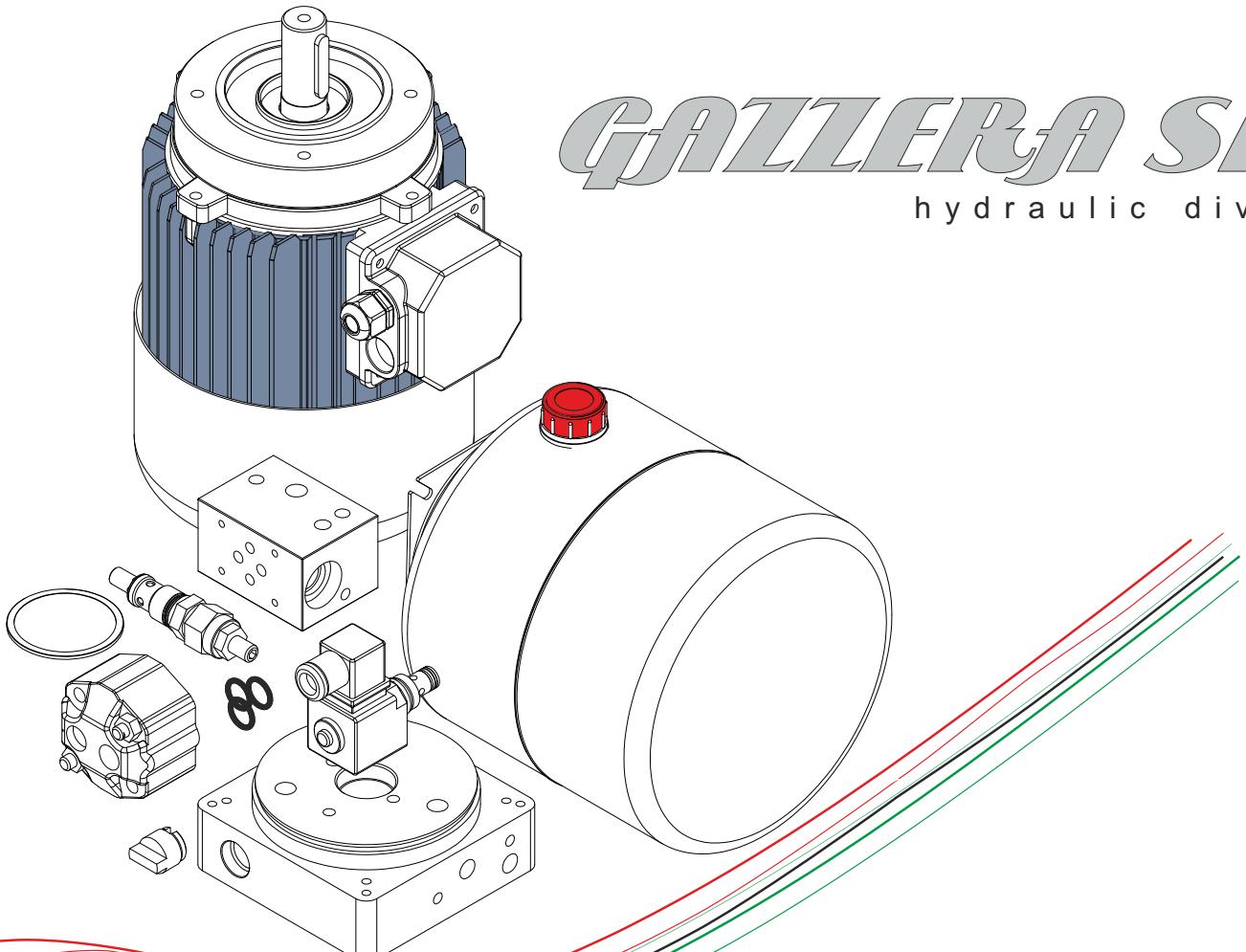
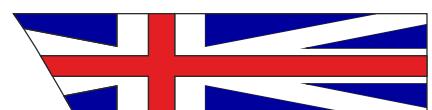


**Gazzera srl**  
hydraulic division



# HYDRAULIC POWER PACK

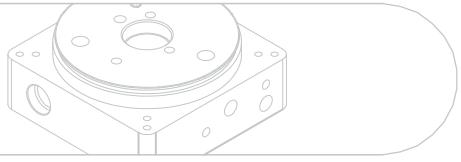
[www.gazzeraitaly.com](http://www.gazzeraitaly.com)  
[info@gazzeraitaly.com](mailto:info@gazzeraitaly.com)



2017/a

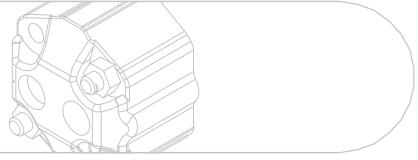
**1**

Collettori centrali  
*central manifolds*



**2**

Pompe  
*pumps*



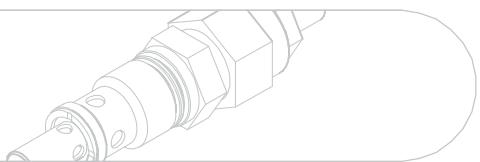
**3**

Aspirazione e scarico  
*suction and return*



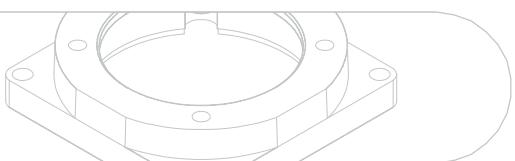
**4**

Valvole e tappi  
*valves and plugs*



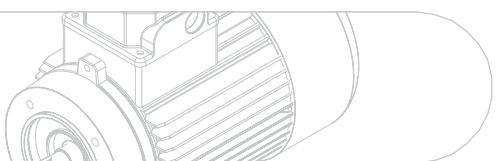
**5**

Elementi di connessione  
*junction elements*



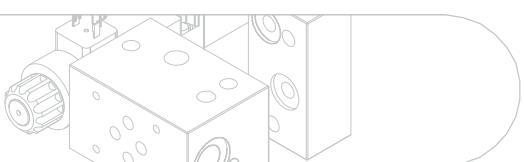
**6**

Motori elettrici  
*electric motors*



**7**

Elementi modulari  
*modular elements*



**8**

Serbatoi  
*oil tanks*



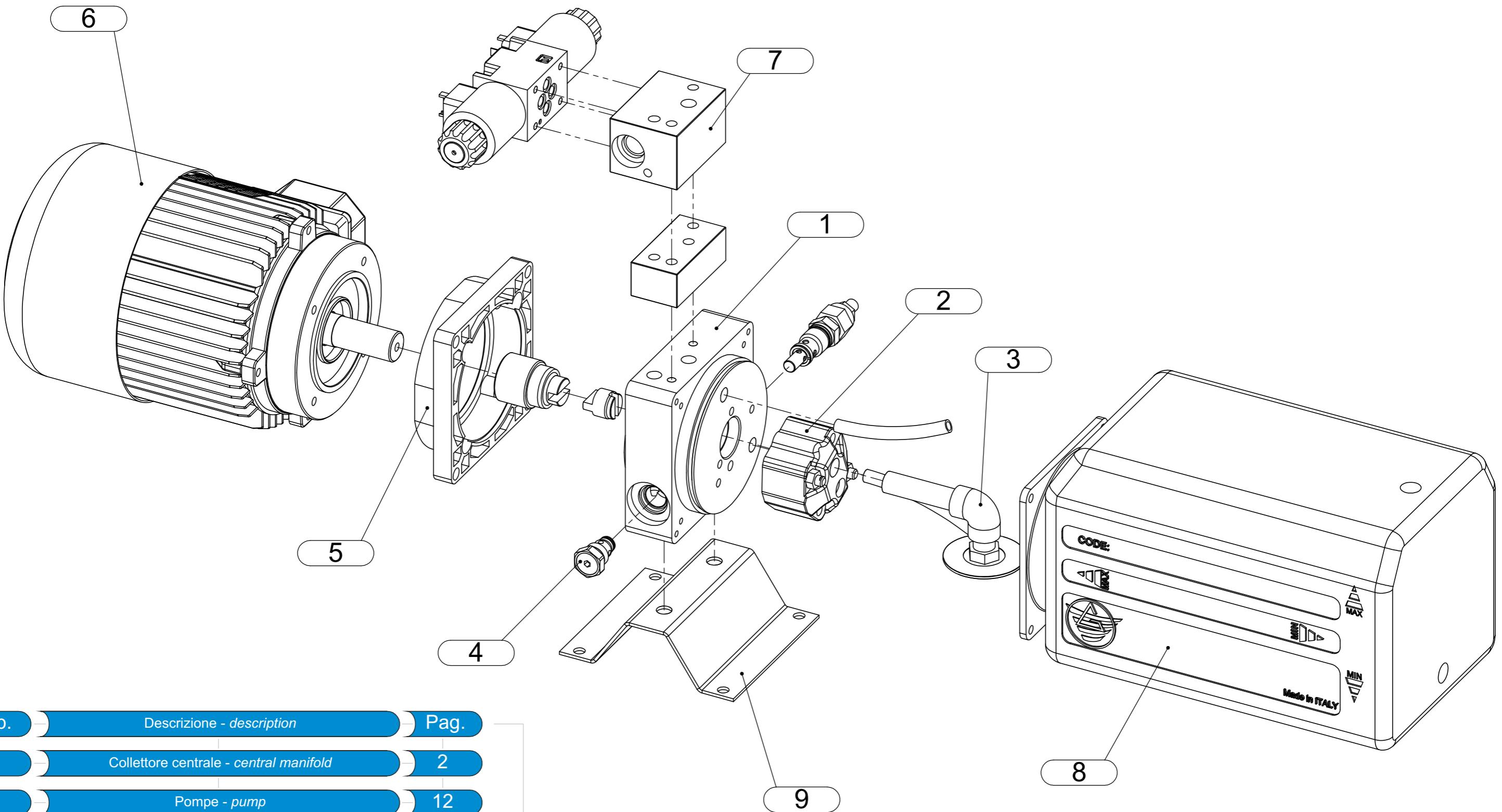
**9**

Accessori  
*accessories*



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| Cap. | Descrizione - description                   | Pag. |
|------|---|------|
| 1    | Collettore centrale - central manifold      | 2    |
| 2    | Pompe - pump                                | 12   |
| 3    | Aspirazione e scarico - suction and return  | 15   |
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| 9    | Accessori - accessories                     | 69   |

#### Limiti di funzionamento - working constraints

##### Temperatura olio - oil temperature

temperatura ambiente -15 +40 °C (con picchi di 50°C)  
 environment temperature -15 +40 °C (with peaks of 50°C)

##### Viscosità - viscosity

min 12 mm<sup>2</sup>/s

max 80 mm<sup>2</sup>/s

massima viscosità all'avviamento - max viscosity at start up 500 mm<sup>2</sup>/s

##### Pressione - pressure

Pressione massima in funzione della pompa e della valvola di massima montate  
 maximum pressure depending on pump and relief valve used

## Istruzioni di montaggio

*mounting instructions*

Valvole ed elettrovalvole devono essere ingrassate in corrispondenza di tutti gli o-ring montati su di esse e chiuse con la coppia di serraggio indicata sulla scheda tecnica corrispondente.

*Valves and solenoid valves must be greased where o-ring are mounted on them and closed with the torque indicated on the data sheet.*

Le valvole di massima (con filettatura M20x1,5) sono corredate di rondella in rame che deve essere alloggiata sul codolo della valvola prima della chiusura della stessa.

*Relief valves (with M20x1,5 thread) are provided with a copper washer that must be filled on the shank of the valve before the close of it.*

Tutti i collari dei serbatoi devono essere ingrassati prima dell'accoppiamento con i corpi centrali e controllare che siano lisci, esenti da bave o da scorie di saldatura.

*All the tank's collars must be greased before coupling with the center manifolds and check that they are smooth and free of burrs or welding slag.*

I giunti motore ed i giunti pompa devono essere ingrassati nelle zone di accoppiamento.  
*Motor couplings and pump couplings must be greased in the coupling zones.*

Il montaggio della pompa deve avvenire previo ingrassaggio del codolo anteriore che accoppierà con il centraggio del corpo. La chiusura delle due viti deve essere effettuata con una coppia di serraggio indicata sulla scheda tecnica corrispondente.

*The pump mounting must be placed after greasing the front shank that will coupling with the centering of the manifold. The closure of the screws must be made with the torque indicated on the data sheet.*

## Installazione

*installation*

Non ci sono limiti nella posizione di montaggio, evitare qualsiasi installazione che potrebbe compromettere l'aspirazione della pompa.

Quando la centrale deve essere montata su strutture soggette a vibrazione, sarebbe meglio posizionare dei blocchi anti-vibranti nei punti di fissaggio.

*There are no limits in mounting positions, just avoid any installation that could compromise pump's suction.*

*When power module is to be fitted on structures liable to vibrations, it is better to place vibration-clamping blocks in fixing points.*

## Pulizia e manutenzione

*cleaning and maintenance*

La sostituzione dell'olio viene effettuata la prima volta dopo 100 ore di lavoro, e poi ogni 3000 ore di lavoro (in ogni caso almeno una volta l'anno).

*You have to substitute the oil after 100 hours of duty the first time, and then every 3000 hours of duty (in any case at least once a year).*

## Cablaggio e avviamento

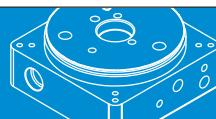
*wiring and starting*

All'avviamento assicurarsi della corretta rotazione della pompa. E' rigorosamente vietato invertire la direzione di rotazione. Effettuare l'avvio previo svitamento totale della valvola di massima pressione.

*The starting must assure proper pump direction of rotation. It is strictly forbidden to invert the direction of rotation. The start-up must be done after the total unscrewing of the relief valve.*

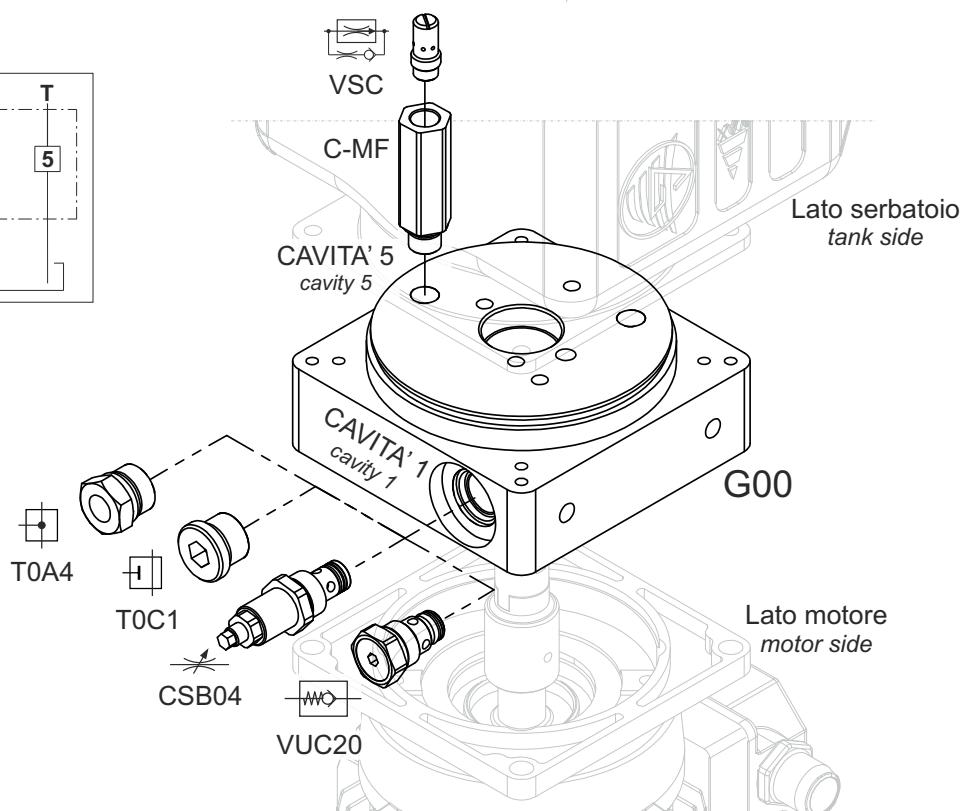
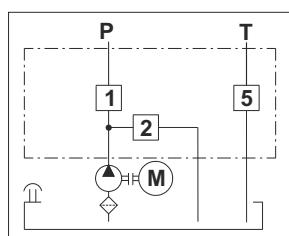
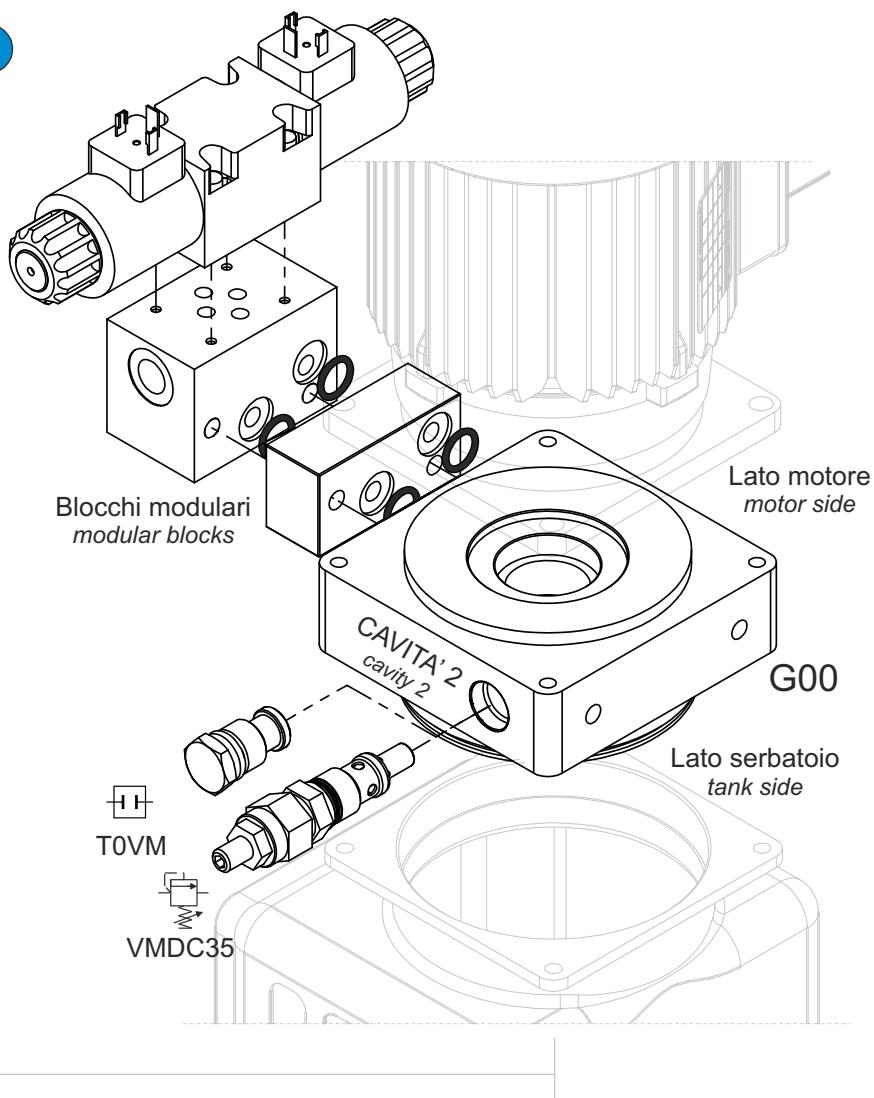
1

# Collettori centrali central manifolds



2

G00

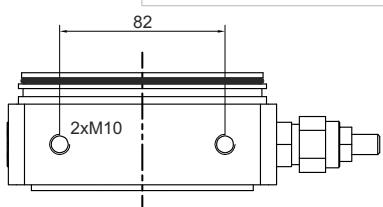
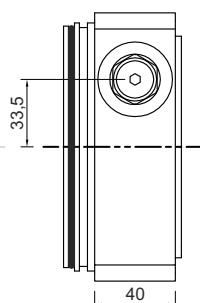
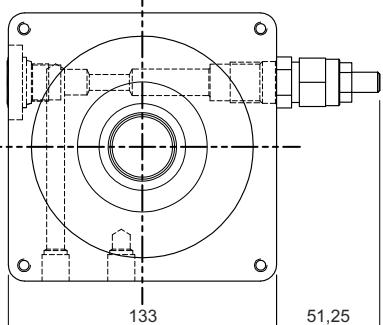
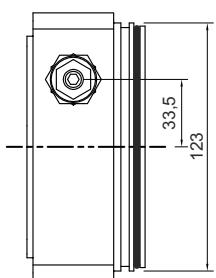
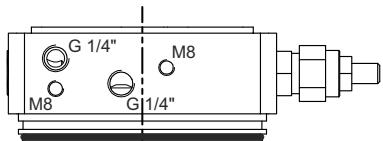
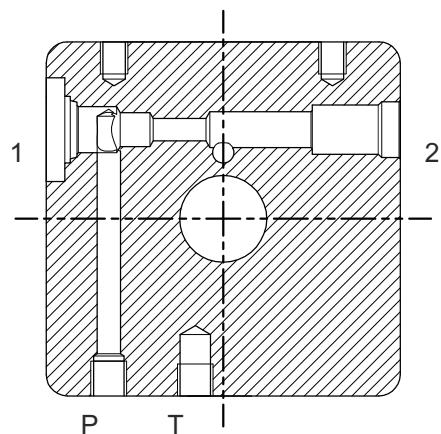
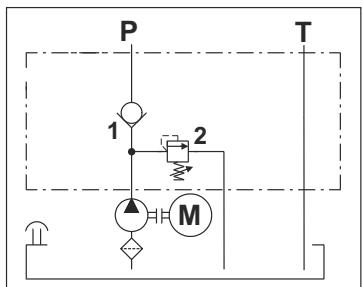




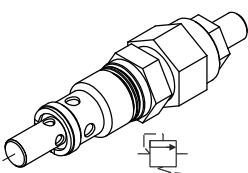
# Collettori centrali central manifolds

1

G00



Lato motore  
motor side



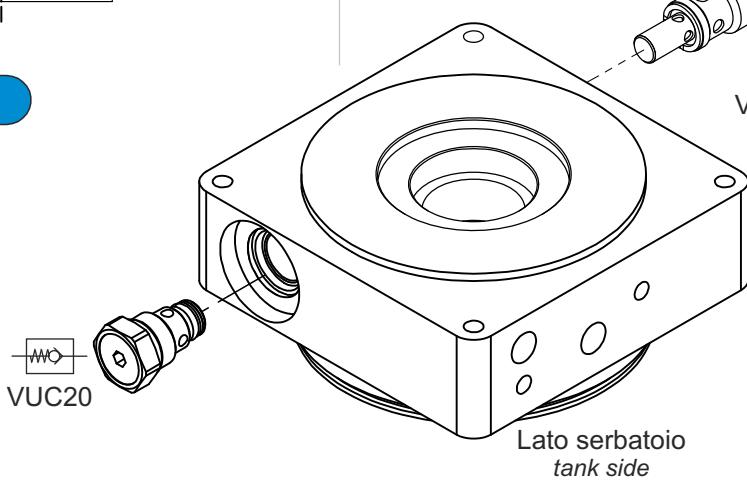
Codice ordinazione - ordering code

|   |   |   |
|---|---|---|
| G | 0 | 0 |
| 1 | 2 |   |

1 Tipo - type

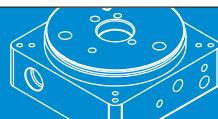
G0 = Collettore 2 cavità  
central manifold 2 cavities

2 Serie - series  
0 = Standard



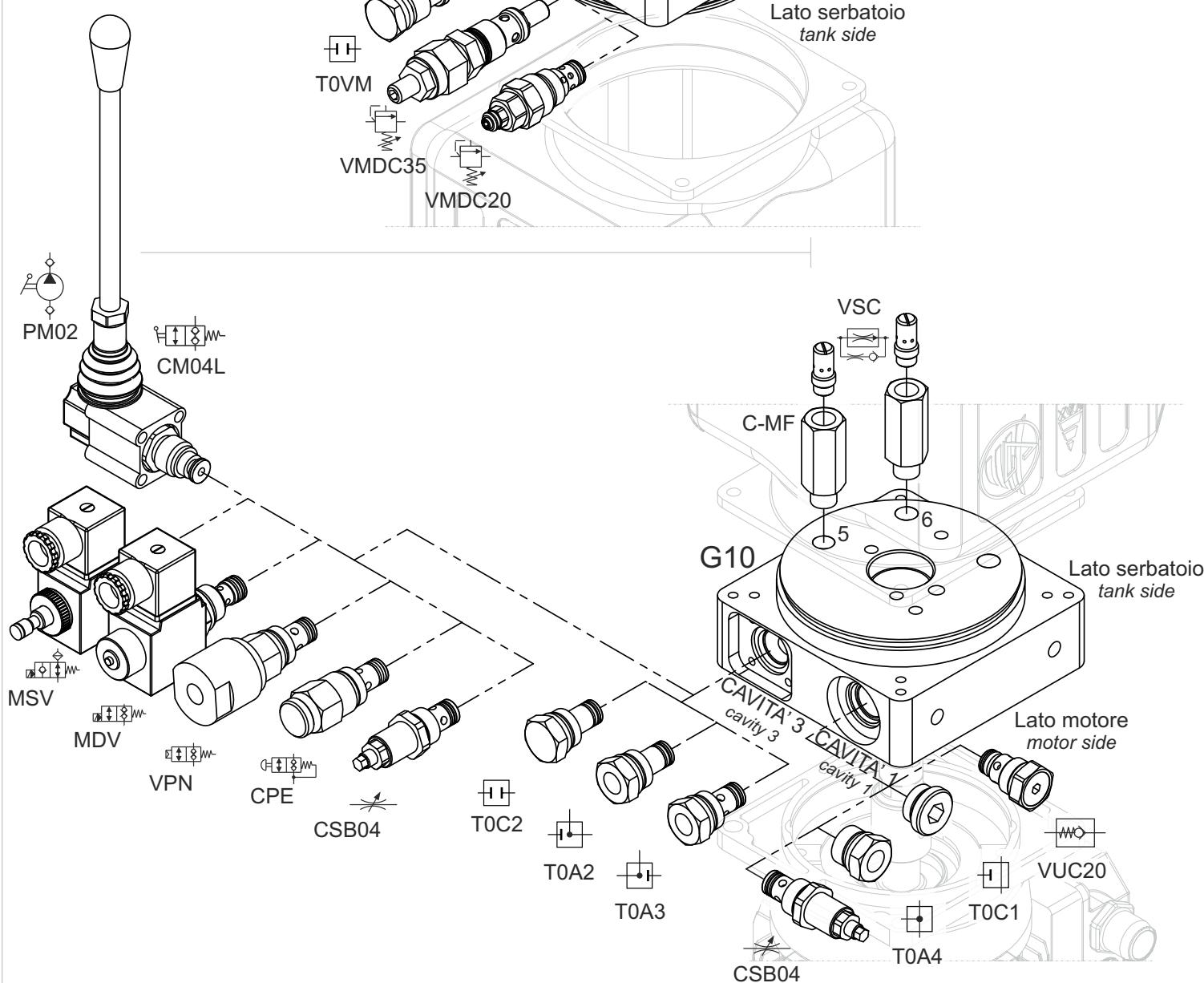
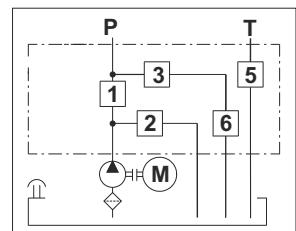
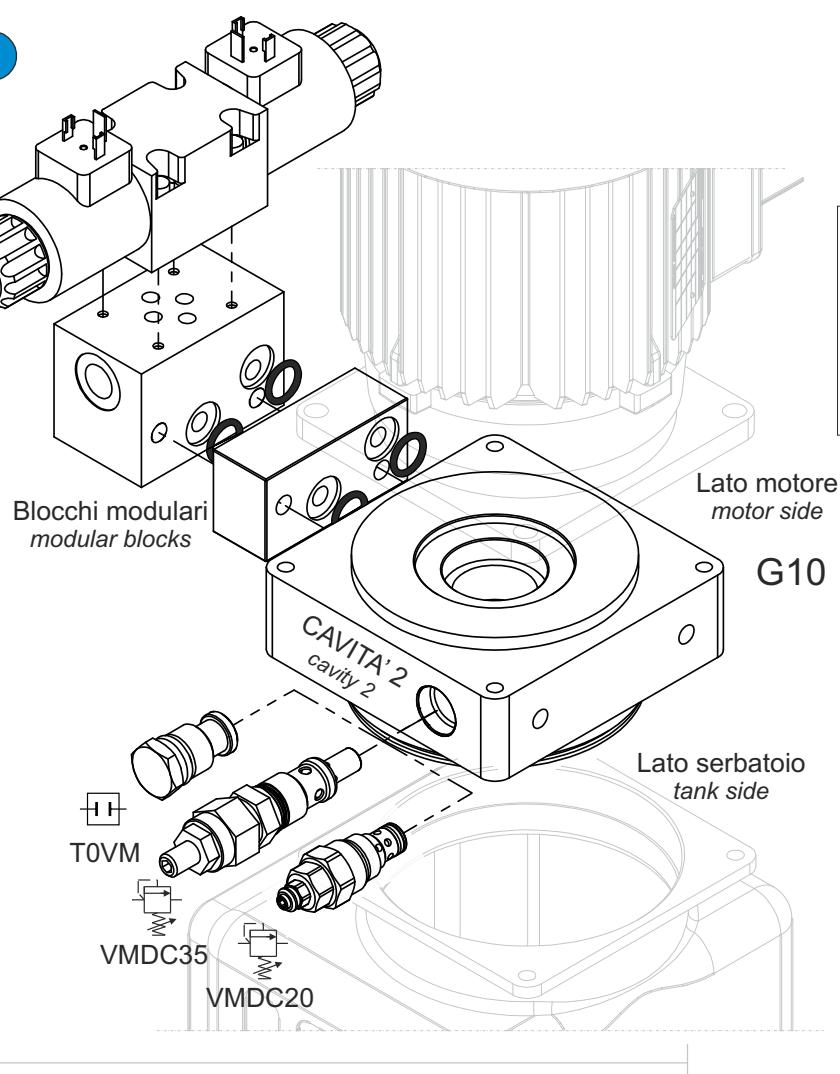
1

# Collettori centrali central manifolds



4

G10



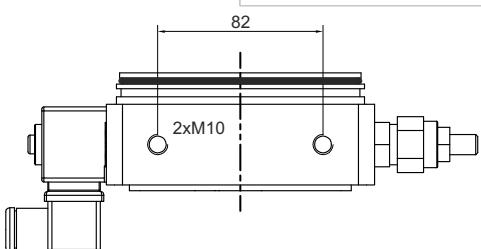
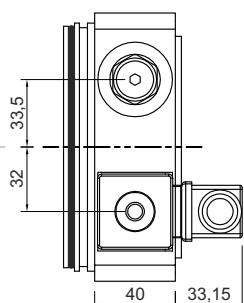
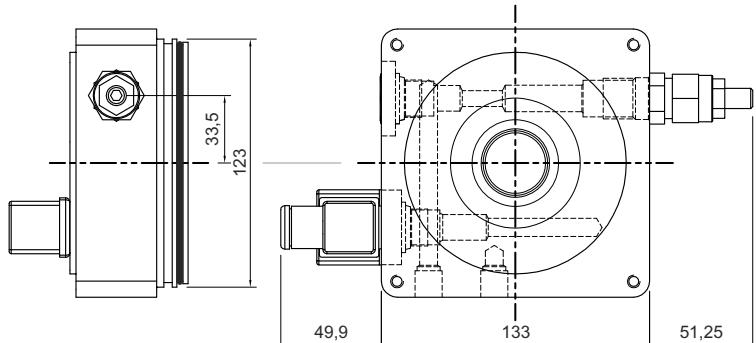
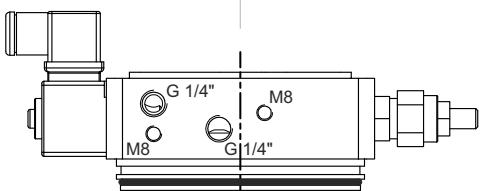
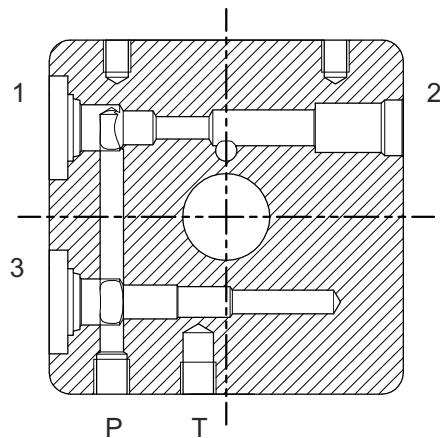
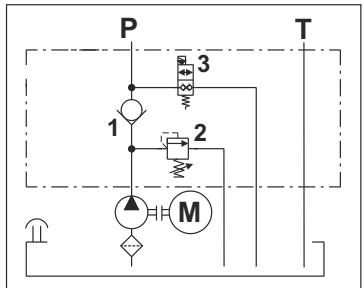


# Collettori centrali central manifolds

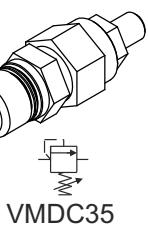
1

G10

5



Lato motore  
motor side



Codice ordinazione - ordering code

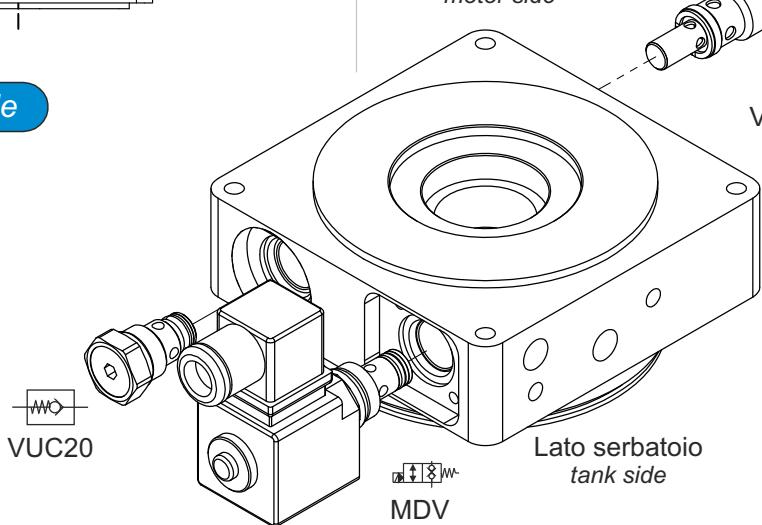
|   |   |   |
|---|---|---|
| G | 1 | 0 |
| 1 | 2 |   |

1 Tipo - type

G1 = Collettore 3 cavità  
central manifold 3 cavities

2 Serie (cavità 2 - cavity 2)

0 = M20x1,5 (std)  
2 = 3/4" - 16 UNF



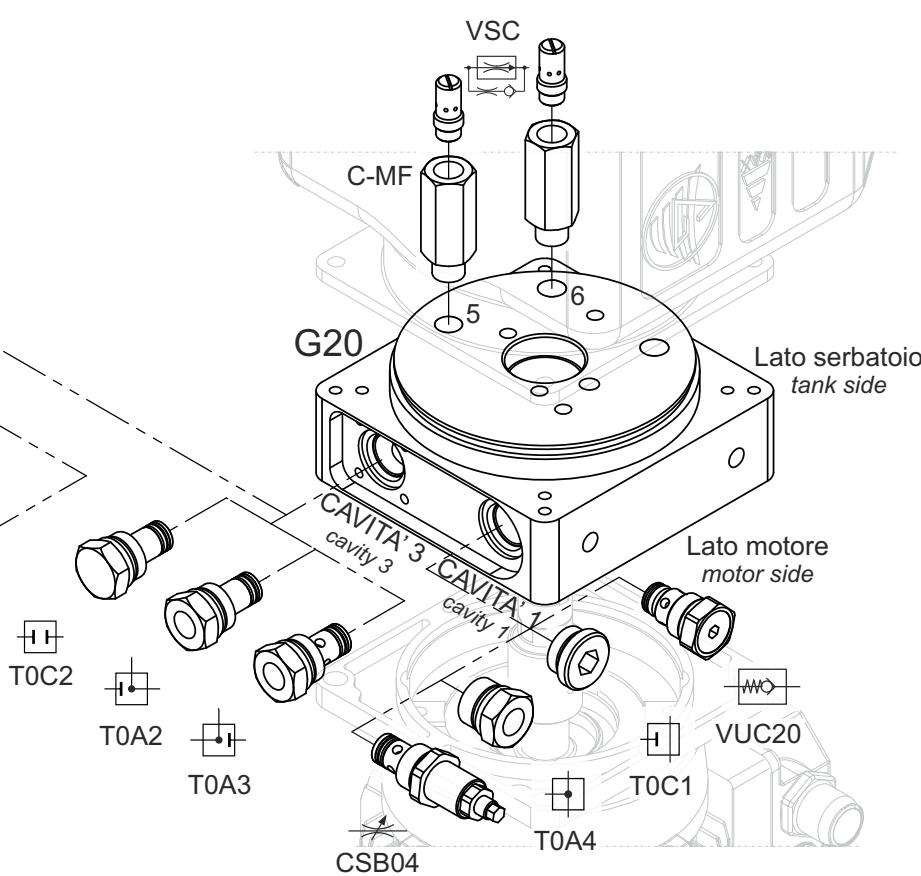
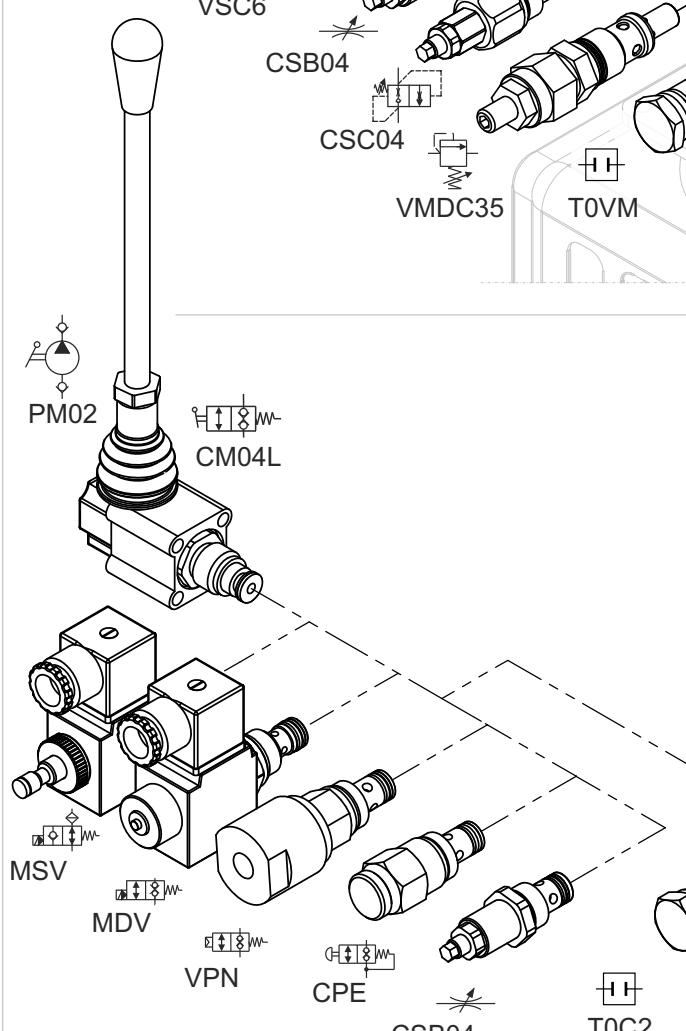
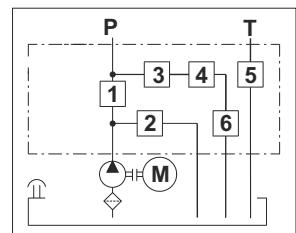
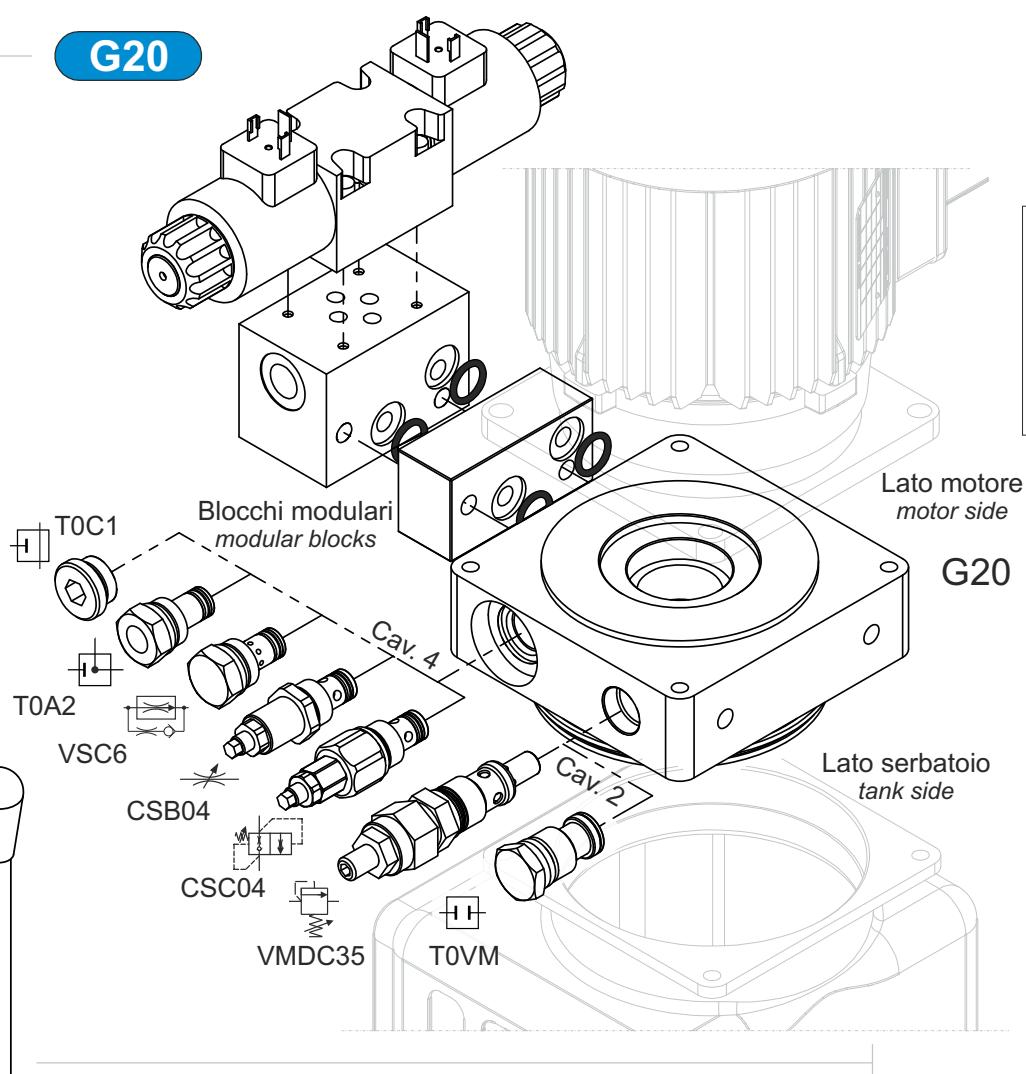
1

