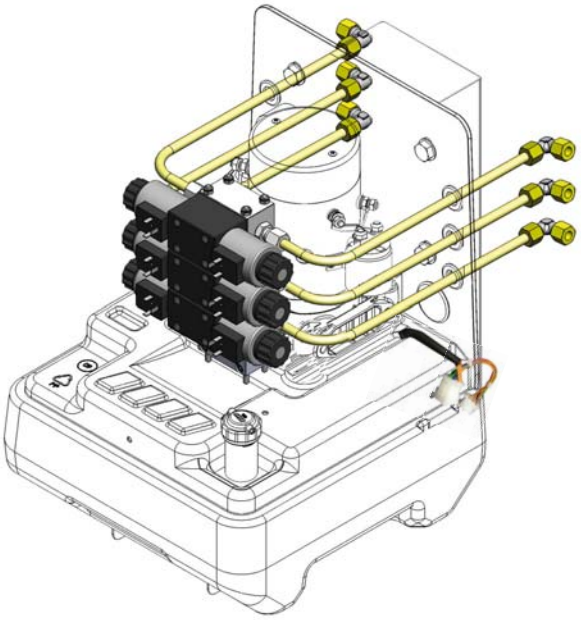
Kube

Centralina idraulica tipo 3A2, comprensiva di cavo cablato per comandi esterni ed elettrovalvola con utilizzo collegato a scarico tipo A2. Completamente adattabile ad ogni esigenza (ved. schema idraulico). Motori da 2000W - 12V e 3000W - 24V. Serbatoio da 15 litri con tappo sfiato. Flangiabile direttamente al veicolo. Disponibile anche con pompa a mano di emergenza.

Hydraulic power pack type 3A2, provided with wired cable for outside controls and electro-valve with use directly connected with type A2 drain. Easy-fitting uses for any need (see hydraulic scheme). Motors of 2000W – 12V and 3000W – 24V. 15 lt tank with release plug. It can be directly flanged on vehicle. Available also with emergency hand pump.

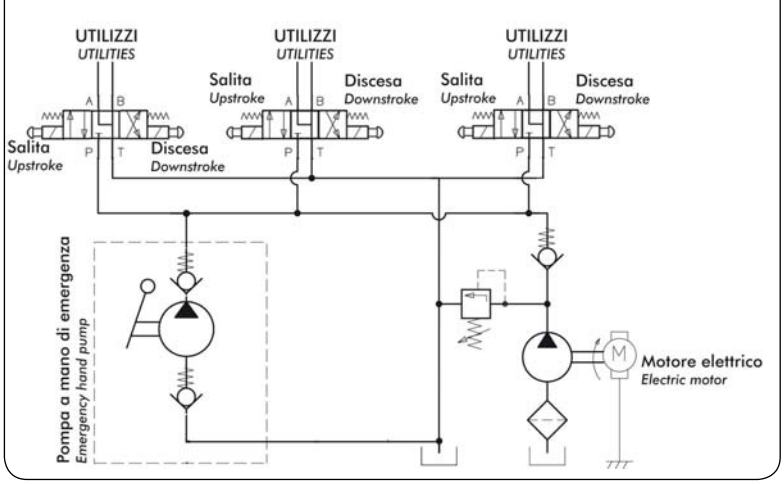
Schema elettroidraulico con 3 EV doppio effetto tipo A2
Electric and hydraulic circuit diagram with 3 double-acting A2 type EV cartridge

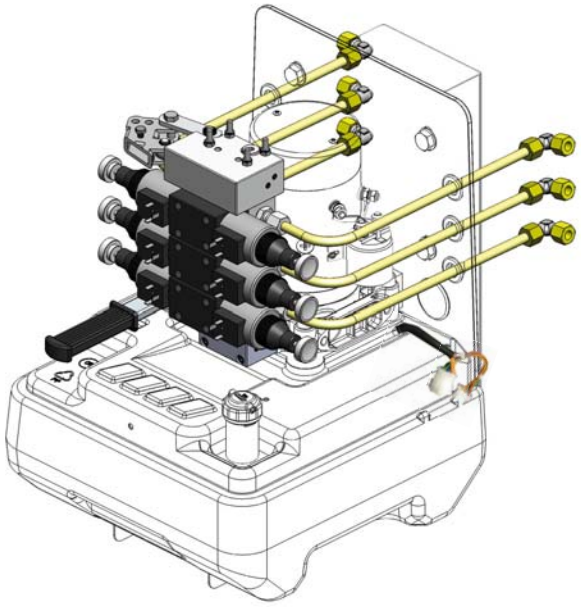




12 V - 2000 W	24 V - 3000 W
Cod. 147-755-12316	Cod. 147-756-24311

Schema elettroidraulico con 3 EV doppio effetto tipo A2 + pompa a mano emergenza
Electric and hydraulic circuit diagram with 3 double-acting A2 type EV cartridge + emergency pump





12 V - 2000 W	24 V - 3000 W
Cod. 147-757-12314	Cod. 147-758-24319

Data: Venerdì 27 marzo 2015
Codice foglio: 997-147-70010 Rev: AQ

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MINICENTRALINA 3A2 + VALV. BLOCK e 3A2 + VALV.BLOCK + EMERGENZA
POWER PACK 1A2 + BLOCK VALVE and 1A2 + BLOCK VALVE + EMERGENCY

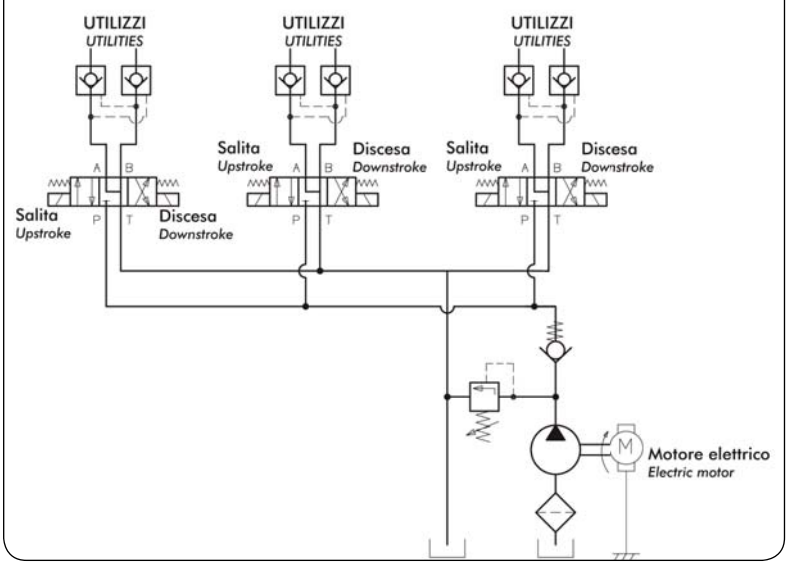
CODICE FAMIGLIA 147
FAMILY CODE

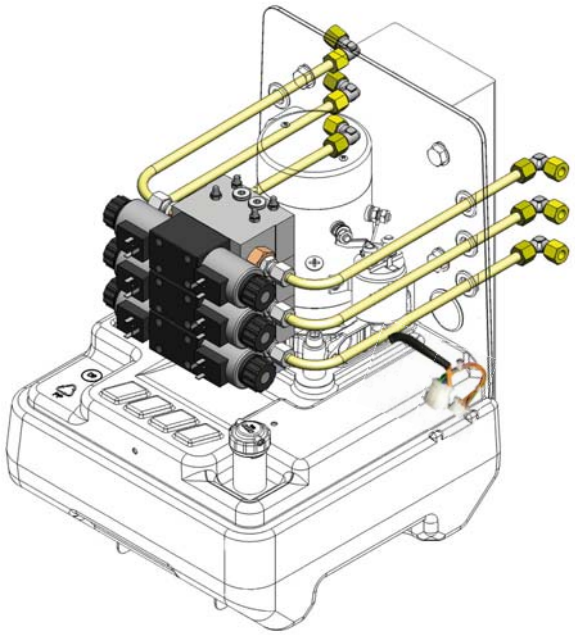
Kube

Centralina idraulica tipo 3A2, comprensiva di cavo cablato per comandi esterni ed elettrovalvola con utilizzo collegato a scarico tipo A2. È inoltre montata una valvola di blocco su ogni ramo d'utilizzo. Completamente adattabile ad ogni esigenza (ved. schema idraulico). Motori da 2000W - 12V e 3000W - 24V. Serbatoio da 15 litri con tappo sfiato. Flangiabile direttamente al veicolo. Disponibile anche con pompa a mano di emergenza.

Hydraulic power pack type 3A2, provided with wired cable for outside controls and electro-valve with use directly connected with type A2 drain. It is mounted on a block valve for any field of use. Easy-fitting uses for any need (see hydraulic scheme). Motors of 2000W – 12V and 3000W – 24V. 15 lt tank with release plug. It can be directly flanged on vehicle. Available also with emergency hand pump.