# Collettori centrali central manifolds



6

G20



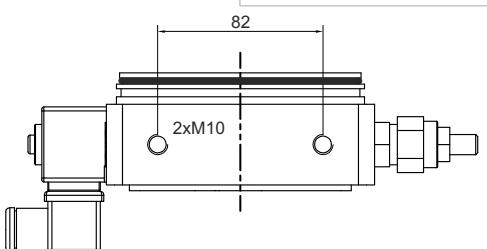
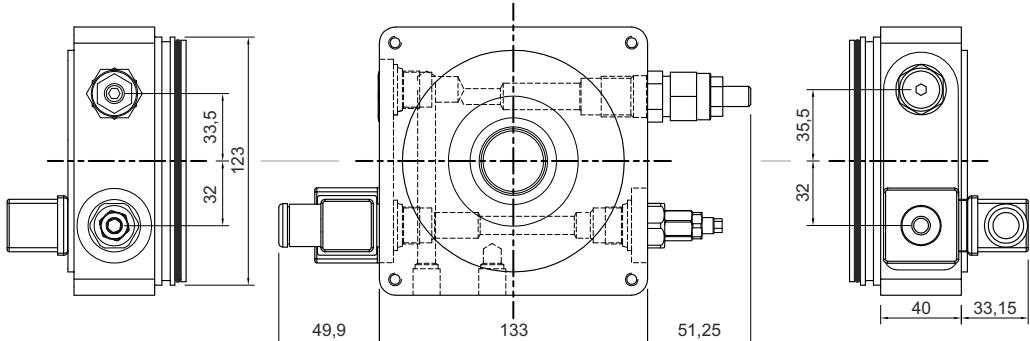
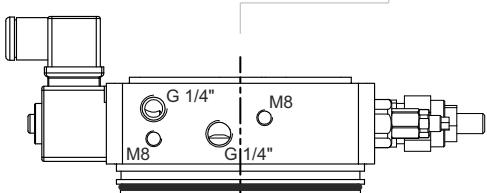
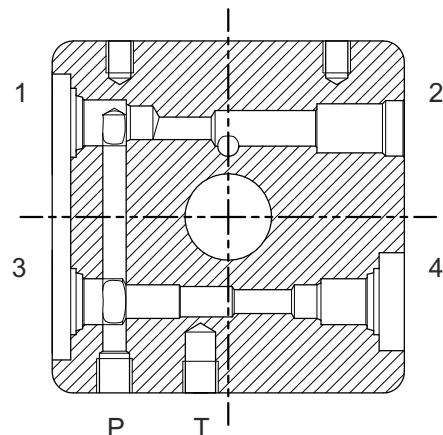
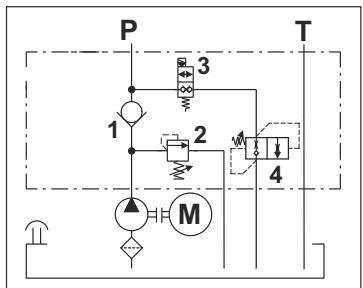


# Collettori centrali central manifolds

1

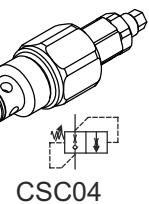
G20

7



Lato motore  
motor side

VMDC35



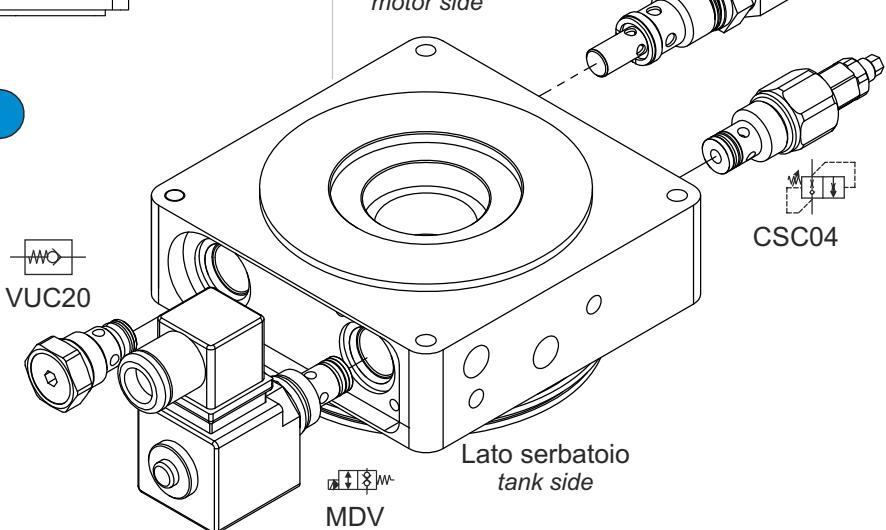
Codice ordinazione - ordering code

|   |   |   |
|---|---|---|
| G | 2 | 0 |
| 1 | 2 |   |

1 Tipo - type

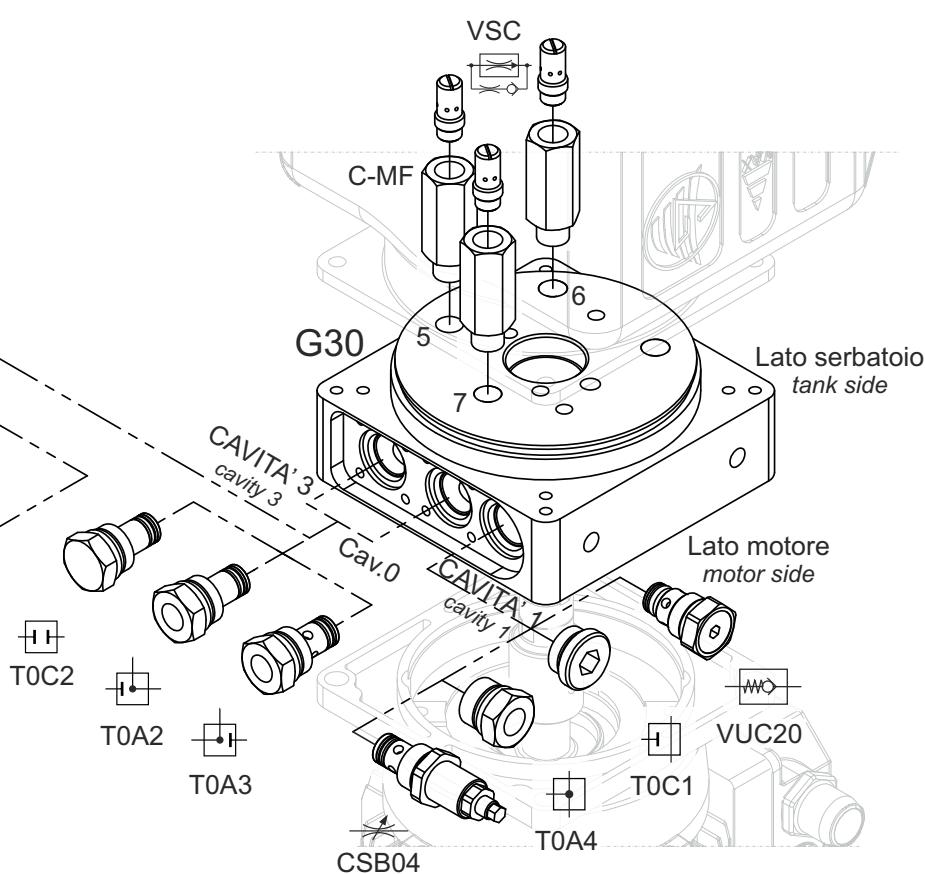
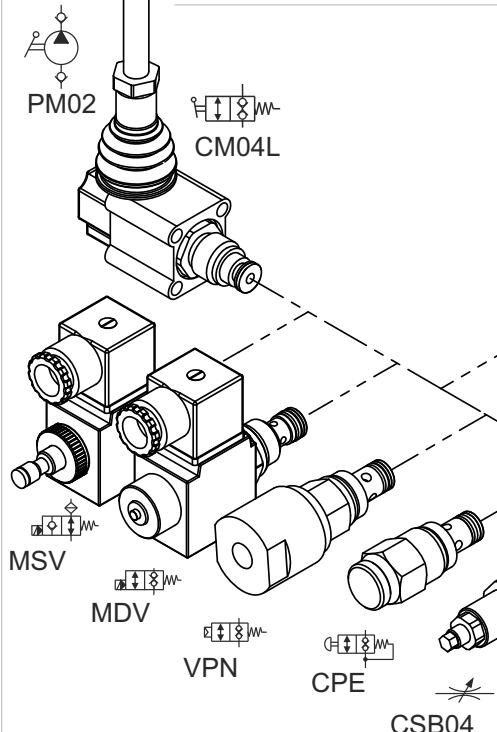
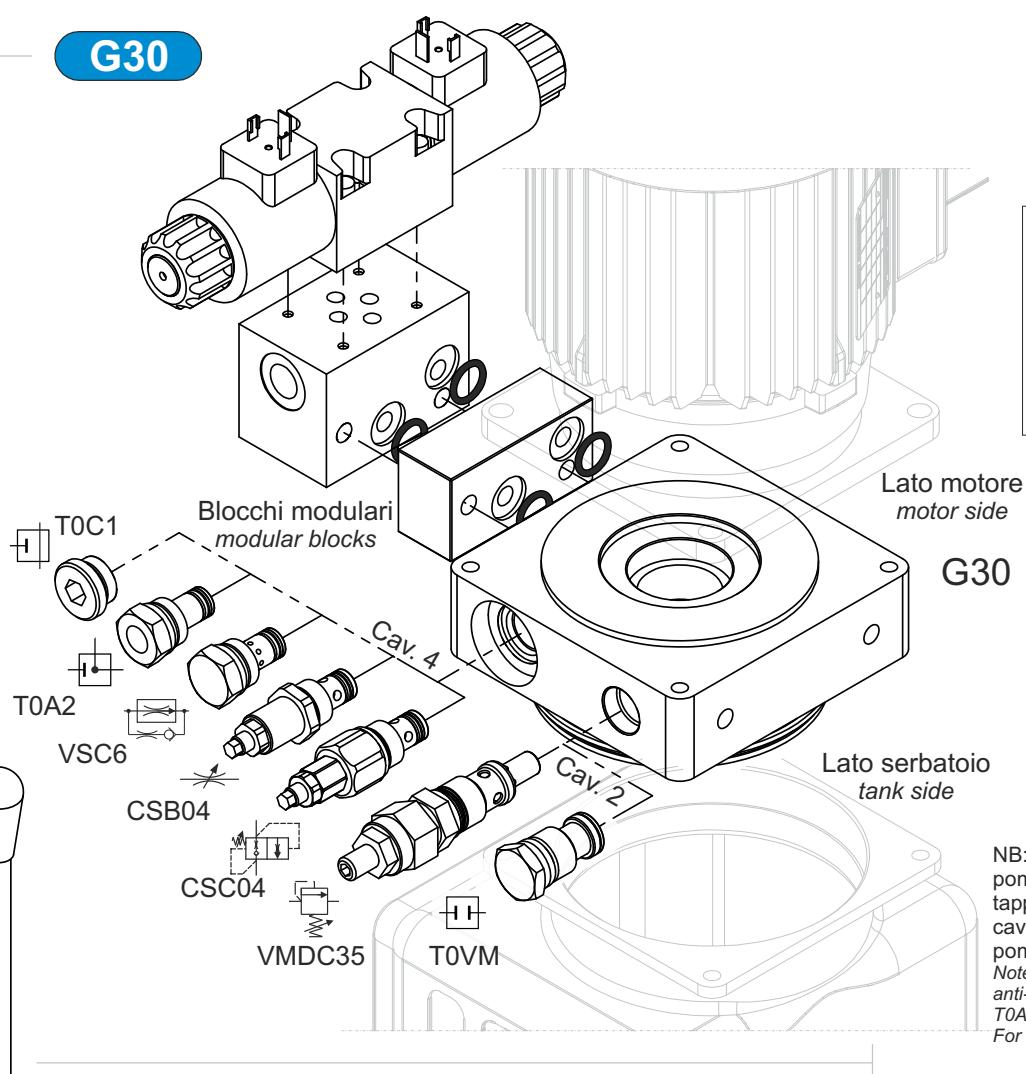
G2 = Collettore 4 cavità  
central manifold 4 cavities

2 Serie - series  
0 = Standard





G30

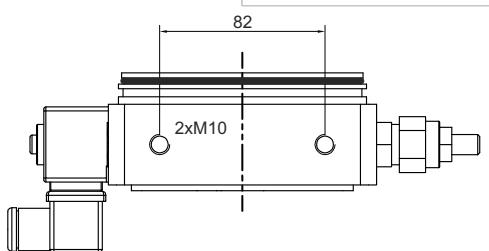
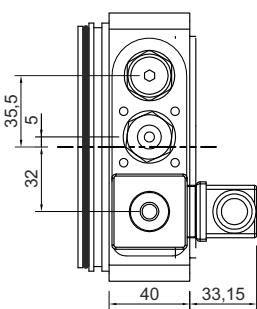
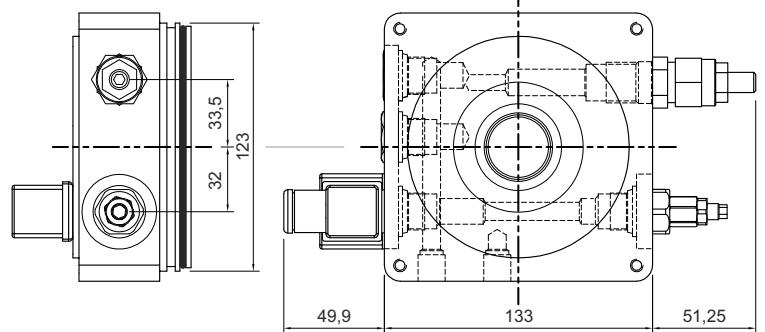
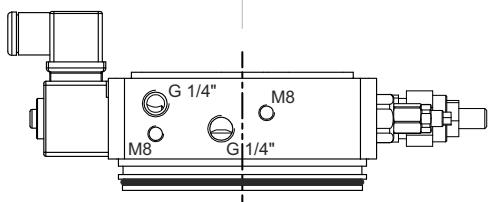
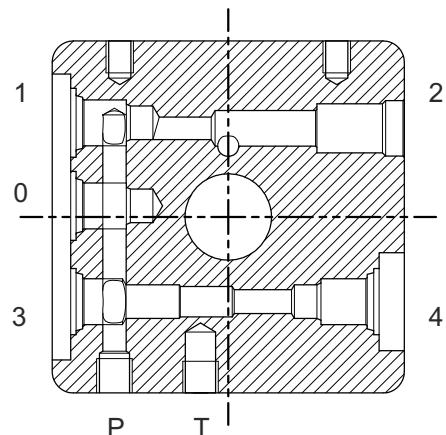
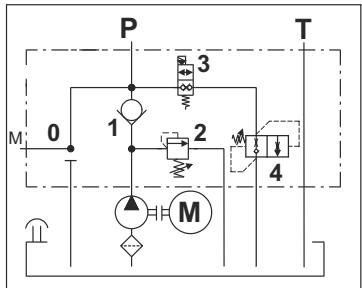




# Collettori centrali central manifolds

1

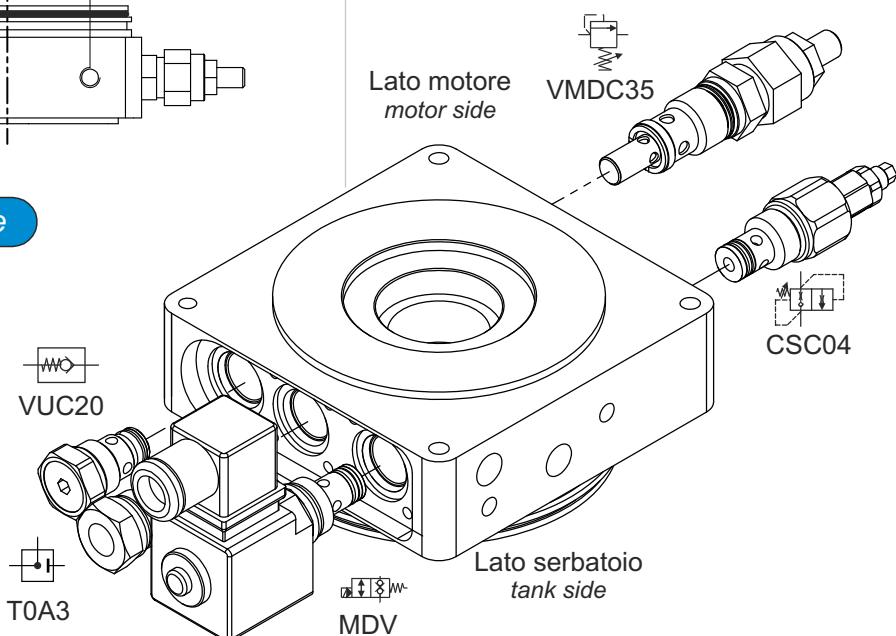
G30



Codice ordinazione - ordering code

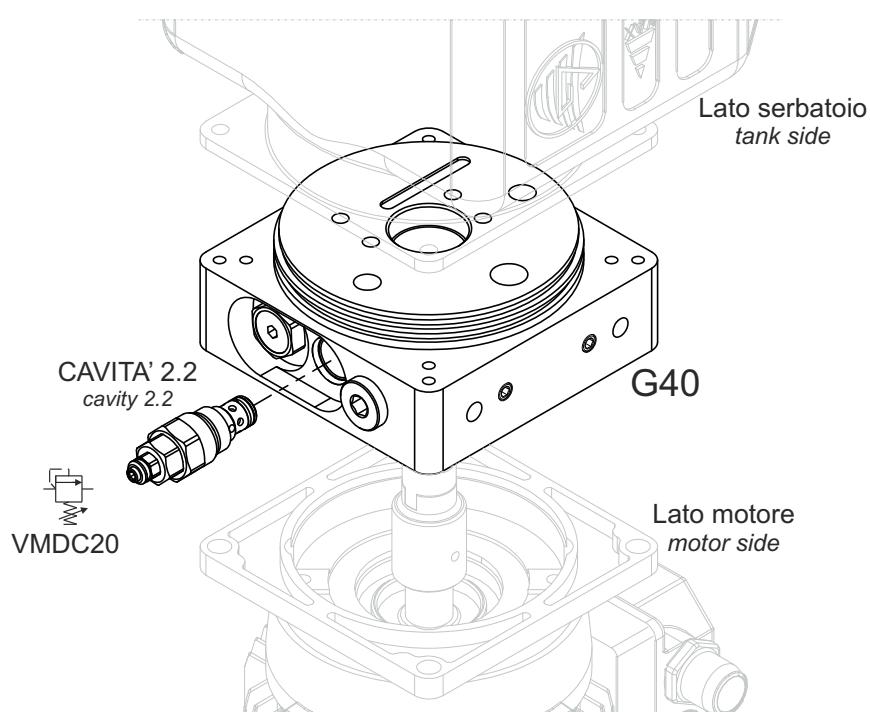
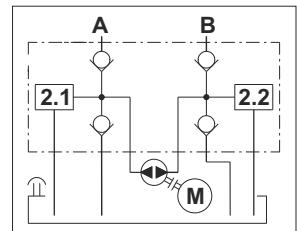
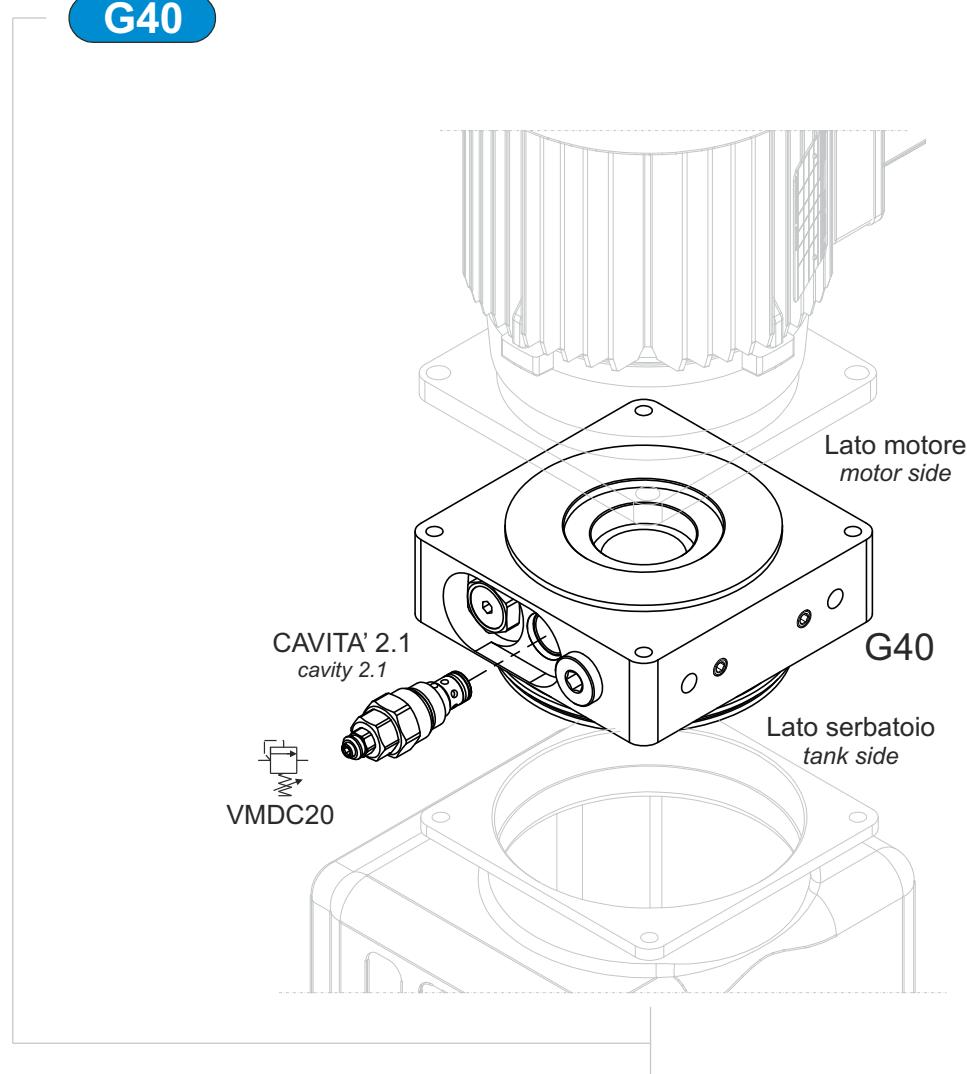
|   |   |   |
|---|---|---|
| G | 3 | 0 |
| 1 | 2 |   |

1 Tipo - type

G3 = Collettore 5 cavità  
central manifold 5 cavities2 Serie - series  
0 = Standard



G40



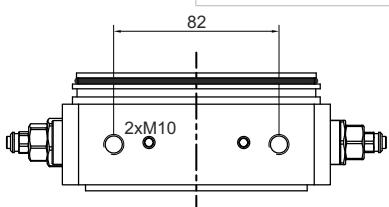
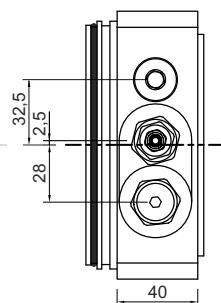
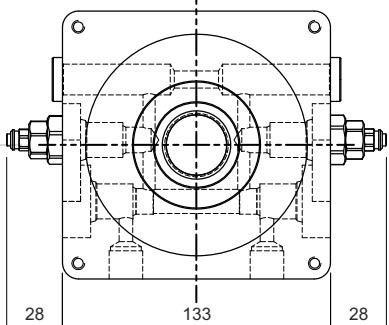
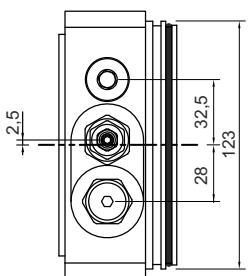
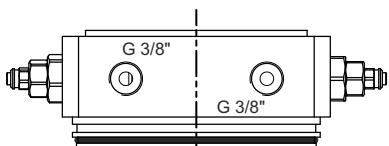
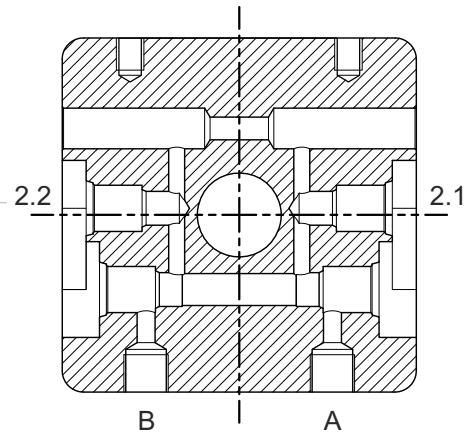
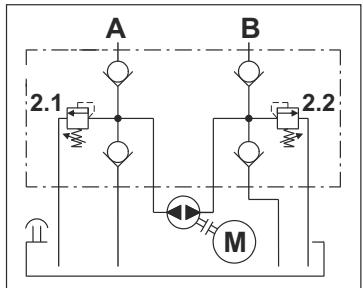


# Collettori centrali central manifolds

1

G40

11



Lato motore  
motor side

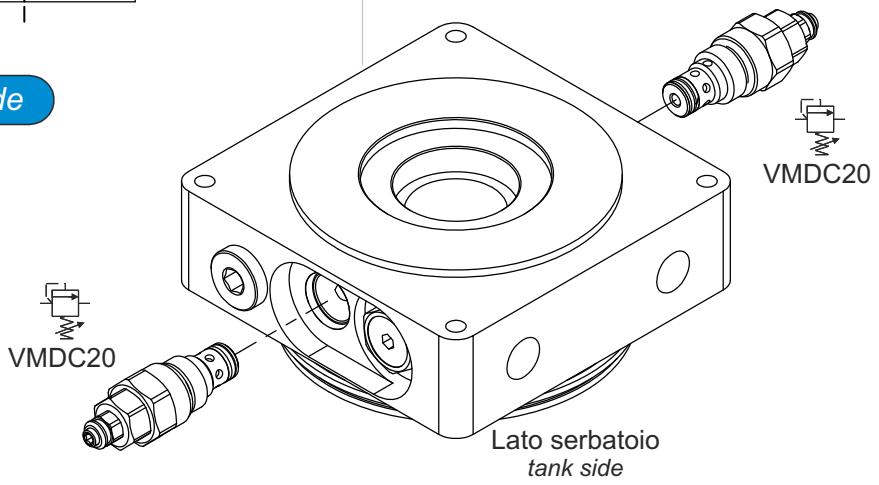
## Codice ordinazione - ordering code

|   |   |   |
|---|---|---|
| G | 4 | 0 |
| 1 | 2 |   |

1 Tipo - type

G4 = Collettore reversibile  
reversible central manifold

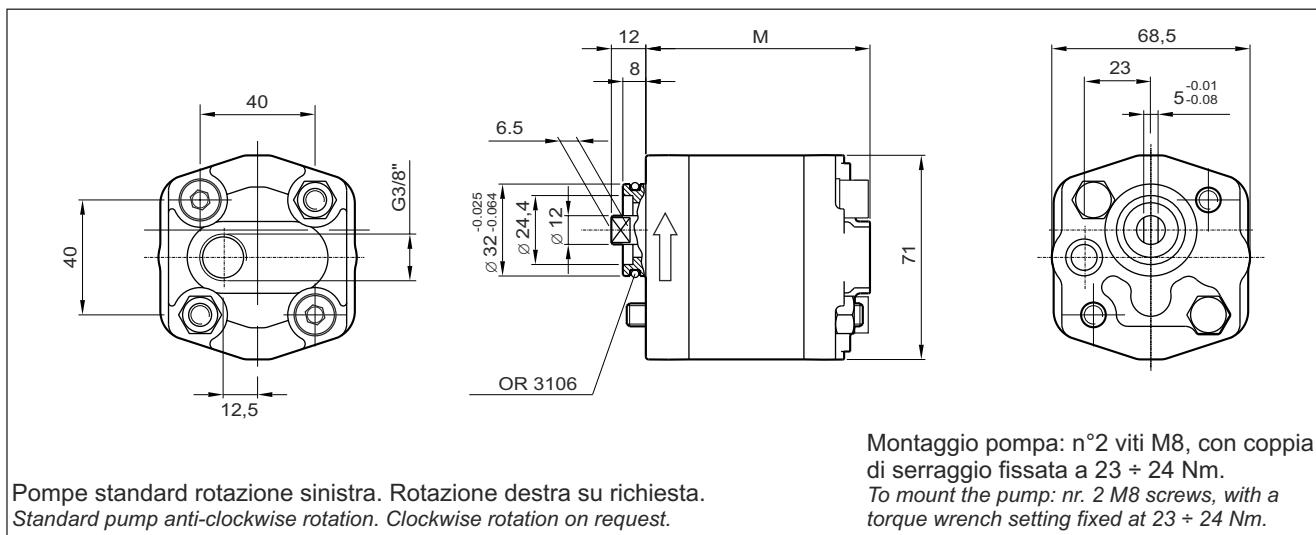
2 Serie - series  
0 = Standard



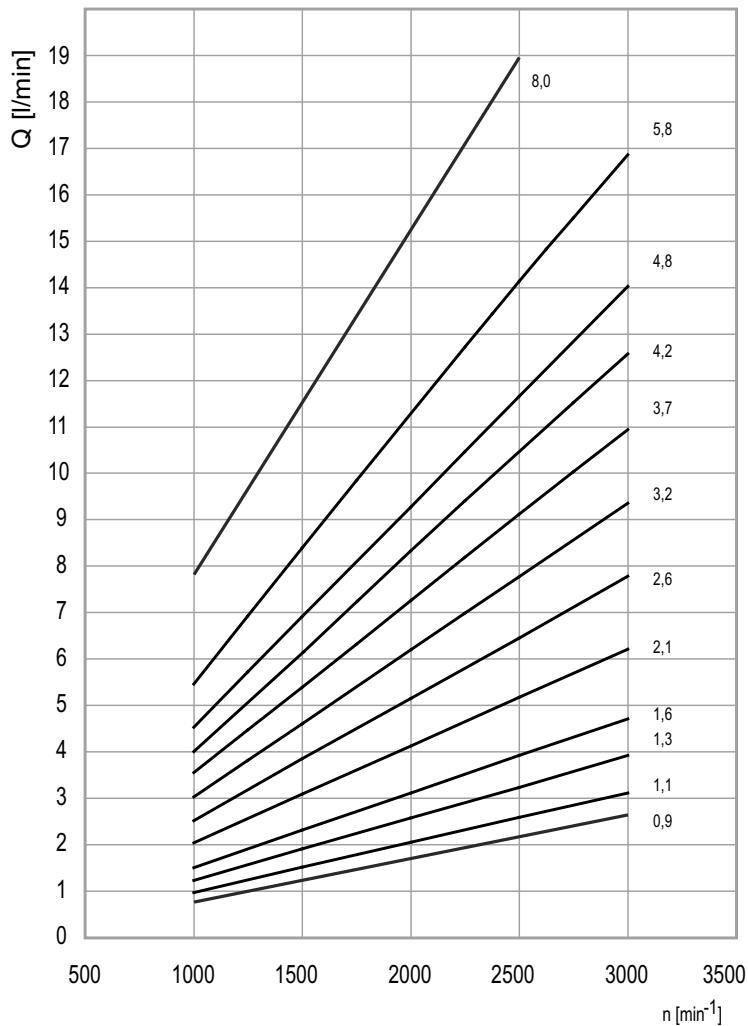


## Pompe ad ingranaggi singole - single gear pumps

12



| Modelli - models |        |       |      |
|------------------|--------|-------|------|
| Code             | cc/rev | P.max | M mm |
| PA109            | 0,9    | 210   | 47   |
| PA111            | 1,1    | 210   | 47,5 |
| PA113            | 1,3    | 210   | 48,5 |
| PA116            | 1,6    | 210   | 49,5 |
| PA121            | 2,1    | 210   | 51   |
| PA126            | 2,6    | 210   | 53   |
| PA132            | 3,2    | 190   | 54,5 |
| PA137            | 3,7    | 190   | 56,5 |
| PA142            | 4,2    | 190   | 58   |
| PA148            | 4,8    | 170   | 60   |
| PA158            | 5,8    | 170   | 63,5 |
| PA180            | 8,0    | 160   | 100  |



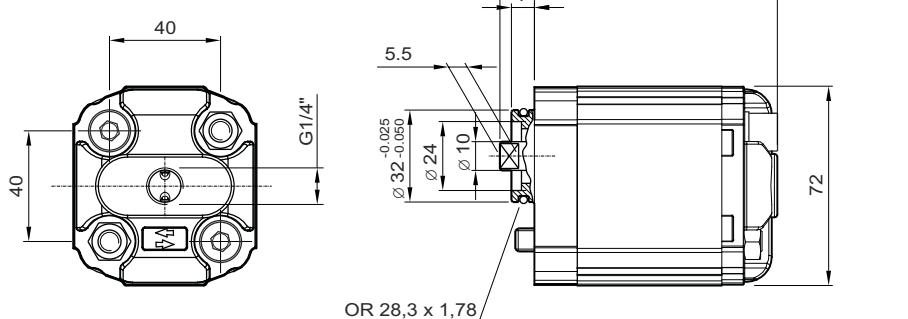
Pompa per applicazione immersa  
Immersed pump application

Le curve sono indicative e sono state ottenute alla temperatura di 50 °C,  
utilizzando olio con viscosità 30 cSt.

Each curve are only indicative and have been obtained at 50 °C, using oil with viscosity  
30 cSt.



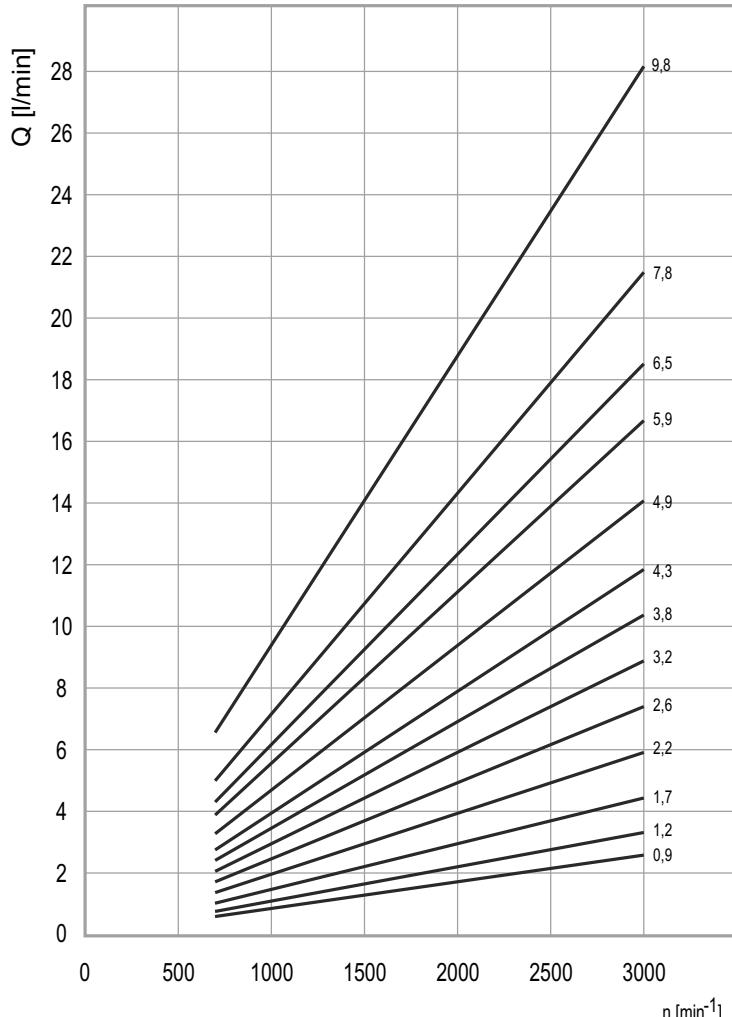
Pompe reversibili - reversible pumps



Pressione massima drenaggio 0,3 ÷ 0,5 bar.  
Max drain pressure: 0,3 ÷ 0,5 bar.

Montaggio pompa: n°2 viti M8, con coppia di serraggio fissata a 24,5 ÷ 29,4 Nm.  
To mount the pump: nr. 2 M8 screws, with a torque wrench setting fixed at 24,5 ÷ 29,4 Nm.

| Modelli - models |        |       |       |
|------------------|--------|-------|-------|
| Code             | cc/rev | P.max | M mm  |
| PR109            | 0,9    | 240   | 77,1  |
| PR112            | 1,2    | 250   | 78    |
| PR117            | 1,7    | 250   | 79    |
| PR122            | 2,2    | 250   | 81,5  |
| PR126            | 2,6    | 250   | 83,5  |
| PR132            | 3,2    | 250   | 85,5  |
| PR138            | 3,8    | 250   | 87,5  |
| PR143            | 4,3    | 250   | 89,5  |
| PR149            | 4,9    | 250   | 92,5  |
| PR159            | 5,9    | 250   | 96    |
| PR165            | 6,5    | 250   | 97,5  |
| PR178            | 7,8    | 220   | 102,5 |
| PR198            | 9,8    | 190   | 111,5 |



Pompa per applicazione immersa  
Immersed pump application

Le curve sono indicative e sono state ottenute alla temperatura di 40 °C,  
utilizzando olio con viscosità 68 cSt.

Each curve are only indicative and have been obtained at 40 °C, using oil with viscosity  
68 cSt.



## Note

Pulizia dell'impianto e filtrazione  
*Cleaning and filtering the system*

È ormai universalmente riconosciuto che la maggior parte dei prematuri cali di prestazioni delle pompe è dovuta ad un loro funzionamento con fluidi contaminati; l'estrema riduzione delle tolleranze che contraddistinguono i componenti delle pompe e il loro conseguente funzionamento con giochi ridotti, possono essere irrimediabilmente compromessi se non si pone estrema cura nel mantenere il fluido pulito.

*It is widely known that most pumps early failures are due to contaminated fluids. The extreme reduction of the tolerances required in the design of the pumps and therefore their operation with minimum clearances, are heavily influenced by a fluid that is not perfectly clean.*

È comunemente accertato che le particelle circolanti continuamente nel fluido agiscono come agente abrasivo danneggiando le superfici con cui vengono a contatto e contribuendo alla formazione di ulteriore contaminante.

*It is proved that particles circulating in the fluid act as abrasive agents, damaging the surfaces they touch and increasing the quantity of contaminant.*

Per questo raccomandiamo di porre molta attenzione alla pulizia in fase di avviamento e al mantenimento della stessa nell'impianto. Gli interventi necessari per controllare e limitare il grado di contaminazione devono essere effettuati in maniera preventiva e correttiva.

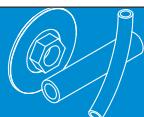
*For this reason, ensure that system is perfectly clean during startup and keep it clean for its whole operating life. Necessary interventions to check and limit contamination should be performed in a preventive and corrective way.*

Le azioni preventive comprendono l'accurata pulizia dell'impianto durante la fase di montaggio, la conseguente eliminazione delle bave residue, delle scorie delle saldature ecc., ed il trattamento del fluido prima del riempimento; prevedere una adeguata filtrazione anche al momento del riempimento dell'impianto e comunque ad ogni rabbocco. Dimensionare adeguatamente il serbatoio facendo in modo che abbia una capacità proporzionata al volume del fluido spostato dalla pompa in un minuto di funzionamento.

*Preventive actions include: proper cleaning of the system during assembly, deburring, eliminating the welding scum and fluid filtering before filling up. Always pre-filter the fluid when filling up or topping up the system. Fit a proper tank; its capacity should be proportional to the volume displaced by the pump in one working minute.*

Il controllo e la correzione dei livelli di contaminazione del fluido durante il funzionamento si ottiene attraverso l'installazione di filtri aventi la funzione di trattenere le particelle trasportate dal fluido. Due sono i parametri che determinano la buona scelta del filtro: il potere assoluto di filtrazione e il rapporto di filtrazione  $\beta$ . Bassi valori di potere assoluto di filtrazione e alti valori del rapporto di filtrazione  $\beta$  per particelle di piccole dimensioni concorrono a garantire buone caratteristiche di filtrazione. È pertanto molto importante limitare, oltre alle dimensioni massime, anche il numero delle particelle di più piccole dimensioni che oltrepassano il filtro. Risulta pertanto evidente che, all'aumentare della pressione di esercizio e al grado di sofisticazione dell'impianto, la filtrazione deve diventare sempre più efficace.

*Fluid contamination level check and correction during operation can be obtained through filters that retain the particles in the fluid. Two parameters tell which filter is most suitable: absolute filtering power and  $\beta$  filtering ratio. Low absolute filtering power and high  $\beta$  filtering ratio for small particles help ensuring good filtration. It is then very important to limit not only max. dimensions, but also the number of smaller particles that pass through the filter. It goes without saying that with an operating pressure increase and according to the system sophistication degree, filtering should become more and more efficient.*

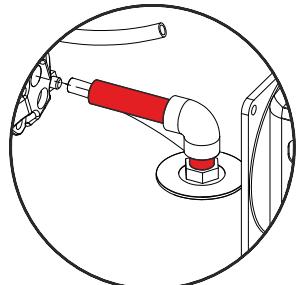


## Aspirazione e scarico suction and return

3

### EPD60R 3/8

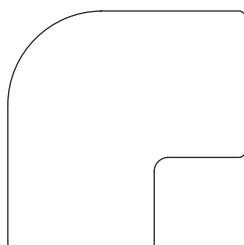
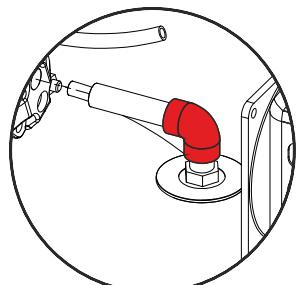
Serie tubi di aspirazione G3/8" in EPD  
Series of EPD G3/8" suction hoses



| Lunghezze disponibili<br>available lengths |     |     |
|--|-----|-----|
| 30   | 40  | 60  |
| 80   | 100 | 120 |
| 140  | 160 | 180 |
| 185  | 200 | 225 |
| 250  | 350 | 385 |

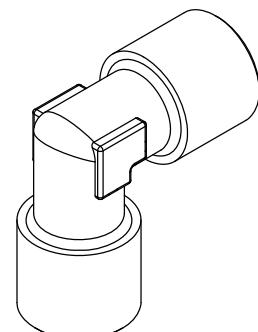
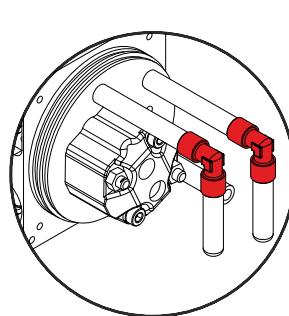
### E602

Raccordo G3/8" in PVC 90° per kit aspirazione orizzontale  
90° G3/8" PVC fitting for horizontal suction kit



### SZ31440

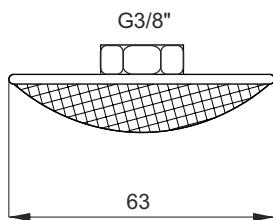
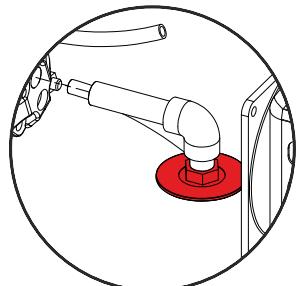
Raccordo G1/4" in ottone nichelato 90° per kit di scarico  
90° G1/4" nickel-plated brass fitting for return kit



Raccordo per kit di scarico ad uso orizzontale (KR)  
Fitting for return kit to horizontal use (KR)

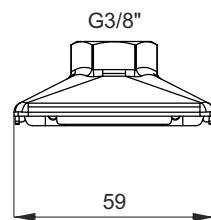
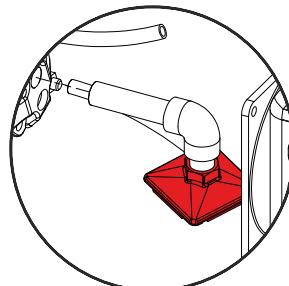
### FT90

Elemento filtrante 90µ Reps FeZN 12 lt/min ΔP 0,1 bar  
Filtering element 90µ Reps FeZN 12 lt/min ΔP 0,1 bar



### FT180

Elemento filtrante 180µ Reps FeZN 15 lt/min ΔP 0,1 bar  
Filtering element 180µ Reps FeZN 15 lt/min ΔP 0,1 bar

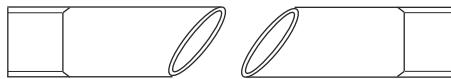
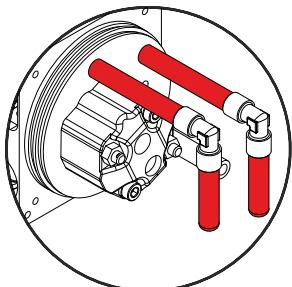


## Aspirazione e scarico suction and return



### EPD60R 1/4

Tubo rigido per linee di scarico G1/4" in EPD  
*EPD G1/4" rigid pipes for return lines*



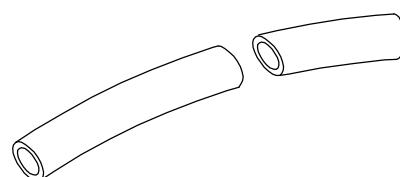
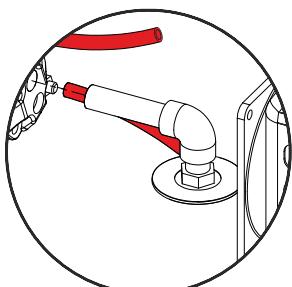
Lunghezze 115mm  
*lengths 115mm*



Lunghezze 60mm  
 (filettato da una sola parte)  
*lengths 60mm  
 (threaded on one side only)*

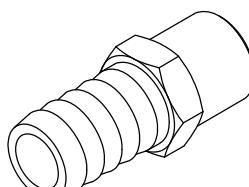
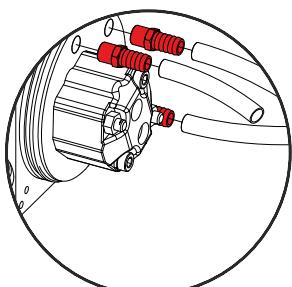
### C010-T12-10

Tubo rilsan per linee di scarico antischiuma nel serbatoio  
*Rilsan hose for in-tank anti foam return lines*



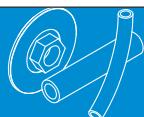
### SS21042

Portagomma  
*Hose connector*



#### Caratteristiche principali *main features*

|                              |  |
|------------------------------|--|
| Materiale<br><i>material</i> | Ottone nichelato<br><i>nickel-plated brass</i> |
| Filettatura<br><i>thread</i> | G 1/4"   |



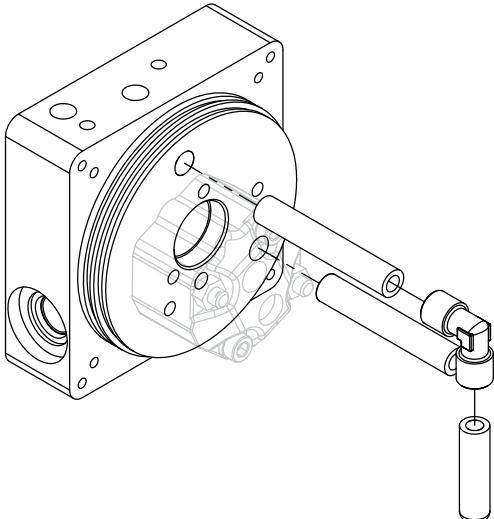
## Aspirazione e scarico suction and return

3

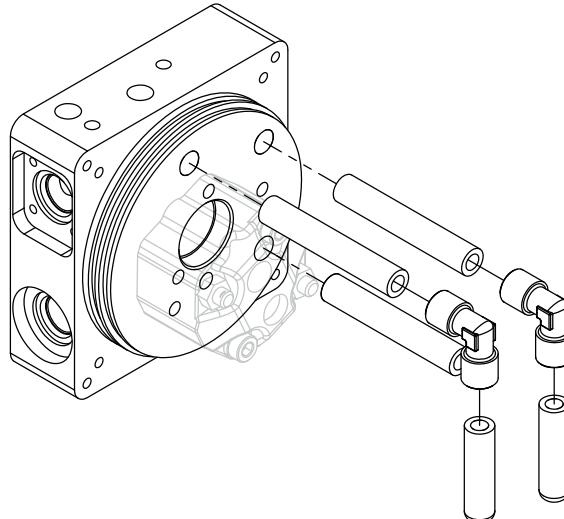
KR

17

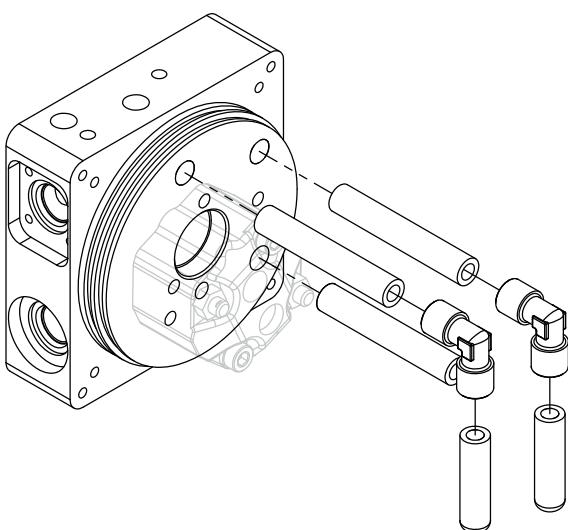
Kit di scarico per serbatoi orizzontali  
Return kit for horizontal tanks



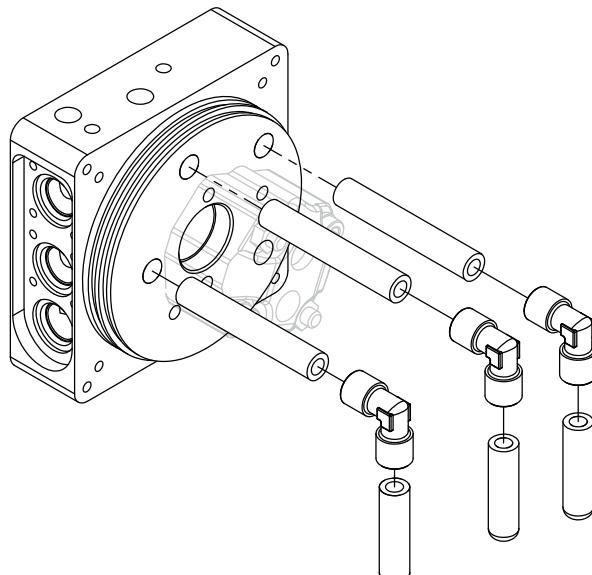
G0 collettore G00 - G00 manifold



G1 collettore G10 - G10 manifold



G2 collettore G20 - G20 manifold



G3 collettore G30 - G30 manifold

In caso di serbatoi CS01O e CS02O o collettori reversibili (G40), per il kit di scarico contattare l'ufficio tecnico  
in case of CS01O and CS02O tanks or reversible manifold (G40), for the return kit, contact our technical department

### Codici ordinazione - ordering codes

|   |   |   |   |
|---|---|---|---|
| K | R | G | 2 |
| 1 | 2 |   |   |

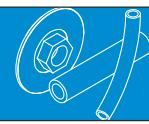
1 Kit scarico - return kit

2 Collettore - manifold

KR

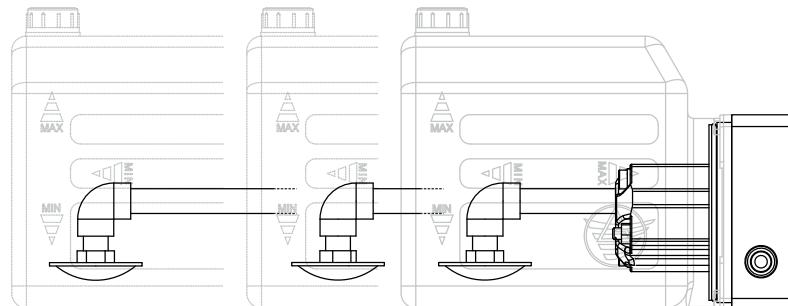
G0 = 2xEPD60R1/4 115 + SZ31440 + EPD60R1/4 60  
 G1 = 3xEPD60R1/4 115 + 2xSZ31440 + 2xEPD60R1/4 60  
 G2 = 3xEPD60R1/4 115 + 2xSZ31440 + 2xEPD60R1/4 60  
 G3 = 3xEPD60R1/4 115 + 3xSZ31440 + 3xEPD60R1/4 60

## Aspirazione e scarico suction and return



### KOPE

Kit aspirazione orizzontale per serbatoi PE  
*Suction horizontal kit for PE tanks*



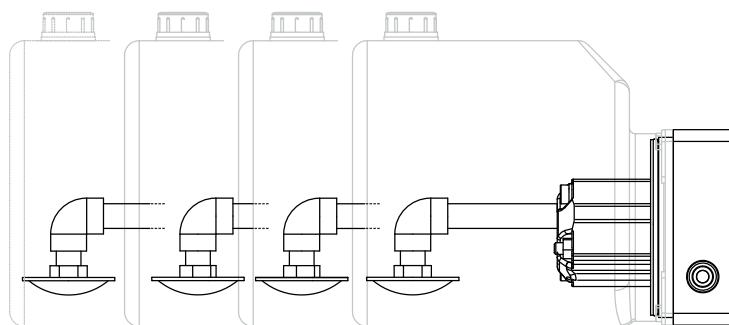
PE12O 12 lt.

PE08O 8 lt.

PE05O 5 lt.

### KOPC

Kit aspirazione orizzontale per serbatoi PC  
*Suction horizontal kit for PC tanks*

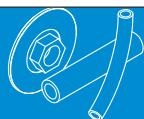


PC11O 11 lt.

PC09O 9 lt.

PC07O 7 lt.

PC05O 5 lt.



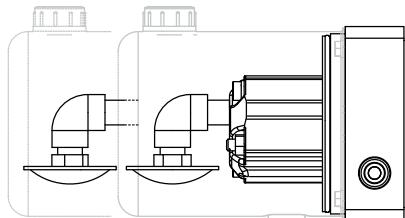
## Aspirazione e scarico suction and return

3

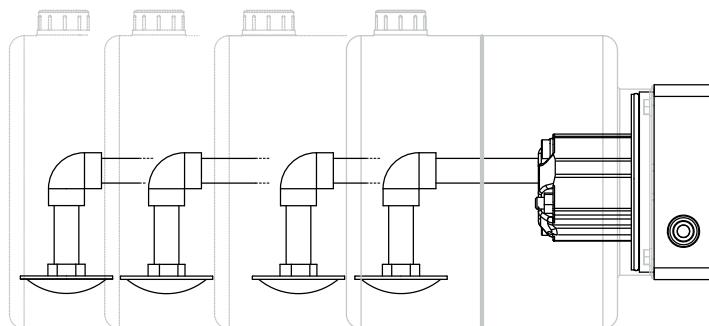
### KOCS

Kit aspirazione orizzontale per serbatoi CS  
Suction horizontal kit for CS tanks

19



CS02O 2,5 lt. CS01O 1,5 lt.



CS12O 12 lt. CS10O 10 lt. CS08O 8 lt. CS05O 5 lt.

NB: I kit aspirazione sono validi per tutti i tipi di collettori e pompe, esclusi il G40 (collettore reversibile) e PA180 (pompa 8cc/rev). In caso di impiego di questi componenti, rivolgersi al nostro ufficio tecnico.

Note: Suction kits are valid for all type of manifolds and pumps, except G40 (reversible manifold) and PA180 (8cc/rev pump). When using these components, please contact our technical department.

### Codici ordinazione - ordering codes

K O P E 0 8  
1 2 3

1 Kit orizzontale - horizontal kit 2 Serie serbatoio - tank series 3 Volume serbatoio - tank volume

KO (2xEPD60R3/8 + E602 + FT90)

PE

PC

CS

PE

PC

CS

05 = 5,0 lt 05 = 5,0 lt 01 = 1,5 lt

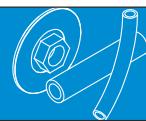
08 = 8,0 lt 07 = 7,0 lt 02 = 2,5 lt

12 = 12,0 lt 09 = 9,0 lt 05 = 5,0 lt

11 = 11,0 lt 08 = 8,0 lt 08 = 8,0 lt

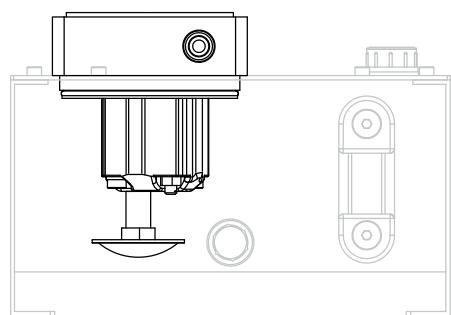
10 = 10,0 lt

12 = 12,0 lt

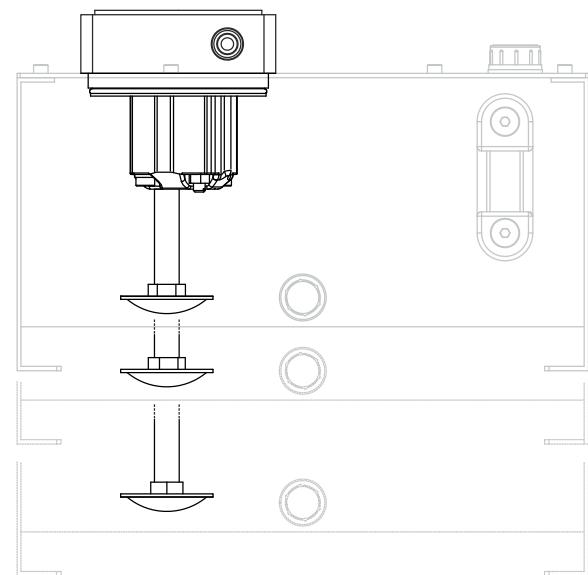


## KVLM

Kit aspirazione per serbatoi LM  
*Suction kit for LM tanks*



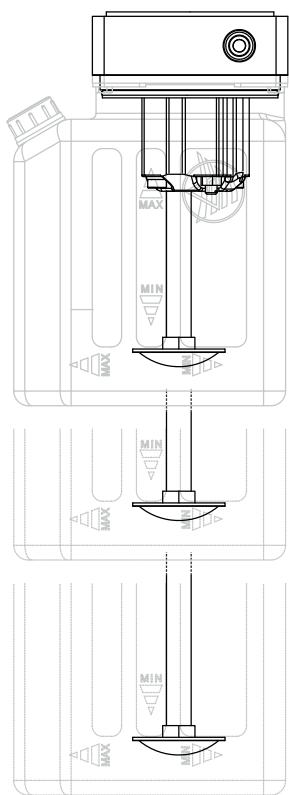
LM07 7 lt.



LM15 15 lt. LM20 20 lt. LM30 30 lt.

## KVPE

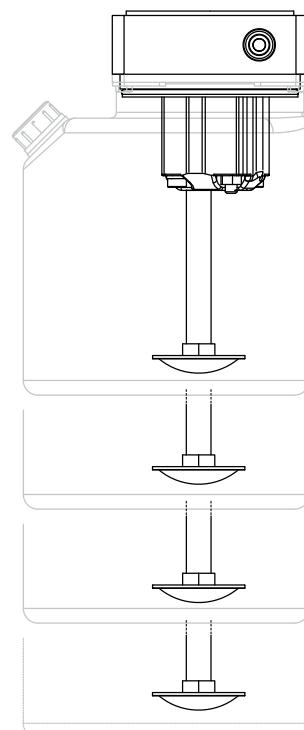
Kit aspirazione verticale per serbatoi PE  
*Suction vertical kit for PE tanks*



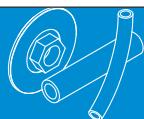
PE05V 5 lt. PE08V 8 lt. PE12V 12 lt.

## KVPC

Kit aspirazione verticale per serbatoi PC  
*Suction vertical kit for PC tanks*



PC05V 5 lt. PC07V 7 lt. PC09V 9 lt. PC11V 11 lt.



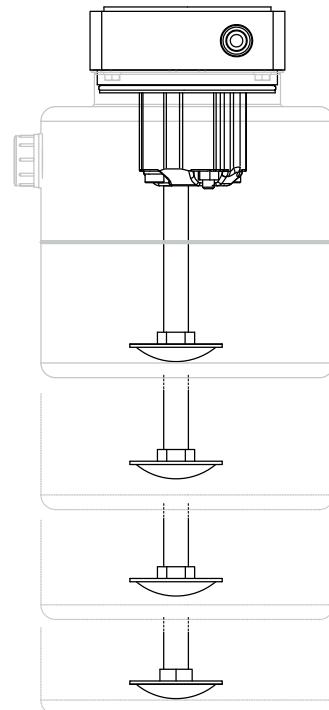
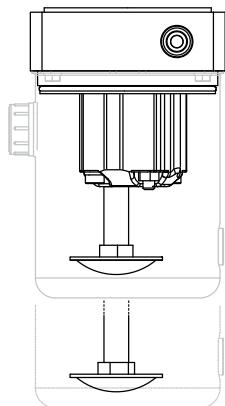
## Aspirazione e scarico suction and return

3

KVCS

21

Kit aspirazione verticale per serbatoi CS  
Suction vertical kit for CS tanks



|                                |         |                                |         |                                |       |                                |       |                                |        |                                |        |
|--------------------------------|---------|--------------------------------|---------|--------------------------------|-------|--------------------------------|-------|--------------------------------|--------|--------------------------------|--------|
| <input type="checkbox"/> CS01V | 1,5 lt. | <input type="checkbox"/> CS02V | 2,5 lt. | <input type="checkbox"/> CS05V | 5 lt. | <input type="checkbox"/> CS08V | 8 lt. | <input type="checkbox"/> CS10V | 10 lt. | <input type="checkbox"/> CS12V | 12 lt. |
|--------------------------------|---------|--------------------------------|---------|--------------------------------|-------|--------------------------------|-------|--------------------------------|--------|--------------------------------|--------|

NB: I kit aspirazione sono validi per tutti i tipi di collettori e pompe, esclusi il G40 (collettore reversibile) e PA180 (pompa 8cc/rev). In caso di impiego di questi componenti, rivolgersi al nostro ufficio tecnico.  
*Note: Suction kits are valid for all type of manifolds and pumps, except G40 (reversible manifold) and PA180 (8cc/rev pump). When using these components, please contact our technical department.*

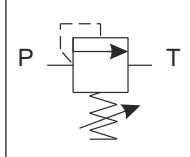
### Codici ordinazione - ordering codes

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| K | V | C | S | 1 | 0 |
| 1 | 2 | 3 |   |   |   |

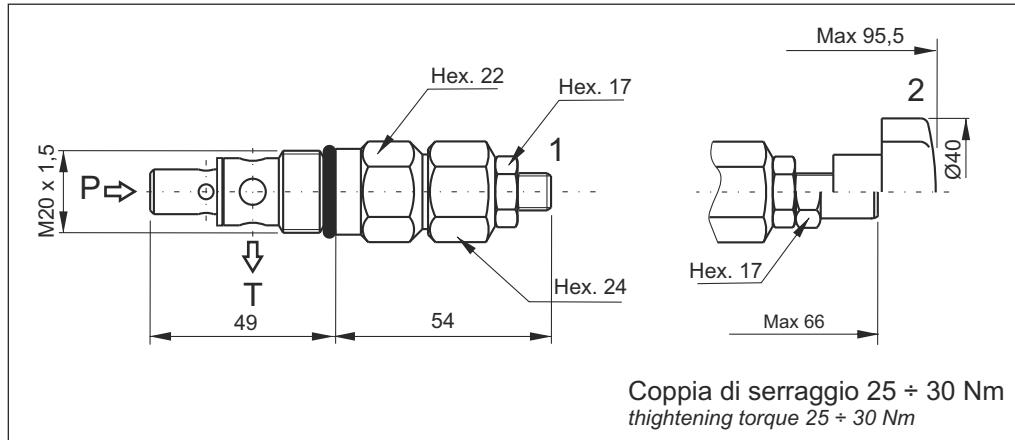
| 1 Kit verticale - vertical kit | 2 Serie serbatoio - tank series | 3 Volume serbatoio - tank volume | LM           | PE           | PC           | CS |
|--------------------------------|---------------------------------|----------------------------------|--------------|--------------|--------------|----|
| KV (EPD60R3/8 + FT90)          | PE                              | 07 = 7,0 lt                      | 05 = 5,0 lt  | 05 = 5,0 lt  | 01 = 1,5 lt  |    |
|                                | PC                              | 15 = 15,0 lt                     | 08 = 8,0 lt  | 07 = 7,0 lt  | 02 = 2,5 lt  |    |
|                                | CS                              | 20 = 20,0 lt                     | 12 = 12,0 lt | 09 = 9,0 lt  | 05 = 5,0 lt  |    |
|                                | LM                              | 30 = 30,0 lt                     |              | 11 = 11,0 lt | 08 = 8,0 lt  |    |
|                                |                                 |                                  |              |              | 10 = 10,0 lt |    |
|                                |                                 |                                  |              |              | 12 = 12,0 lt |    |

## VMDC35

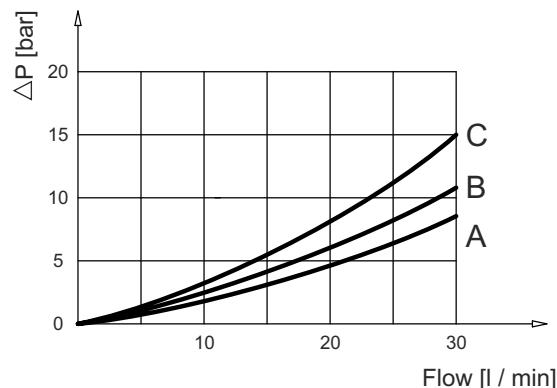
Valvola di massima pressione ad azione diretta  
Direct acting relief valve



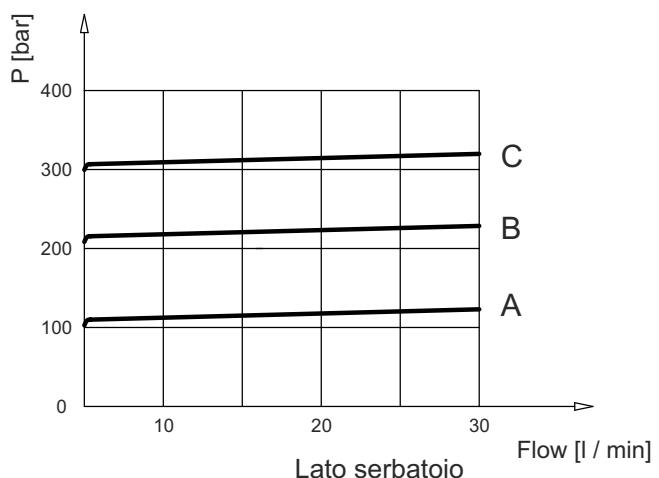
| Caratteristiche principali<br>main features |          |
|---|----------|
| Pressione max<br>max pressure               | 320 bar  |
| Portata max<br>max flow                     | 30 l/min |
| Peso<br>weight                              | 0,16 Kg  |



Pressione minima di taratura - minimum setting pressure



Pressione vs flusso - pressure vs flow



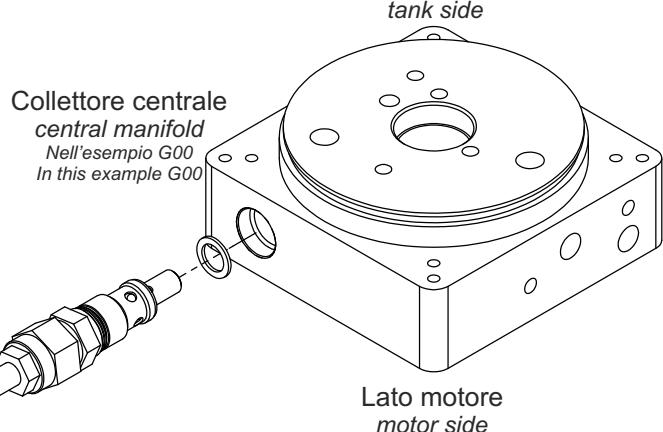
NB: Valori misurati sulla sola valvola.

La perdita di carico potrebbe variare a seconda della viscosità del liquido e della temperatura. Le curve sopra riportate sono state ottenute alla temperatura di 40°C, utilizzando olio con viscosità 46 cSt.

Note: Values measured on valve alone. Pressure drop may change depending on fluid viscosity and temperature. The curves above, have been obtained at 40°C, using oil with viscosity 46 cSt.

## Codice ordinazione - ordering code

|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
| V | M | D | C | 3 | 5 | B | 1 | 0 |
| 1 |   |   |   | 2 |   | 3 | 4 | 5 |



1 Tipo di valvola - valve type

VMDC

2 Grandezza nominale - nominal size

M20x1,5

3 Range di lavoro - working range

A = 10 ÷ 90 bar  
B = 20 ÷ 210 bar  
C = 70 ÷ 350 bar

4 Dispositivo di regolazione - adjusting device

1 = Vite - screw (standard)  
2 = Manopola - handknob

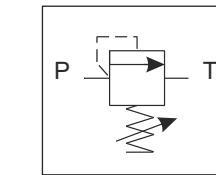
5 Serie - series

0 = Standard

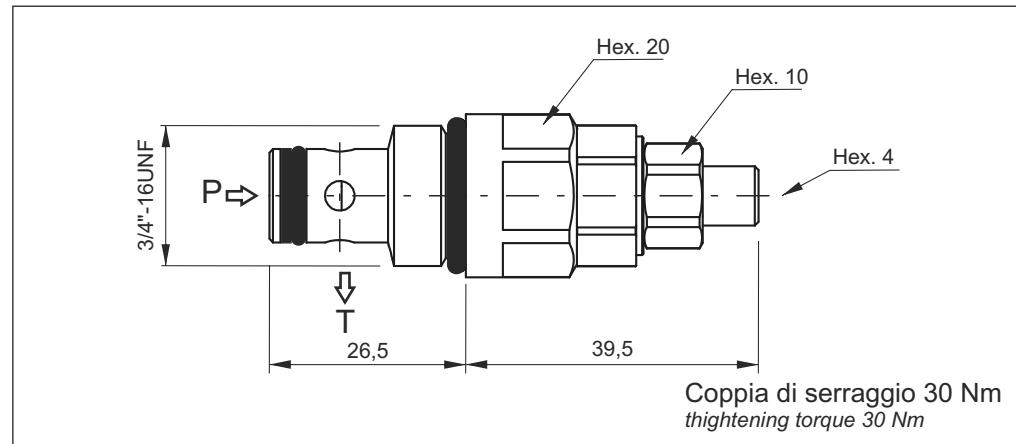
## VMDC20

Valvola di massima pressione ad azione diretta  
Direct acting relief valve

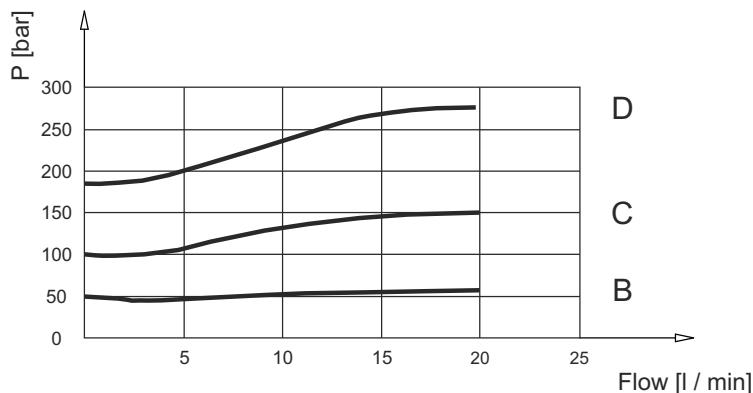
23



| Caratteristiche principali<br>main features |          |
|---|----------|
| Pressione max<br>max pressure               | 350 bar  |
| Portata max<br>max flow                     | 20 l/min |
| Peso<br>weight                              | 0,10 Kg  |



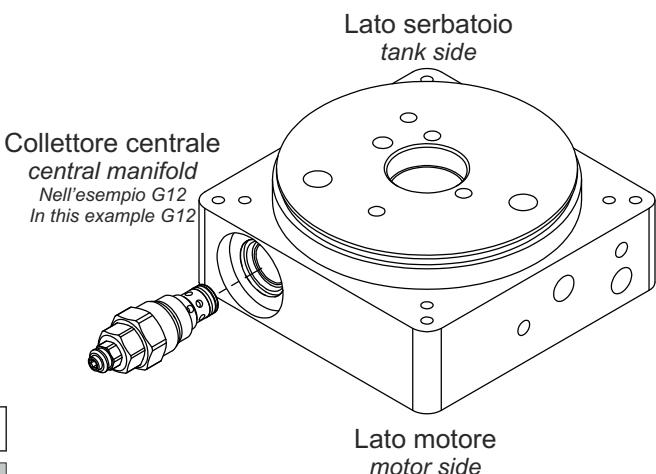
Pressione vs flusso - pressure vs flow



NB: Per esigenze grafiche non è riportata la curva A.  
Le curve sopra riportate sono state ottenute alla  
temperatura di 40°C, utilizzando olio con viscosità 32 cSt.  
Note: For graphic reasons it has not shown the A curve.  
The curves above, have been obtained at 40°C, using oil with  
viscosity 32 cSt.

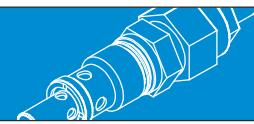
## Codice ordinazione - ordering code

V M D C 2 0 C 1 0  
1 2 3 4 5



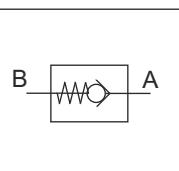
- |                                |                                     |   |
|--------------------------------|-------------------------------------|---|
| 1 Tipo di valvola - valve type | 2 Grandezza nominale - nominal size | 3 Range di lavoro - working range   |
| VMDC                           | 3/4"-16 UNF                         | A = 5 ÷ 30 bar    C = 50 ÷ 200 bar<br>B = 20 ÷ 100 bar    D = 150 ÷ 350 bar |

- |   |                  |
|---|------------------|
| 4 Dispositivo di regolazione - adjusting device | 5 Serie - series |
| 1 = Vite - screw                                | 0 = Standard     |



## VUC20

Valvola unidirezionale a sfera  
Check valve



| Caratteristiche principali<br>main features |          |
|---|----------|
| Pressione max<br>max pressure               | 350 bar  |
| Portata max<br>max flow                     | 25 l/min |
| Peso<br>weight                              | 0,07 Kg  |

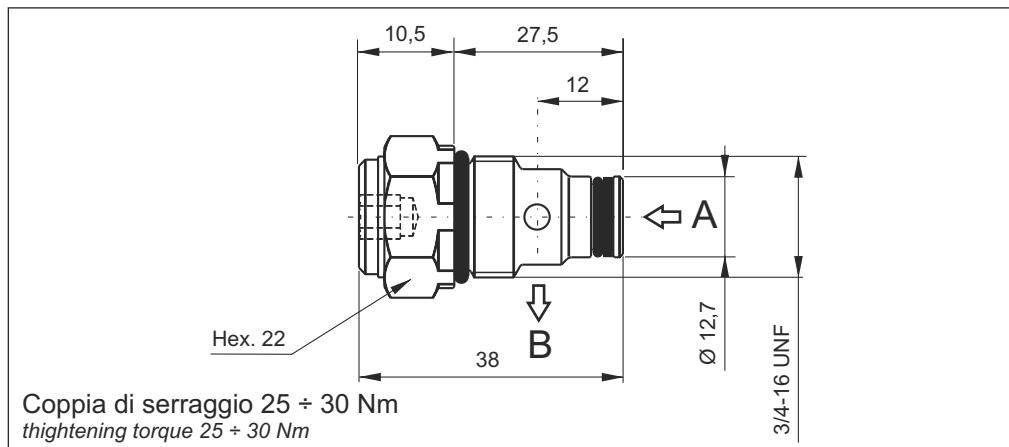
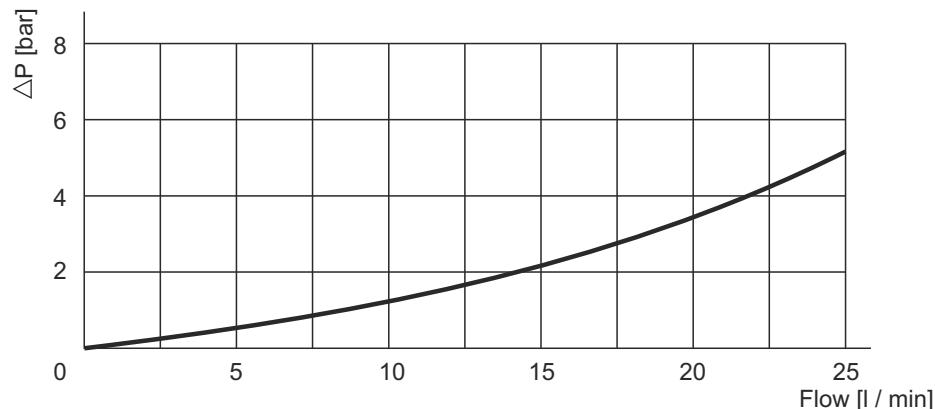


Diagramma perdita di carico - pressure drop diagram



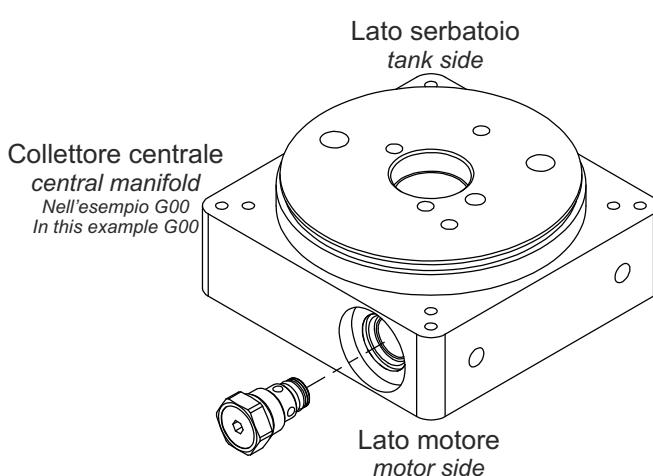
NB: Valori misurati sulla sola valvola.

La perdita di carico potrebbe variare a seconda della viscosità del liquido e della temperatura. Le curve sopra riportate sono state ottenute alla temperatura di 40°C, utilizzando olio con viscosità 46 cSt.

Note: Values measured on valve alone. Pressure drop may change depending on fluid viscosity and temperature. The curves above, have been obtained at 40°C, using oil with viscosity 46 cSt.

## Codice ordinazione - ordering code

V U C 2 0 0  
1 2 3



1 Tipo di valvola - valve type

VUC

2 Grandezza nominale - nominal size

3/4"-16 UNF

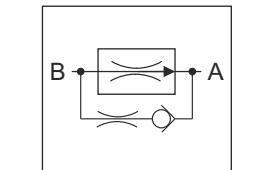
3 Serie - series

0 = Standard

VSC6

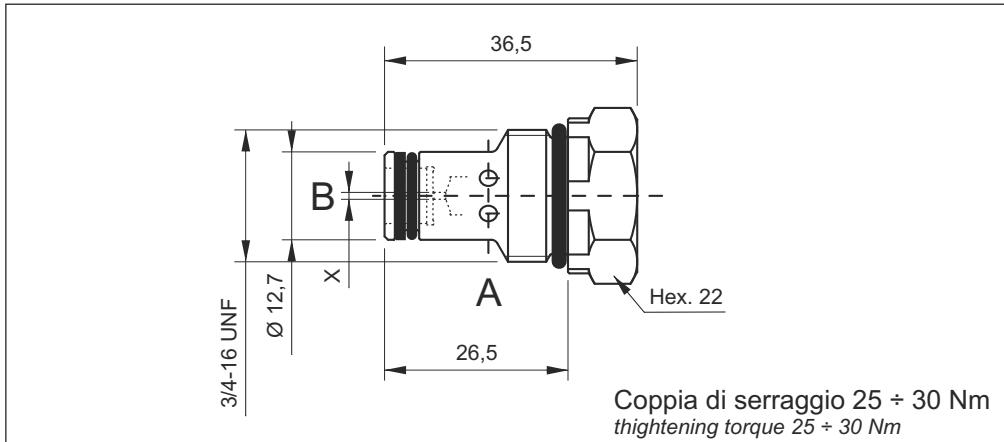
Strozzatore fisso a pressione compensata  
Fixed compensated pressure throttle

25



Caratteristiche principali  
main features

|                               |          |
|-------------------------------|----------|
| Pressione max<br>max pressure | 250 bar  |
| Portata max<br>max flow       | 12 l/min |
| Peso<br>weight                | 0,06 Kg  |



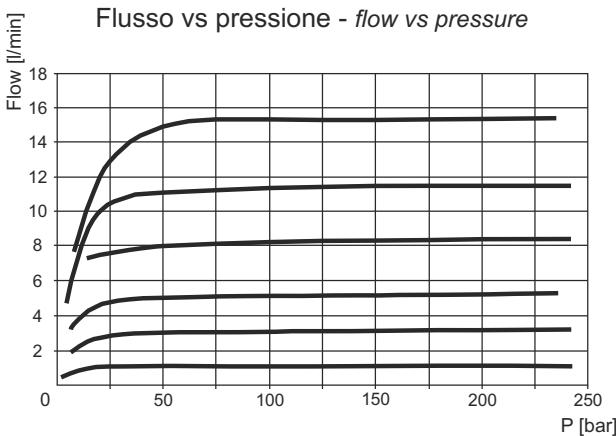
Flusso controllato - controlled flow

| Code  | $\phi$ X [mm]    |
|-------|------------------|
| VSC60 | chiusa<br>closed |
| VSC6A | 0,8              |
| VSC6B | 1                |
| VSC6C | 1,25             |
| VSC6D | 1,5              |
| VSC6E | 1,75             |
| VSC6F | 1,8              |
| VSC6G | 1,9              |
| VSC6H | 2                |
| VSC6I | 2,25             |
| VSC6L | 2,6              |

NB: Portata nominale controllata, misurata a 50bar.  
La caduta di pressione può variare a seconda della  
viscosità e della temperatura. Le curve sopra  
riportate sono state ottenute alla temperatura di  
40°C, utilizzando olio con viscosità 46 cSt.  
Note: nominal controlled flow, measured at 50bar. Pressure  
drop may change depending on fluid viscosity and  
temperature. The curves above, have been obtained at  
40°C, using oil with viscosity 46 cSt.

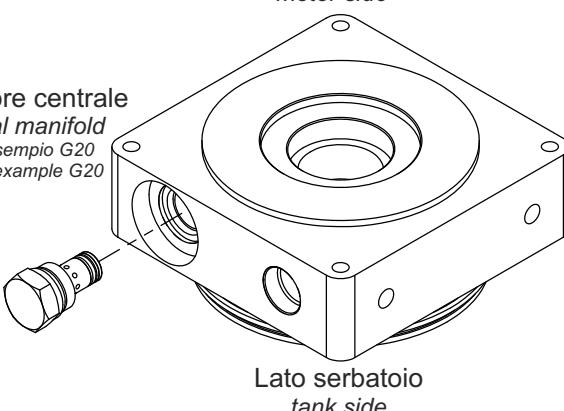
Codice ordinazione - ordering code

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| V | S | C | 6 | C | 0 |
| 1 | 2 | 3 | 4 |   |   |



Lato motore  
motor side

Collettore centrale  
central manifold  
Nell'esempio G20  
In this example G20



1 Tipo di valvola - valve type    2 Grandezza nominale - nominal size

VSC

3/4"-16 UNF

3 Flusso controllato - controlled flow

A = 1,0 lt/min   D = 4,0 lt/min   G = 7,0 lt/min   L = 12 lt/min  
B = 2,0 lt/min   E = 5,0 lt/min   H = 8,0 lt/min   0 = chiusa - closed  
C = 3,0 lt/min   F = 6,0 lt/min   I = 10 lt/min

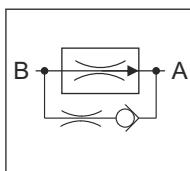
4 Serie - series

0 = Standard

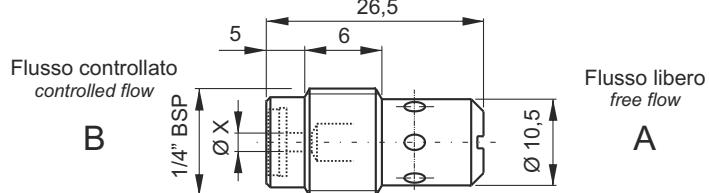


## VSC01

Strozzatore fisso a pressione compensata  
Fixed compensated pressure throttle



| Caratteristiche principali<br>main features |          |
|---|----------|
| Pressione max<br>max pressure               | 250 bar  |
| Portata max<br>max flow                     | 12 l/min |
| Peso<br>weight                              | 0,015 Kg |

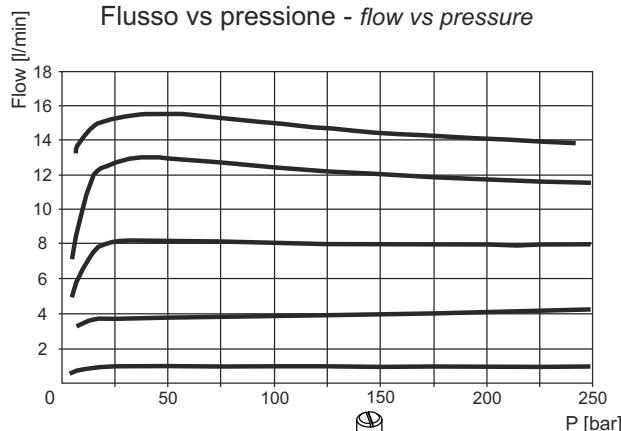


Coppia di serraggio 6 Nm  
tightening torque 6 Nm

Flusso controllato - controlled flow

| Code   | Ø X [mm]         |
|--------|------------------|
| VSC010 | chiusa<br>closed |
| VSC01A | 1                |
| VSC01B | 1,2              |
| VSC01C | 1,5              |
| VSC01D | 1,7              |
| VSC01E | 1,9              |
| VSC01F | 2,1              |
| VSC01G | 2,3              |
| VSC01H | 2,5              |
| VSC01I | 2,8              |
| VSC01L | 3                |

Flusso vs pressione - flow vs pressure



NB: Portata nominale controllata, misurata a 50bar.  
La caduta di pressione può variare a seconda della  
viscosità e della temperatura. Le curve sopra  
riportate sono state ottenute alla temperatura di  
40°C, utilizzando olio con viscosità 46 cSt.