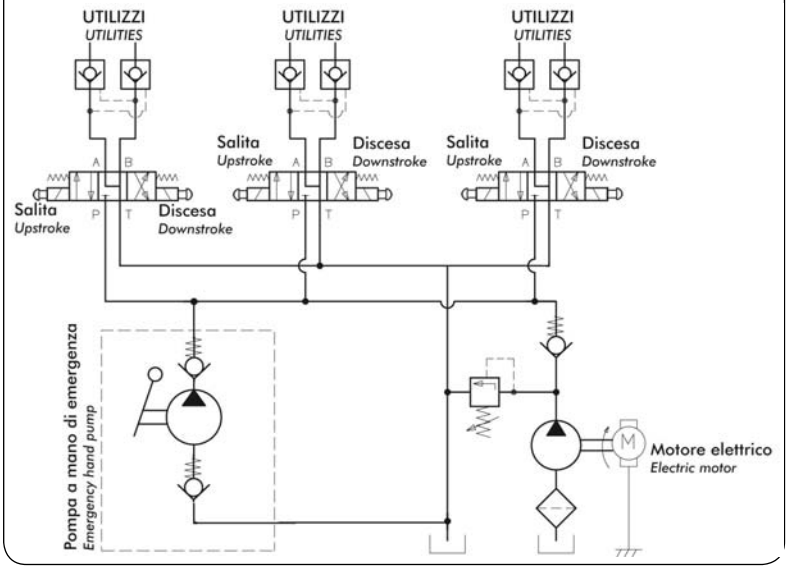
Schema elettroidraulico con 3 EV doppio effetto tipo A2 + valv. blocco
Electric and hydraulic circuit diagram with 3 double-acting A2 type EV cartridge + block valve

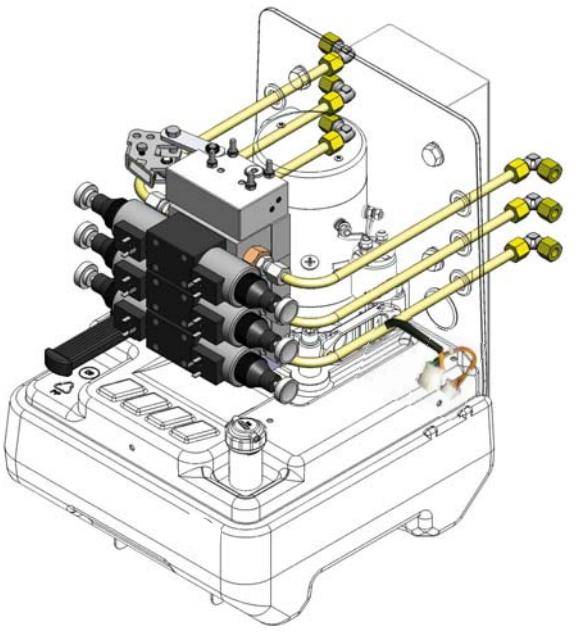




12 V - 2000 W	24 V - 3000 W
Cod. 147-759-12312	Cod. 147-760-24315

Schema elettroidraulico con 3 EV doppio effetto tipo A2+pompa a mano emergenza+valv.block
Electric and hydraulic circuit diagram with 3 double-acting A2 type EV cartridge + emergency pump + block valve





12 V - 2000 W	24 V - 3000 W
Cod. 147-761-12318	Cod. 147-762-24313

Data: Venerdì 27 marzo 2015
Codice foglio: 997-147-70010 Rev: AQ

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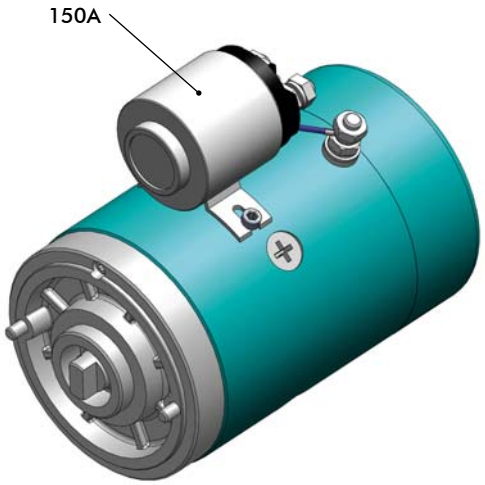
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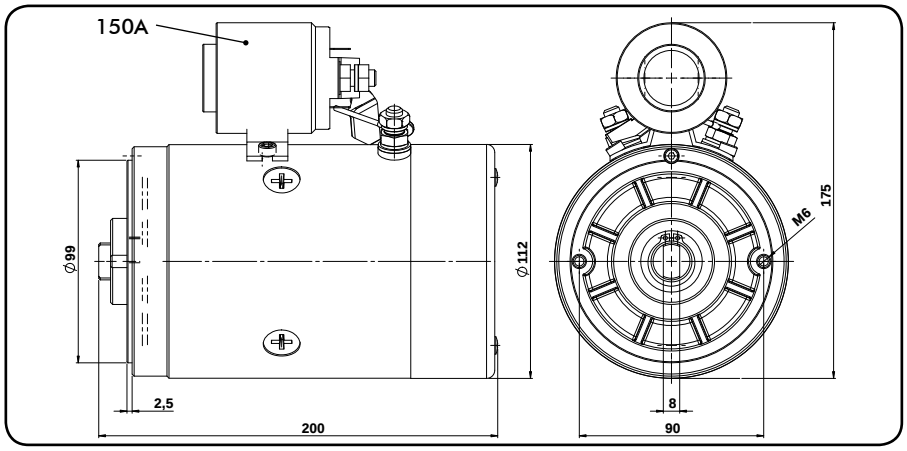
OMFB HYDRAULIC COMPONENTS

MOTORE ELETTRICO DC 12V 2000W - 24V 3000W
ELECTRIC DC MOTOR 12V 2000W - 24V 3000W

CODICE FAMIGLIA *FAMILY CODE* **149**

SERIE *SERIES* Kube



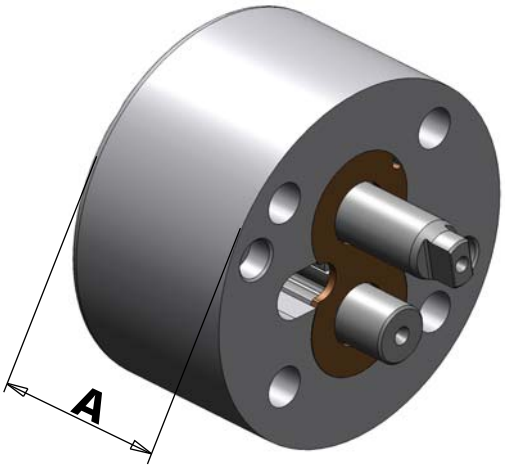


Codice motore completo *Motor complete code*	Codice teleruttori *Remote control switch code*	Tensione *Tension* V	Potenza *Power* W	Indice protezione *Protection index*
149-165-00561	149-170-00064	12	2000	IP 54
149-165-00570	149-170-00082	24	3000	

POMPA
PUMP

CODICE FAMIGLIA *FAMILY CODE* **149**

Kube



Codice / *Code*	Descrizione *Description*	A
149-201-00100	POMPA SEMIFINITA **1P1** *HALF PUMP* **1P1**	**31.5**
149-201-00208	POMPA SEMIFINITA **1P2** *HALF PUMP* **1P2**	**35.5**
149-201-00315	POMPA SEMIFINITA **1P3.1** *HALF PUMP* **1P3.1**	**40**
149-201-00477	POMPA SEMIFINITA **1P4.7** *HALF PUMP* **1P4.7**	**46.5**

Fluido idraulico *Fluid*	Minerale o sintetico compatibile con guarnizioni: *Mineral or synthetic compatible with the following seals:* NBR, FKM, FPM, Nylon				
Viscosità cinematica consigliata *Kinematic viscosity suggested*	T media ambiente (°C) *Average ambient temp. (°C)*	< -10	-10÷10	10÷35	> 35
	VG (cSt = mm²/s)	22	32	46	68
Viscosità cinematica ottimale di esercizio *Optimale kinematic viscosity*	VG= 10 cSt ÷ 100 cSt				
Viscosità cinematica max consentita all'avviamento *Max kinematic viscosity suggested at the start-up*	VG= 750 cSt				
Indice di viscosità consigliato/*Viscosity index suggested*	VI > 100				
Grado di filtrazione / *Oil filtering*	> 200 bar: 10 µm < 200 bar: 25 µm				
Pressione di aspirazione / *Inlet pressure*	-0,3 ÷ 2 bar				

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CARATTERISTICHE TECNICHE 12V 2000W
TECHNICAL SPECIFICATION 12V 2000W

CODICE FAMIGLIA *FAMILY CODE* **147**

Kube

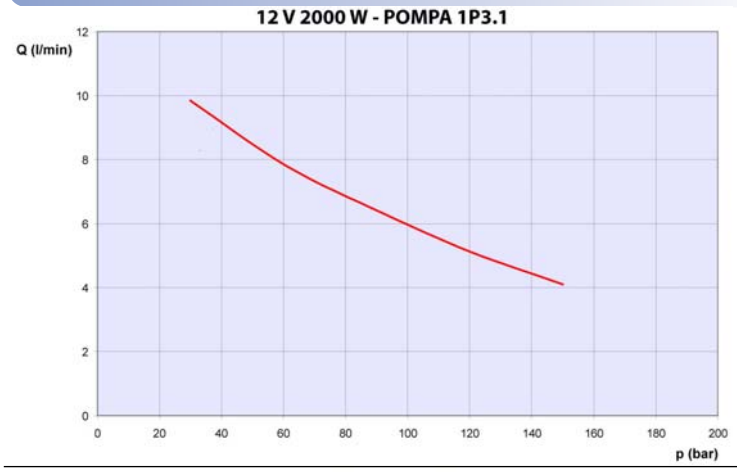


Grafico della portata Q (l/min) in funzione della pressione p (bar).
Nota la portata necessaria Q in l/min e la pressione di lavoro p in bar dal grafico si sceglie la pompa più idonea all'applicazione.