Note: nominal controlled flow, measured at 50bar. Pressure drop may change depending on fluid viscosity and temperature. The curves above, have been obtained at 40°C, using oil with viscosity 46 cSt.

### Codice ordinazione - ordering code

V S C 0 1 E 0  
1 2 3 4

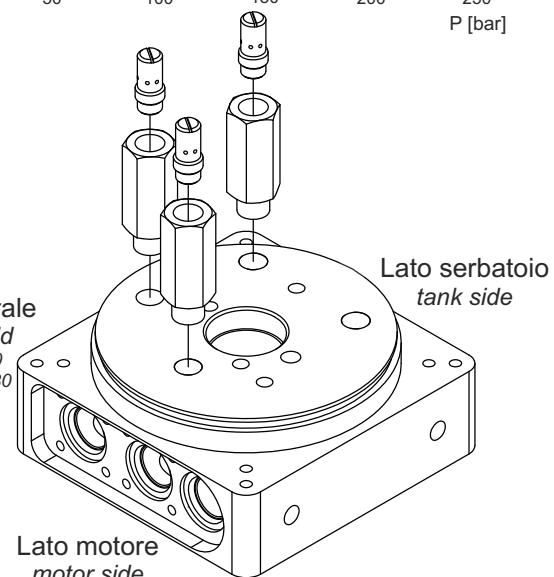
1 Tipo di valvola - valve type

VSC

2 Grandezza nominale - nominal size

1/4" BSP

Collettore centrale  
central manifold  
Nell'esempio G30  
In this example G30



3 Flusso controllato - controlled flow

A = 1,0 lt/min D = 4,0 lt/min G = 7,0 lt/min L = 12 lt/min  
B = 2,0 lt/min E = 5,0 lt/min H = 8,0 lt/min O = chiusa - closed  
C = 3,0 lt/min F = 6,0 lt/min I = 10 lt/min

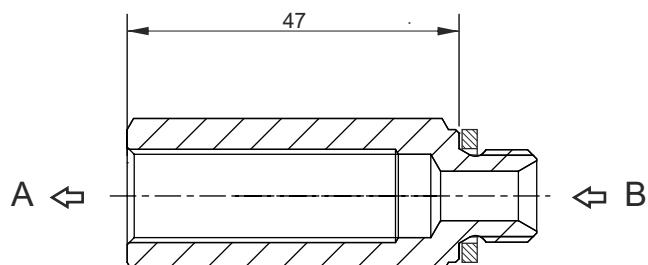
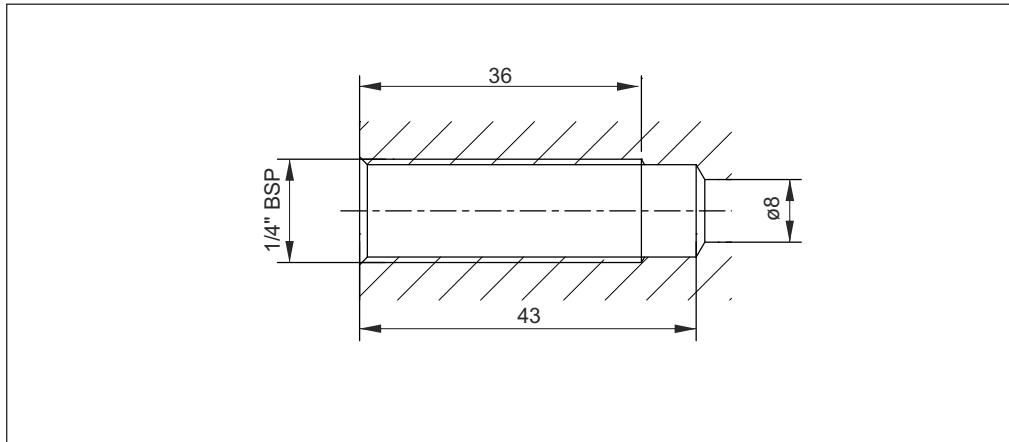
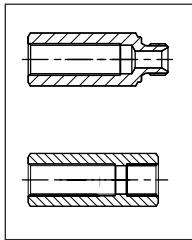
4 Serie - series

O = Standard

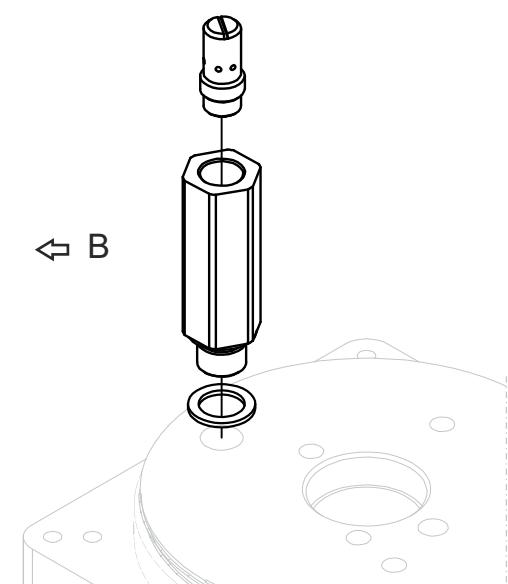
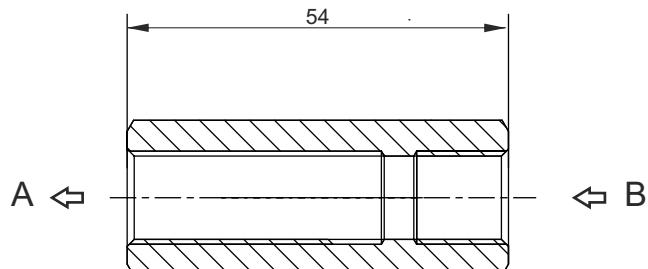
**CMF**

Corpo per montaggio in linea VSC  
Body for VSC in-line mount

**27**



| Code   | Tipo type |
|--------|-----------|
| CMF059 | F - M     |
| CMF060 | F - F     |



Codice ordinazione - ordering code

|   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|
| C | M | F | 0 | 5 | 9 | 0 |
| 1 | 2 | 3 |   |   |   |   |

|   |                     |   |   |   |                                |
|---|---------------------|---|---|---|--------------------------------|
| 1 | Corpo - body<br>CMF | 2 | Tipo - type<br>059 = MF (Std)<br>060 = FF | 3 | Serie - series<br>0 = Standard |
|---|---------------------|---|---|---|--------------------------------|

## MSV

Valvola elettrica pilotata singola tenuta  
Pilot operated two-ways single locking solenoid valve

| <br>W-MSV31   |          |
|---|----------|
| <br>W-MSV30   |          |
| <b>Caratteristiche principali</b><br><i>main features</i> |          |
| Pressione max<br><i>max pressure</i>                      | 350 bar  |
| Portata max<br><i>max flow</i>                            | 40 l/min |
| Peso (con bobina)<br><i>weight (with coil)</i>            | 0,27 Kg  |

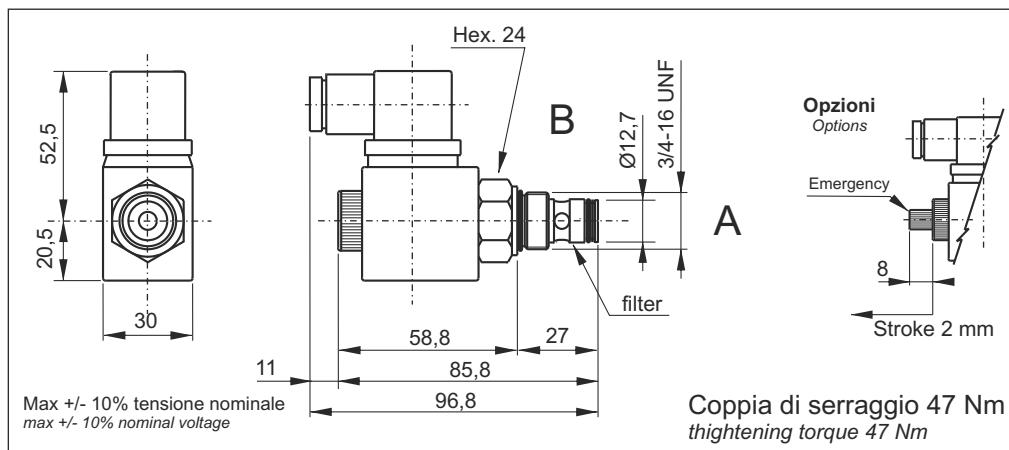
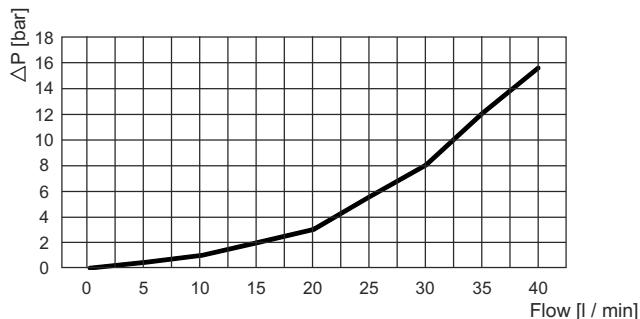


Diagramma perdita di carico - pressure drop diagram



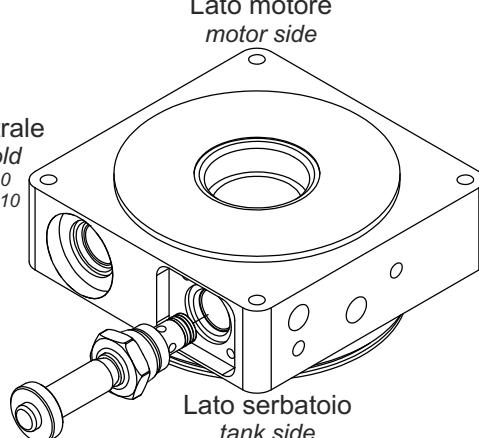
| Tipologia valvola<br>valve type | Tipologia bobina<br>coil type | Potenza assorbita<br>power consumption |
|---------------------------------|-------------------------------|--|
| MSV3000                         | HDB...DC/RAC                  | 18W                                    |
| MSV30E0                         | HDB...DC/RAC                  | 18W                                    |
| MSV3100                         | HDB...DC/RAC                  | 18W                                    |
| MSV31E0                         | HDB...DC/RAC                  | 18W                                    |

NB: Valori misurati sulla sola valvola.

La perdita di carico potrebbe variare a seconda della viscosità del liquido e della temperatura. Le curve sopra riportate sono state ottenute alla temperatura di 40°C, utilizzando olio con viscosità 32 cSt.

Note: Values measured on valve alone. Pressure drop may change depending on fluid viscosity and temperature. The curves above, have been obtained at 40°C, using oil with viscosity 32 cSt.

Collettore centrale  
central manifold  
Nell'esempio G10  
In this example G10



## Codice ordinazione - ordering code

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| M | S | V | 3 | 0 | 0 |
| 1 | 2 | 3 | 4 |   |   |

|                                  |                                     |   |  |   |  |
|----------------------------------|-------------------------------------|---|--|---|--|
| 1                                | Tipo di valvola - valve type<br>MSV | 2 | Operazione - operation<br>30 = normalmente chiusa - normally closed<br>31 = normalmente aperta - normally open | 3 | Opzioni - options<br>0 = Senza opzioni - no options (Std)<br>E = Comando manuale - manual override |
| 4 Serie - series<br>0 = Standard |                                     |   |  |   |  |

## MDV

Valvola elettrica pilotata doppia tenuta  
Direct operated two-ways double locking solenoid valve

29

| Caratteristiche principali<br>main features |          |
|---|----------|
| Pressione max<br>max pressure               | 250 bar  |
| Portata max<br>max flow                     | 30 l/min |
| Peso (con bobina)<br>weight (with coil)     | 0,35 Kg  |

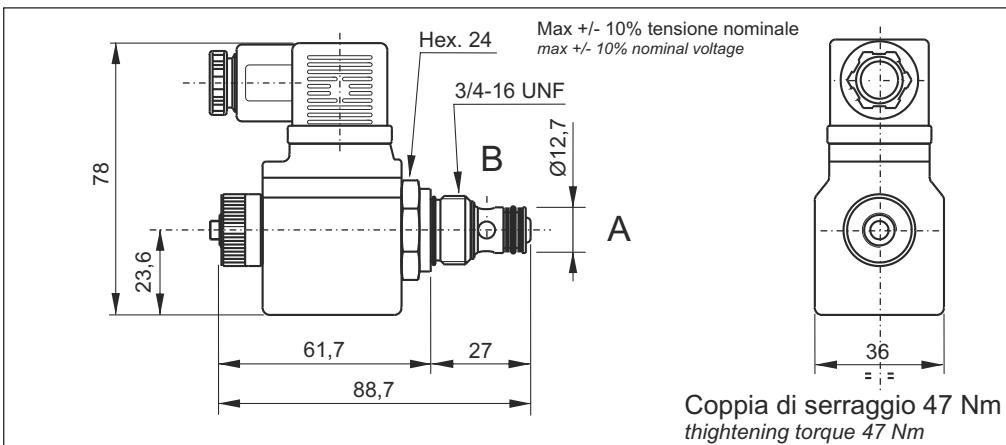
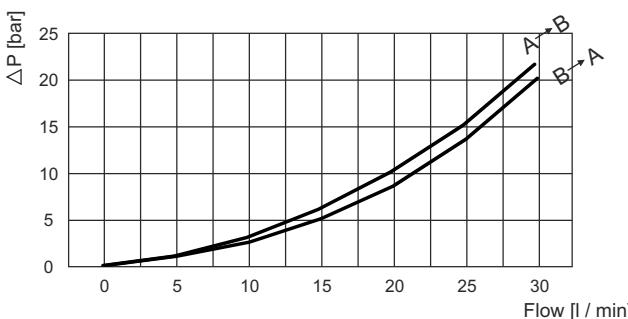


Diagramma perdita di carico - pressure drop diagram



| Tipologia valvola<br>valve type | Tipologia bobina<br>coil type | Potenza assorbita<br>power consumption |
|---------------------------------|-------------------------------|--|
| MDV30E0                         | HDC...DC                      | 22W                                    |

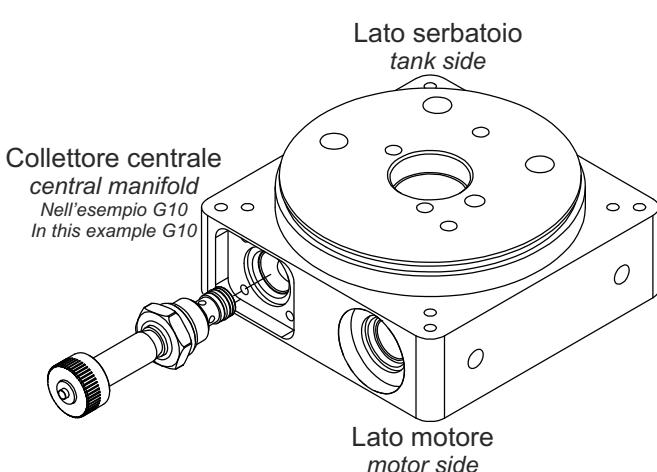
NB: Valori misurati sulla sola valvola.

La perdita di carico potrebbe variare a seconda della viscosità del liquido e della temperatura. Le curve sopra riportate sono state ottenute alla temperatura di 40°C, utilizzando olio con viscosità 32 cSt.

Note: Values measured on valve alone. Pressure drop may change depending on fluid viscosity and temperature. The curves above, have been obtained at 40°C, using oil with viscosity 32 cSt.

## Codice ordinazione - ordering code

|   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|
| M | D | V | 3 | 0 | E | 0 |
| 1 | 2 | 3 | 4 |   |   |   |



1 Tipo di valvola - valve type

MDV

2 Operazione - operation

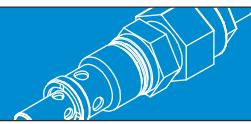
30 = normalmente chiusa - normally closed

3 Opzioni - options

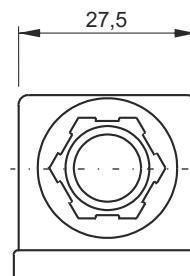
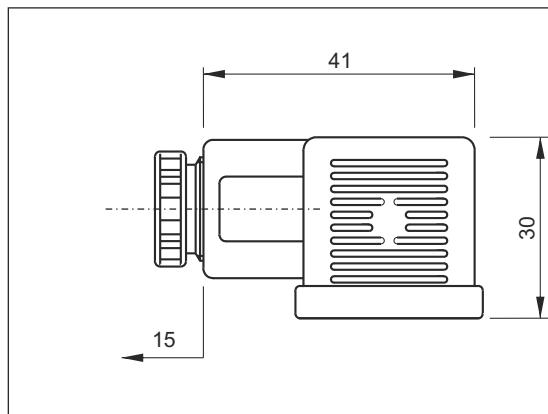
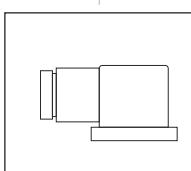
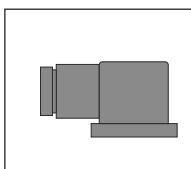
E = Comando manuale - manual override

4 Serie - series

0 = Standard



## AM

Connettori elettrici  
Electric connectors

DIN 43650 - A

## HDB

## HDC

Bobine  
coils

| cod. connettore<br>connector code | cod. bobina<br>coil code |
|-----------------------------------|--------------------------|
| <b>18 W Potenza - power</b>       |                          |
| AM5111, AM5128/1                  | HDB0012DC0               |
| AM5111, AM5128/2                  | HDB0024DC0               |
| AM5111/RD, AM5128/2/RD            | HDB024RAC0               |
| AM5111/RD, AM5128/4/RD            | HDB110RAC0               |
| AM5111/RD, AM5128/4/RD            | HDB220RAC0               |
| <b>22 W Potenza - power</b>       |                          |
| AM5111, AM5128/1                  | HDC0012DC0               |
| AM5111, AM5128/2                  | HDC0024DC0               |

## Codici ordinazione - ordering codes

|   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|
| A | M | 5 | 1 | 2 | 8 | / | 2 | / | R | D |
| 1 |   |   |   |   | 2 |   |   | 3 |   |   |

1 Connettore - connector

AM5111 = nero - black (Std)  
AM5128 = luminoso - LED

2 Tensione (solo LED) - voltage (only LED)

1 = 12 V  
2 = 24 V  
3 = 110 - 220 V

3 Raddrizzatore - rectifier

RD = con raddrizzatore - with rectifier  
Omettere se non richiesto - omit if not request

Per connettore AM5111 omettere punto 2 - for AM5111 omit point 2

|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
| H | D | B | 2 | 2 | 0 | R | A | C | 0 |
| 1 |   |   |   |   | 2 |   |   | 3 |   |

1 Bobina - coil

HDB = 18W  
HDC = 22W0012DC, 0024DC = corrente continua - DC current  
024RAC, 110RAC, 220RAC = corrente raddrizzata - RAC current

3 Serie - series

0 = Standard

HDC solo corrente continua - for HDC, DC current only

## CPE

Valvola direzionale a due vie con comando a pulsante  
Button operated two-ways directional valve

31

| Caratteristiche principali<br>main features |          |
|---|----------|
| Pressione max<br>max pressure               | 320 bar  |
| Portata max<br>max flow                     | 30 l/min |
| Peso<br>weight                              | 0,12 Kg  |

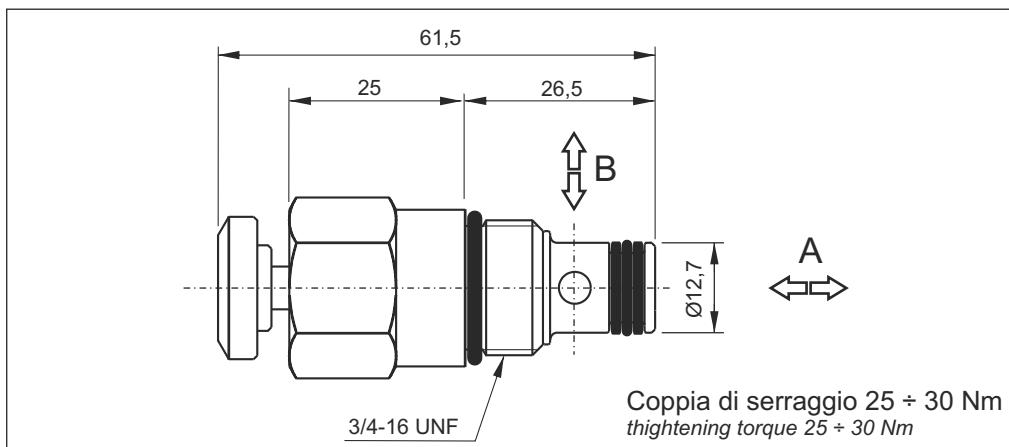
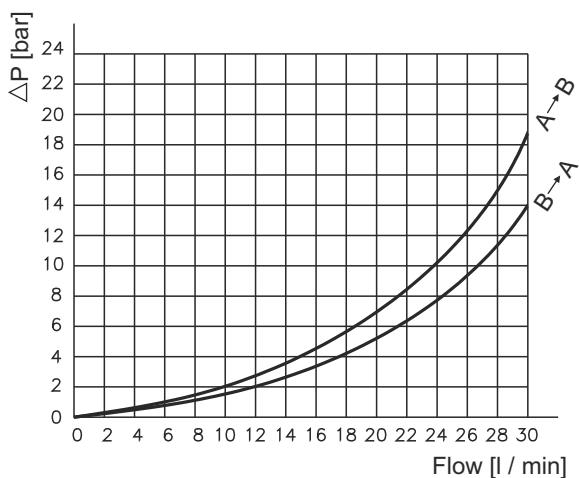
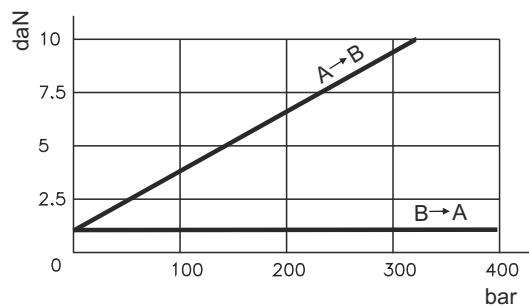


Diagramma perdita di carico - pressure drop diagram



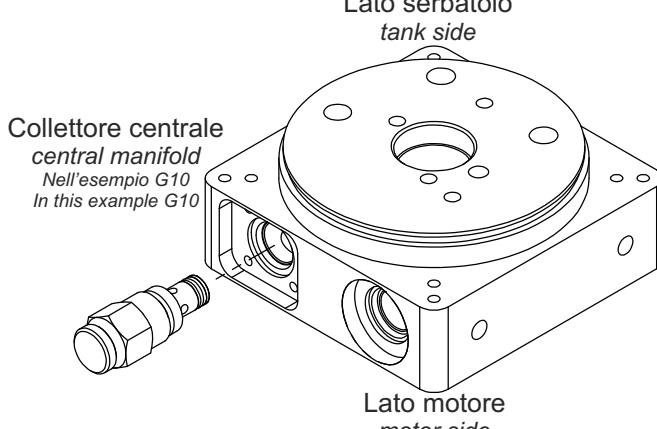
Forza azionamento (daN) sul pulsante  
actuation force (daN) on the button



NB: Valori misurati sulla sola valvola.  
La perdita di carico potrebbe variare a seconda della  
viscosità del liquido e della temperatura. Le curve  
sopra riportate sono state ottenute alla temperatura  
di 40°C, utilizzando olio con viscosità 46 cSt.  
Note: Values measured on valve alone. Pressure drop may  
change depending on fluid viscosity and temperature. The  
curves above, have been obtained at 40°C, using oil with  
viscosity 46 cSt.

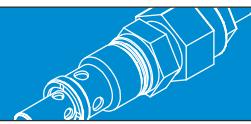
## Codice ordinazione - ordering code

|   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|
| C | P | E | 0 | 4 | P | 0 |
| 1 | 2 | 3 | 4 |   |   |   |



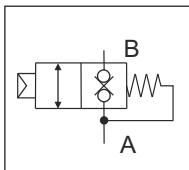
- |   |                                     |   |  |   |   |
|---|-------------------------------------|---|--|---|---|
| 1 | Tipo di valvola - valve type<br>CPE | 2 | Grandezza nominale - nominal size<br>3/4"-16 UNF | 3 | Dispositivo di comando - operation device<br>P = bottone - press button |
|---|-------------------------------------|---|--|---|---|

- |   |                                |
|---|--------------------------------|
| 4 | Serie - series<br>0 = Standard |
|---|--------------------------------|



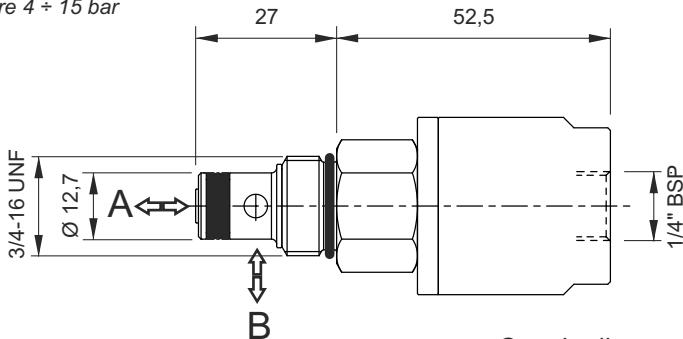
## VPN

Valvola direzionale a due vie a cartuccia con comando pneumatico  
Pneumatic operated two-ways directional cartridge valve



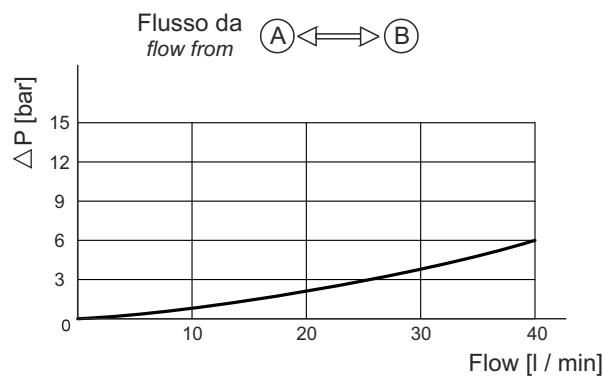
| Caratteristiche principali<br>main features |          |
|---|----------|
| Pressione max<br>max pressure               | 350 bar  |
| Portata max<br>max flow                     | 40 l/min |
| Peso<br>weight                              | 0,16 Kg  |

Pressione di pilotaggio 4 ÷ 15 bar  
pilot pressure 4 ÷ 15 bar



Coppia di serraggio 25 ÷ 30 Nm  
tightening torque 25 ÷ 30 Nm

Diagramma perdita di carico - pressure drop diagram



NB: Valori misurati sulla sola valvola.

La perdita di carico potrebbe variare a seconda della viscosità del liquido e della temperatura. Le curve sopra riportate sono state ottenute alla temperatura di 40°C, utilizzando olio con viscosità 46 cSt.

Note: Values measured on valve alone. Pressure drop may change depending on fluid viscosity and temperature. The curves above, have been obtained at 40°C, using oil with viscosity 46 cSt.

## Codice ordinazione - ordering code

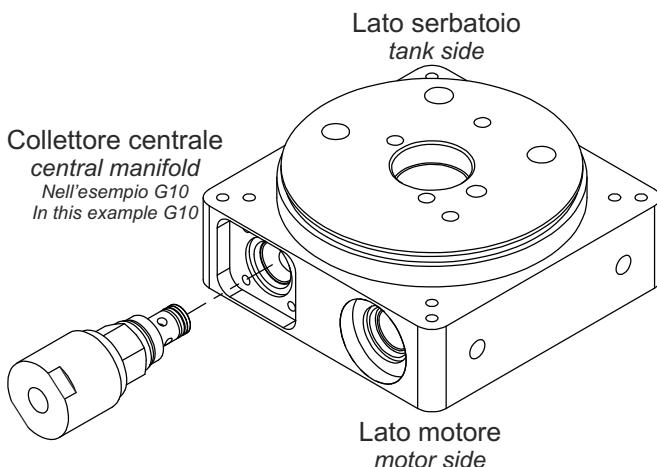
V P N O  
1 2

1 Tipo di valvola - valve type

2 Serie - series

VPN

0 = Standard

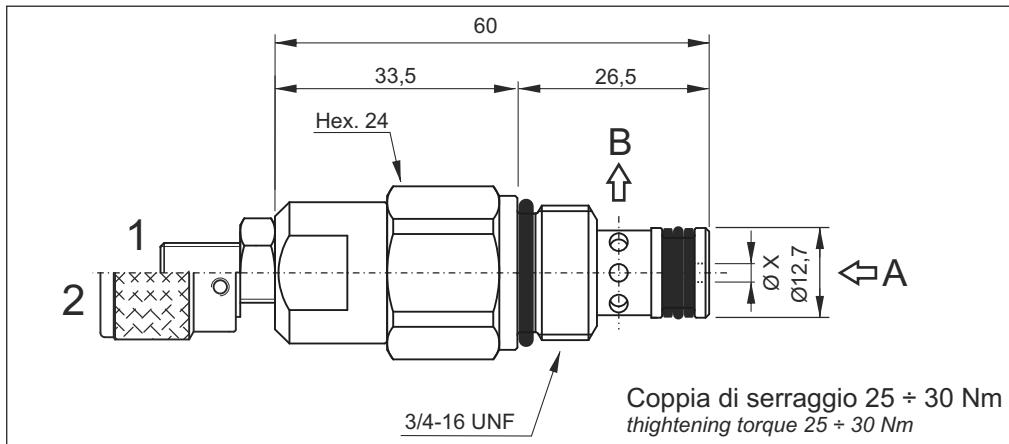


## CSC04

Valvola di controllo flusso compensata regolabile  
Adjustable compensated flow control valve

33

| Caratteristiche principali<br>main features |          |
|---|----------|
| Pressione max<br>max pressure               | 350 bar  |
| Portata max<br>max flow                     | 18 l/min |
| Peso<br>weight                              | 0,21 Kg  |



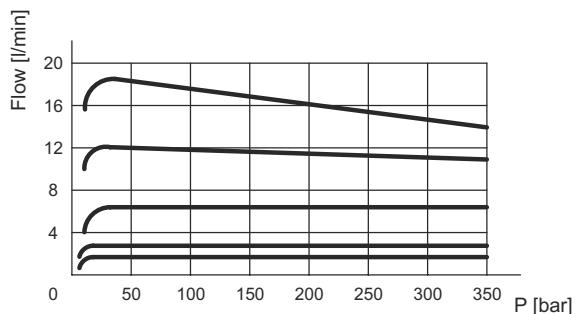
Flusso controllato - controlled flow

| Code   | Ø X [mm] |
|--------|----------|
| CSC04A | 0,9      |
| CSC04B | 1        |
| CSC04C | 1,3      |
| CSC04D | 1,5      |
| CSC04E | 1,7      |
| CSC04F | 2,2      |
| CSC04G | 2,8      |

NB: Valori misurati sulla sola valvola.

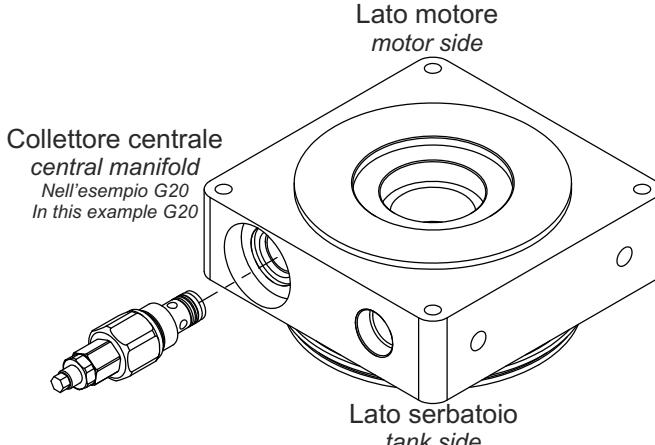
La perdita di carico potrebbe variare a seconda della viscosità del liquido e della temperatura. Le curve sopra riportate sono state ottenute alla temperatura di 40°C, utilizzando olio con viscosità 46 cSt.  
Note: Values measured on valve alone. Pressure drop may change depending on fluid viscosity and temperature. The curves above, have been obtained at 40°C, using oil with viscosity 46 cSt.

Diagramma perdita di carico - pressure drop diagram



Codice ordinazione - ordering code

|   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|
| C | S | C | 0 | 4 | C | 1 | 0 |
| 1 |   |   |   |   | 2 | 3 | 4 |



1 Tipo di valvola - valve type

CSC04

2 Flusso controllato - controlled flow

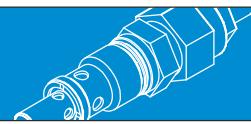
|                      |                       |                       |
|----------------------|-----------------------|-----------------------|
| A = 0,6 ÷ 2,2 lt/min | D = 1,9 ÷ 6,8 lt/min  | G = 7,2 ÷ 18,0 lt/min |
| B = 0,8 ÷ 3,0 lt/min | E = 2,6 ÷ 9,1 lt/min  |                       |
| C = 1,3 ÷ 5,1 lt/min | F = 4,0 ÷ 14,4 lt/min |                       |

3 Dispositivo di regolazione - adjusting device

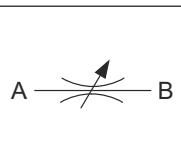
1 = Vite - screw (standard)  
2 = Manopola - handknob

4 Serie - series

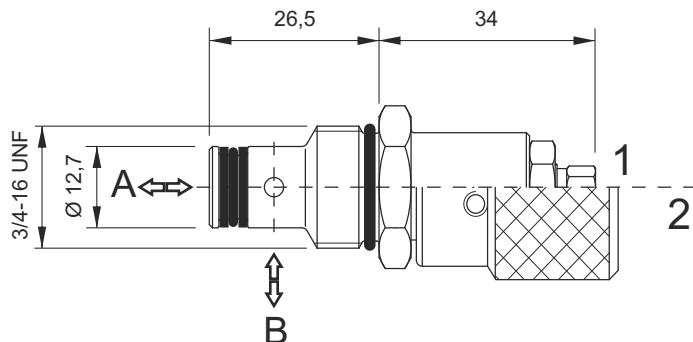
0 = Standard



## CSB

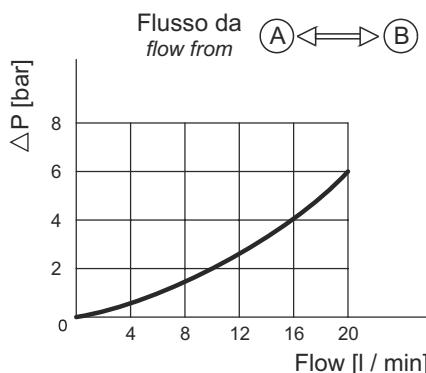
Valvola bidirezionale di controllo di flusso  
Bidirectional flow control valve

| Caratteristiche principali<br>main features |          |
|---|----------|
| Pressione max<br>max pressure               | 300 bar  |
| Portata max<br>max flow                     | 30 l/min |
| Peso<br>weight                              | 0,09 Kg  |



Coppia di serraggio 25 ÷ 30 Nm  
tightening torque 25 ÷ 30 Nm

Diagramma perdita di carico - pressure drop diagram



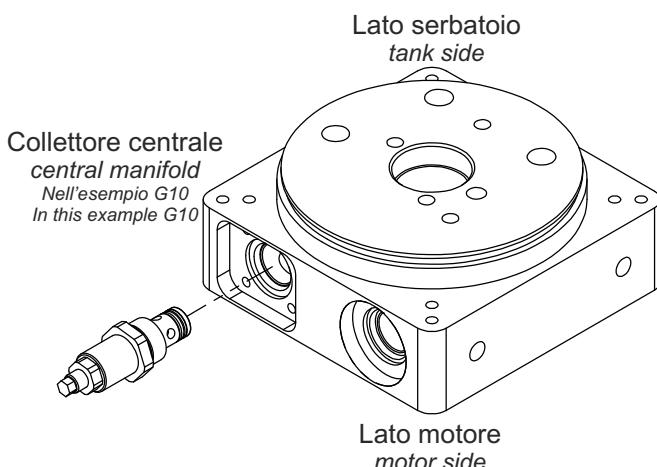
NB: Valori misurati sulla sola valvola.

La perdita di carico potrebbe variare a seconda della viscosità del liquido e della temperatura. Le curve sopra riportate sono state ottenute alla temperatura di 40°C, utilizzando olio con viscosità 46 cSt.

Note: Values measured on valve alone. Pressure drop may change depending on fluid viscosity and temperature. The curves above, have been obtained at 40°C, using oil with viscosity 46 cSt.

## Codice ordinazione - ordering code

|   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|
| C | S | B | 0 | 4 | C | 0 |
| 1 | 2 | 3 | 4 |   |   |   |



Lato serbatoio  
tank side

Collettore centrale  
central manifold  
Nell'esempio G10  
In this example G10

Lato motore  
motor side

1 Tipo di valvola - valve type

CSB

2 Grandezza nominale - nominal size

3/4"-16 UNF

3 Dispositivo di regolazione - adjusting device

C = Vite - screw (standard)

V = Manopola - handknob

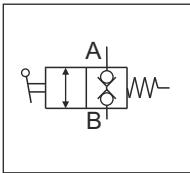
4 Serie - series

0 = Standard

CM04L

Valvola direzionale a due vie a cartuccia con comando a leva  
Lever operated two-ways directional valve

35



| Caratteristiche principali<br>main features |          |
|---|----------|
| Pressione max<br>max pressure               | 320 bar  |
| Portata max<br>max flow                     | 25 l/min |
| Peso<br>weight                              | 0,39 Kg  |

NB: Valori misurati sulla sola valvola.  
La perdita di carico potrebbe variare a seconda della viscosità del liquido e della temperatura.  
Note: Values measured on valve alone. Pressure drop may change depending on fluid viscosity and temperature.

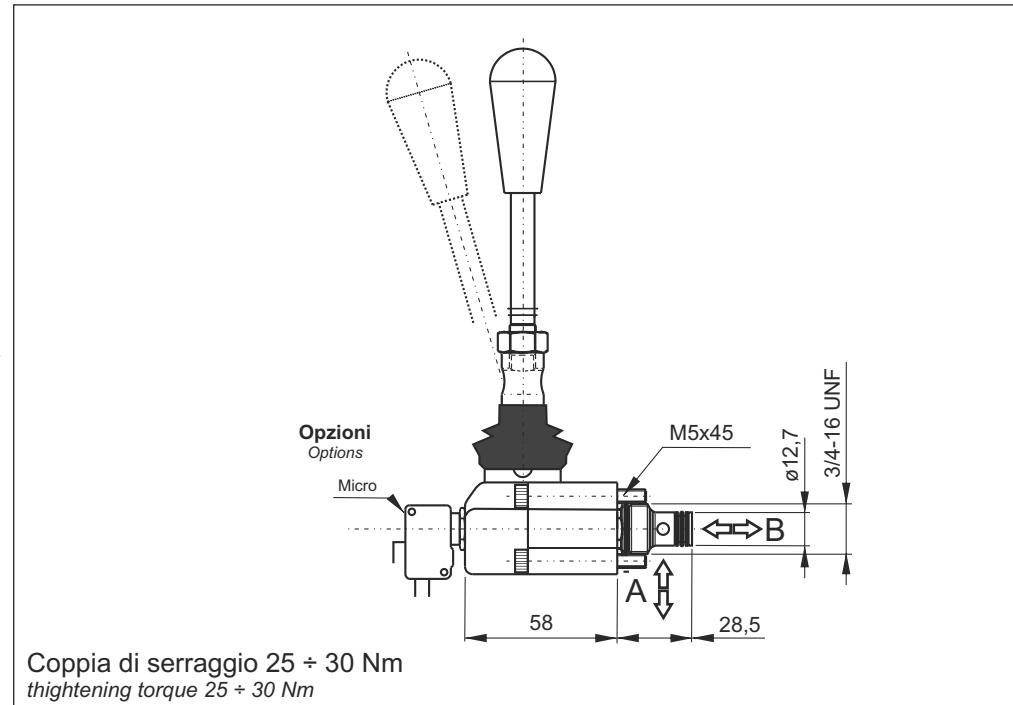
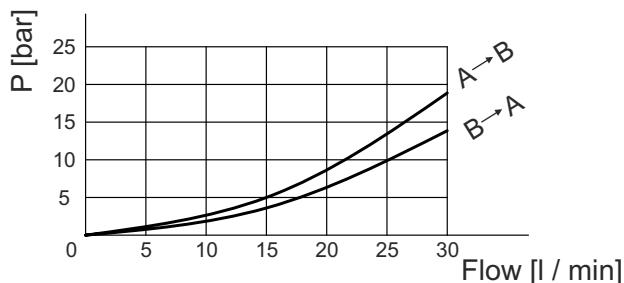


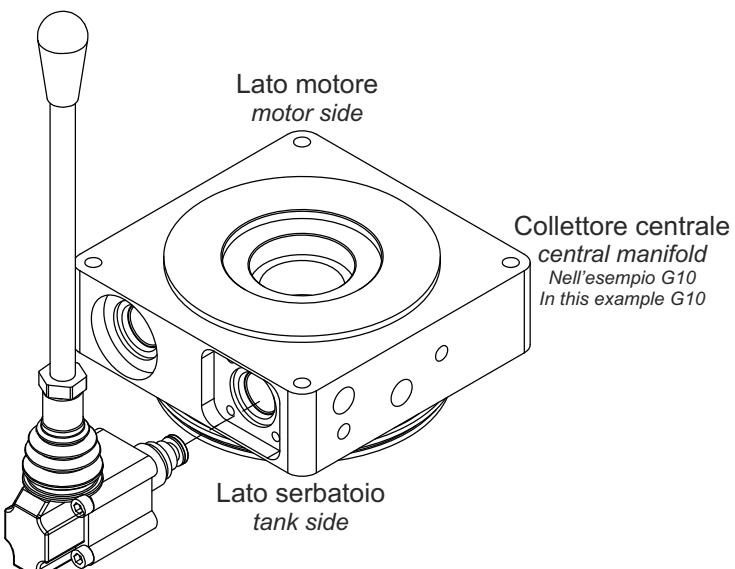
Diagramma perdita di carico - pressure drop diagram



Le curve sopra riportate sono state ottenute alla temperatura di 40°C, utilizzando olio con viscosità 46 cSt.  
The curves above, have been obtained at 40°C, using oil with viscosity 46 cSt.