Graph of the flow Q (l/min) according to the pressure P (bar).
Once know the required flow Q in l/min and the working pressure P in bar from the graph you select the most suitable pump for the application.

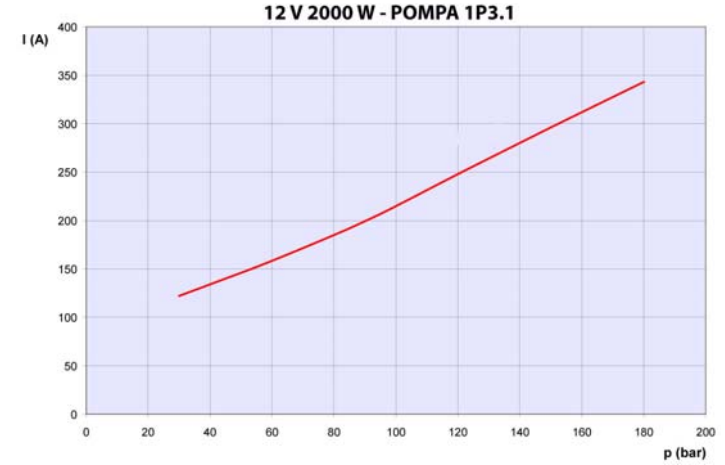


Grafico della corrente I (A) in funzione della pressione p (bar).
Nota la cilindrata della pompa in *cc* e la pressione di lavoro in *bar* da grafico si ricava il valore dell'assorbimento in A.

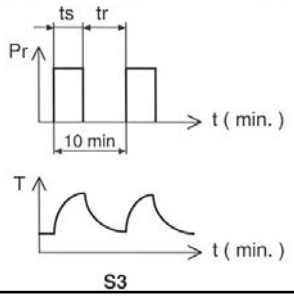
Graph of the current I (A) according to the Pressure P (bar).
Once know the displacement of the pump in cc and the working pressure in bar the graph you can detect the value of the absorption in A.

I grafici sono stati costruiti con prove al banco con le seguenti condizioni:
The graphs are worked out from laboratory tests with the following parameters:
- temperatura ambiente 20°C / *ambient temperature 20°C*
- batterie 12V / *battery 12V*
- cavi alimentazione 5 metri / *feed wires L=5 mts*
- olio idraulico VG68 / *hydraulic oil VG 68*

Temperatura di utilizzo / *Working temperature* -15°C ÷ +80°C

Condizioni di utilizzo: è importante rispettare i tempi di utilizzo indicati per evitare surriscaldamento del motore. Il parametro utilizzato per stabilire il ciclo ed i tempi di lavoro è S3.
Servizio intermittente periodico S3: il motore funziona secondo una sequenza di cicli uniformi (durata dei cicli 10min). Questi comprendono un tempo di funzionamento a carico costante (ts) e un tempo di riposo (tr). Esempio: S3-10%. Il motore lavora per 1 minuto e resta fermo per 9 minuti.
Working conditions: *it is important to keep to the working time given to avoid overheating of the motor. The parameter used to work out the cycle and working time is S3.*
Periodical intermittent service S3: *the motor runs according to a sequence of uniform cycles (time of the cycles 10 min). These comprehend a working time with constant load (ts) and a break time (tr). Example: S3-10%. The motor works 1 minutes and has a break of 9 mins.*

$$S3\ (\%) = \frac{ts}{ts + tr} \cdot 100$$



I (A)	S3%
350	1,5
300	2
250	3
200	5
150	8
100	12
50	20

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OMFB HYDRAULIC COMPONENTS

CARATTERISTICHE TECNICHE 24V 3000W
TECHNICAL SPECIFICATION 24V 3000W

CODICE FAMIGLIA *FAMILY CODE* **147**

Kube

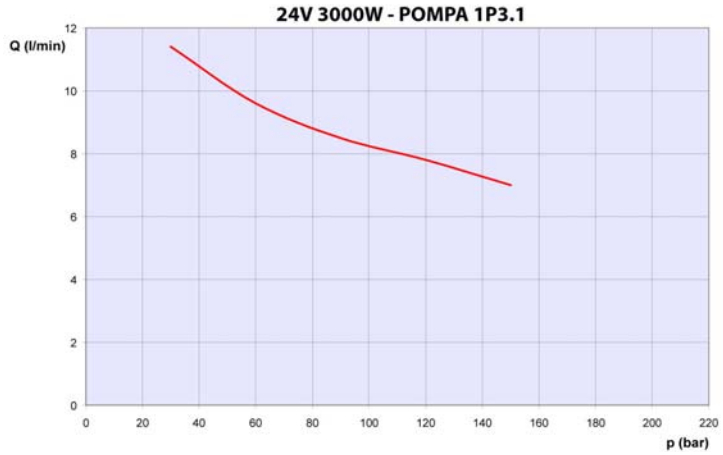


Grafico della portata Q (l/min) in funzione della pressione p (bar).
Nota la portata necessaria Q in l/min e la pressione di lavoro p in bar dal grafico si sceglie la pompa più idonea all'applicazione.

Graph of the flow Q (l/min) according to the pressure P (bar).
Once know the required flow Q in l/min and the working pressure P in bar from the graph you select the most suitable pump for the application.

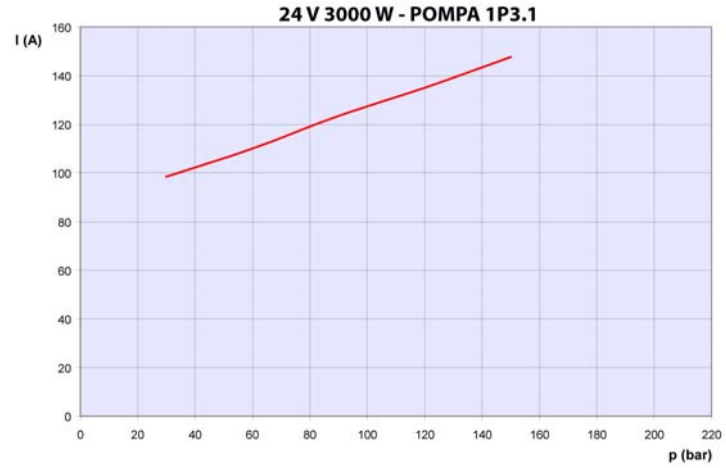


Grafico della corrente I (A) in funzione della pressione p (bar).
Nota la cilindrata della pompa in *cc* e la pressione di lavoro in *bar* da grafico si ricava il valore dell'assorbimento in A.

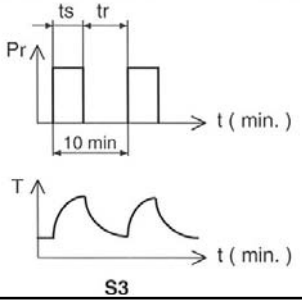
Graph of the current I (A) according to the pressure P (bar).
Once know the displacement of the pump in cc and the working pressure in bar the graph you can d etect the value of the absorption in A.

I grafici sono stati costruiti con prove al banco con le seguenti condizioni:
The graphs are worked out from laboratory tests with the following parameters:
- temperatura ambiente 20°C / *ambient temperature 20°C*
- batterie 24V / *battery 24V*
- cavi alimentazione 5 metri / *feed wires L=5 mts*
- olio idraulico VG68 / *hydraulic oil VG 68*

Temperatura di utilizzo / *Working temperature* -15°C ÷ +80°C

Condizioni di utilizzo: è importante rispettare i tempi di utilizzo indicati per evitare surriscaldamento del motore. Il parametro utilizzato per stabilire il ciclo ed i tempi di lavoro è S3.
Servizio intermittente periodico S3: il motore funziona secondo una sequenza di cicli uniformi (durata dei cicli 10min). Questi comprendono un tempo di funzionamento a carico costante (ts) e un tempo di riposo (tr). Esempio: S3-10%. Il motore lavora per 1 minuto e resta fermo per 9 minuti.
Working conditions: *it is important to keep to the working time given to avoid overheating of the motor. The parameter used to work out the cycle and working time is S3.*
Periodical intermittent service S3: *the motor runs according to a sequence of uniform cycles (time of the cycles 10 min). These comprehend a working time with constant load (ts) and a break time (tr). Example: S3-10%. The motor works 1 minutes and has a break of 9 mins.*

$$S3\ (\%) = \frac{ts}{ts + tr} \cdot 100$$



I (A)	S3%
350	1,5
300	2
250	3
200	5
150	8
100	12
50	20

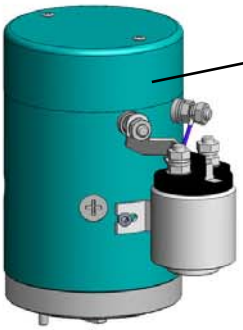
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Codice foglio: 997-147-70010 Rev: AQ



Carter
pag. 9

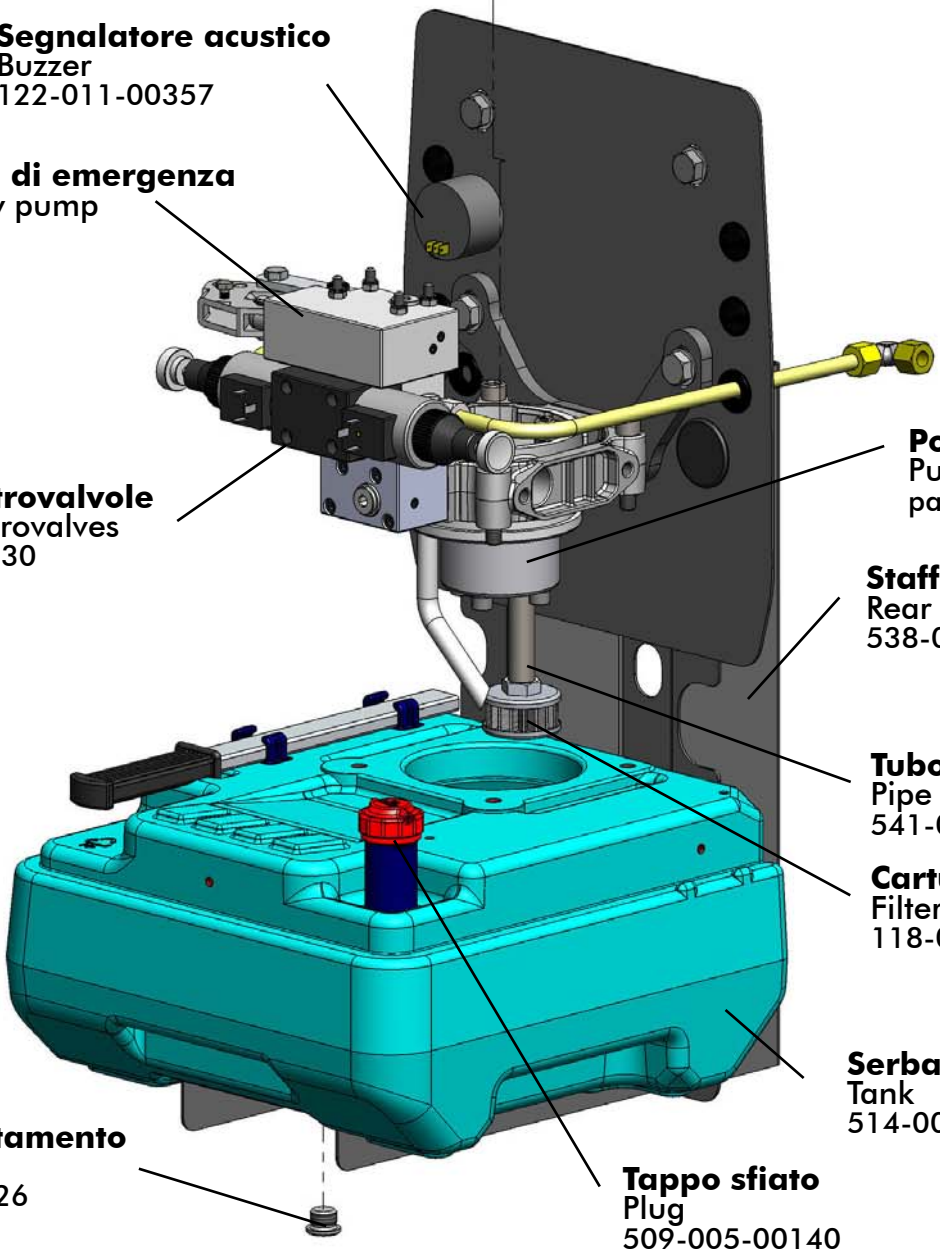


Motori
Motors
pag. 23

Manicotto
Sleeve
114-004-00951

Segnalatore acustico
Buzzer
122-011-00357

Pompa a mano di emergenza
Hand emergency pump
pag. 30



Elettrovalvole
Electrovalves
pag. 30

Pompa
Pump
pag. 23

Staffa fissaggio
Rear bracket
538-006-00200

Tubo
Pipe
541-003-00144

Cartuccia filtro
Filter
118-000-00064

Serbatoio
Tank
514-009-00154

Tappo svuotamento
Plug
115-006-00126

Tappo sfiato
Plug
509-005-00140

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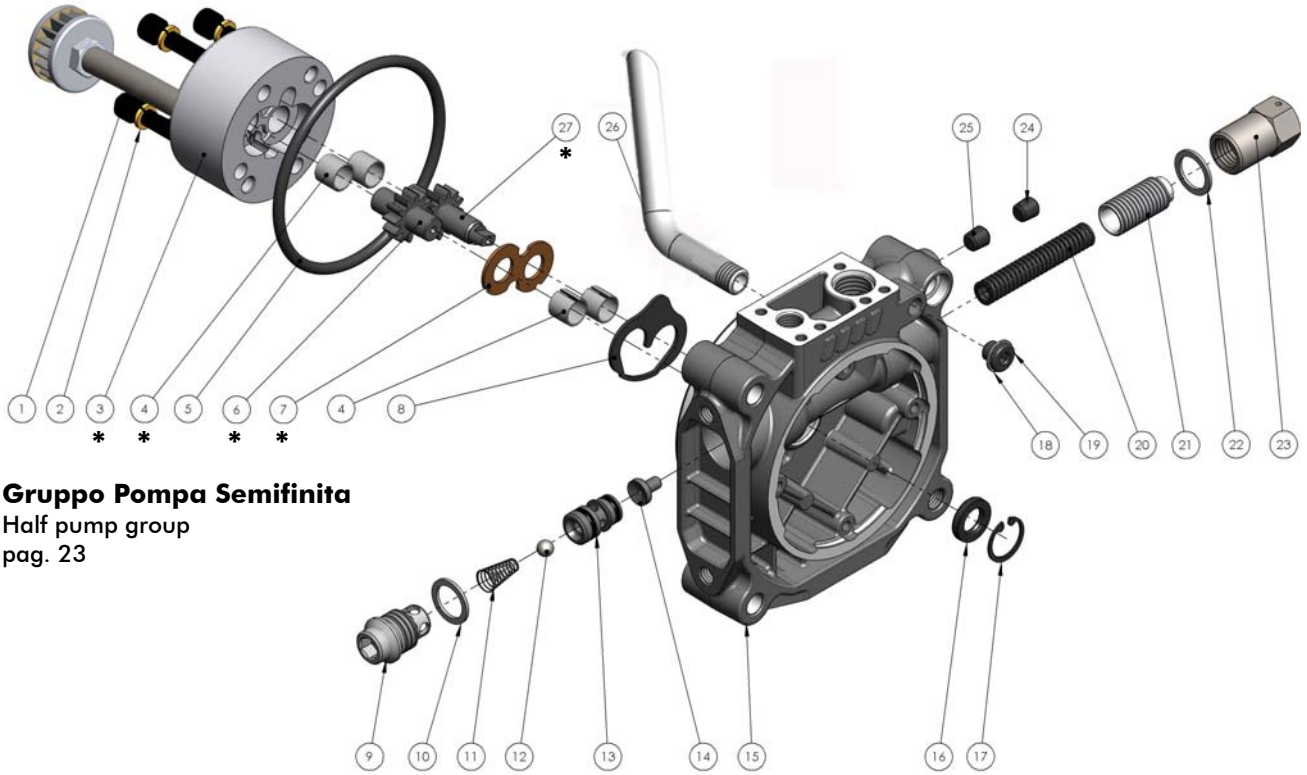
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OMFB HYDRAULIC COMPONENTS