Codice ordinazione - ordering code

C M 0 4 L M 0  
1 2 3



1 Tipo di valvola - valve type

CM04L

2 Opzioni - options

0 = senza micro - without micro (Std)  
M = con micro - with micro

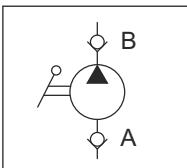
3 Serie - series

0 = Standard



## PM02

Pompa manuale  
Hand pump



| Caratteristiche principali<br>main features |          |
|---|----------|
| Pressione max<br>max pressure               | 200 bar  |
| Cilindrata<br>displacement                  | 2 cc/rev |
| Peso<br>weight                              | 0,40 Kg  |

NB: Valori misurati sulla sola valvola.  
Note: Values measured on valve alone.

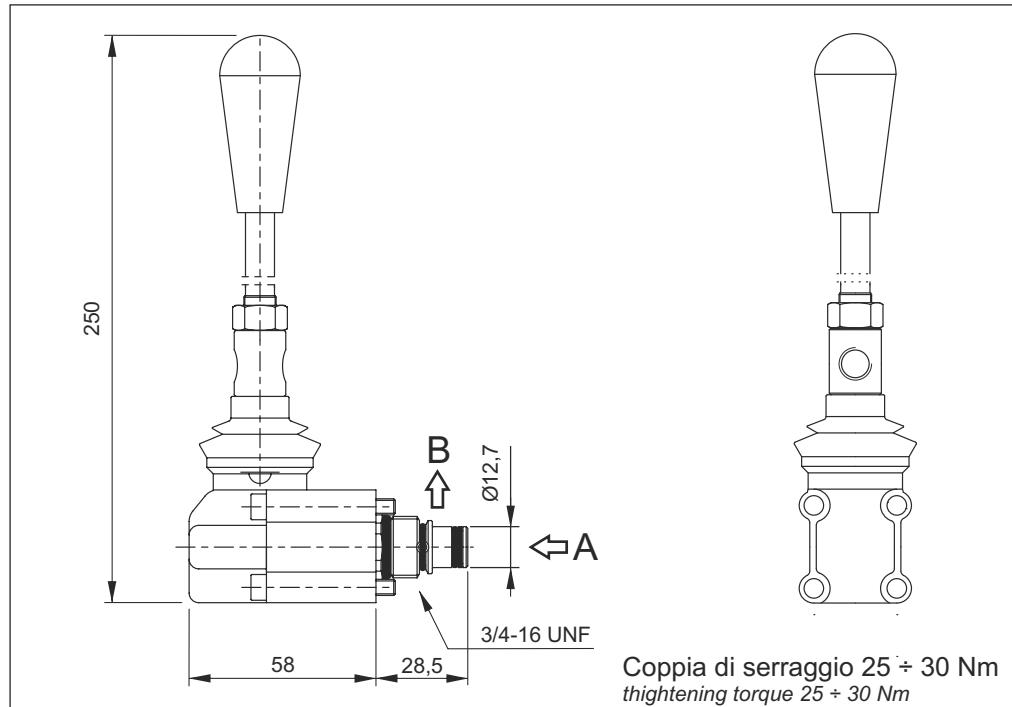
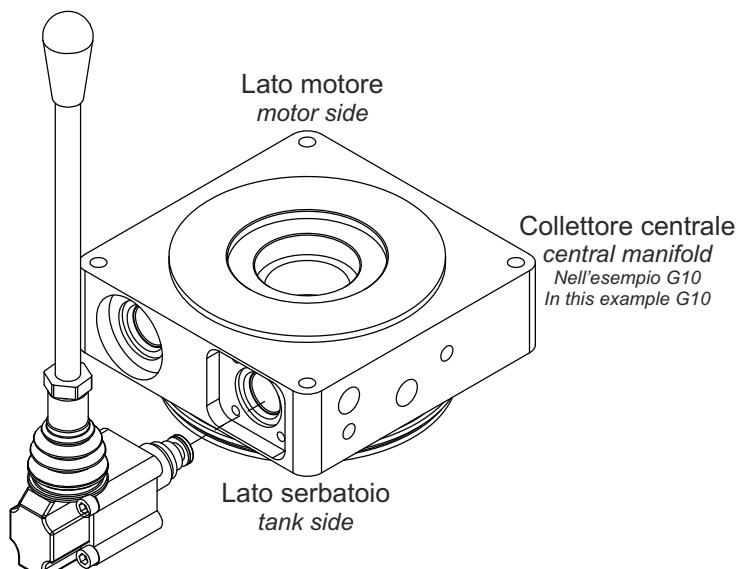
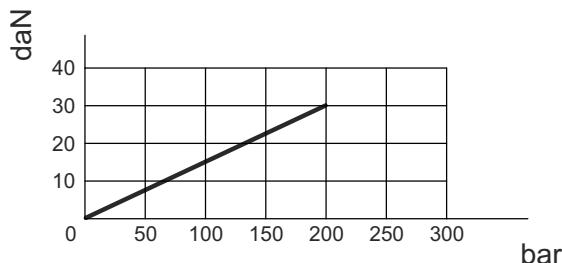


Diagramma forze azionamento - actuating forces diagram



## Codice ordinazione - ordering code

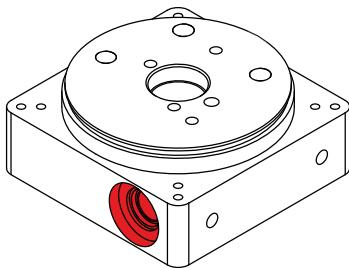
P M 0 2 0  
1 2

1 Tipo di valvola - valve type  
PM02

2 Serie - series  
0 = Standard



## CAV. 1



Collettori - manifolds

Tutti - all

Cavità - cavity

3/4"-16 UNF-2B

Valvole - valves

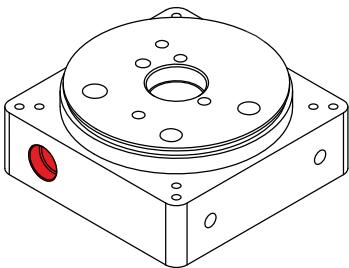
VUC20

CSB04

T0A4

T0C1

## CAV. 2



Collettori - manifolds

Tutti - all

Cavità - cavity

M20x1,5

3/4"-16 UNF-2B (G12)

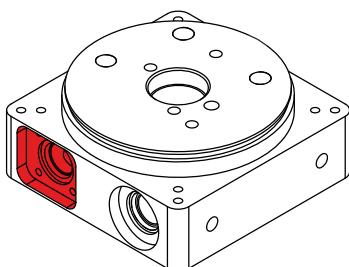
Valvole - valves

VMDC35

T0VM

VMDC20 (G12)

## CAV. 3



Collettori - manifolds

G10, G20, G30

Cavità - cavity

3/4"-16 UNF-2B

Valvole - valves

MSV PM02

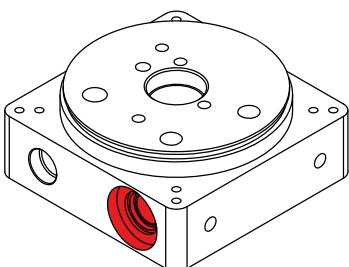
MDV CM04L

VPN T0C2

CPE T0A2

CSB04 T0A3

## CAV. 4



Collettori - manifolds

G20, G30

Cavità - cavity

3/4"-16 UNF-2B

Valvole - valves

CSC04

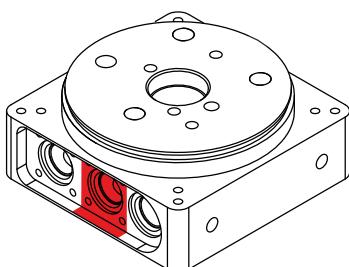
CSB04

VSC6

T0A2

T0C1

## CAV. 0



Collettori - manifolds

G30

Cavità - cavity

3/4"-16 UNF-2B

Valvole - valves

MSV PM02

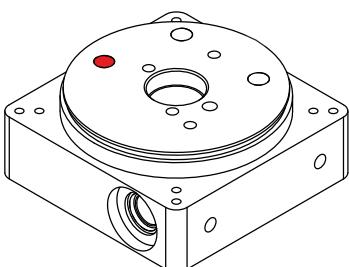
MDV CM04L

VPN T0C2

CPE T0A2

CSB04 T0A3

## CAV. 5



Collettori - manifolds

Tutti - all

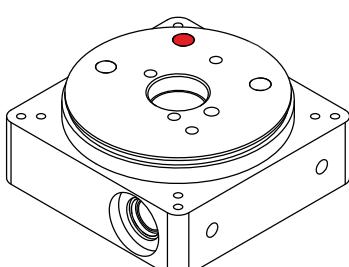
Cavità - cavity

G 1/4"

Valvole - valves

VSC

## CAV. 6



Collettori - manifolds

Tutti - all

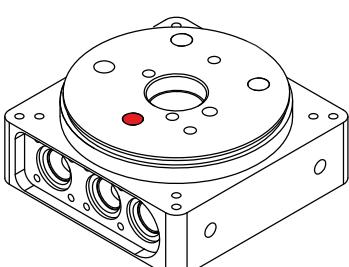
Cavità - cavity

G 1/4"

Valvole - valves

VSC

## CAV. 7



Collettori - manifolds

G30

Cavità - cavity

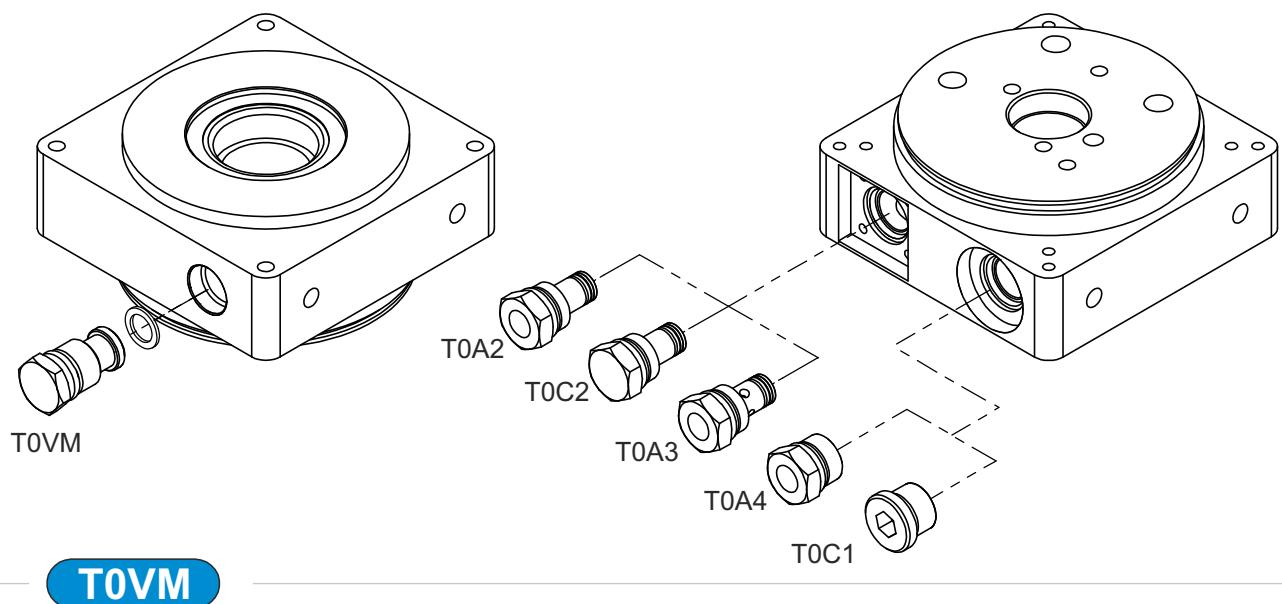
G 1/4"

Valvole - valves

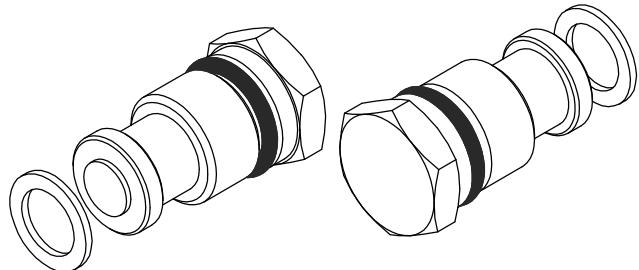
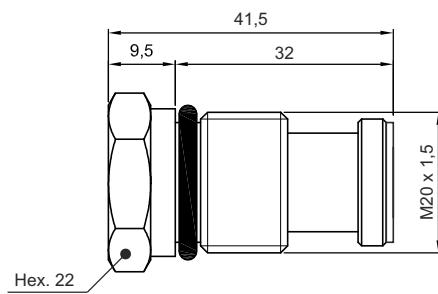
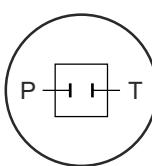
VSC



## Tappi funzionali - function plugs

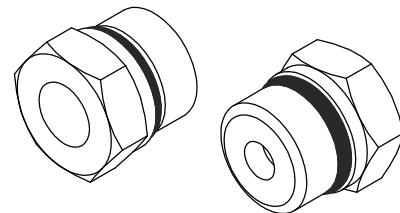
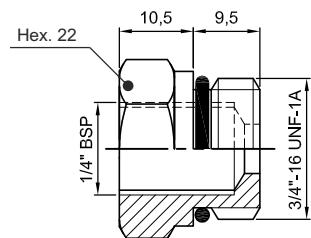
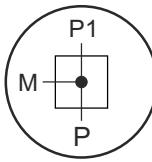


Simbolo  
symbol



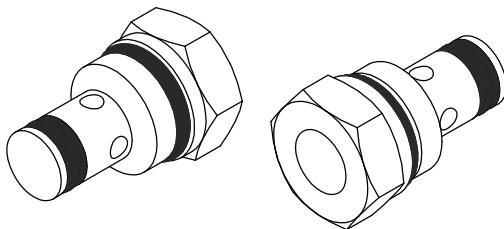
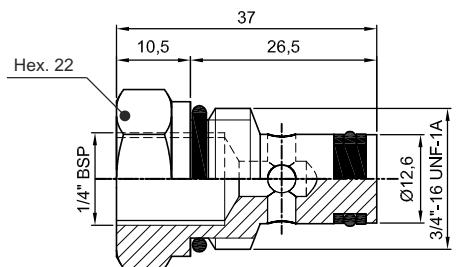
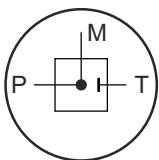
**T0A4**

Simbolo  
symbol



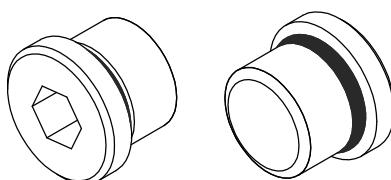
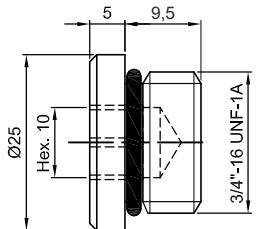
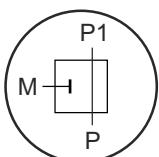
**T0A3**

Simbolo  
symbol



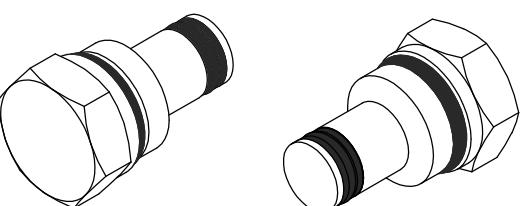
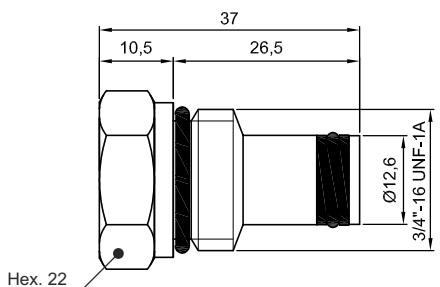
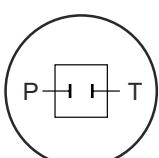
**T0C1**

Simbolo  
symbol



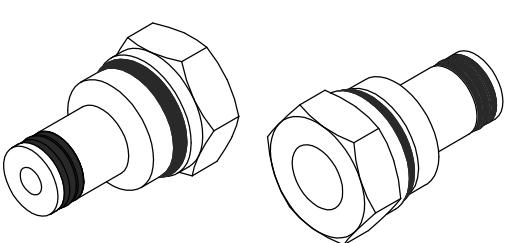
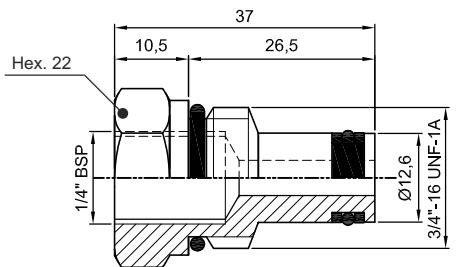
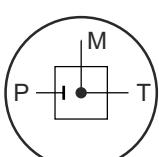
**T0C2**

Simbolo  
symbol



**T0A2**

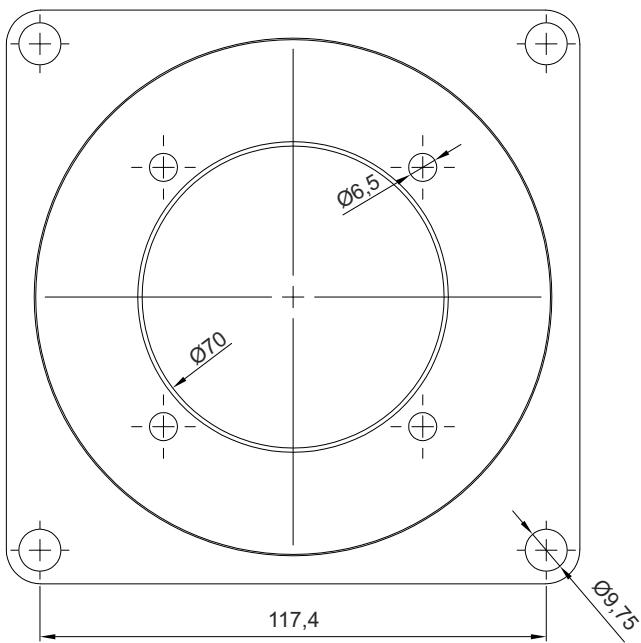
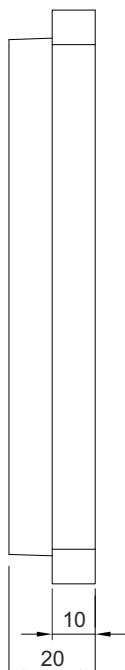
Simbolo  
symbol





## FA 71

Flangia di adattamento  
Adapter flange



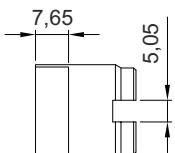
Assemblaggio lato collettore: 4 x viti DIN 6921 M8 x 25

Manifold side assembly: 4 x screws DIN 6921 M8 x 25

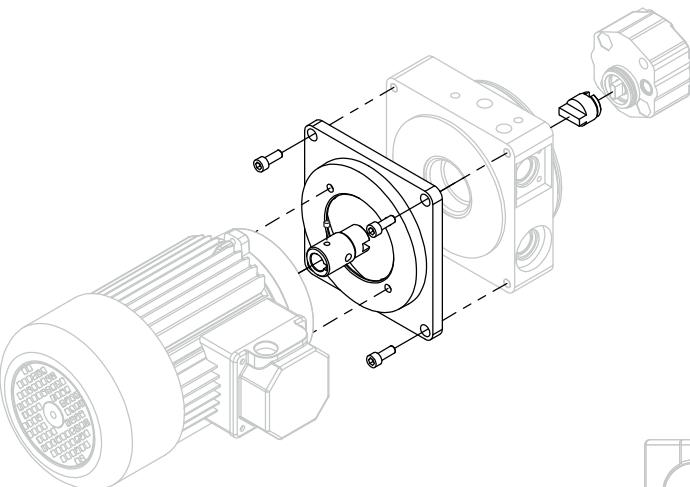
Assemblaggio lato motore: 4 x viti DIN 5931 M6 x 16

Motorside assembly: 4 x screws DIN 5931 M6 x 16

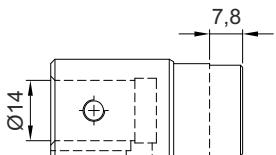
## K00



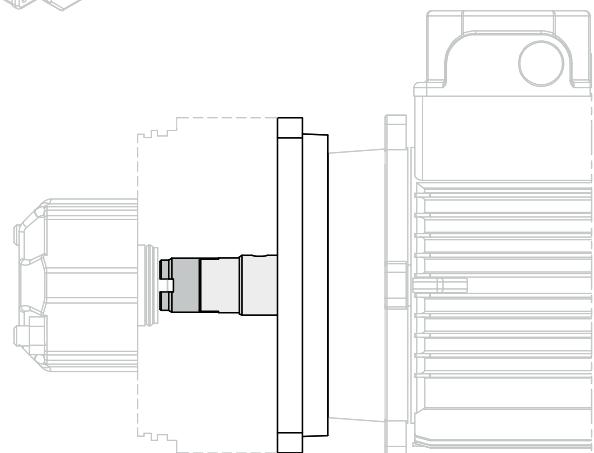
Giunto lato pompa  
pump side coupling



## K01



Giunto lato motore  
motor side coupling



## KIT1471

Codice di ordinazione per kit completo (FA71+K00+K01)  
Ordering code for complete kit (FA71+K00+K01)

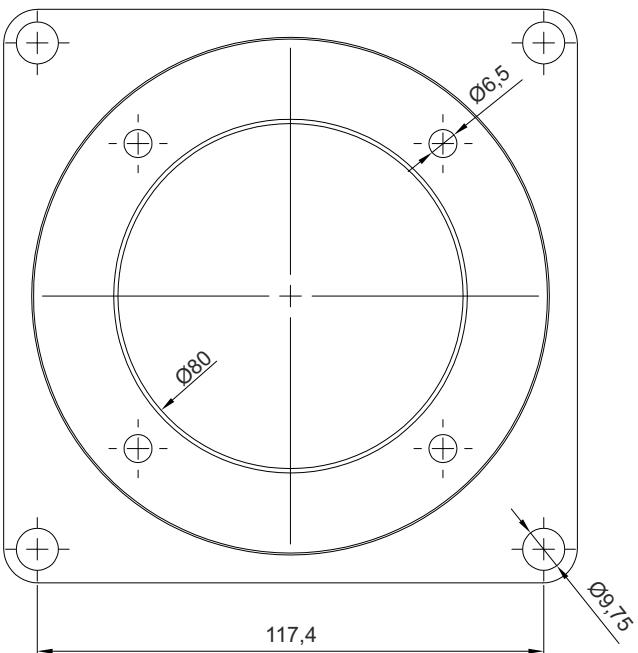
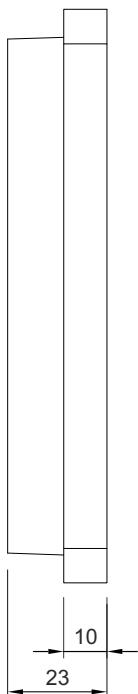


## Elementi di connessione junction elements

5

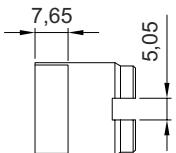
### FA 80

Flangia di adattamento  
Adapter flange



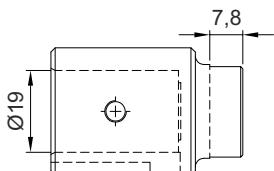
Assemblaggio lato collettore: 4 x viti DIN 6921 M8 x 25  
Manifold side assembly: 4 x screws DIN 6921 M8 x 25  
Assemblaggio lato motore: 4 x viti DIN 5931 M6 x 16  
Motorside assembly: 4 x screws DIN 5931 M6 x 16

### K00



Giunto lato pompa  
pump side coupling

### K02



Giunto lato motore  
motor side coupling

### KIT1480

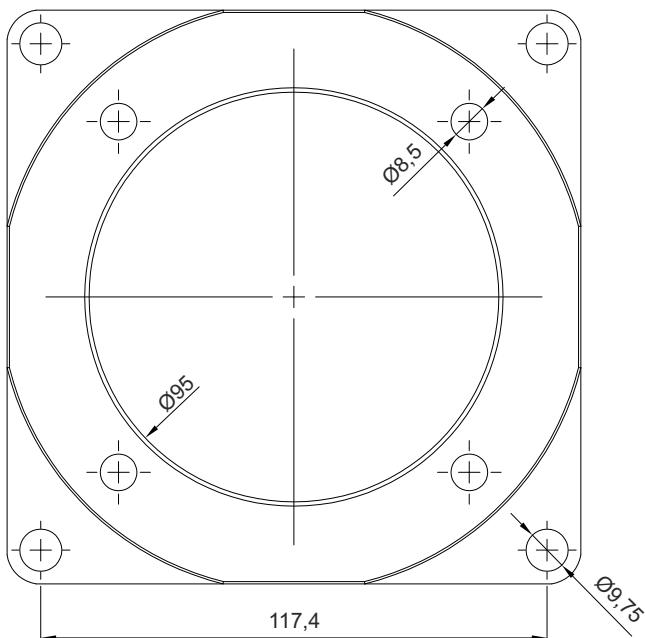
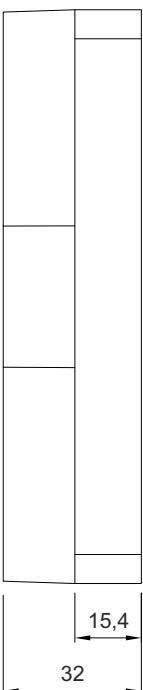
Codice di ordinazione per kit completo (FA80+K00+K02)  
Ordering code for complete kit (FA80+K00+K02)

41



## FA 90

Flangia di adattamento  
Adapter flange



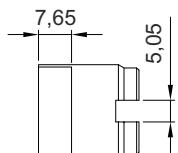
Assemblaggio lato collettore: 4 x viti DIN 6921 M8 x 30

Manifold side assembly: 4 x screws DIN 6921 M8 x 30

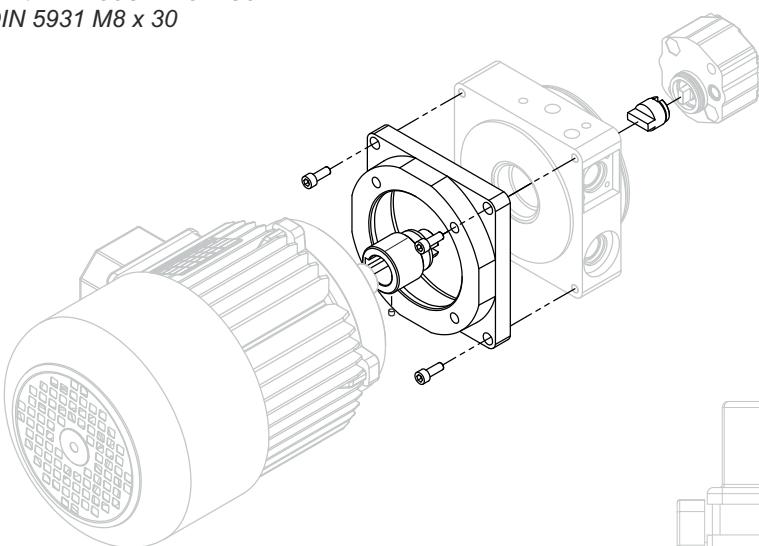
Assemblaggio lato motore: 4 x viti DIN 5931 M8 x 30

Motorside assembly: 4 x screws DIN 5931 M8 x 30

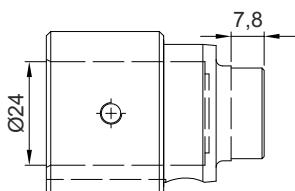
## K00



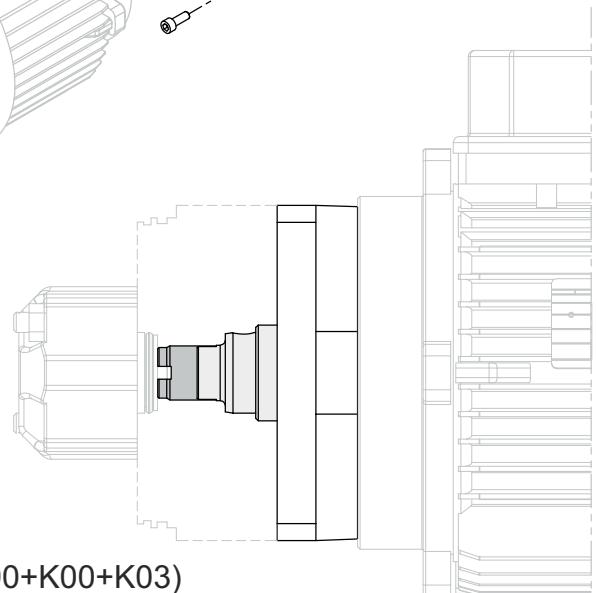
Giunto lato pompa  
pump side coupling



## K03



Giunto lato motore  
motor side coupling



## KIT1490

Codice di ordinazione per kit completo (FA90+K00+K03)  
Ordering code for complete kit (FA90+K00+K03)

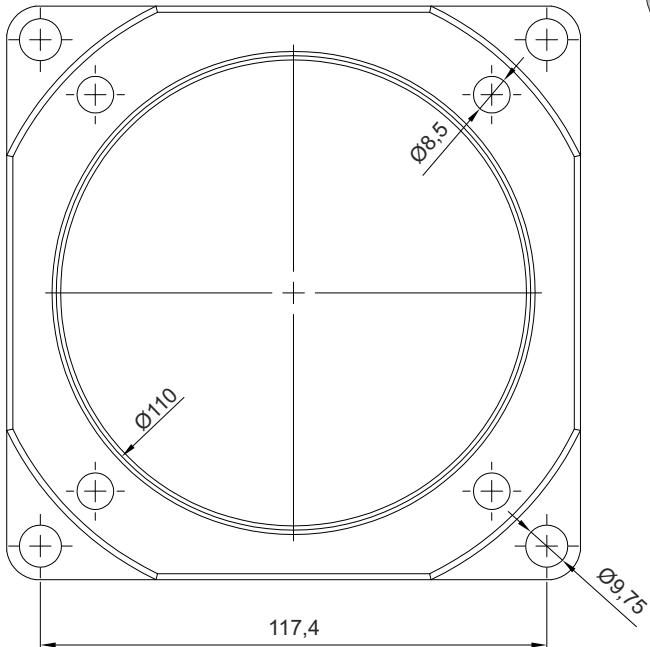
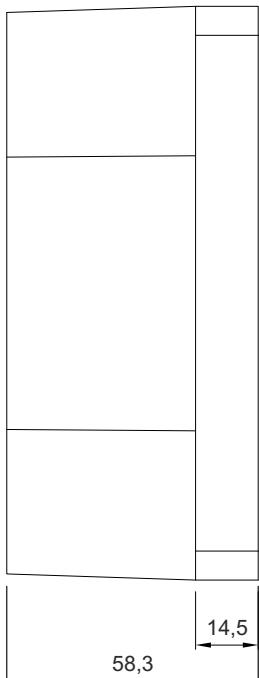


## Elementi di connessione junction elements

5

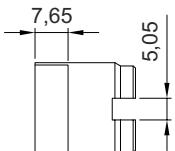
### FA 100

Flangia di adattamento  
Adapter flange



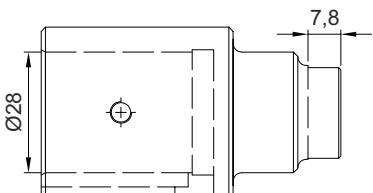
Assemblaggio lato collettore: 4 x viti DIN 6921 M8 x 30  
Manifold side assembly: 4 x screws DIN 6921 M8 x 30  
Assemblaggio lato motore: 4 x viti DIN 5931 M8 x 60  
Motorside assembly: 4 x screws DIN 5931 M8 x 60

### K00



Giunto lato pompa  
pump side coupling

### K04

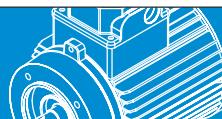


Giunto lato motore  
motor side coupling

### KIT14100

Codice di ordinazione per kit completo (FA100+K00+K04)  
Ordering code for complete kit (FA100+K00+K04)

43



## Motori CA B14 - AC B14 motors

44

### Motori S1 IP 55 50Hz - IP55 50Hz S1 motors

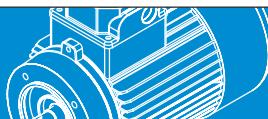
| Codice<br>code                 | Potenza<br>power | Flangia<br>flange | A   | øB  | C   | Flangia<br>flange | Potenza<br>power | Codice<br>code      |
|--------------------------------|------------------|-------------------|-----|-----|-----|-------------------|------------------|---------------------|
| <b>Monofase - single-phase</b> |                  |                   |     |     |     |                   |                  |                     |
| 2 poli - two poles             |                  |                   |     |     |     |                   |                  | 4 poli - four poles |
| MM 711-2                       | 0,37             | FA71              | 211 | 147 | 125 | FA71              | 0,25             | MM 711-4            |
| MM 712-2                       | 0,55             | FA71              | 211 | 147 | 125 | FA71              | 0,37             | MM 712-4            |
| MM 801-2                       | 0,75             | FA80              | 250 | 163 | 146 | FA80              | 0,55             | MM 801-4            |
| MM 802-2                       | 1,1              | FA80              | 250 | 163 | 146 | FA80              | 0,75             | MM 802-4            |
| MM 90S-2                       | 1,5              | FA90              | 262 | 183 | 153 | FA90              | 1,1              | MM 90S-4            |
| MM 90L-2                       | 2,2              | FA90              | 287 | 183 | 153 | FA90              | 1,5              | MM 90L-4            |
|                                | -                | -                 | 309 | 205 | 165 | FA100             | 2,2              | MM100L1-4           |
| <b>Trifase - three-phase</b>   |                  |                   |     |     |     |                   |                  |                     |
| 2 poli - two poles             |                  |                   |     |     |     |                   |                  | 4 poli - four poles |
| MT 711-2                       | 0,37             | FA71              | 211 | 147 | 115 | FA71              | 0,25             | MT 711-4            |
| MT 712-2                       | 0,55             | FA71              | 211 | 147 | 115 | FA71              | 0,37             | MT 712-4            |
| MT 801-2                       | 0,75             | FA80              | 250 | 163 | 133 | FA80              | 0,55             | MT 801-4            |
| MT 802-2                       | 1,1              | FA80              | 250 | 163 | 133 | FA80              | 0,75             | MT 802-4            |
| MT 90S-2                       | 1,5              | FA90              | 262 | 183 | 139 | FA90              | 1,1              | MT 90S-4            |
| MT 90L1-2                      | 2,2              | FA90              | 287 | 183 | 139 | FA90              | 1,5              | MT 90L1-4           |
| MT 100L1-2                     | 3                | FA100             | 309 | 205 | 152 | FA100             | 2,2              | MT 100L1-4          |
| MT 100L2-2                     | 4                | FA100             | 309 | 205 | 152 | FA100             | 3                | MT 100L2-4          |
| MT 112L1-2                     | 5,5              | FA100             | 330 | 221 | 155 | FA100             | 4                | MT 112M-4           |
|                                | -                | -                 | 330 | 221 | 155 | FA100             | 5,5              | MT 112L1-4          |

Potenza espressa in KW - power in KW

Per i kit di accoppiamento vedi capitolo precedente (6 - elementi di connessione).  
For coupling kits see previous section (6 - junction elements).

Le caratteristiche tecniche, le dimensioni e gli altri dati non sono vincolanti. Gazzera S.r.l. si riserva il diritto di cambiare o modificarle in qualsiasi momento senza preavviso e senza obblighi.

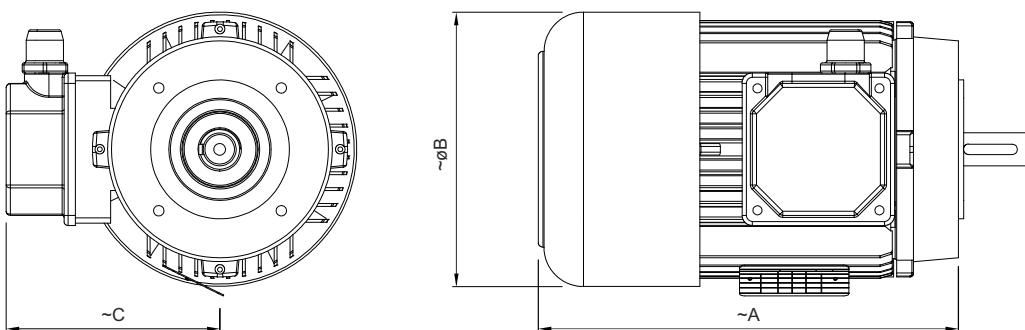
The technical characteristics, dimensions and other data are not bindings. Gazzera S.r.l. reserve the right to change them or modify them at any time and without notice.



**Motori S3 IP 55 50Hz - IP55 50Hz S3 motors**

| Codice<br>code                 | Potenza<br>power | Flangia<br>flange | A   | øB  | C   | Flangia<br>flange | Potenza<br>power | Codice<br>code      |
|--------------------------------|------------------|-------------------|-----|-----|-----|-------------------|------------------|---------------------|
| <b>Monofase - single-phase</b> |                  |                   |     |     |     |                   |                  |                     |
| 2 poli - two poles             |                  |                   |     |     |     |                   |                  | 4 poli - four poles |
| MM3711-2                       | 0,75             | FA71              | 250 | 163 | 146 | FA71              | 0,55             | MM3711-4            |
| MM3712-2                       | 1,1              | FA71              | 250 | 163 | 146 | FA80              | 0,75             | MM3801-4            |
| MM3801-2                       | 1,5              | FA80              | 262 | 183 | 153 | FA80              | 1,1              | MM3802-4            |
| MM390L-2                       | 2,2              | FA90              | 287 | 183 | 153 | FA90              | 1,5              | MM390S-4            |
|                                | -                | -                 | 309 | 205 | 165 | FA90              | 2,2              | MM390L-4            |
|                                | -                | -                 | 327 | 205 | 165 | FA100             | 3                | MM3100L1-4          |
| <b>Trifase - three-phase</b>   |                  |                   |     |     |     |                   |                  |                     |
| 2 poli - two poles             |                  |                   |     |     |     |                   |                  | 4 poli - four poles |
| MT3711-2                       | 0,37             | FA71              | 211 | 147 | 115 | FA71              | 0,25             | MT3711-4            |
| MT3712-2                       | 0,55             | FA71              | 211 | 147 | 115 | FA71              | 0,37             | MT3712-4            |
| MT3801-2                       | 0,75             | FA80              | 250 | 163 | 133 | FA80              | 0,55             | MT3801-4            |
| MT3802-2                       | 1,1              | FA80              | 250 | 163 | 133 | FA80              | 0,75             | MT3802-4            |
| MT390S-2                       | 1,5              | FA90              | 262 | 183 | 139 | FA90              | 1,1              | MT390S-4            |
| MT390L1-2                      | 2,2              | FA90              | 287 | 183 | 139 | FA90              | 1,5              | MT390L1-4           |
| MT3100L1-2                     | 3                | FA100             | 309 | 205 | 152 | FA100             | 2,2              | MT3100L1-4          |
| MT3100L2-2                     | 4                | FA100             | 309 | 205 | 152 | FA100             | 3                | MT3100L2-4          |
| MT3112L1-2                     | 5,5              | FA100             | 335 | 229 | 167 | FA100             | 4                | MT3112M-4           |
|                                | -                | -                 | 335 | 229 | 167 | FA100             | 5,5              | MT3112L1-4          |

Potenza espressa in KW - power in KW





## S1

### Servizio continuo *Continuous running duty*

Una volta partito, il motore lavora con un carico costante fino almeno a raggiungimento dell'equilibrio termico. Il motore può quindi funzionare per un tempo illimitato.

*Once started, the motor works at a constant load at least until thermal equilibrium is reached. Then that motor may be operated for an unlimited period.*

I motori con servizio S1 sono inclusi nel regolamento europeo riguardante i motori ad alta efficienza.

*Motors with duty S1 are included in high efficiency European regulation.*

## S3

### Servizio intermittente periodico *Intermittent periodic duty*

Sequenza di cicli di funzionamento uguali composti da un periodo di funzionamento a carico costante ed un periodo senza carico e senza alimentazione elettrica.

*A sequence of identical duty cycles, made up with a time of operation at costant load and a time at rest. When at rest, the motor is not fed.*

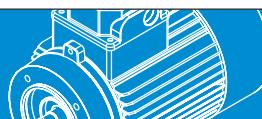
La corrente di avviamento non influenza l'innalzamento di temperatura.  
*Starting current does not significantly influence temperature rise.*

Se non diversamente specificato, la durata di un ciclo per il servizio S3 è di 10 minuti e i rapporti di intermittenza dovranno assumere un valore tra i seguenti: 15%, 25%, 40%, 60%.  
*Unless otherwise specified, the duration of a cycle for S3 duty shall be 10 minutes and the cycle duration factor shall be one of the following values: 15%, 25%, 40%, 60%.*

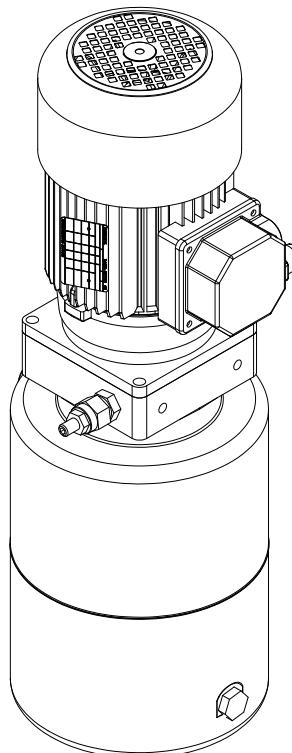
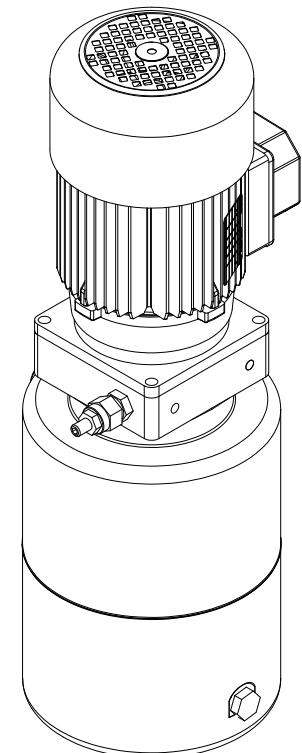
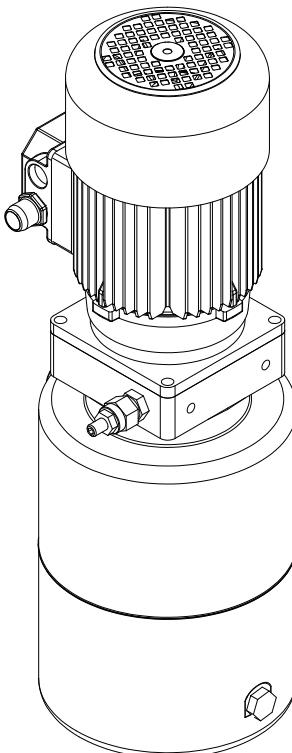
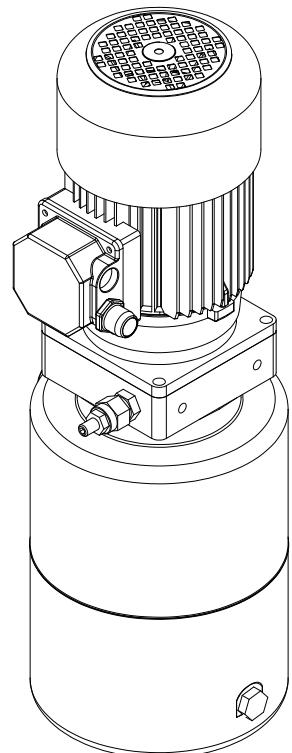
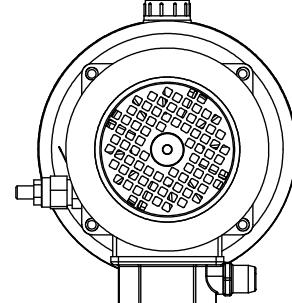
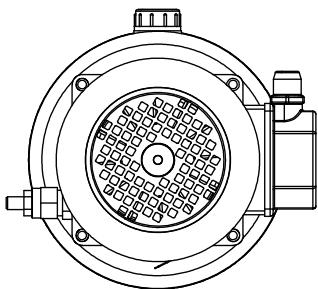
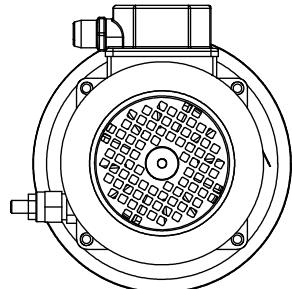
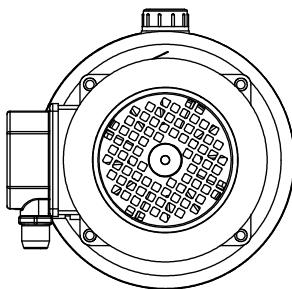
Il tipo di servizio S3 ha un tempo di riposo (cioè senza carichi esterni applicati) durante il quale il motore ha il tempo di raffreddarsi, permettendo così di sovraccaricarlo rispetto a quando lo stesso è utilizzato con un servizio S1 (e quindi ininterrottamente sotto carico). Inoltre i motori con servizio diverso da S1 non sono inclusi nel regolamento europeo riguardante i motori ad alta efficienza.

*The duty type S3 share a time to rest (no external load is applied) during which the motor lowers its temperature, thus affording to overload such motor with respect to the same motor when loaded with S1 duty cycle (then continuously loaded). Moreover motors with duty types different from S1 are not included in high efficiency European regulation.*

Per ulteriori informazioni si rimanda alla Norma IEC 60034-1.  
*Further information can be found in IEC 60034-1 standard.*



**Orientamento motore - motor positioning**



**1 Sinistra - left (std)**

morsettiera stesso lato della  
valvola di massima  
terminal box same side of the  
relief valve

**2 Anteriore - front**

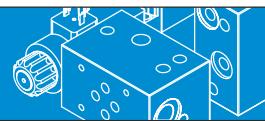
morsettiera lato blocchi  
modulari  
terminal box on modular blocks  
side

**3 Destra - right**

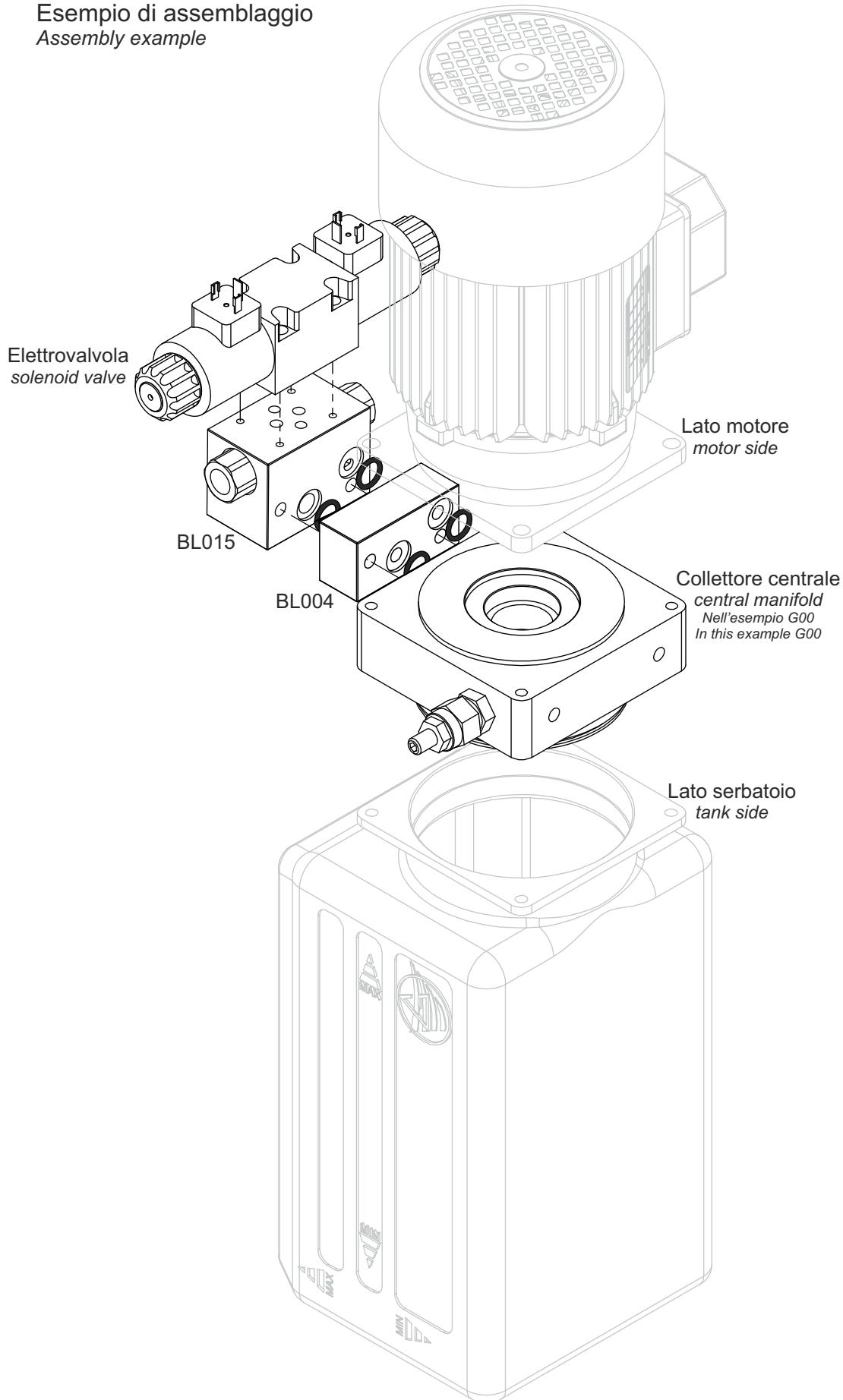
morsettiera lato opposto della  
valvola di massima  
terminal box on opposite side of  
the relief valve

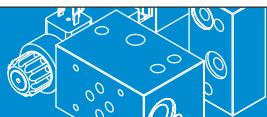
**4 Posteriore - rear**

morsettiera lato opposto  
blocchi modulari  
terminal box on opposite side of  
the modular blocks

**Blocchi valvole - valve blocks**

Esempio di assemblaggio  
Assembly example





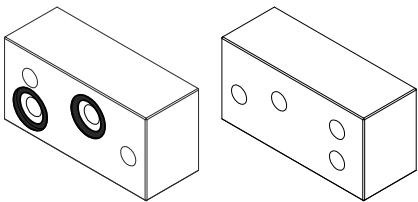
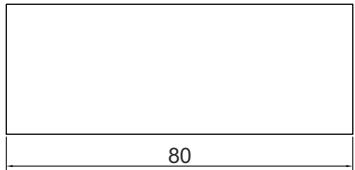
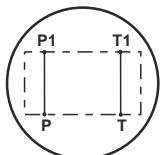
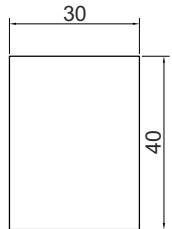
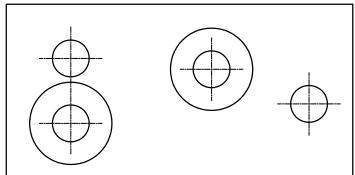
## Elementi modulari modular elements

7

BL004

Distanziale  
Spacer element

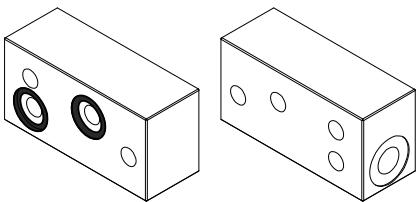
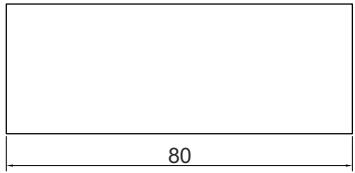
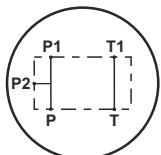
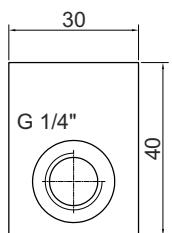
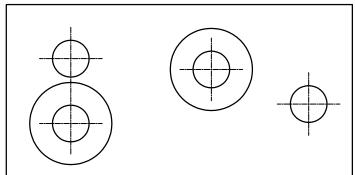
Simbolo  
symbol



BL004-1

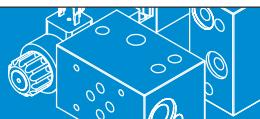
Distanziale con connessione aggiuntiva 1/4" BSP  
Spacer element with additional 1/4" BSP port

Simbolo  
symbol



NB: Versione larghezza 40 disponibile con il codice  
BL004-2 (indispensabile per blocchi in presenza di  
motore taglia 112).

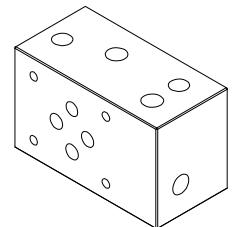
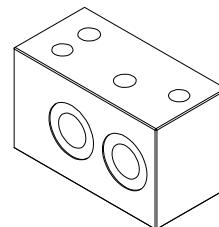
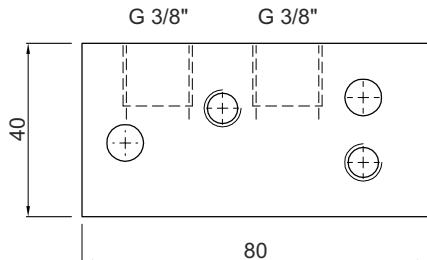
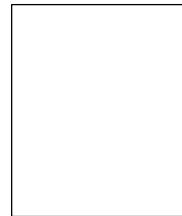
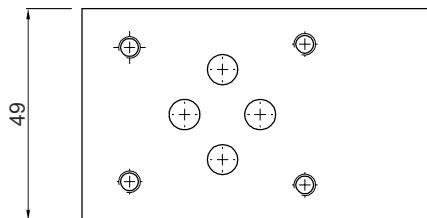
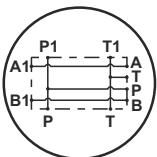
Note: version width 40 available with code BL004-2  
(essential for manifolds in presence of motors size 112).



## BL008

Blocco modulare con porte posteriori 3/8" BSP  
Modular manifold with rear 3/8" BSP ports

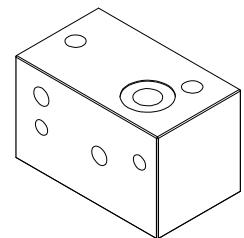
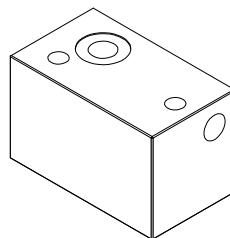
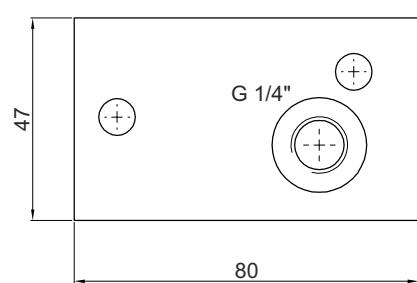
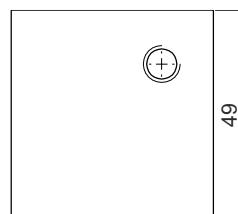
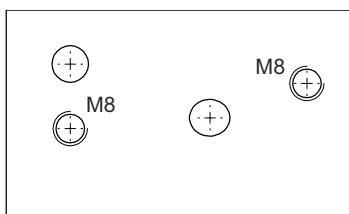
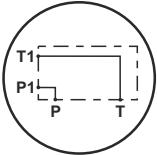
Simbolo  
symbol

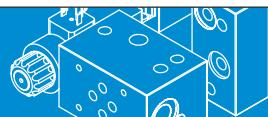


## BL009

Blocco per rotazione 90° con connessione aggiuntiva 1/4" BSP  
90° rotation block with additional 1/4" BSP port

Simbolo  
symbol





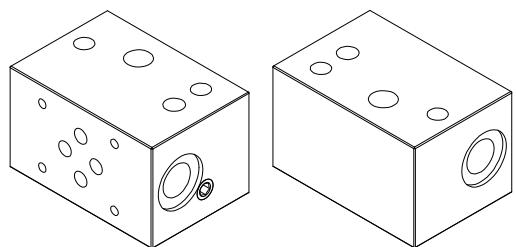
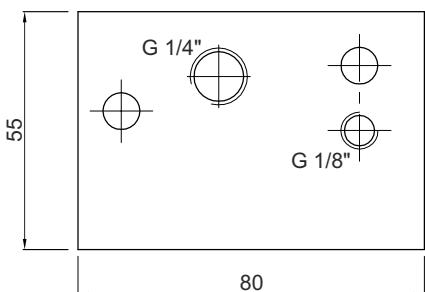
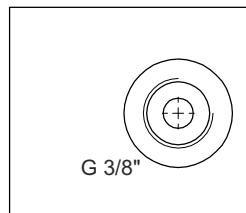
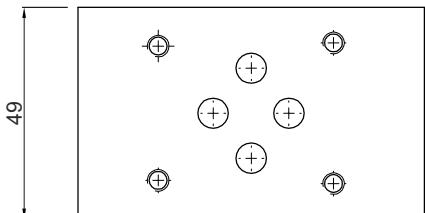
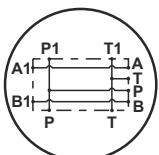
## Elementi modulari modular elements

7

### BL010

Blocco modulare con porte laterali 3/8" BSP  
Modular manifold with lateral 3/8" BSP ports

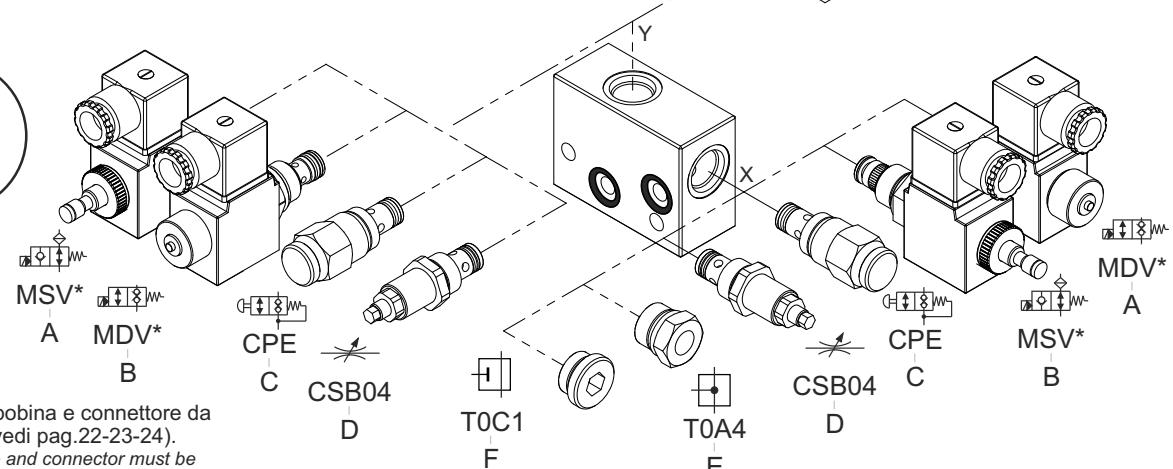
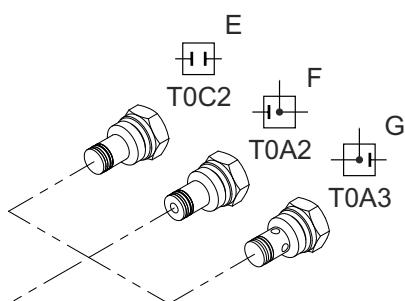
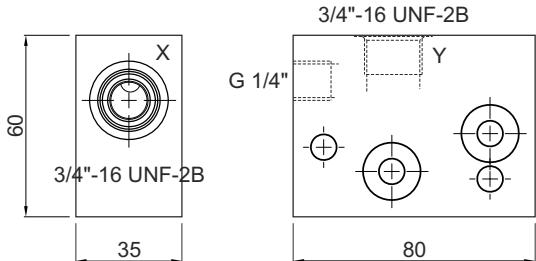
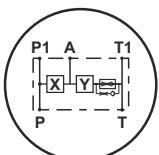
Simbolo  
symbol



### BL011-X-Y

Blocco per circuito semplice effetto aggiuntivo  
Manifold for additional single acting circuit

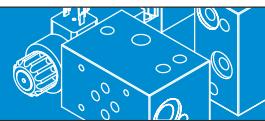
Simbolo  
symbol



\*NB: Tipo, tensione bobina e connettore da specificare a parte (vedi pag.22-23-24).

\*Note: type, coil voltage and connector must be specified separately (see pages 22-23-24).

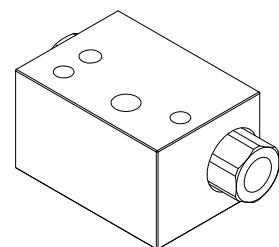
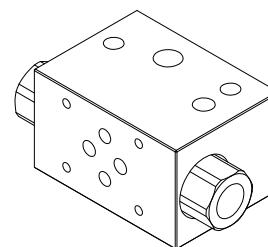
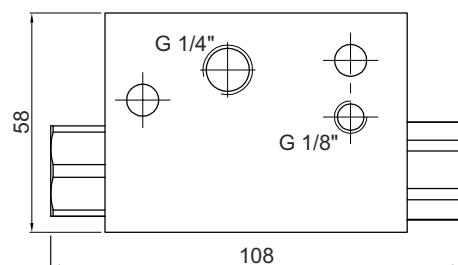
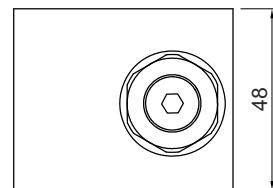
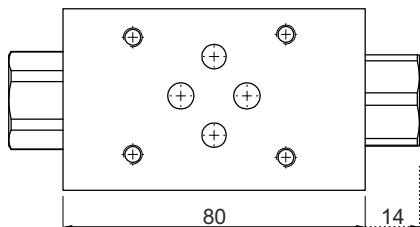
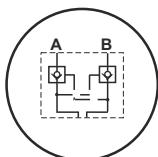
51



## BL015

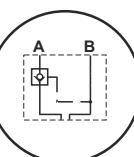
Blocco con valvola di ritegno pilotata  
Manifold with pilot check valve

Simbolo  
symbol



## BL016

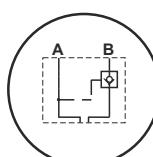
Blocco con valvola di ritegno pilotata su A  
Manifold with pilot check valve on A



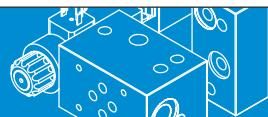
Simbolo  
symbol

## BL017

Blocco con valvola di ritegno pilotata su B  
Manifold with pilot check valve on B



Simbolo  
symbol



## Elementi modulari modular elements

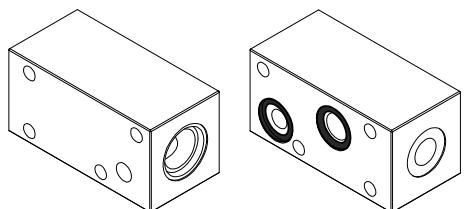
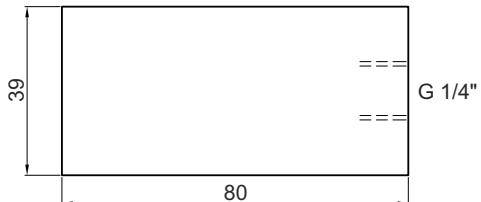
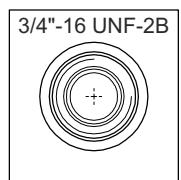
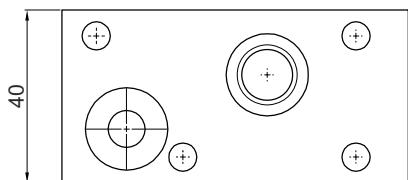
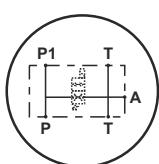
7

### BL021

Blocco per valvole MSV e MDV  
Manifold for MSV and MDV valves

53

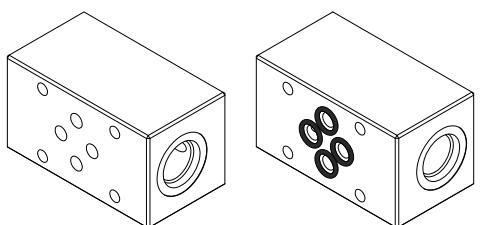
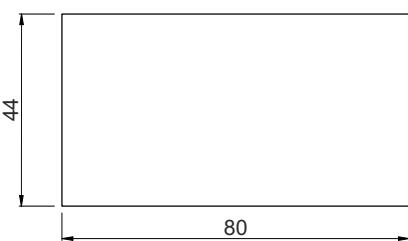
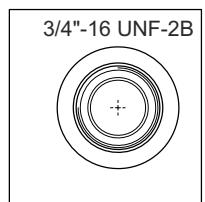
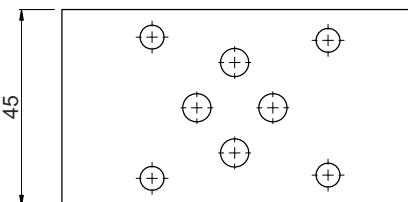
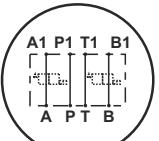
Simbolo  
symbol

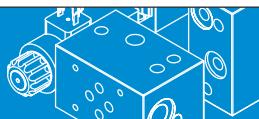


### BL022

Blocco modulare per valvole MSV e MDV  
Modular manifold for MSV and MDV valves

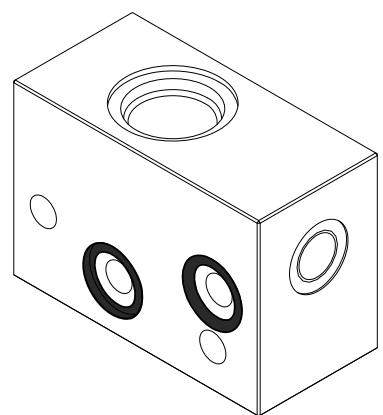
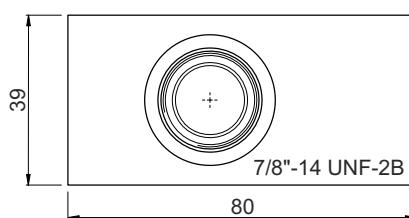
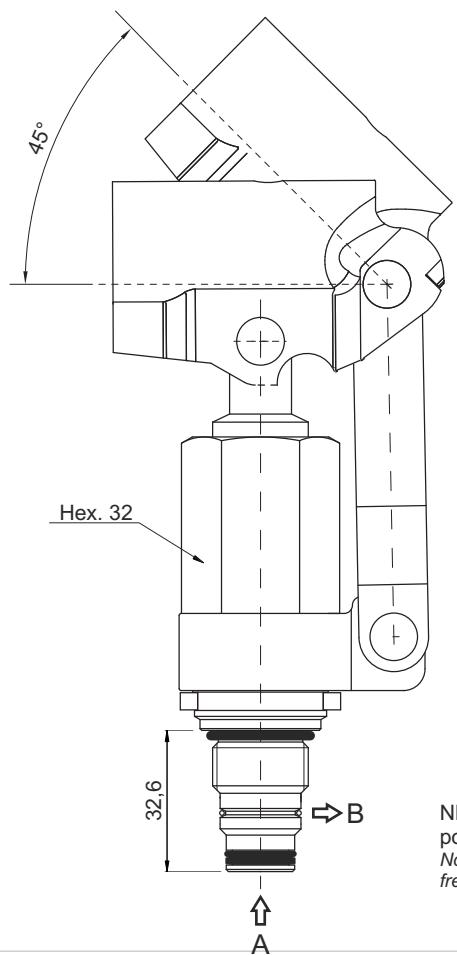
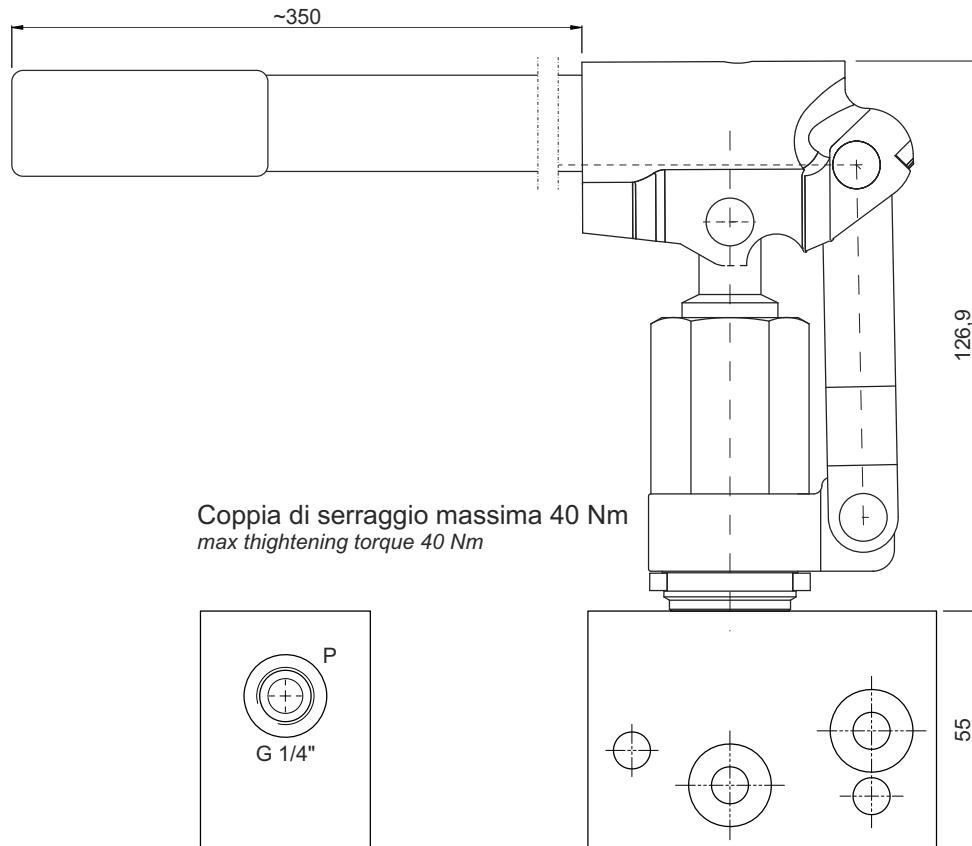
Simbolo  
symbol



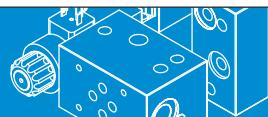


BL023

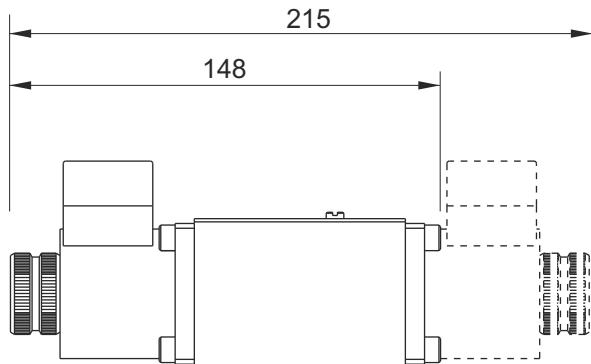
54

Blocco pompa manuale  
Hand pump modular manifold

NB: Per facilitare l'aspirazione della pompa, lasciare libero il percorso P  
Note: to make suction easier, leave P path free



**Elettrovalvole - solenoid valves**



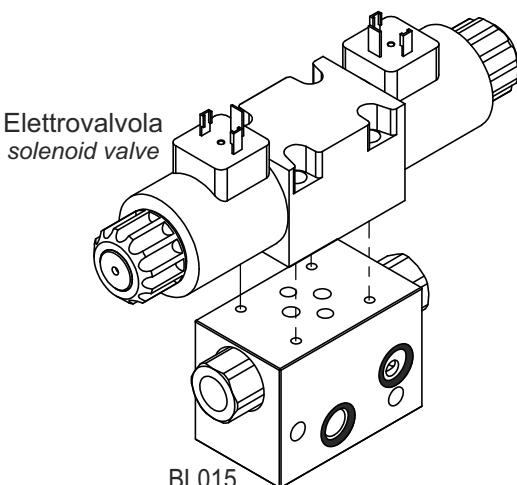
| Schema idraulico - hydraulic scheme |                  |      |                  |
|-------------------------------------|------------------|------|------------------|
| Code                                | Schema<br>scheme | Code | Schema<br>scheme |
| DM01                                |                  | DD01 |                  |
| DM02                                |                  | DD02 |                  |
| DM03                                |                  | DD03 |                  |
| DM04                                |                  | DD04 |                  |
|                                     |                  | DD05 |                  |

Tensioni standard per elettrovalvole: 12DC, 24DC, 48DC, 110/50AC, 230/50AC.

Altre tensioni su richiesta.

Standard voltages for solenoid valves: 12DC, 24DC, 48DC, 110/50AC, 230/50AC.

Others voltages on request.



**Codice ordinazione - ordering code**

|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
| D | M | 0 | 1 | 0 | 0 | 2 | 4 | D | C |
| 1 | 2 |   |   |   |   |   |   | 3 |   |

BL015

1 Tipo di valvola - valve type

DM = Elettrovalvola singola - single solenoid valve

DD = Elettrovalvola doppia - double solenoid valve

2 Schema idraulico - hydraulic scheme

Vedi tabella sopra - see table above

3 Tensione bobina - coil voltage

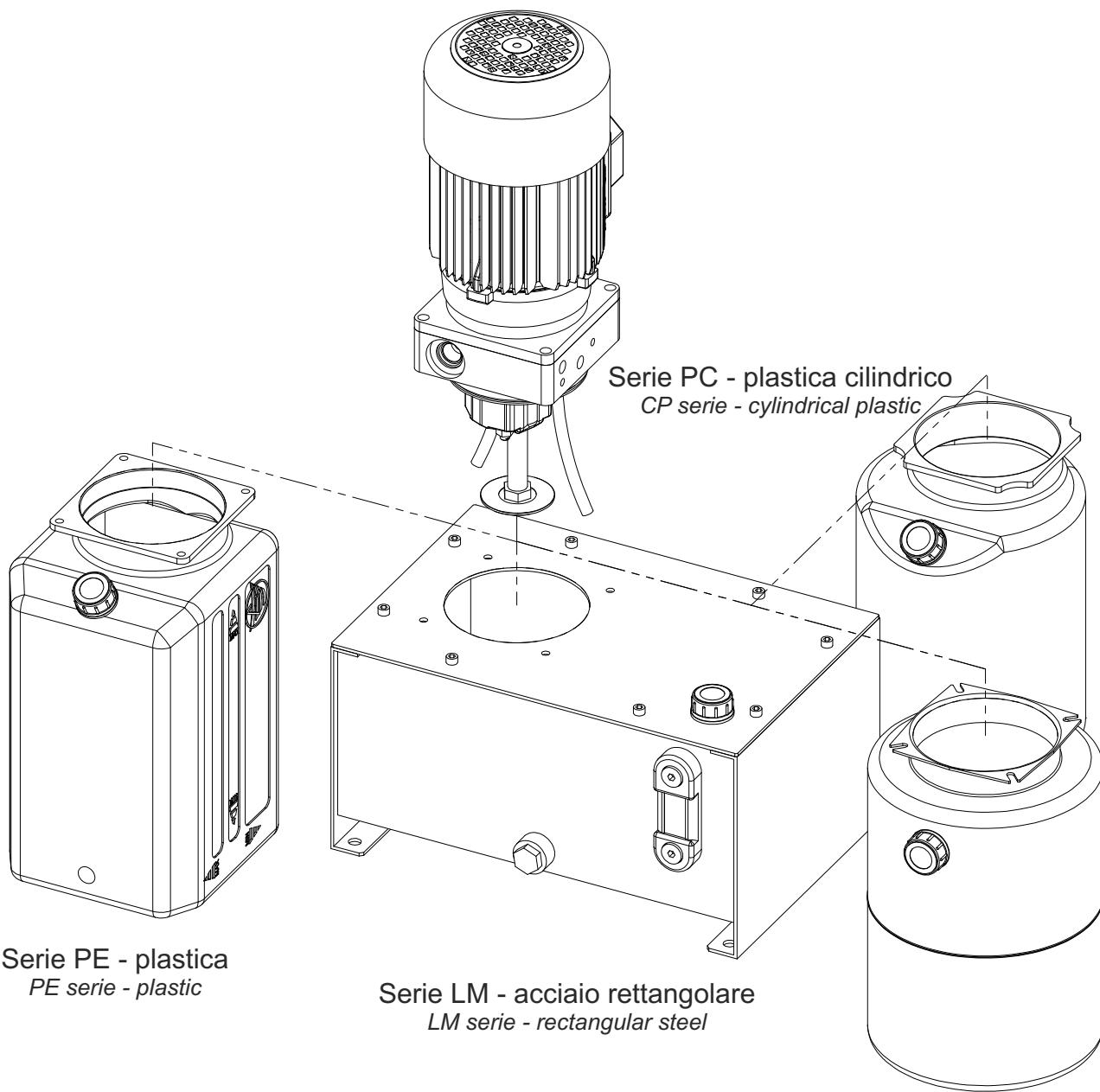
0012DC, 0024DC, 0048DC = corrente continua - DC current

0110AC, 0230AC = corrente alternata - AC current



## Modello - type

56



## Codice ordinazione - ordering code

|   |   |   |   |   |
|---|---|---|---|---|
| P | E | 1 | 2 | V |
| 1 | 2 | 3 |   |   |

| 1 Serie - series | 2 Volume serbatoio - tank volume | 3 Tappo di carico - filler cap                    |
|------------------|----------------------------------|---|
| PE               | PE                               | O = Orizzontale - horizontal                      |
| LM               | 05 = 5,0 lt                      | V = Verticale - vertical                          |
| CS               | 08 = 8,0 lt                      | TF = Stagno (solo LM07)<br>watertight (LM07 only) |
| PC               | 12 = 12,0 lt                     |   |
|                  | 07 = 7,0 lt                      |   |
|                  | 15 = 15,0 lt                     |   |
|                  | 20 = 20,0 lt                     |   |
|                  | 30 = 30,0 lt                     |   |
|                  | 01 = 1,5 lt                      |   |
|                  | 02 = 2,5 lt                      |   |
|                  | 05 = 5,0 lt                      |   |
|                  | 08 = 8,0 lt                      |   |
|                  | 10 = 10,0 lt                     |   |
|                  | 12 = 12,0 lt                     |   |
|                  | 05 = 5,0 lt                      |   |
|                  | 07 = 7,0 lt                      |   |
|                  | 09 = 9,0 lt                      |   |
|                  | 11 = 11,0 lt                     |   |

Per serie LM omettere punto 3 - for LM series omit point 3

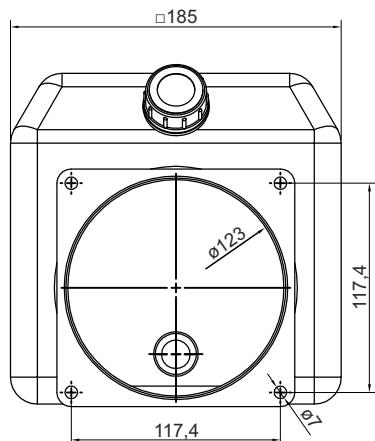
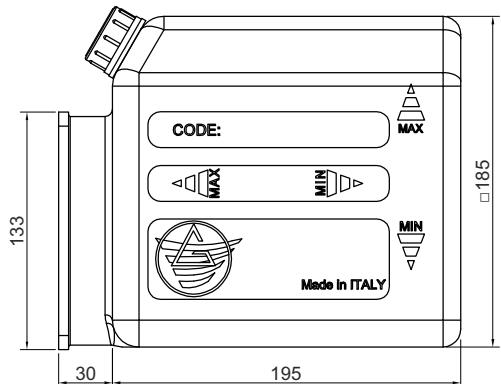


## Serbatoi plastica plastic oil tanks

8

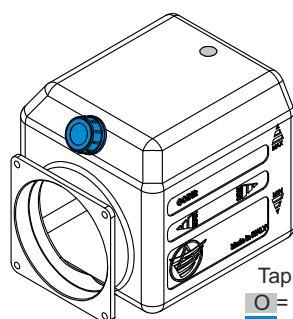
### PE05

Serbatoio in plastica capacità 5 litri  
Plastic tank 5 liters capacity



| Caratteristiche principali<br>main features   |             |
|---|-------------|
| Temperatura di impiego<br>working temperature | -10°C +70°C |
| Foro std<br>std hole                          | G1/2"       |

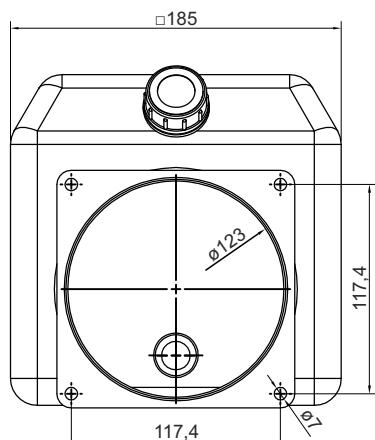
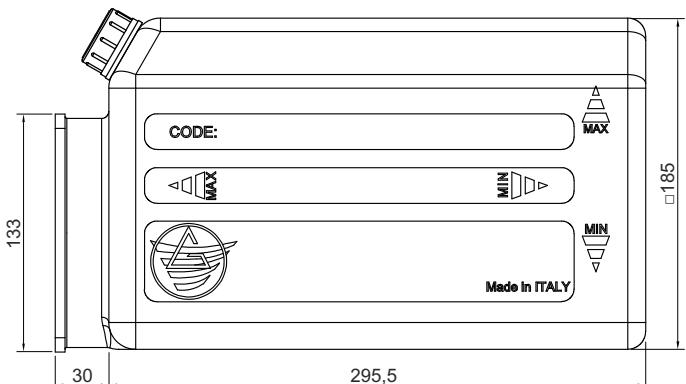
Predisposizione tappo di carico per montaggio orizzontale (O), o verticale (V)  
predisposition for filler cap position for horizontal (O), or vertical (V) mounting



Tappo di carico - filler cap  
O = Orizzontale - horizontal  
V = Verticale - vertical

### PE08

Serbatoio in plastica capacità 8 litri  
Plastic tank 8 liters capacity



| Caratteristiche principali<br>main features   |             |
|---|-------------|
| Temperatura di impiego<br>working temperature | -10°C +70°C |
| Foro std<br>std hole                          | G1/2"       |

Predisposizione tappo di carico per montaggio orizzontale (O), o verticale (V)  
predisposition for filler cap position for horizontal (O), or vertical (V) mounting



Tappo di carico - filler cap  
O = Orizzontale - horizontal  
V = Verticale - vertical

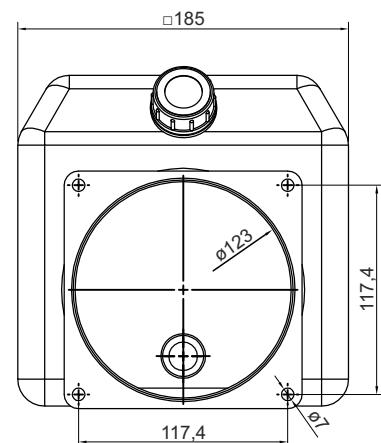
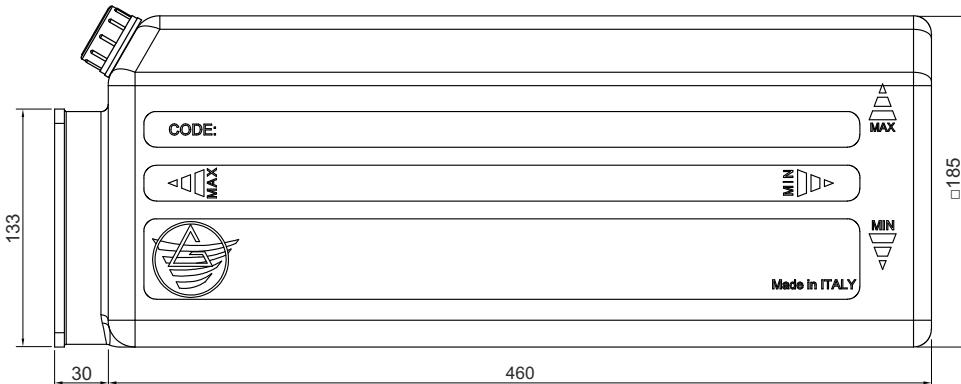
57



## PE12

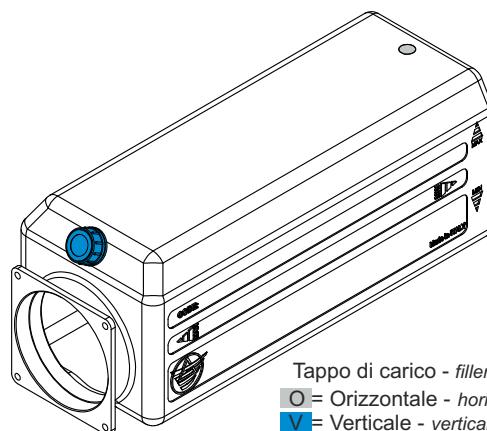
58

Serbatoio in plastica capacità 12 litri  
Plastic tank 12 liters capacity

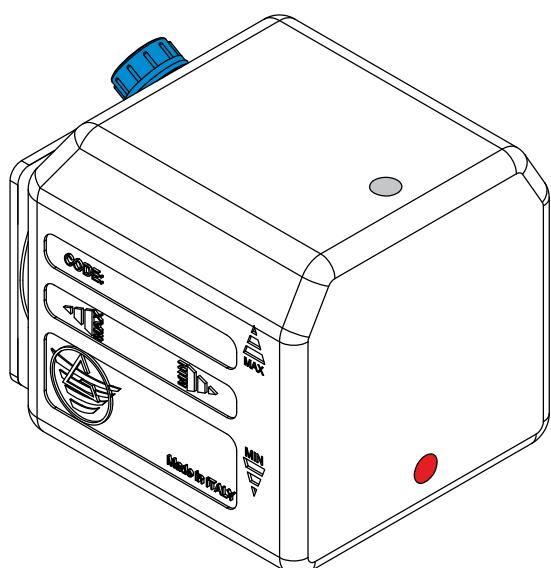


| Caratteristiche principali<br>main features   |             |
|---|-------------|
| Temperatura di impiego<br>working temperature | -10°C +70°C |
| Foro std<br>std hole                          | G1/2"       |

Predisposizione tappo di carico per montaggio orizzontale (O), o verticale (V)  
predisposition for filler cap position for horizontal (O), or vertical (V) mounting



Tappo di carico - filler cap  
O = Orizzontale - horizontal  
V = Verticale - vertical



### NOTA - NOTE

Versione verticale - vertical version:

- Tappo di carico - filler cap
- Chiuso (apribile a richiesta) - closed (opened on request)

Versione orizzontale - horizontal version:

- Chiuso da tappo cieco G1/2" - closed by G1/2" plug
- Tappo di carico - filler cap

A richiesta, è inoltre possibile avere un ulteriore foro di scarico sul retro del serbatoio ■. In questo caso la cavità verrà tappata da tappo cieco G1/2". Tutte le variazioni rispetto allo standard sono da specificare in fase d'ordine.  
On request, is possible to have an additional unloading hole on the rear of the tank ■.  
In this case the cavity will be capped by G1/2" plug.  
All changes compared to the standard, must be specified during the order phase.