Corpo collegamento motore-pompa
Motor pump connection casing



*** Gruppo Pompa Semifinita**
Half pump group
pag. 23

Pos.	Codice / *code*	Descrizione / *Description*	N°
1	502-003-00584	Vite TCE M8x35 / *Screw M8x35*	4
2	501-008-00045	Rondella elastica M8 / *Washer M8*	4
3 *	517-005-xxxxx	Corpo pompa ad ingranaggi / *Gear pump body*	1
4 *	533-004-00024	Boccola / *Bushing*	2* + 2
5	506-004-00254	Guarnizione OR (5,34x101) / *O-Ring (5,34x101)*	1
6 *	523-001-xxxxx	Albero condotto / *Driven shaft*	1
7 *	531-002-00020	Rasamento H1,65 / *Thrust plate*	1
8	506-020-00049	Guarnizione coperchio posteriore / *Rear cover gasket*	1
9	540-003-00404	Tappo valvola di ritegno / *Check valve cap*	1
10	116-009-00372	Rondella alluminio 20x24x1,5 / *Aluminium washer 20x24x1,5*	1
11	512-004-00135	Molla / *Spring*	1
12	510-009-00072	Sfera 5/16" / *Ball 5/16"*	1
13	500-020-00032	Gruppo corpo guida sfera / *Ball guide casing*	1
14	543-001-00017	Perno di tenuta e guida molla / *Holding pin and spring guide*	1
15	519-003-00409	Corpo collegamento motore-pompa / *Motor pump connection casing*	1
16	506-007-00091	Paraolio 12x22x4 / *Oil seal*	1
17	501-001-00186	Anello seeger 22I / *Seeger ring 22I*	1
18	116-009-00069	Rondella alluminio 10x16x1 / *Aluminium washer 10x16x1*	1
19	115-006-00108	Tappo in acciaio / *Steel plug*	1
20	512-005-01071	Molla / *Spring*	1
21	504-000-00172	Grano di registro / *Register screw*	1
22	116-009-00309	Rondella alluminio 17x23x1,5 / *Aluminium washer 17x23x1,5*	1
23	540-006-00045	Tappo ch.22 / *Screw cap ch.22*	1
24	504-020-10087	Grano conico / *Tapered dowel*	1
25	504-014-10094	Grano cilindrico / *Cylindrical dowel*	1
26	541-006-00089	Tubo scarico / *Tube*	1
27 *	523-010-xxxxx	Albero conduttore / *Drive shaft*	1

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CARATTERISTICHE GENERALI

A completamento della gamma proposta per le minicentraline, la OMFB S.p.A. vi consiglia l'utilizzo degli accessori originali che, essendo studiati ad hoc, sono in grado di garantire un corretto ed affidabile funzionamento del sistema.

Un corretto impiego degli accessori da noi consigliati e proposti in questo catalogo, permetterà al progettista e/o utilizzatore di ottenere la maggior parte delle soluzioni funzionali richieste. Qualora il cliente debba far fronte a progetti o soluzioni applicative complesse, il nostro Servizio Progettazione è in grado di supportarlo nella scelta dei componenti più idonei.

Il nostro Servizio Tecnico Commerciale è a completa disposizione per qualsiasi ulteriore chiarimento circa le applicazioni di questo prodotto.

GENERAL FEATURES

To complete the range of power packs, OMFB S.p.A. advises you to use original accessories, which have been specially designed and are thus able to guarantee the efficient and reliable operation of the system.

If the accessories recommended in this catalogue are used properly, the systems designer and or/ user will be able to set up most of the operational system demanded. If more complex applications are requested, our Systems Design Service will be able to help you in the selection of the most suitable components.

Our Commercial Technical Office is entirely at your service for any further queries you may have on application of this product.

Data: Venerdì 27 marzo 2015

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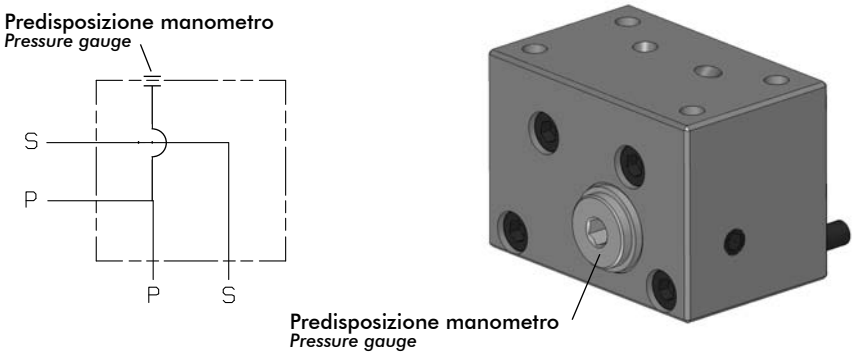
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Pannello base completo per tutte le versioni con Elettrovalvole tipo A1 e A2

Complete base panel for all versions with electro valves type A1 and A2

Cod. 149-115-00123



Pannello intermedio completo per versioni:

- 1A1 con e senza emergenza
- 1A2 con e senza emergenza
- 2A1 con e senza emergenza
- 2A2 con e senza emergenza

Complete intermediate panel for versions:

- *1A1 with and without emergency*
- *1A2 with and without emergency*
- *2A1 with and without emergency*
- *2A2 with and without emergency*

Cod. 149-115-00070



Pannello intermedio completo per versioni con valvola di blocco

Complete intermediate panel for versions with block valve

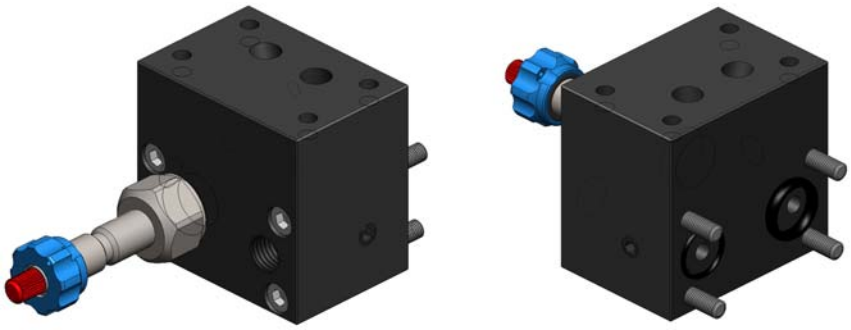
Cod. 149-116-00042



Pannello base speciale solo per KUBE RE + EMERGENZA (cartuccia EV inclusa)

Special base panel only for KUBE RE + EMERGENCY (Solenoid valve cartridge included)

Cod. 149-115-00132



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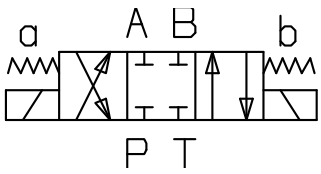
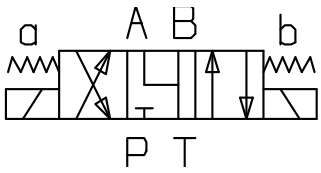
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ELETTROVALVOLE "CETOP 3"
"CETOP 3" ELECTROVALVES

CODICE FAMIGLIA *FAMILY CODE* **131**

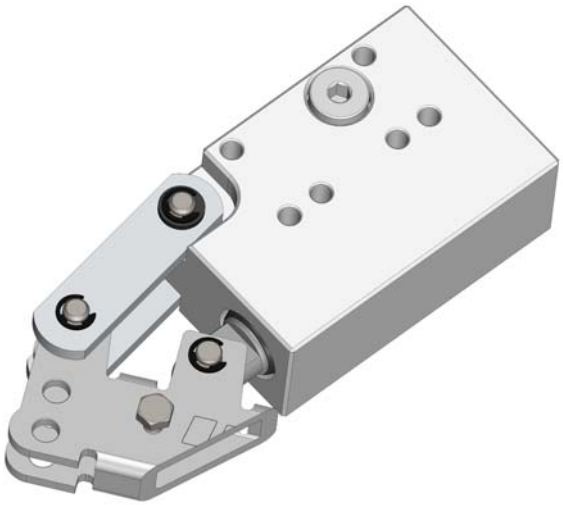
Kube

SOLENOIDE *SOLENOID*	SIMBOLO OLEODINAMICO *OLEODINAMIC SYMBOL*	CODICE *CODE*	DESCRIZIONE *DESCRIPTION*
2	 **A1**	131-001-00010	ELV. EV 15 A1 12V cc B.O.
		131-002-00019	ELV. EV 15 A1 24V cc B.O.
		131-003-00018	ELV. EV 15 A1 110V cc B.O.
		131-004-00017	ELV. EV 15 A1 220V cc B.O.
		131-001-10018	ELV. EV 15 A1 12V cc B.O. 2° SR.
		131-002-10017	ELV. EV 15 A1 24V cc B.O. 2° SR.
		131-003-10016	ELV. EV 15 A1 110V cc B.O. 2° SR.
	 **A2**	131-001-00029	ELV. EV 15 A2 12V cc B.O.
		131-002-00028	ELV. EV 15 A2 24V cc B.O.
		131-003-00027	ELV. EV 15 A2 110V cc B.O.
		131-004-00026	ELV. EV 15 A2 220V cc B.O.
		131-001-10027	ELV. EV 15 A2 12V cc B.O. 2° SR.
		131-002-10026	ELV. EV 15 A2 24V cc B.O. 2° SR.
		131-003-10025	ELV. EV 15 A2 110V cc B.O. 2° SR.

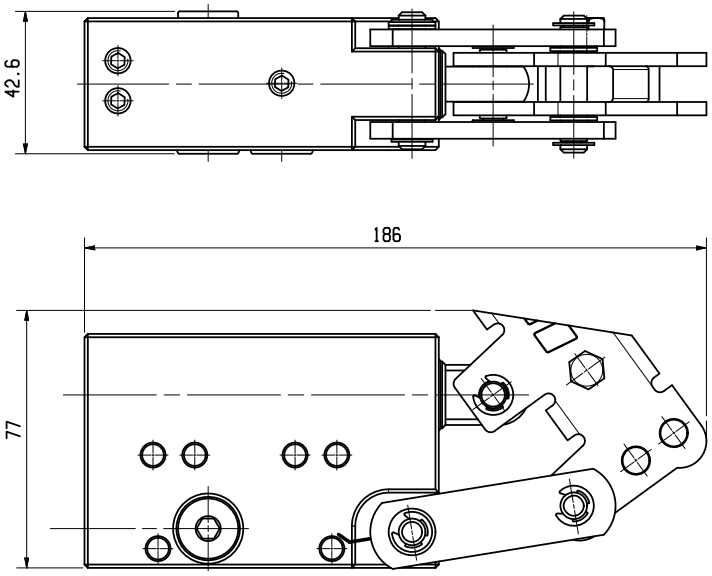
POMPA A MANO DI EMERGENZA
EMERGENCY HAND PUMP

CODICE FAMIGLIA *FAMILY CODE* **106**

Kube



Cod.106-936-00308



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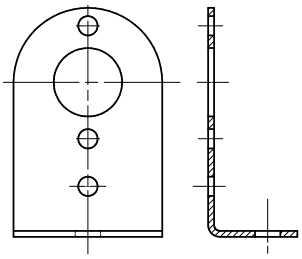
STACCABATTERIA E CAVI ALIMENTAZIONE
BATTERY SWITCH AND POWER WIRES

Kube

Cod. 315-500-00105
(Staccabatteria+staffa)
(Battery switch+bracket)
Incluso / *Included*

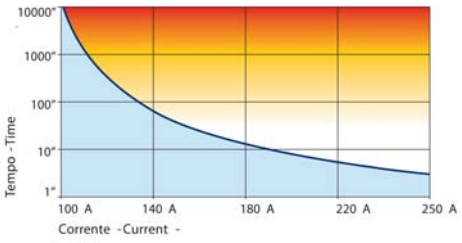


Cod. 538-000-00322

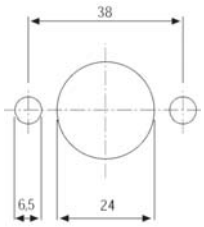


Cod. 122-011-00302

Tensione nominale *Nominal tension*	MAX 24 V
Corrente massima continua *Max. continuous operating current*	100 A
Corrente max. di breve durata *Highest load*	500 A x 5 sec.
Grado di protezione *Protection degree*	IP43
Temperatura d'impiego *Operating temperature*	-40°C / +50°C
Contatti *Contacts*	Rame Copper
Dadi per contatti *Nuts*	M8 Acciaio/ Steel



Con cavo sezione 70mm²
With cable section 70mm²



Fori fissaggio
Fixing holes

Cavi potenza
Power cords
Inclusi / *Included*



A **B**

Codice / *Code*	A	B	L	N° pz.
306-011-00053	Ø 8	Ø 8	40 cm	1
306-011-00213	Ø 8	Ø 8	200 cm	1

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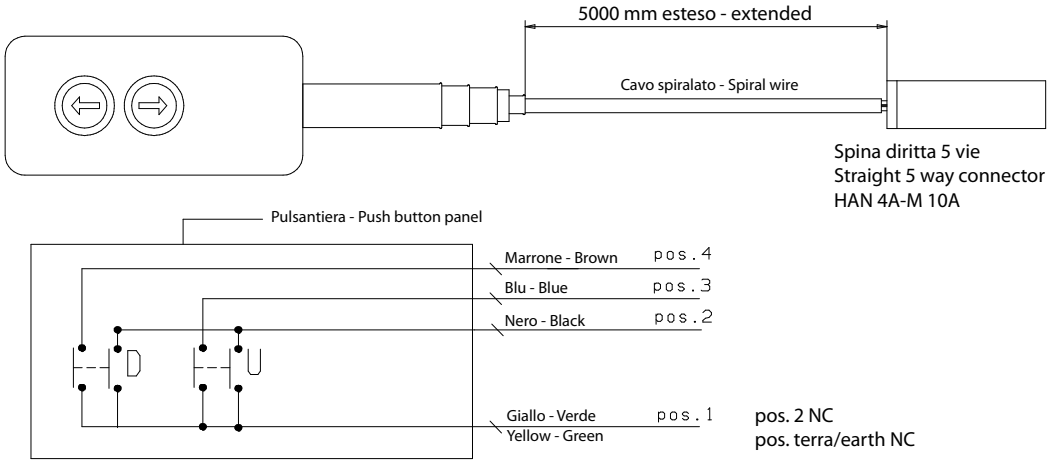
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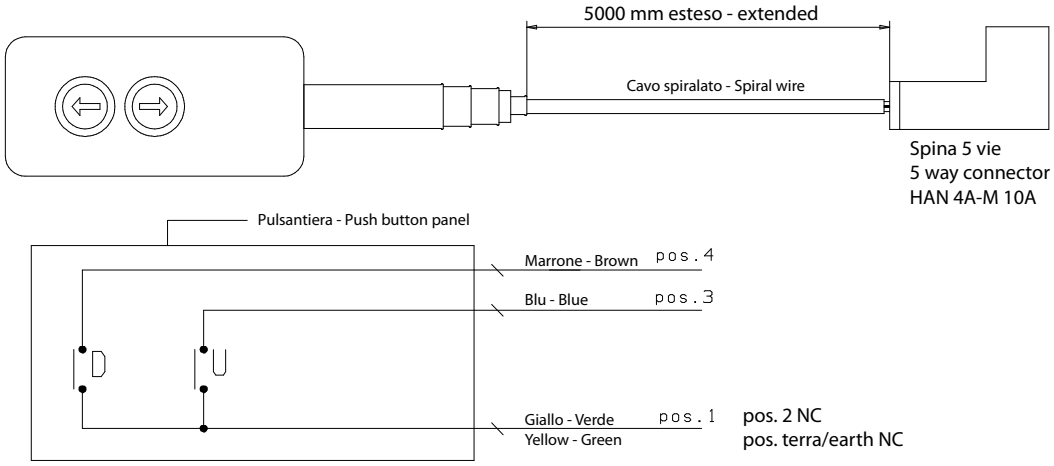
Pulsantiera
Push-button panels
149-155-10043





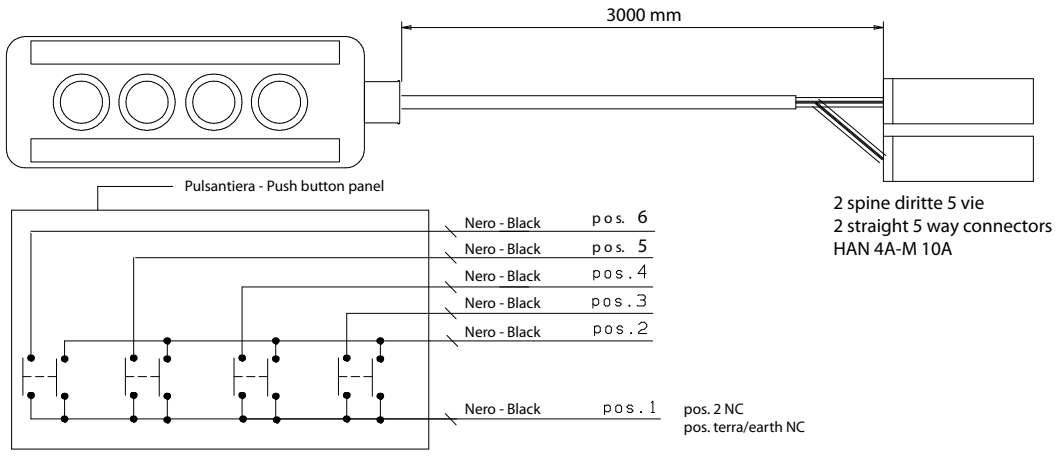
Pulsantiera
Push-button panels
149-155-10052