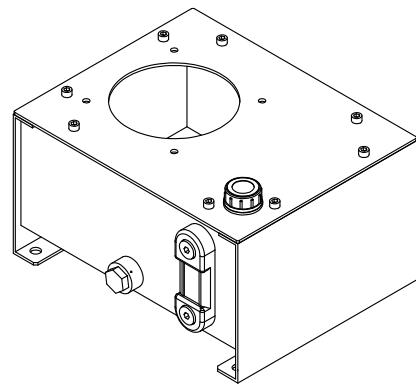
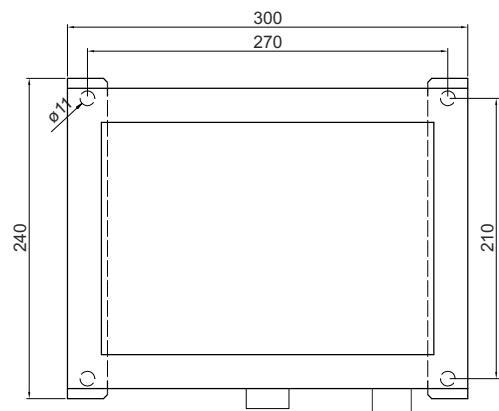
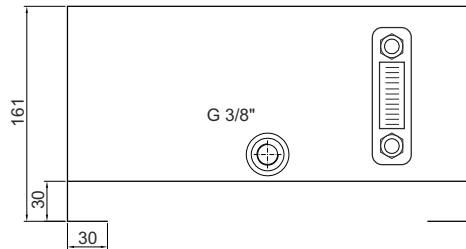


## Serbatoi acciaio steel oil tanks

8

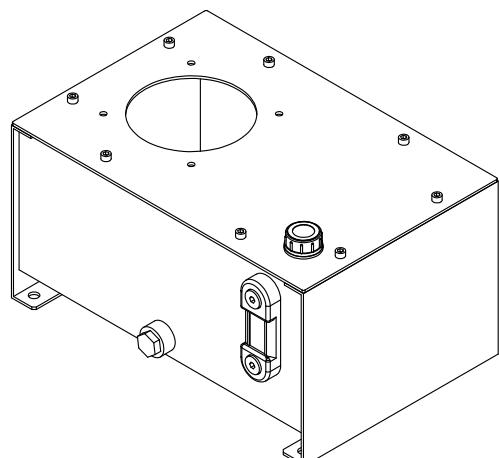
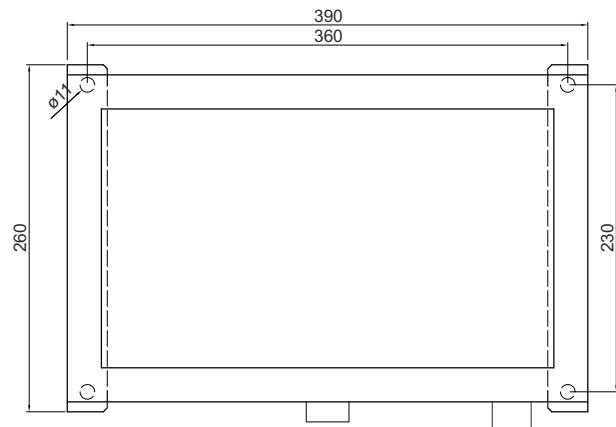
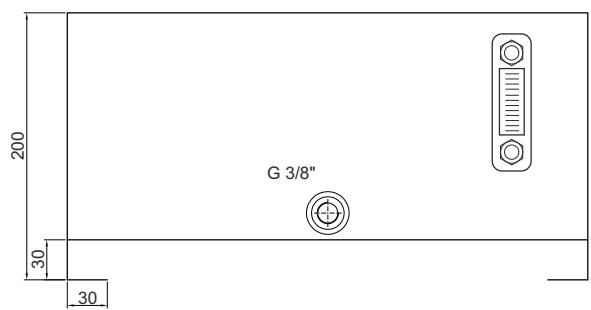
LM07

Serbatoio rettangolare in acciaio capacità 7 litri  
*7 liters capacity rectangular steel tank*



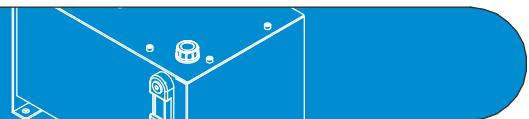
LM15

Serbatoio rettangolare in acciaio capacità 15 litri  
*15 liters capacity rectangular steel tank*



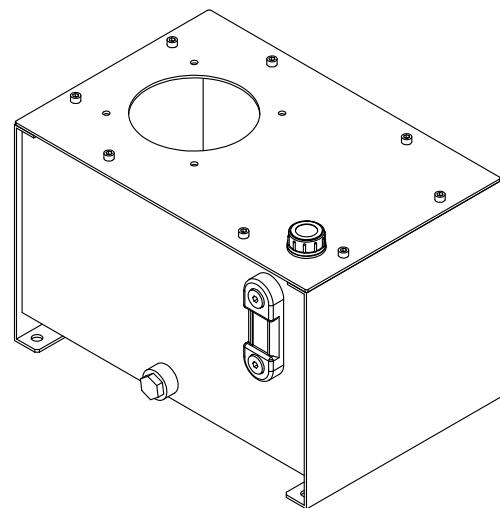
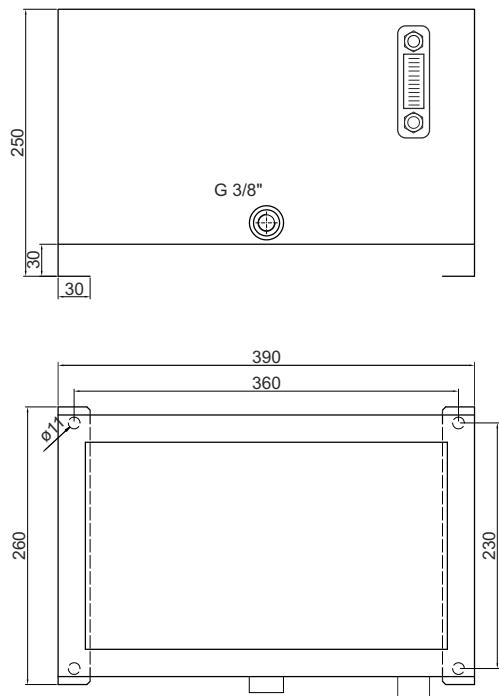
59

## Serbatoi acciaio steel oil tanks



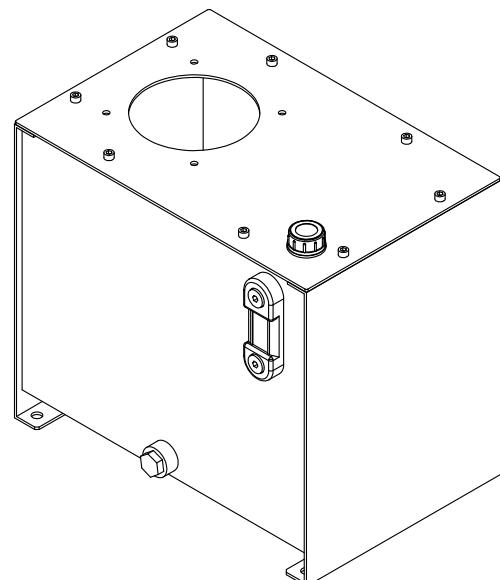
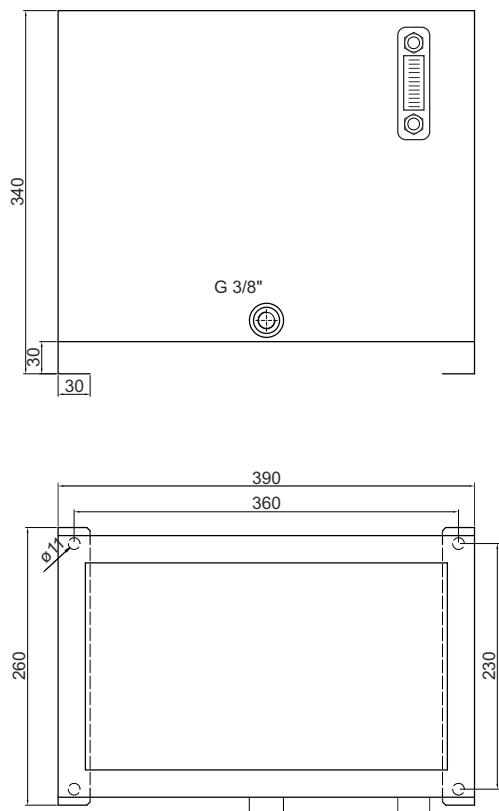
### LM20

Serbatoio rettangolare in acciaio capacità 20 litri  
20 liters capacity rectangular steel tank



### LM30

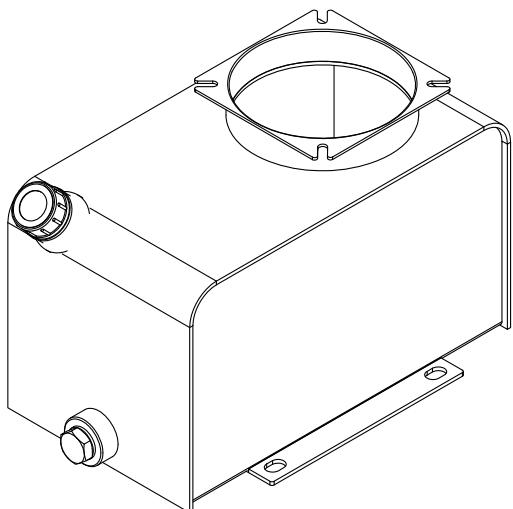
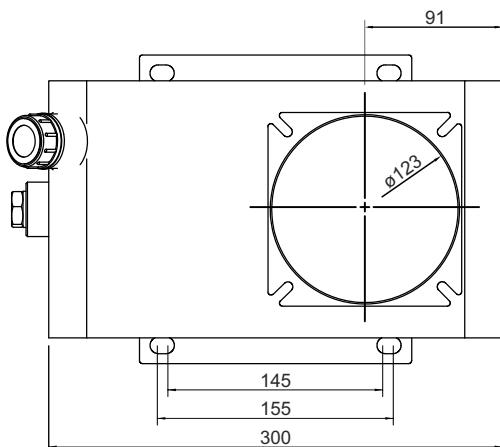
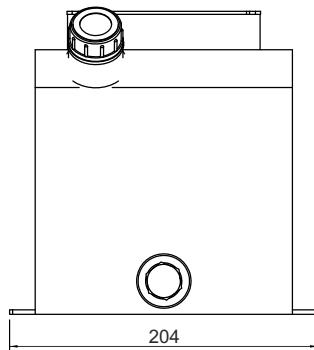
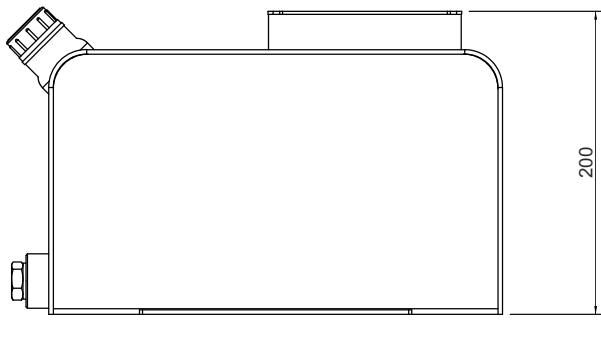
Serbatoio rettangolare in acciaio capacità 30 litri  
30 liters capacity rectangular steel tank



**LM07TF**

Serbatoio stagno in acciaio capacità 7 litri  
7 liters capacity watertight steel tank

**61**



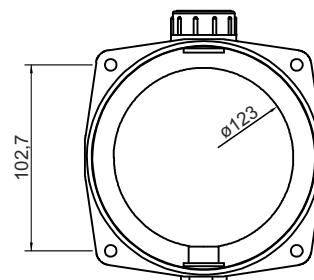
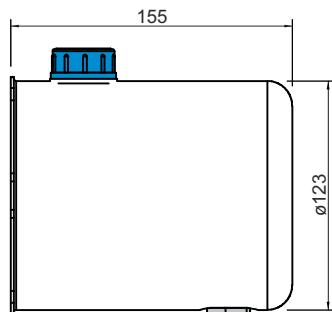
| Caratteristiche principali<br>main features   |             |
|---|-------------|
| Temperatura di impiego<br>working temperature | -10°C +80°C |
| Foro std<br>std hole                          | G1/2"       |

# Serbatoi acciaio steel oil tanks

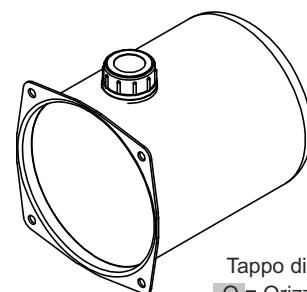


## CS01

Serbatoio cilindrico in acciaio capacità 1,5 litri  
1,5 liters capacity cylindrical steel tank



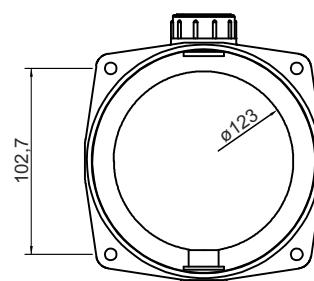
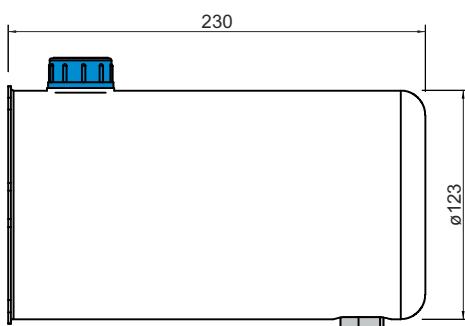
| Caratteristiche principali<br>main features   |             |
|---|-------------|
| Temperatura di impiego<br>working temperature | -10°C +80°C |
| Foro std<br>std hole                          | G1/2"       |



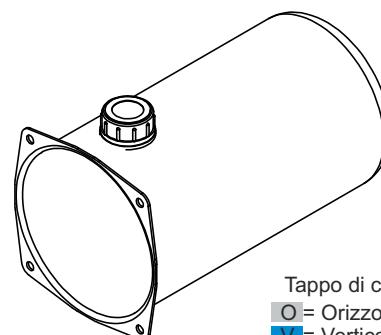
Tappo di carico - filler cap  
O = Orizzontale - horizontal  
V = Verticale - vertical

## CS02

Serbatoio cilindrico in acciaio capacità 2,5 litri  
2,5 liters capacity cylindrical steel tank



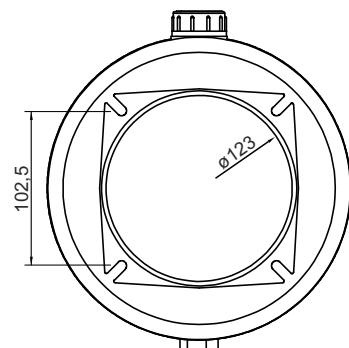
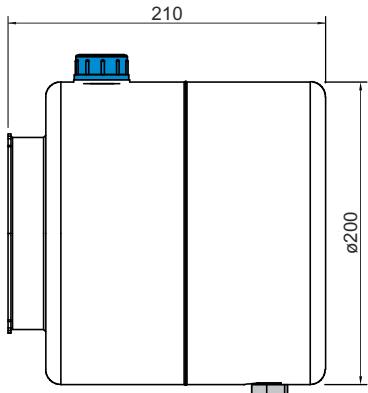
| Caratteristiche principali<br>main features   |             |
|---|-------------|
| Temperatura di impiego<br>working temperature | -10°C +80°C |
| Foro std<br>std hole                          | G1/2"       |



Tappo di carico - filler cap  
O = Orizzontale - horizontal  
V = Verticale - vertical

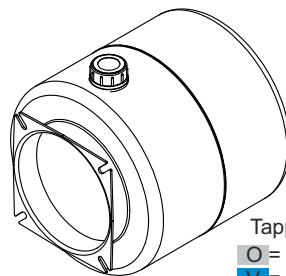
CS05

Serbatoio cilindrico in acciaio capacità 5 litri  
5 liters capacity cylindrical steel tank



Caratteristiche principali  
main features

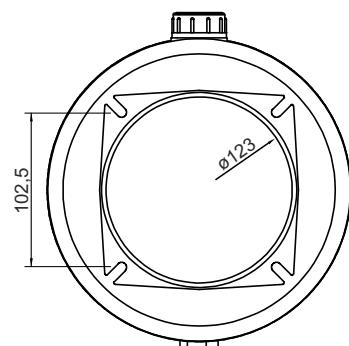
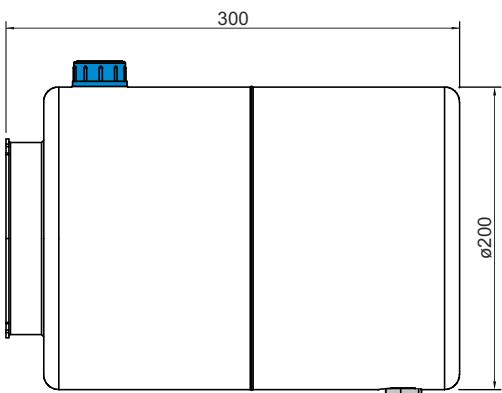
|   |             |
|---|-------------|
| Temperatura di impiego<br>working temperature | -10°C +80°C |
| Foro std<br>std hole                          | G1/2"       |



Tappo di carico - filler cap  
O = Orizzontale - horizontal  
V = Verticale - vertical

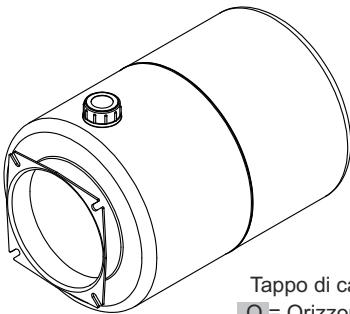
CS08

Serbatoio cilindrico in acciaio capacità 8 litri  
8 liters capacity cylindrical steel tank



Caratteristiche principali  
main features

|   |             |
|---|-------------|
| Temperatura di impiego<br>working temperature | -10°C +80°C |
| Foro std<br>std hole                          | G1/2"       |



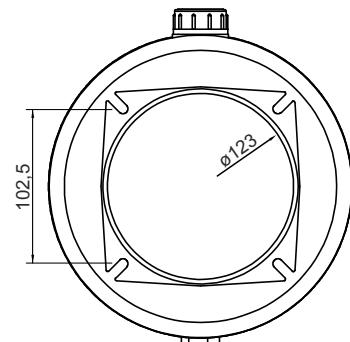
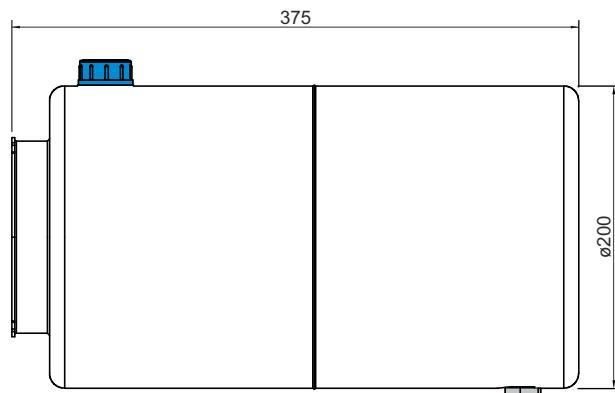
Tappo di carico - filler cap  
O = Orizzontale - horizontal  
V = Verticale - vertical

# Serbatoi acciaio steel oil tanks

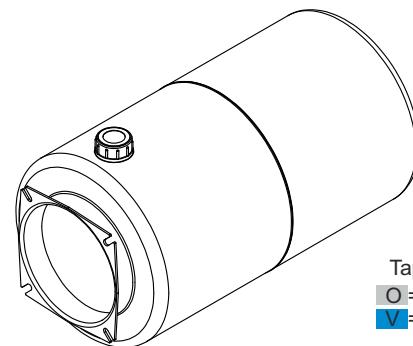


## CS10

Serbatoio cilindrico in acciaio capacità 10 litri  
10 liters capacity cylindrical steel tank



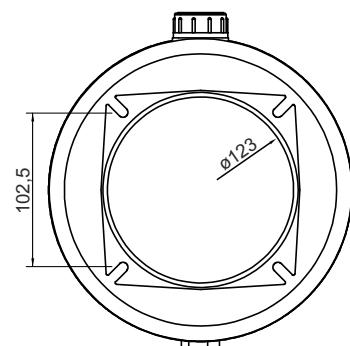
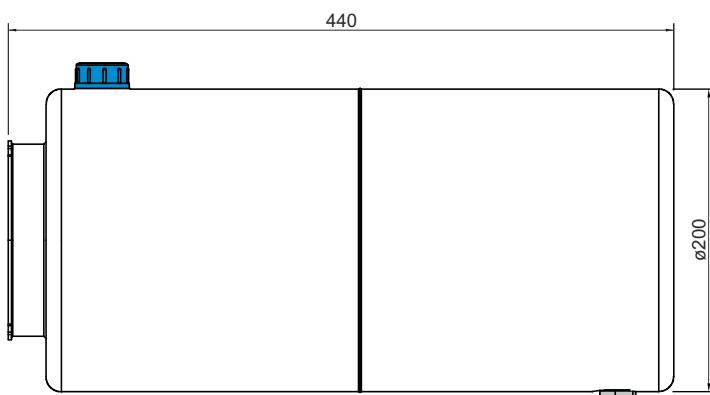
| Caratteristiche principali<br>main features   |             |
|---|-------------|
| Temperatura di impiego<br>working temperature | -10°C +80°C |
| Foro std<br>std hole                          | G1/2"       |



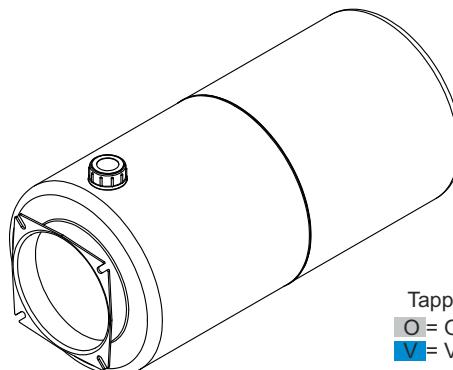
Tappo di carico - filler cap  
O = Orizzontale - horizontal  
V = Verticale - vertical

## CS12

Serbatoio cilindrico in acciaio capacità 12 litri  
12 liters capacity cylindrical steel tank



| Caratteristiche principali<br>main features   |             |
|---|-------------|
| Temperatura di impiego<br>working temperature | -10°C +80°C |
| Foro std<br>std hole                          | G1/2"       |



Tappo di carico - filler cap  
O = Orizzontale - horizontal  
V = Verticale - vertical

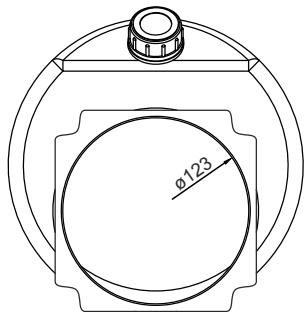
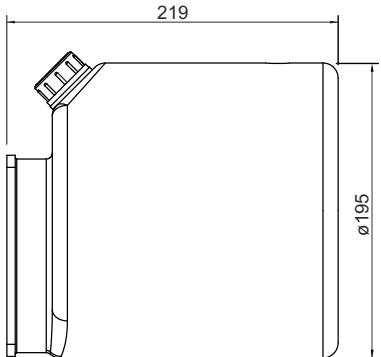


## Serbatoi plastica plastic oil tanks

8

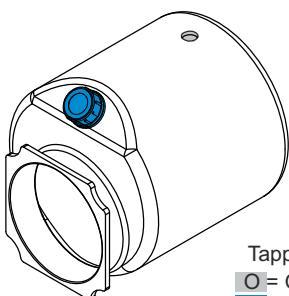
### PC05

Serbatoio cilindrico in plastica capacità 5 litri  
5 liters capacity cylindrical plastic tank



| Caratteristiche principali<br>main features   |             |
|---|-------------|
| Temperatura di impiego<br>working temperature | -15°C +70°C |
| Foro std<br>std hole                          | G1/2"       |

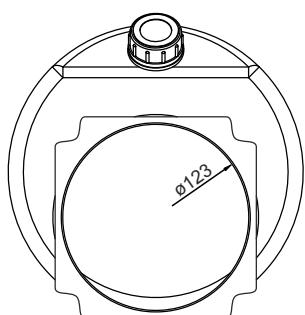
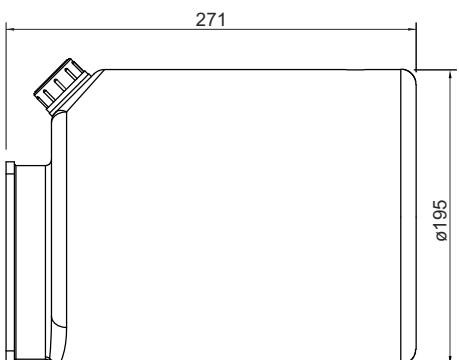
Predisposizione tappo di carico per montaggio orizzontale (O), o verticale (V)  
predisposition for filler cap position for horizontal (O), or vertical (V) mounting



Tappo di carico - filler cap  
O = Orizzontale - horizontal  
V = Verticale - vertical

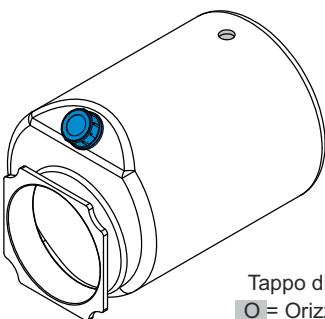
### PC07

Serbatoio cilindrico in plastica capacità 7 litri  
7 liters capacity cylindrical plastic tank



| Caratteristiche principali<br>main features   |             |
|---|-------------|
| Temperatura di impiego<br>working temperature | -15°C +70°C |
| Foro std<br>std hole                          | G1/2"       |

Predisposizione tappo di carico per montaggio orizzontale (O), o verticale (V)  
predisposition for filler cap position for horizontal (O), or vertical (V) mounting



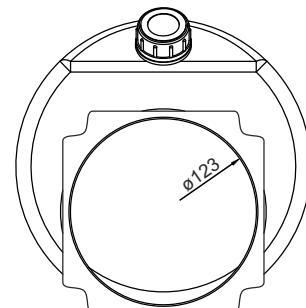
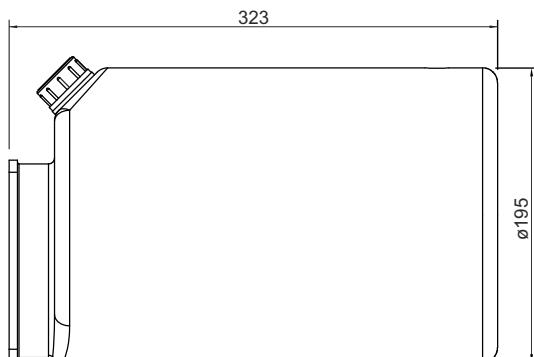
Tappo di carico - filler cap  
O = Orizzontale - horizontal  
V = Verticale - vertical

# Serbatoi plastica plastic oil tanks



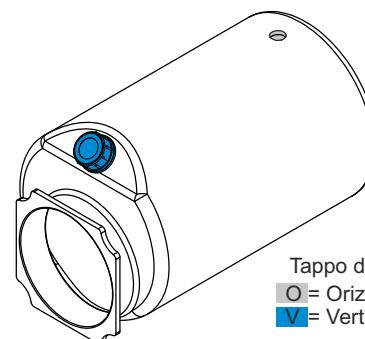
## PC09

Serbatoio cilindrico in plastica capacità 9 litri  
9 liters capacity cylindrical plastic tank



| Caratteristiche principali<br>main features   |             |
|---|-------------|
| Temperatura di impiego<br>working temperature | -15°C +70°C |
| Foro std<br>std hole                          | G1/2"       |

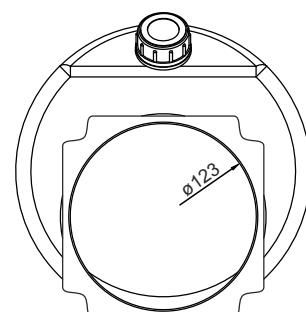
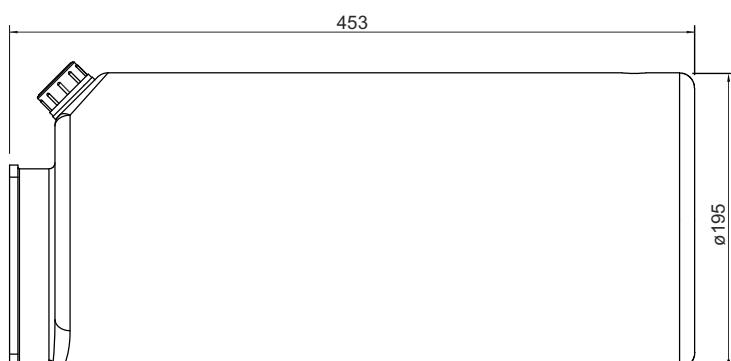
Predisposizione tappo di carico per montaggio orizzontale (O), o verticale (V)  
predisposition for filler cap position for horizontal (O), or vertical (V) mounting



Tappo di carico - filler cap  
O = Orizzontale - horizontal  
V = Verticale - vertical

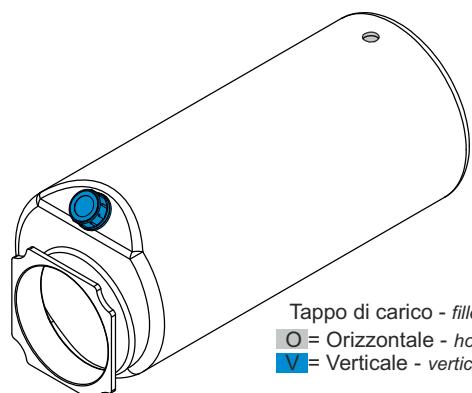
## PC11

Serbatoio cilindrico in plastica capacità 11 litri  
11 liters capacity cylindrical plastic tank



| Caratteristiche principali<br>main features   |             |
|---|-------------|
| Temperatura di impiego<br>working temperature | -15°C +70°C |
| Foro std<br>std hole                          | G1/2"       |

Predisposizione tappo di carico per montaggio orizzontale (O), o verticale (V)  
predisposition for filler cap position for horizontal (O), or vertical (V) mounting



Tappo di carico - filler cap  
O = Orizzontale - horizontal  
V = Verticale - vertical



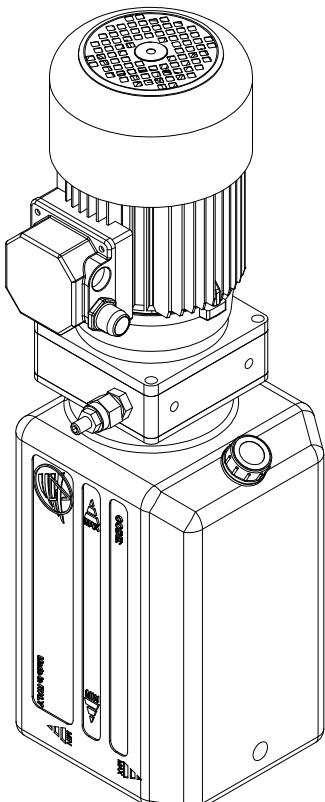
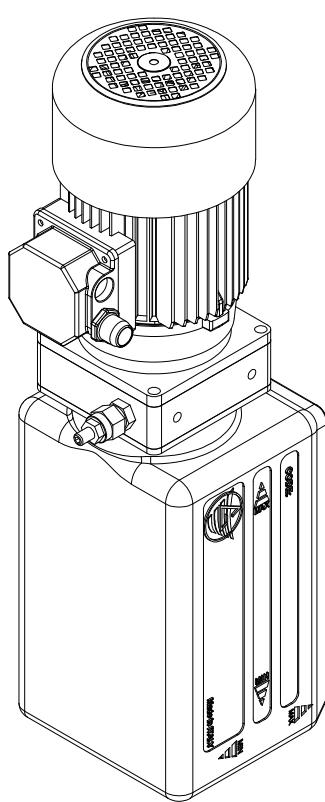
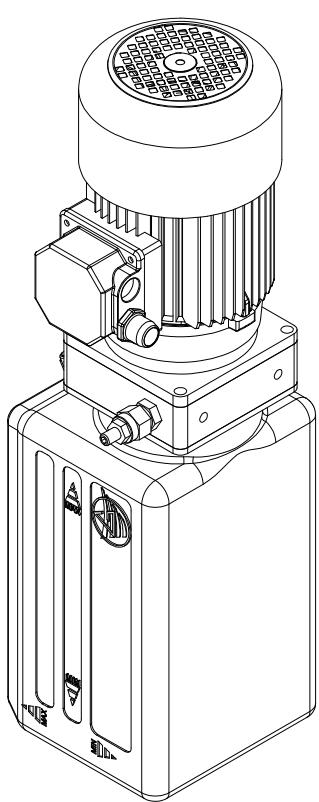
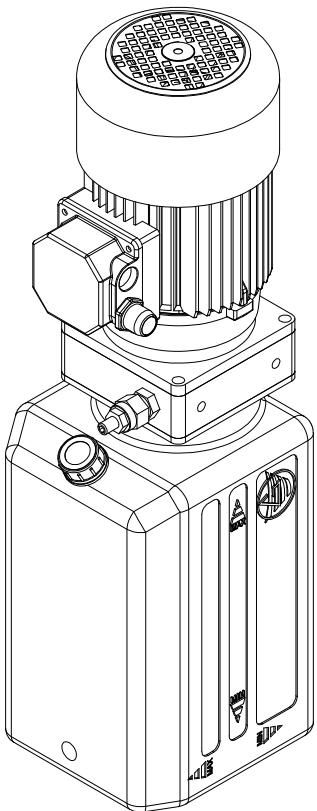
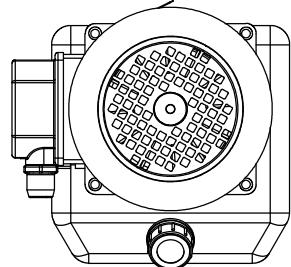
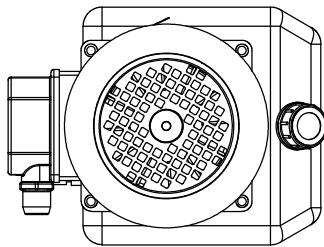
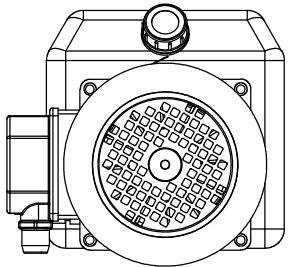
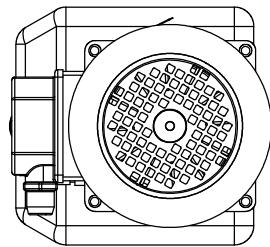
## Serbatoi oil tanks

8

### Orientamento Serbatoi - tanks positioning

67

Serie PE - CS - PC



#### 1 Sinistra - left (std)

tappo di carico stesso lato  
della valvola di massima  
filler cap same side of the relief  
valve

#### 2 Anteriore - front

tappo di carico lato blocchi  
modulari  
filler cap on modular blocks side

#### 3 Destra - right

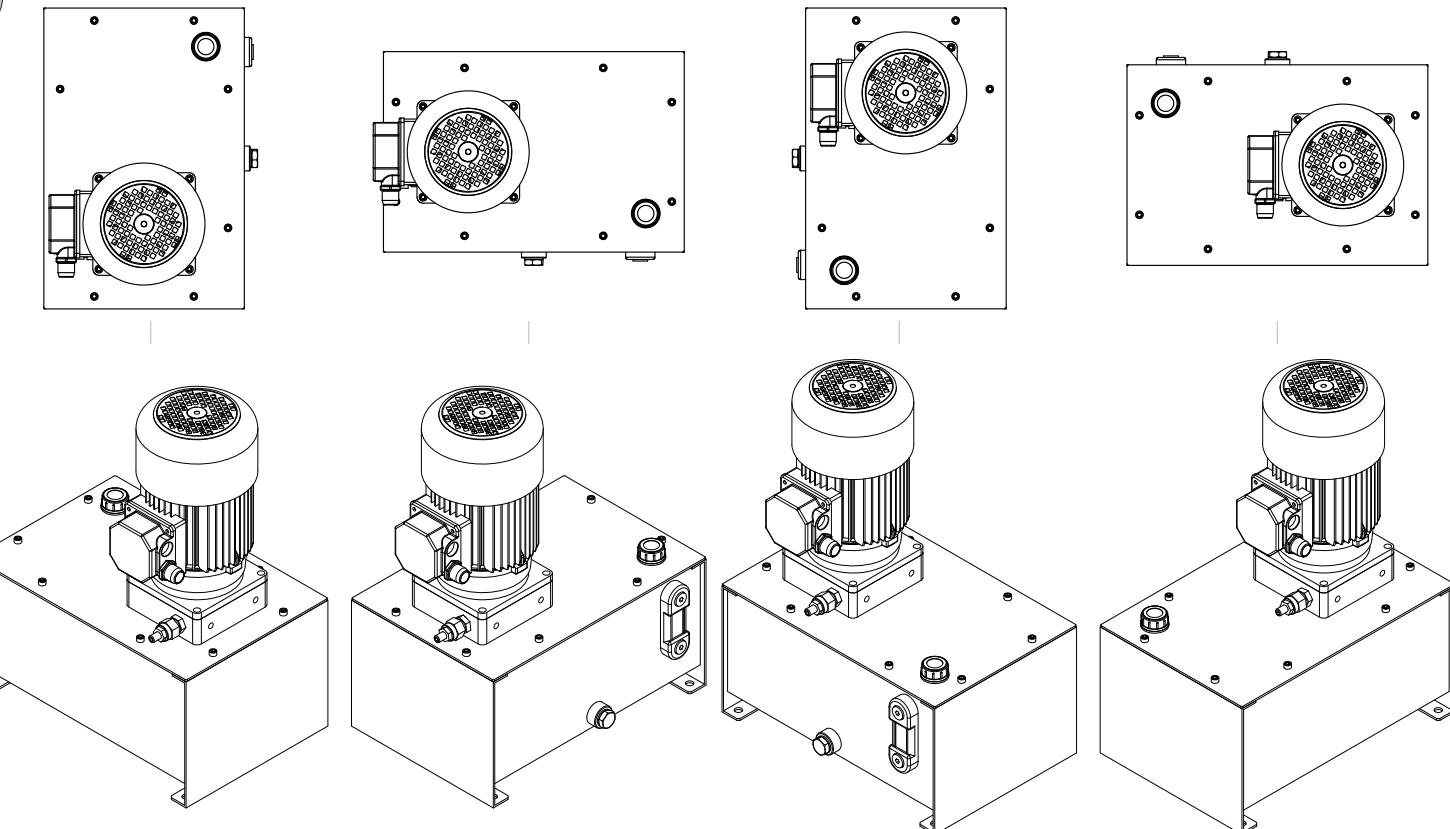
tappo di carico lato opposto  
della valvola di massima  
filler cap on opposite side of the  
relief valve

#### 4 Posteriore - rear

tappo di carico lato opposto  
blocchi modulari  
filler cap on opposite side modular  
blocks

## Orientamento Serbatoi - tanks positioning

Serie LM



1 Sinistra - left (std)

tappo di carico verso blocchi  
modulari  
*filler cap toward modular blocks*

2 Anteriore - front

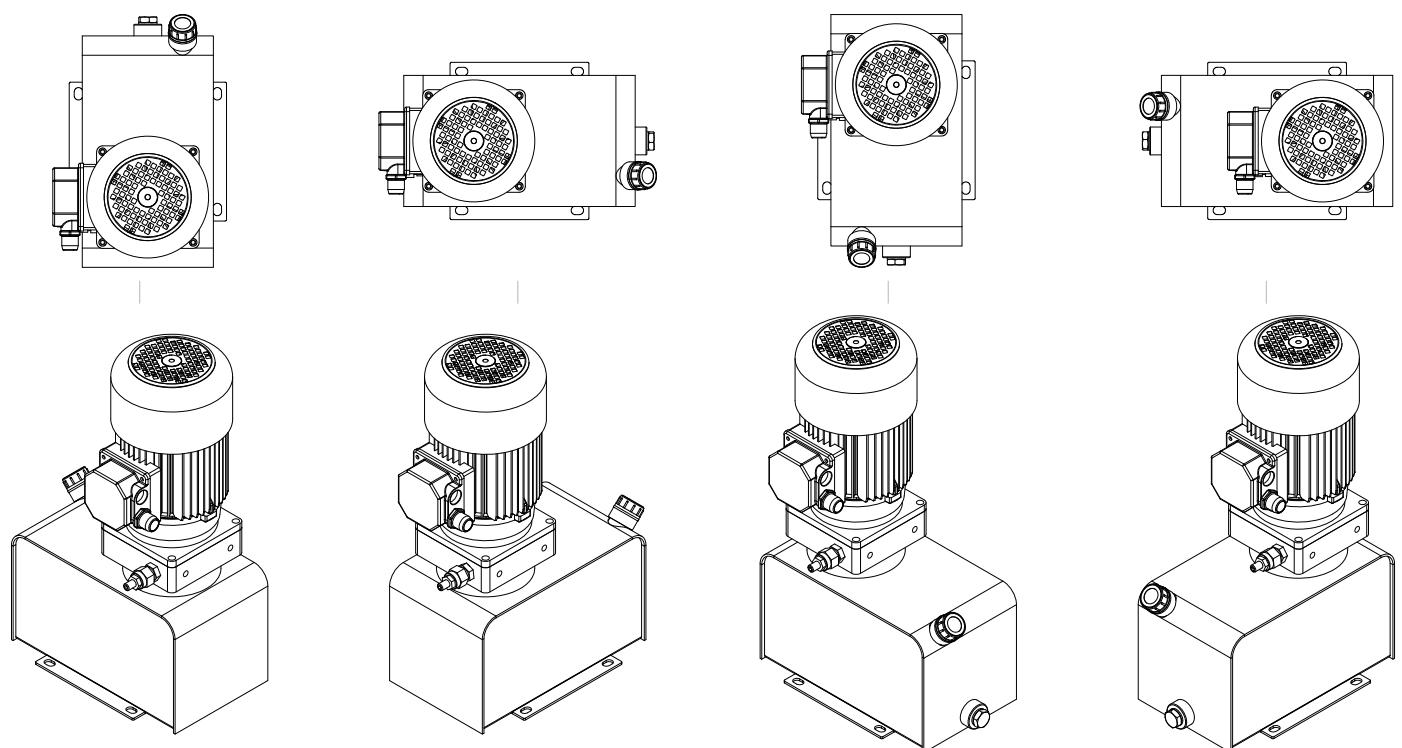
tappo di carico opposto alla  
valvola di massima  
*filler cap on opposite side of the  
relief valve*

3 Destra - right

tappo di carico opposto a  
blocchi modulari  
*filler cap on opposite side of the  
modular blocks*

4 Posteriore - rear

tappo di carico verso valvola  
di massima  
*filler cap toward relief valve*

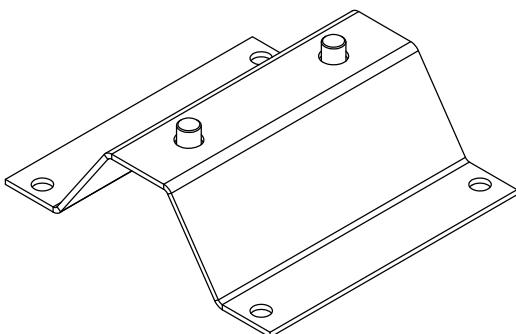
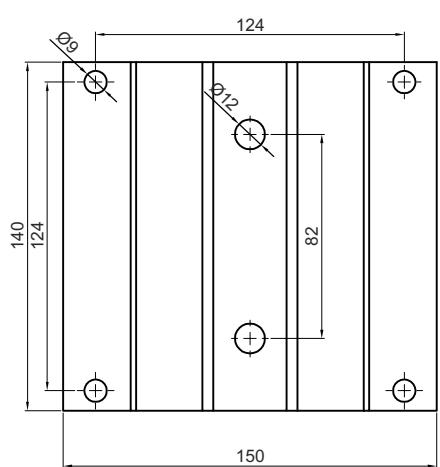
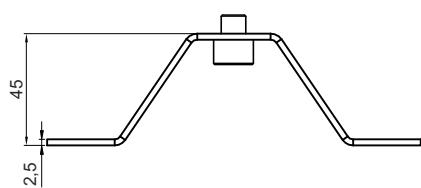
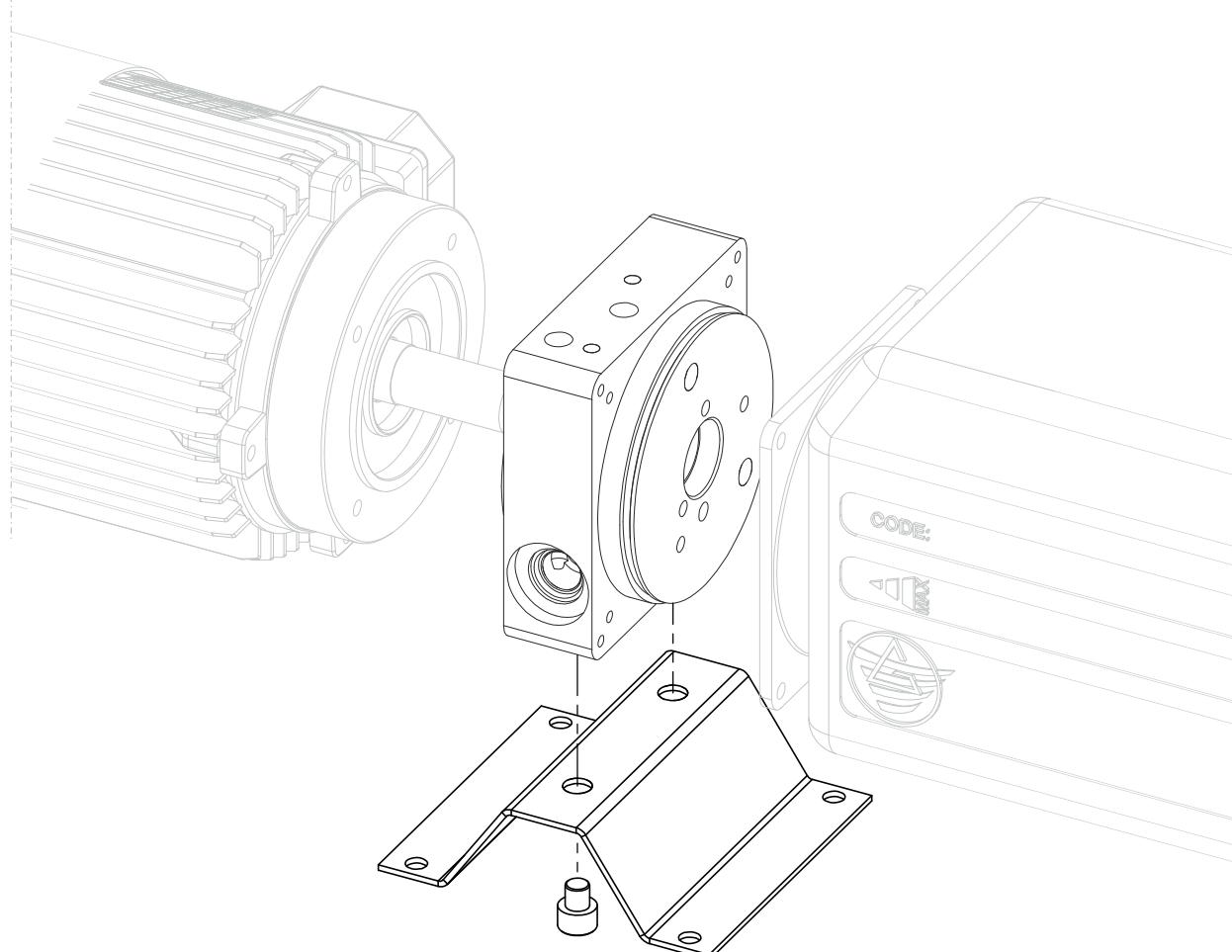




F01

69

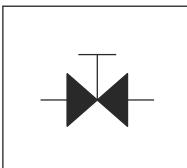
Piedino di supporto centralina  
Mounting foot support





ES

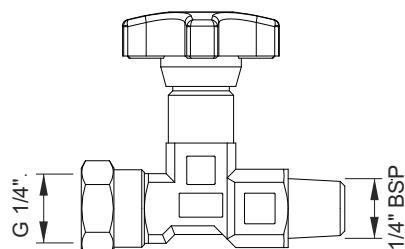
Valvola di esclusione manometro  
Pressure gauge isolator



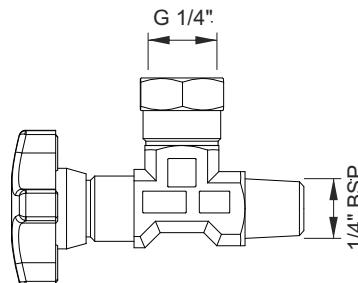
Caratteristiche principali  
main features

|   |             |
|---|-------------|
| Temp. di impiego<br>working temperature | -20°C+100°C |
| Connessioni<br>connections              | G1/4"       |
| Pressione max<br>max pressure           | 400 bar     |

Esclusore manometro attacco in linea  
Pressure gauge isolator in-line connection



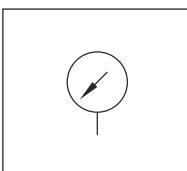
Esclusore manometro attacco 90°  
Pressure gauge isolator 90° connection



Versione con connessioni F-F a richiesta  
F-F connection version on request

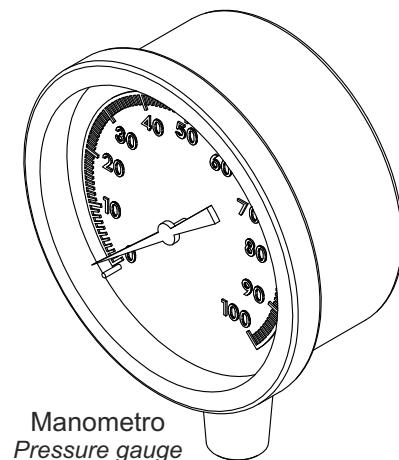
9022

Manometro  
Pressure gauge



Caratteristiche principali  
main features

| Connessione<br>connection                | G1/4"          |
|--|----------------|
| Diametro nominale<br>nominal diameter    | 63 mm          |
| Classe di protezione<br>protection class | 1,6            |
| Grado di protezione<br>protection degree | IP 65          |
| cod.<br>code                             | Scala<br>scale |
| 90220310                                 | 0 - 60 bar     |
| 90220400                                 | 0 - 100 bar    |
| 90220580                                 | 0 - 160 bar    |
| 90220660                                 | 0 - 250 bar    |



Manometro  
Pressure gauge



Esclusore manometro  
pressure gauge isolator

Codici ordinazione - ordering codes

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| E | S | 2 | 9 | 0 | 0 |
| 1 | 2 |   |   |   |   |

1 Esclusore - isolator

2 Tipo - type

3 Serie - series

ES

290 = Connessione in linea - in-line connection  
291 = Connessione 90° - 90° connection

0 = Standard

|   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|
| 9 | 0 | 2 | 2 | 0 | 4 | 0 | 0 |
| 1 |   |   |   | 2 |   |   | 3 |

1 Manometro - gauge

2 Scala - scale

3 Serie - series

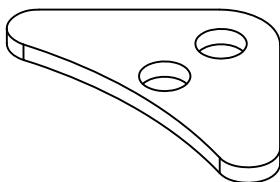
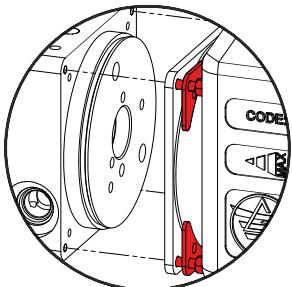
9022

031 = da 0 a 60 bar - from 0 to 60 bar  
040 = da 0 a 100 bar - from 0 to 100 bar  
058 = da 0 a 160 bar - from 0 to 160 bar  
066 = da 0 a 250 bar - from 0 to 250 bar

0 = Standard

## FFPL

Fazzoletti di fissaggio per serbatoi in plastica  
Mounting kit for plastic tanks

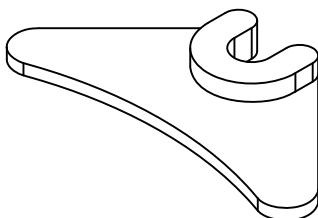
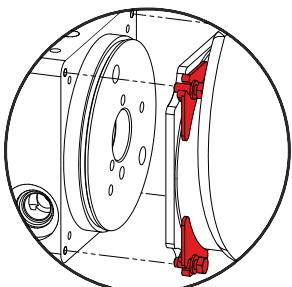


| Caratteristiche principali<br>main features |                                     |
|---|-------------------------------------|
| Spessore<br>thickness                       | 2,5 mm                              |
| Materiale<br>material                       | Acciaio zincato<br>galvanized steel |

Il kit prevede 4 piastrine di rinforzo  
kit includes 4 reinforcement plates

## FFPC

Fissaggio per serbatoi in plastica serie PC  
Mounting kit for plastic tanks PC serie

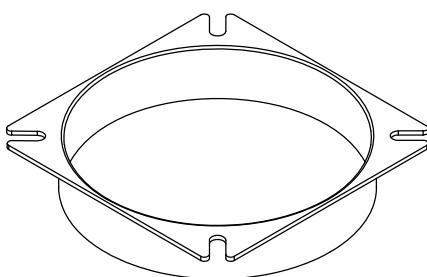
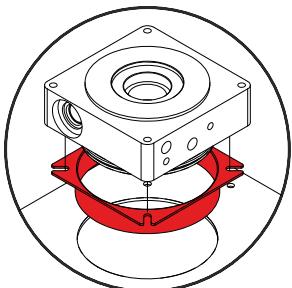


| Caratteristiche principali<br>main features |                             |
|---|-----------------------------|
| Spessore<br>thickness                       | 2+3 mm                      |
| Materiale<br>material                       | Al pressofuso<br>diecast Al |

Il kit prevede 4 piastre indispensabili per il montaggio dei serbatoi serie PC sul collettore  
kit includes 4 indispensable plates for mounting the PC serie tanks of the manifold

## FLTK

Collare per serbatoi in acciaio  
Collar for steel tanks

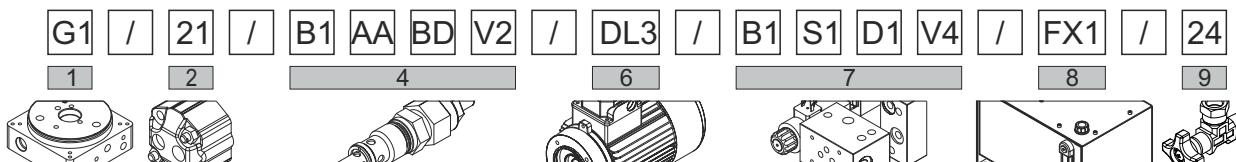


| Caratteristiche principali<br>main features |                  |
|---|------------------|
| Materiale<br>material                       | Acciaio<br>steel |
| Altezza<br>height                           | 25mm             |

NB: Flangia non verniciata da saldare sul serbatoio. Foro Ø123  
NOTE: unpainted flange, to be welded on tanks. Hole Ø123

| Corpo centrale<br>central manifold  | Pompa<br>pump  | Valvola di massima<br>relief valve   | Valvole a cartuccia<br>cartridge valves  | Tensione elettrovalvole<br>solenoid voltage   | Regolatori di scarico<br>return regulator                  | Motore AC<br>AC motor                                      |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
|---|--|--|--|---|--|--|--|-----|---|----|-----|---|----|-----|---|----|-----|----|--|--|--|----|--------|----|----|--------|----|----|--------|----|----|--------|----|----|--------|----|----|--------|----|----|--------|----|----|--------|----|----|--------|----|----|--------|----|----|--------|----|----|--------|----|----|--------|----|----|--------|----|----|--------|----|----|--------|----|----|--------|----|----|--------|----|----|--------|----|----|--------|----|----|--------|----|----|--------|----|----|--------|----|----|--------|----|----|--------|----|--|----|--------|----|----|--------|----|----|--------|----|----|------|----|----|----------|----|----|----------|----|----|----------|----|----|----------|----|---|----------|----|---|----------|----|---|----------|----|---|----------|----|---|----------|---|--|-----------------|-----|----|----------|---|--|-----------------|-----|---|----------|----|---|----------|----|---|----------|----|---|----------|----|---|----------|---|--|-----------------|-----|---|----------|----|---|----------|----|---|----------|----|---|----------|----|---|----------|---|--|-----------------|-----|----|---------------|---|----|---------------|---|----|---------------|---|----|---------------|---|---|----|--------|----|--------|----|--------|----|---------|----|---------|----|----------------------|--|----|---------------|----|----|---------------|----|----|---------------|----|----|---------------|----|----|---------------|----|----|---------------|----|----|---------------|----|----|---------------|----|----|----------------|----|-----|----------------|----|---|---|--------|---|---|--------|---|---|--------|---|---|--------|---|---|-------|---|---|-------|---|---|-------|---|---|-----|---|---|-----|---|---|-------|---|---|-------------|----|---|-------------|----|---|-------------|----|---|--------------|----|---|-----------------------|---|---|-----------------------|---|-----------|----|---|--------|----|---|--------|----|---|--------|----|---|--------|----|-------------------------|---|-----------------------|---|---|--------|----|---|--------|----|---|--------|----|---|--------|----|---|--------|---|-----------|----|---|-----------|----|---|-----------|----|---|-----------|----|---|-----------------------|---|
| 0 0   | 0 0  | 0 0  | 0 0 *1 ...   | BA, BB, BC, BD, BE  | cavità 5, 6, 7<br>cavity 5, 6, 7                           | 0 0 0  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 1   | 2  | 4  | 4  | 0   | 4  | 6  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| <p>cod. des. pag.</p> <table border="1"> <tr><td>G0</td><td>G00</td><td>2</td></tr> <tr><td>G1</td><td>G10</td><td>4</td></tr> <tr><td>GS</td><td>G12</td><td>4</td></tr> <tr><td>G2</td><td>G20</td><td>6</td></tr> <tr><td>G3</td><td>G30</td><td>8</td></tr> <tr><td>G4</td><td>G40</td><td>10</td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td>09</td><td>0,9 cc</td><td>12</td></tr> <tr><td>11</td><td>1,1 cc</td><td>12</td></tr> <tr><td>13</td><td>1,3 cc</td><td>12</td></tr> <tr><td>16</td><td>1,6 cc</td><td>12</td></tr> <tr><td>21</td><td>2,1 cc</td><td>12</td></tr> <tr><td>26</td><td>2,6 cc</td><td>12</td></tr> <tr><td>32</td><td>3,2 cc</td><td>12</td></tr> <tr><td>37</td><td>3,7 cc</td><td>12</td></tr> <tr><td>42</td><td>4,2 cc</td><td>12</td></tr> <tr><td>48</td><td>4,8 cc</td><td>12</td></tr> <tr><td>58</td><td>5,8 cc</td><td>12</td></tr> <tr><td>80</td><td>8,0 cc</td><td>12</td></tr> <tr><td>09</td><td>0,9 cc</td><td>13</td></tr> <tr><td>12</td><td>1,2 cc</td><td>13</td></tr> <tr><td>17</td><td>1,7 cc</td><td>13</td></tr> <tr><td>22</td><td>2,2 cc</td><td>13</td></tr> <tr><td>26</td><td>2,6 cc</td><td>13</td></tr> <tr><td>32</td><td>3,2 cc</td><td>13</td></tr> <tr><td>38</td><td>3,8 cc</td><td>13</td></tr> <tr><td>43</td><td>4,3 cc</td><td>13</td></tr> <tr><td>49</td><td>4,9 cc</td><td>13</td></tr> <tr><td>59</td><td>5,9 cc</td><td>13</td></tr> <tr><td>65</td><td>6,5 cc</td><td>13</td></tr> <tr><td>78</td><td>7,8 cc</td><td>13</td></tr> <tr><td>98</td><td>9,8 cc</td><td>13</td></tr> </table> | G0   | G00  | 2  | G1  | G10  | 4  | GS   | G12 | 4 | G2 | G20 | 6 | G3 | G30 | 8 | G4 | G40 | 10 |  |  |  | 09 | 0,9 cc | 12 | 11 | 1,1 cc | 12 | 13 | 1,3 cc | 12 | 16 | 1,6 cc | 12 | 21 | 2,1 cc | 12 | 26 | 2,6 cc | 12 | 32 | 3,2 cc | 12 | 37 | 3,7 cc | 12 | 42 | 4,2 cc | 12 | 48 | 4,8 cc | 12 | 58 | 5,8 cc | 12 | 80 | 8,0 cc | 12 | 09 | 0,9 cc | 13 | 12 | 1,2 cc | 13 | 17 | 1,7 cc | 13 | 22 | 2,2 cc | 13 | 26 | 2,6 cc | 13 | 32 | 3,2 cc | 13 | 38 | 3,8 cc | 13 | 43 | 4,3 cc | 13 | 49 | 4,9 cc | 13 | 59 | 5,9 cc | 13 | 65 | 6,5 cc | 13 | 78 | 7,8 cc | 13 | 98 | 9,8 cc | 13 | <p>cod. des. pag.</p> <table border="1"> <tr><td>09</td><td>0,9 cc</td><td>12</td></tr> <tr><td>11</td><td>1,1 cc</td><td>12</td></tr> <tr><td>13</td><td>1,3 cc</td><td>12</td></tr> <tr><td>D1</td><td>T0VM</td><td>34</td></tr> <tr><td>A1</td><td>VMDC20A1</td><td>19</td></tr> <tr><td>B1</td><td>VMDC20B1</td><td>19</td></tr> <tr><td>C1</td><td>VMDC20C1</td><td>19</td></tr> <tr><td>D1</td><td>VMDC20C1</td><td>19</td></tr> <tr><td>A</td><td>VMDC20A1</td><td>19</td></tr> <tr><td>B</td><td>VMDC20B1</td><td>19</td></tr> <tr><td>C</td><td>VMDC20C1</td><td>19</td></tr> <tr><td>D</td><td>VMDC20C1</td><td>19</td></tr> <tr><td>0</td><td>no valv.</td><td>/</td></tr> <tr><td> </td><td>cavità - cavity</td><td>2.1</td></tr> <tr><td>00</td><td>no valv.</td><td>/</td></tr> <tr><td> </td><td>cavità - cavity</td><td>2.1</td></tr> <tr><td>A</td><td>VMDC20A1</td><td>19</td></tr> <tr><td>B</td><td>VMDC20B1</td><td>19</td></tr> <tr><td>C</td><td>VMDC20C1</td><td>19</td></tr> <tr><td>D</td><td>VMDC20C1</td><td>19</td></tr> <tr><td>0</td><td>no valv.</td><td>/</td></tr> <tr><td> </td><td>cavità - cavity</td><td>2.2</td></tr> <tr><td>1</td><td>VMDC20A1</td><td>19</td></tr> <tr><td>2</td><td>VMDC20B1</td><td>19</td></tr> <tr><td>3</td><td>VMDC20C1</td><td>19</td></tr> <tr><td>4</td><td>VMDC20C1</td><td>19</td></tr> <tr><td>0</td><td>no valv.</td><td>/</td></tr> <tr><td> </td><td>cavità - cavity</td><td>2.2</td></tr> <tr><td>01</td><td>cava 1 libera</td><td>/</td></tr> <tr><td>03</td><td>cava 3 libera</td><td>/</td></tr> <tr><td>04</td><td>cava 4 libera</td><td>/</td></tr> <tr><td>00</td><td>cava 0 libera</td><td>/</td></tr> </table> | 09 | 0,9 cc | 12 | 11 | 1,1 cc | 12 | 13 | 1,3 cc | 12 | D1 | T0VM | 34 | A1 | VMDC20A1 | 19 | B1 | VMDC20B1 | 19 | C1 | VMDC20C1 | 19 | D1 | VMDC20C1 | 19 | A | VMDC20A1 | 19 | B | VMDC20B1 | 19 | C | VMDC20C1 | 19 | D | VMDC20C1 | 19 | 0 | no valv. | / |  | cavità - cavity | 2.1 | 00 | no valv. | / |  | cavità - cavity | 2.1 | A | VMDC20A1 | 19 | B | VMDC20B1 | 19 | C | VMDC20C1 | 19 | D | VMDC20C1 | 19 | 0 | no valv. | / |  | cavità - cavity | 2.2 | 1 | VMDC20A1 | 19 | 2 | VMDC20B1 | 19 | 3 | VMDC20C1 | 19 | 4 | VMDC20C1 | 19 | 0 | no valv. | / |  | cavità - cavity | 2.2 | 01 | cava 1 libera | / | 03 | cava 3 libera | / | 04 | cava 4 libera | / | 00 | cava 0 libera | / | <p>cod. Tensione - voltage</p> <table border="1"> <tr><td>V1</td><td>12V DC</td></tr> <tr><td>V2</td><td>24V DC</td></tr> <tr><td>V3</td><td>24 RAC</td></tr> <tr><td>V4</td><td>110 RAC</td></tr> <tr><td>V5</td><td>220 RAC</td></tr> <tr><td>00</td><td>no bobina<br/>no coil</td></tr> </table> | V1 | 12V DC | V2 | 24V DC | V3 | 24 RAC | V4 | 110 RAC | V5 | 220 RAC | 00 | no bobina<br>no coil | <p>cod. des. pag.</p> <table border="1"> <tr><td>E1</td><td>VSC01 1lt/min</td><td>22</td></tr> <tr><td>E2</td><td>VSC01 2lt/min</td><td>22</td></tr> <tr><td>E3</td><td>VSC01 3lt/min</td><td>22</td></tr> <tr><td>E4</td><td>VSC01 4lt/min</td><td>22</td></tr> <tr><td>E5</td><td>VSC01 5lt/min</td><td>22</td></tr> <tr><td>E6</td><td>VSC01 6lt/min</td><td>22</td></tr> <tr><td>E7</td><td>VSC01 7lt/min</td><td>22</td></tr> <tr><td>E8</td><td>VSC01 8lt/min</td><td>22</td></tr> <tr><td>E9</td><td>VSC01 10lt/min</td><td>22</td></tr> <tr><td>E10</td><td>VSC01 12lt/min</td><td>22</td></tr> </table> | E1 | VSC01 1lt/min | 22 | E2 | VSC01 2lt/min | 22 | E3 | VSC01 3lt/min | 22 | E4 | VSC01 4lt/min | 22 | E5 | VSC01 5lt/min | 22 | E6 | VSC01 6lt/min | 22 | E7 | VSC01 7lt/min | 22 | E8 | VSC01 8lt/min | 22 | E9 | VSC01 10lt/min | 22 | E10 | VSC01 12lt/min | 22 | <p>cod. des. pag.</p> <table border="1"> <tr><td>A</td><td>0,25KW</td><td>-</td></tr> <tr><td>B</td><td>0,37KW</td><td>-</td></tr> <tr><td>C</td><td>0,55KW</td><td>-</td></tr> <tr><td>D</td><td>0,75KW</td><td>-</td></tr> <tr><td>E</td><td>1,1KW</td><td>-</td></tr> <tr><td>F</td><td>1,5KW</td><td>-</td></tr> <tr><td>G</td><td>2,2KW</td><td>-</td></tr> <tr><td>H</td><td>3KW</td><td>-</td></tr> <tr><td>I</td><td>4KW</td><td>-</td></tr> <tr><td>J</td><td>5,5KW</td><td>-</td></tr> <tr><td>W</td><td>pred. TG 71</td><td>36</td></tr> <tr><td>X</td><td>pred. TG 80</td><td>37</td></tr> <tr><td>Y</td><td>pred. TG 90</td><td>38</td></tr> <tr><td>Z</td><td>pred. TG 100</td><td>39</td></tr> <tr><td>0</td><td>no motore<br/>no motor</td><td>/</td></tr> </table> | A | 0,25KW | - | B | 0,37KW | - | C | 0,55KW | - | D | 0,75KW | - | E | 1,1KW | - | F | 1,5KW | - | G | 2,2KW | - | H | 3KW | - | I | 4KW | - | J | 5,5KW | - | W | pred. TG 71 | 36 | X | pred. TG 80 | 37 | Y | pred. TG 90 | 38 | Z | pred. TG 100 | 39 | 0 | no motore<br>no motor | / | <p>cod. des. pag.</p> <table border="1"> <tr><td>Trifase - three-phase</td><td>1</td><td>AC pos. 1</td><td>43</td></tr> <tr><td>A</td><td>2-P S1</td><td>40</td></tr> <tr><td>B</td><td>4-P S1</td><td>40</td></tr> <tr><td>C</td><td>2-P S3</td><td>41</td></tr> <tr><td>D</td><td>4-P S3</td><td>41</td></tr> <tr><td>Monofase - Single-phase</td><td>0</td><td>no motore<br/>no motor</td><td>/</td></tr> <tr><td>I</td><td>2-P S1</td><td>40</td></tr> <tr><td>L</td><td>4-P S1</td><td>40</td></tr> <tr><td>M</td><td>2-P S3</td><td>41</td></tr> <tr><td>N</td><td>4-P S3</td><td>41</td></tr> </table> | Trifase - three-phase | 1 | AC pos. 1 | 43 | A | 2-P S1 | 40 | B | 4-P S1 | 40 | C | 2-P S3 | 41 | D | 4-P S3 | 41 | Monofase - Single-phase | 0 | no motore<br>no motor | / | I | 2-P S1 | 40 | L | 4-P S1 | 40 | M | 2-P S3 | 41 | N | 4-P S3 | 41 | <p>cod. des. pag.</p> <table border="1"> <tr><td>Pos. 1</td><td>1</td><td>AC pos. 1</td><td>43</td></tr> <tr><td>2</td><td>AC pos. 2</td><td>43</td></tr> <tr><td>3</td><td>AC pos. 3</td><td>43</td></tr> <tr><td>4</td><td>AC pos. 4</td><td>43</td></tr> <tr><td>0</td><td>no motore<br/>no motor</td><td>/</td></tr> </table> | Pos. 1 | 1 | AC pos. 1 | 43 | 2 | AC pos. 2 | 43 | 3 | AC pos. 3 | 43 | 4 | AC pos. 4 | 43 | 0 | no motore<br>no motor | / |
| G0  | G00  | 2  |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| G1  | G10  | 4  |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| GS  | G12  | 4  |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| G2  | G20  | 6  |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| G3  | G30  | 8  |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| G4  | G40  | 10   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
|   |  |  |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 09  | 0,9 cc   | 12   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 11  | 1,1 cc   | 12   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 13  | 1,3 cc   | 12   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 16  | 1,6 cc   | 12   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 21  | 2,1 cc   | 12   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 26  | 2,6 cc   | 12   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 32  | 3,2 cc   | 12   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 37  | 3,7 cc   | 12   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 42  | 4,2 cc   | 12   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 48  | 4,8 cc   | 12   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 58  | 5,8 cc   | 12   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 80  | 8,0 cc   | 12   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 09  | 0,9 cc   | 13   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 12  | 1,2 cc   | 13   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 17  | 1,7 cc   | 13   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 22  | 2,2 cc   | 13   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 26  | 2,6 cc   | 13   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 32  | 3,2 cc   | 13   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 38  | 3,8 cc   | 13   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 43  | 4,3 cc   | 13   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 49  | 4,9 cc   | 13   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 59  | 5,9 cc   | 13   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 65  | 6,5 cc   | 13   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 78  | 7,8 cc   | 13   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 98  | 9,8 cc   | 13   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 09  | 0,9 cc   | 12   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 11  | 1,1 cc   | 12   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 13  | 1,3 cc   | 12   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| D1  | T0VM   | 34   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| A1  | VMDC20A1   | 19   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| B1  | VMDC20B1   | 19   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| C1  | VMDC20C1   | 19   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| D1  | VMDC20C1   | 19   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| A   | VMDC20A1   | 19   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| B   | VMDC20B1   | 19   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| C   | VMDC20C1   | 19   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| D   | VMDC20C1   | 19   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 0   | no valv.   | /  |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
|   | cavità - cavity  | 2.1  |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 00  | no valv.   | /  |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
|   | cavità - cavity  | 2.1  |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| A   | VMDC20A1   | 19   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| B   | VMDC20B1   | 19   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| C   | VMDC20C1   | 19   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| D   | VMDC20C1   | 19   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 0   | no valv.   | /  |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
|   | cavità - cavity  | 2.2  |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 1   | VMDC20A1   | 19   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 2   | VMDC20B1   | 19   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 3   | VMDC20C1   | 19   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 4   | VMDC20C1   | 19   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 0   | no valv.   | /  |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
|   | cavità - cavity  | 2.2  |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 01  | cava 1 libera  | /  |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 03  | cava 3 libera  | /  |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 04  | cava 4 libera  | /  |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 00  | cava 0 libera  | /  |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| V1  | 12V DC   |  |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| V2  | 24V DC   |  |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| V3  | 24 RAC   |  |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| V4  | 110 RAC  |  |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| V5  | 220 RAC  |  |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 00  | no bobina<br>no coil   |  |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| E1  | VSC01 1lt/min  | 22   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| E2  | VSC01 2lt/min  | 22   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| E3  | VSC01 3lt/min  | 22   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| E4  | VSC01 4lt/min  | 22   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| E5  | VSC01 5lt/min  | 22   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| E6  | VSC01 6lt/min  | 22   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| E7  | VSC01 7lt/min  | 22   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| E8  | VSC01 8lt/min  | 22   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| E9  | VSC01 10lt/min   | 22   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| E10   | VSC01 12lt/min   | 22   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| A   | 0,25KW   | -  |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| B   | 0,37KW   | -  |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| C   | 0,55KW   | -  |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| D   | 0,75KW   | -  |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| E   | 1,1KW  | -  |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| F   | 1,5KW  | -  |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| G   | 2,2KW  | -  |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| H   | 3KW  | -  |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| I   | 4KW  | -  |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| J   | 5,5KW  | -  |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| W   | pred. TG 71  | 36   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| X   | pred. TG 80  | 37   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| Y   | pred. TG 90  | 38   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| Z   | pred. TG 100   | 39   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 0   | no motore<br>no motor  | /  |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| Trifase - three-phase   | 1  | AC pos. 1  | 43   |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| A   | 2-P S1   | 40   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| B   | 4-P S1   | 40   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| C   | 2-P S3   | 41   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| D   | 4-P S3   | 41   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| Monofase - Single-phase   | 0  | no motore<br>no motor  | /  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| I   | 2-P S1   | 40   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| L   | 4-P S1   | 40   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| M   | 2-P S3   | 41   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| N   | 4-P S3   | 41   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| Pos. 1  | 1  | AC pos. 1  | 43   |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 2   | AC pos. 2  | 43   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 3   | AC pos. 3  | 43   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 4   | AC pos. 4  | 43   |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| 0   | no motore<br>no motor  | /  |  |   |  |  |  |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |
| <p>S C O 1 2<br/>G 1 2 / G 1 2 /<br/>R E V E R S I B I L E<br/>S O L O<br/>G 4 0 / G 4 0 /</p>  | <p>O M E T T E R E<br/>S E N T I S T O R<br/>O M E T T E R E<br/>S E N T I S T O R</p> | <p>O M E T T E R E<br/>S E N T I S T O R<br/>O M E T T E R E<br/>S E N T I S T O R</p> | <p>O M E T T E R E<br/>S E N T I S T O R<br/>O M E T T E R E<br/>S E N T I S T O R</p> | <p>Solo con valvole MSV e MDV<br/>only with MSV and MDV valves<br/>(BA, BB, BC, BD, BD)</p> | <p>Omettere se non necessario<br/>omit if not required</p> | <p>Omettere se non necessario<br/>omit if not required</p> | <p>Omettere se non necessario<br/>omit if not required</p> |     |   |    |     |   |    |     |   |    |     |    |  |  |  |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |    |        |    |  |    |        |    |    |        |    |    |        |    |    |      |    |    |          |    |    |          |    |    |          |    |    |          |    |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |   |          |    |   |          |    |   |          |    |   |          |    |   |          |   |  |                 |     |    |               |   |    |               |   |    |               |   |    |               |   |   |    |        |    |        |    |        |    |         |    |         |    |                      |  |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |               |    |    |                |    |     |                |    |   |   |        |   |   |        |   |   |        |   |   |        |   |   |       |   |   |       |   |   |       |   |   |     |   |   |     |   |   |       |   |   |             |    |   |             |    |   |             |    |   |              |    |   |                       |   |   |                       |   |           |    |   |        |    |   |        |    |   |        |    |   |        |    |                         |   |                       |   |   |        |    |   |        |    |   |        |    |   |        |    |   |        |   |           |    |   |           |    |   |           |    |   |           |    |   |                       |   |

### Es. chiave di codifica - e.g. of speaking code



#### NOTE:

\*1 - In caso di valvole, blocchi modulari o accessori aggiuntivi, riportare i codici in modo consecutivo nella rispettiva categoria.

\*1 - In case of additional valves, modular elements or accessories, enter the codes consecutively in the respective category.

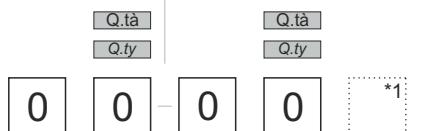
Tramite la chiave di codifica, se non specificato, vengono forniti i componenti nella loro versione standard. Eventuali personalizzazioni vanno specificate a parte.

Esempi: (4) CE - viene fornita la valvola CM04L senza micro. | I connettori di eventuali bobine vengono forniti neri (AM5111)

Using the speaking code, if not specified, are provided the components in their standard version. Any customization, must be specified apart.

Examples: (4) CE - it's provided the CM04L valve without micro. | Connectors of eventual coils are provided black (AM5111)

Blocchi modulari  
modular blocks

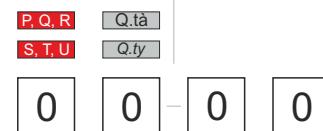


7

| Distanza  <br>spacing                   | cod. | des.      | pag. |
|---|------|-----------|------|
|   | A    | BL004     | 49   |
|   | B    | BL004-1   | 49   |
|   | C    | BL004-2   | 49   |
|   | D    | BL009     | 50   |
| 0 no distanziale /<br>no spacing ele. / | 0    | no blocks | /    |

Per BL011 vedi pagina 51  
For BL011 see page 51

Elettrovalvole  
solenoids



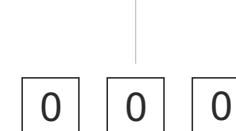
7

| Q.tà  <br>Qty | P, Q, R | Q.tà  <br>Qty |
|---------------|---------|---------------|
|               | S, T, U |               |
| 0             | 0       | 0             |
| 0             | 0       | 0             |
| 0             | 0       | 0             |

| cod. | Tensione - voltage                  |
|------|-------------------------------------|
| A    | 12V DC                              |
| B    | 24V DC                              |
| C    | 48V DC                              |
| D    | 110V AC - 50Hz                      |
| E    | 230V AC - 50Hz                      |
| F    | no elettrovalvole /<br>no solenoids |

Solo con blocchi - only with blocks:  
BL008, BL010, BL015,  
BL016, BL017

Serbatoi  
tanks

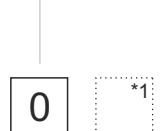


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| cod. | des.                      | pag. |
|------|---------------------------|------|
| A    | PE05                      | 57   |
| B    | PE08                      | 57   |
| C    | PE12                      | 58   |
| D    | LM07                      | 59   |
| E    | LM15                      | 59   |
| F    | LM20                      | 60   |
| G    | LM30                      | 60   |
| H    | LM07TF                    | 61   |
| I    | CS01                      | 62   |
| L    | CS02                      | 62   |
| M    | CS05                      | 63   |
| N    | CS08                      | 63   |
| O    | CS10                      | 64   |
| P    | CS12                      | 64   |
| Q    | PC05                      | 65   |
| R    | PC07                      | 65   |
| S    | PC09                      | 66   |
| T    | PC11                      | 66   |
| 0    | no serbatoio /<br>no tank | /    |

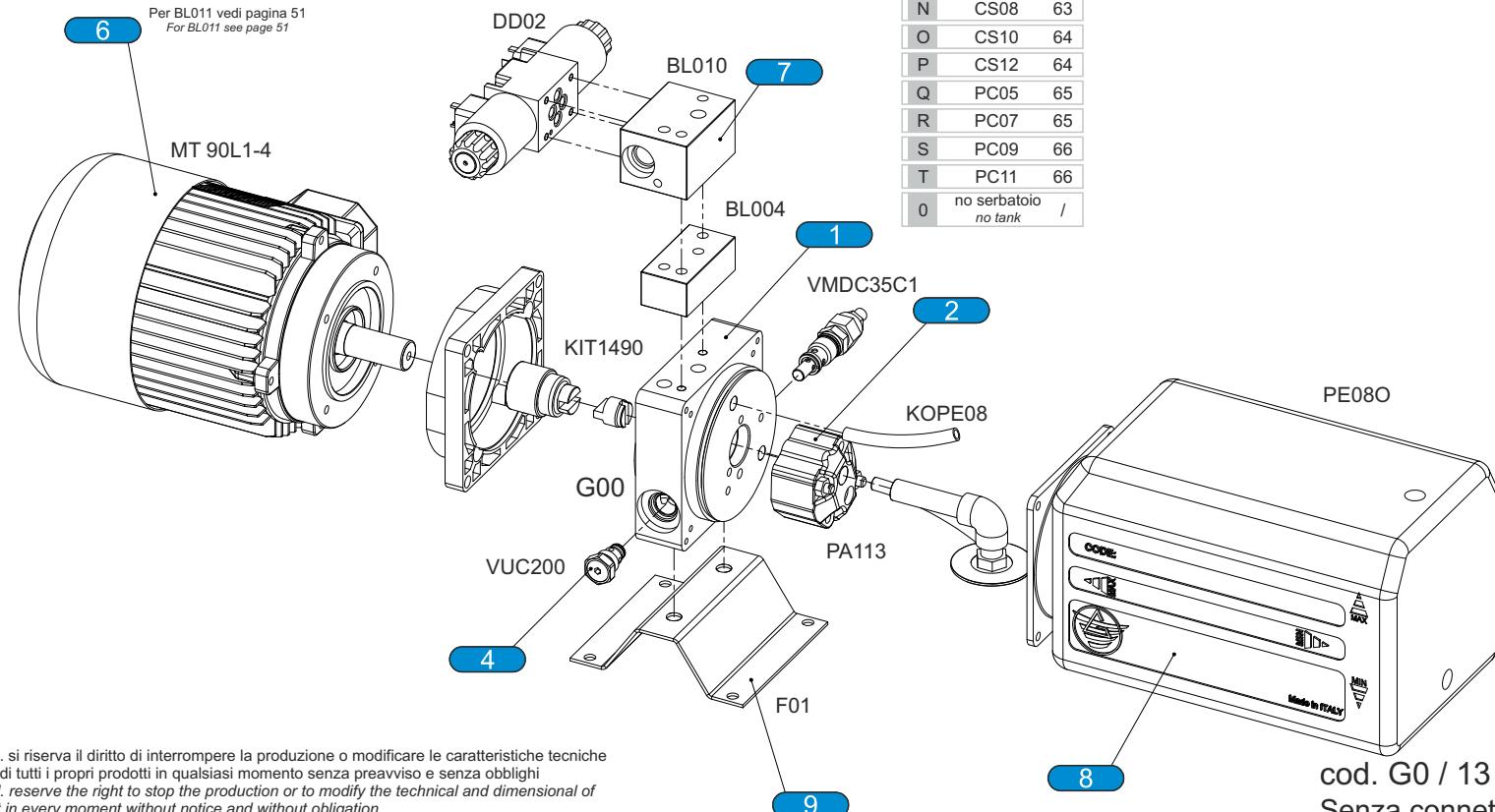
Orientamento LM a pagina 68  
LM positioning at page 68

Accessori  
accessories



9

| cod. | des.                             | pag. |
|------|----------------------------------|------|
| 1    | F01                              | 69   |
| 2    | ES290                            | 70   |
| 3    | ES291                            | 70   |
| 4    | 9022031                          | 70   |
| 5    | 9022040                          | 70   |
| 6    | 9022058                          | 70   |
| 7    | 9022066                          | 70   |
| 8    | FFPL                             | 71   |
| 9    | FFPC                             | 71   |
| 0    | no accessori /<br>no accessories | /    |





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