Pulsantiera
Push-button panels
149-155-10061





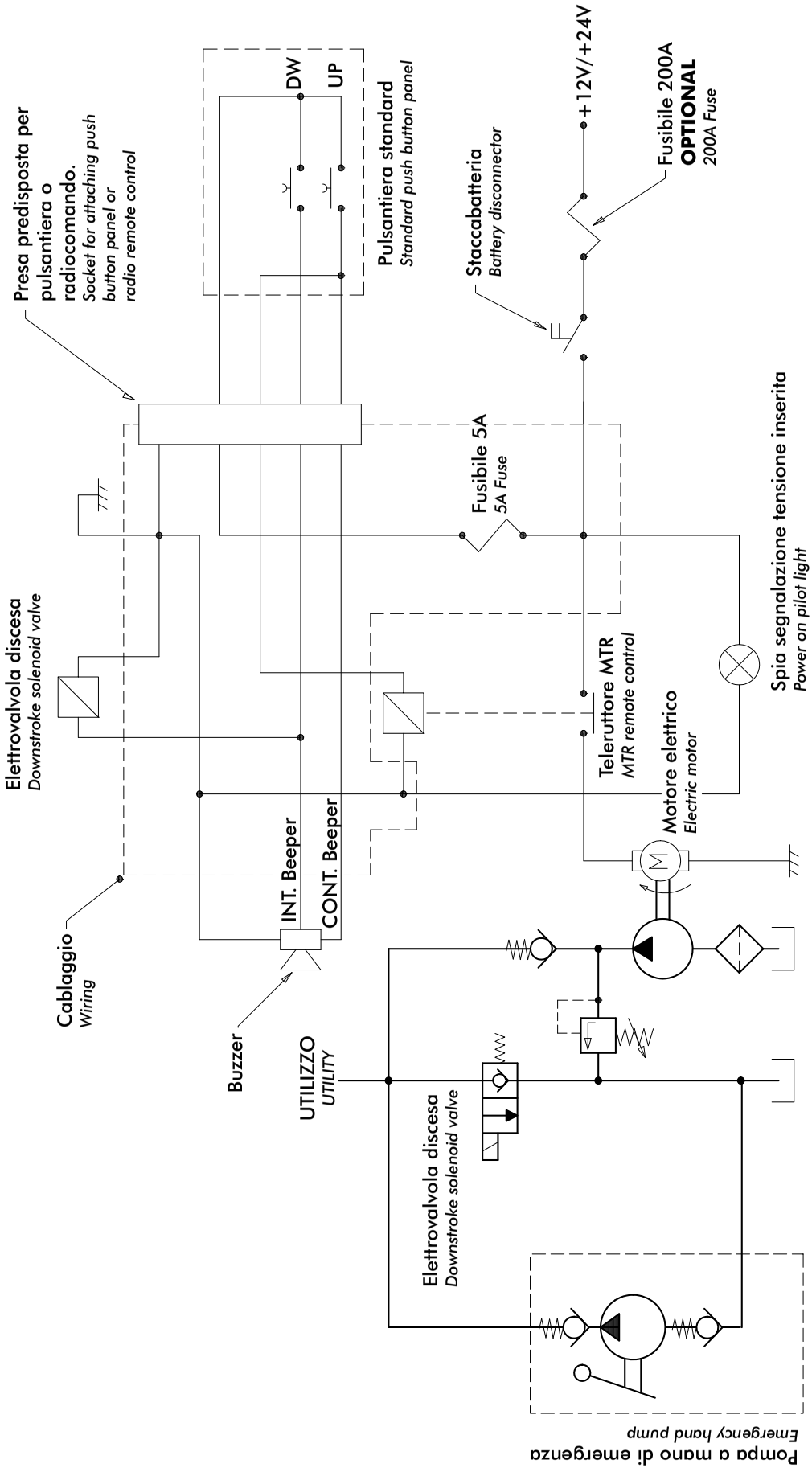
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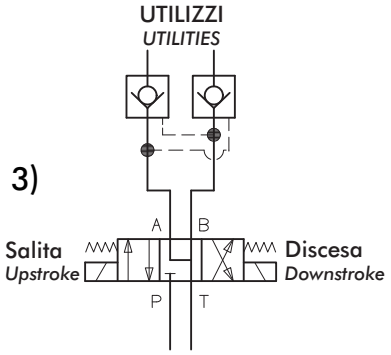
OMFB HYDRAULIC COMPONENTS

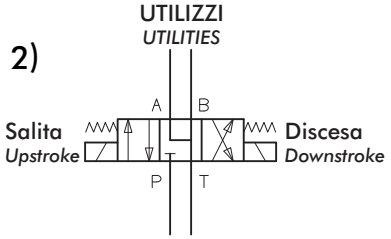
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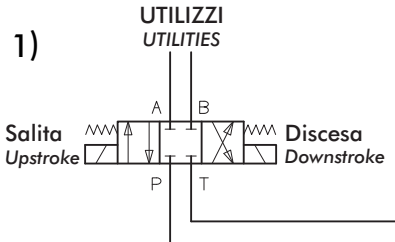
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KUBE 1A1-1A2

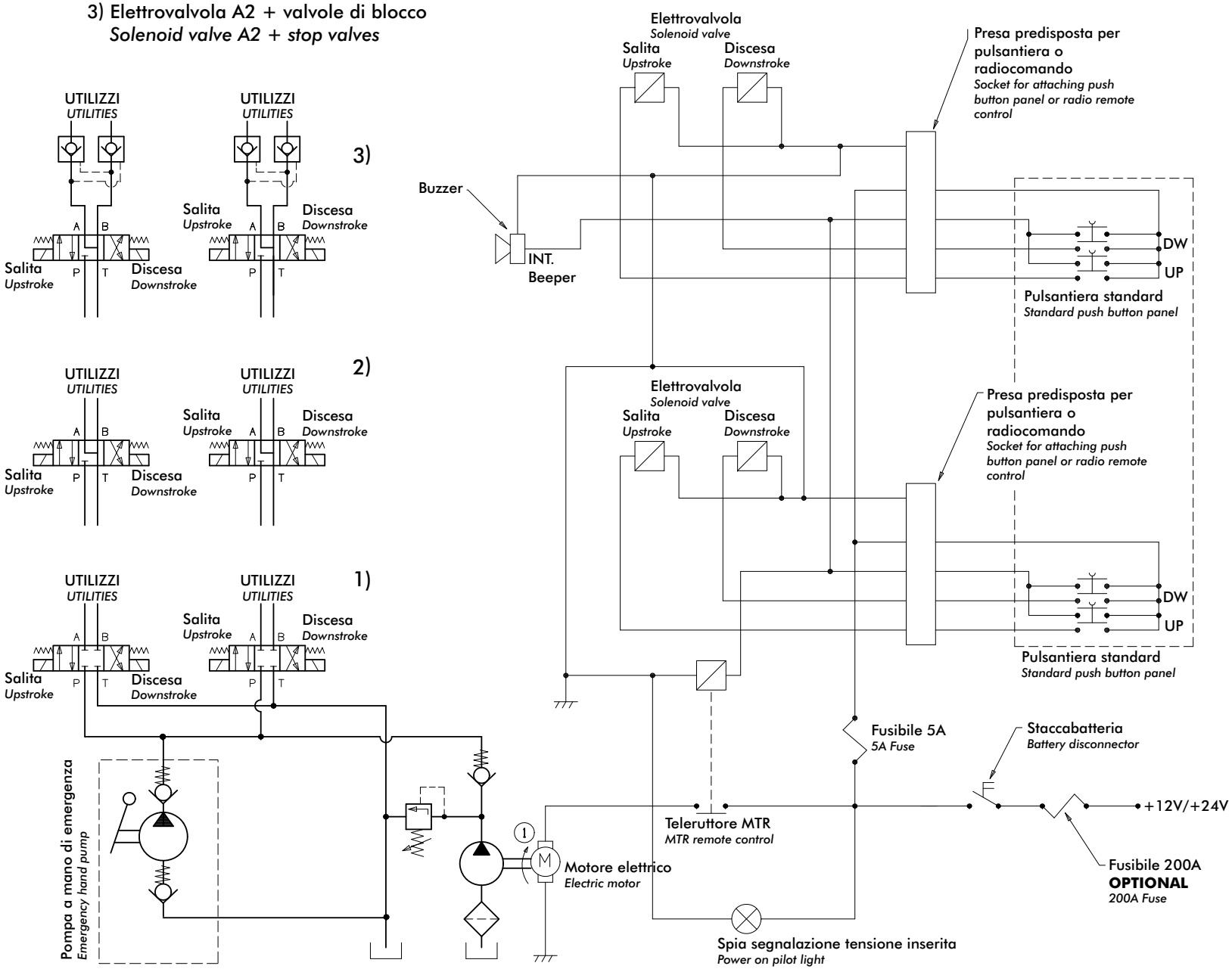
1) Elettrovalvola A1
Solenoid valve A1
2) Elettrovalvola A2
Solenoid valve A2
3) Elettrovalvola A2 + valvole di blocco
Solenoid valve A2 + block valve







1) Elettrovalvola A1
Solenoid valve A1
2) Elettrovalvola A2
Solenoid valve A2
3) Elettrovalvola A2 + valvole di blocco
Solenoid valve A2 + stop valves

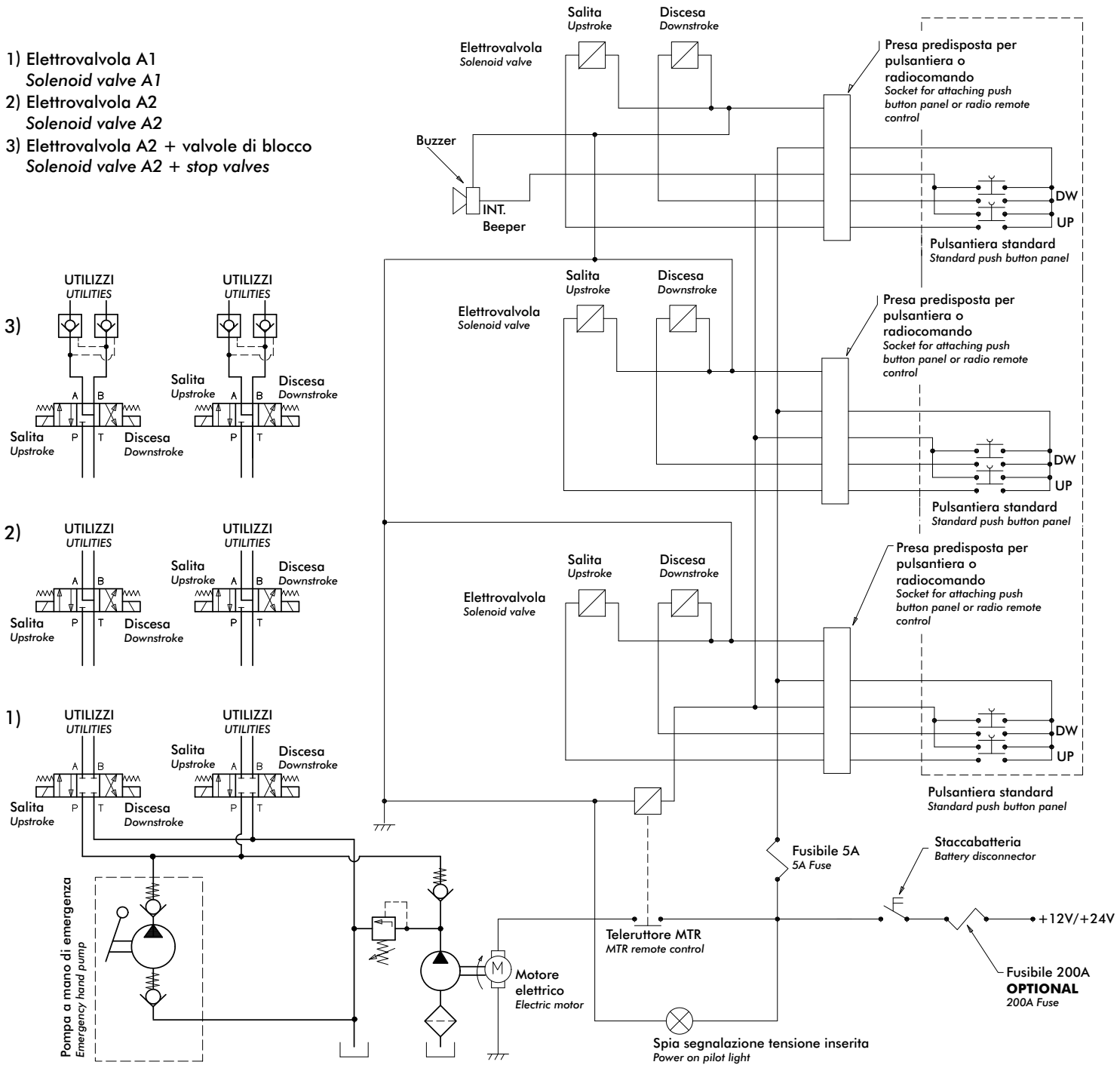


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pag.36

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1) Elettrovalvola A1
Solenoid valve A1
2) Elettrovalvola A2
Solenoid valve A2
3) Elettrovalvola A2 + valvole di blocco
Solenoid valve A2 + stop valves



KUBE 3A1-3A2

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Marcatura del prodotto e certificazioni

Le KUBE con motore in corrente continua a 12V o 24V sono conformi ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla Direttiva Europea 2009/19/CE e dal Regolamento ECE/ONU n°10 Emendamento 2, riguardanti la "Soppressione delle perturbazioni radioelettriche (Compatibilità Elettromagnetica) provocate dai motori ad accensione comandata dei veicoli a motore".
In materia di Compatibilità Elettromagnetica la **2009/19/CE** è la direttiva di riferimento per le unità elettriche/elettroniche installate su veicoli stradali in quanto direttiva specifica ai fini dell'articolo 2, paragrafo 2, della 89/336/CE.
Le prescrizioni della 2009/19/CE devono essere soddisfatte, in materia di Compatibilità Elettromagnetica, da tutti i veicoli definiti nella Direttiva **70/156/CE** riguardante **l'omologazione dei veicoli a motore e dei loro rimorchi,** come da ultimo modificata dalla 92/53/CE, nonchè ai loro **componenti o entità tecniche,** che sono quindi esentati dalla osservanza delle disposizioni della 89/336/CE.

Le prove di conformità prescritte dalla Direttiva 2009/19/CE e dal Reg. ECE/ONU n° 10 Em. 2 sono state condotte presso il laboratorio **PRIMA RICERCA & SVILUPPO** (via Campagna, 92 - 22020 Gaggino Faloppio (CO))**.**

L'omologazione delle KUBE ai requisiti della Dir. 2009/19/CE **è certificata dall'Organismo Notificato NSAI** (National Standards Authority of Ireland-Glasnevin, Dublin 9, Ireland (+353-1-8073800)) con il rilascio del numero d'omologazione per la marcatura del prodotto:

e24*72/245*2009/19*1841

L'omologazione è mostrata con la marcatura del prodotto:

e24 **031841**

L'omologazione delle KUBE con motore in corrente continua a 12V o 24V ai requisiti del Reg. ECE/ONU n°10 Em.2 **è certificata dall'Organismo Notificato NSAI** (National Standards Authority of Ireland - Glasnevin, Dublin 9, Ireland (+353-1-8073800)) con il rilascio del numero d'omologazione per la marcatura del prodotto:

E24 10R-030571

L'omologazione è mostrata con la marcatura del prodotto:

E24 **10R** **03 0571**

Data: Venerdì 27 marzo 2015
Codice foglio: 997-147-70010 Rev: AQ

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Product markings and certification

The KUBE with 12V or 24V D.C. motor device complies with the essential requisites and other pertinent provisions of European Directive 2009/19/CE and ECE/ONU regulation no. 10 Amendment 2, regarding "Elimination of radioelectric disturbance (Electromagnetic Compatibility) caused by the controlled ignition engines of motor vehicles".
On the subject of Electromagnetic Compatibility, directive 2009/19/CE is the reference directive for electric/electronic units installed on road vehicles as it is the specific directive for the purposes of art. 2, para. 2, of directive 89/336/CE.
The requisites of directive 2009/19/CE must be satisfied on the subject of Electromagnetic Compatibility by all vehicles defined in directive 70/156/CE as regards approval of motor vehicles and trailers, as last amended by directive 92/53/CE, and their components or technical parts, which are thus exempt from compliance with the provisions of directive 89/336/CE.
The conformity tests required by directive 2009/19/CE and regulation ECE/ONU no. 10 Em. 2 were carried out in the PRIMA RICERCA & SVILUPPO (via Campagna, 92 - 22020 Gaggino Faloppio (CO)).
Approval of the KUBE with 12V or 24V D.C. motor device with the requisites of Dir. 2009/19/CE is certified by the NSAI (National Standards Authority of Ireland-Glasnevin, Dublin 9, Ireland (+353-1-8073800)) which has issued the approval number for marking the product, as follows:

e24*72/245*2009/19*1841

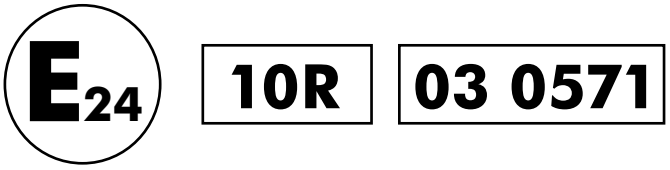
Approval is proven by marking the product:



Approval of the KUBE with 12V or 24V D.C. motor device with the requisites of Regulation ECE/ONU no. 10 Em.2 is certified by the NSAI (National Standards Authority of Ireland-Glasnevin, Dublin 9, Ireland (+353-1-8073800)) which has issued the approval number for marking the product, as follows:

E24 10R-030571

Approval is proven by marking the product:



Data: Venerdì 27 marzo 2015
Codice foglio: 997-147-70010 Rev: AQ

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