



**BREVINI®**

Motion Systems

**CENTRALINA  
POWER PACK**

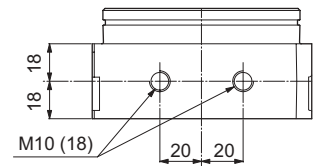
**MR**

ITA-ING

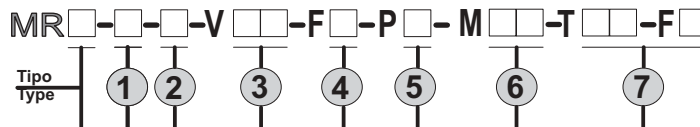
Le centraline serie **MR** sono state concepite per offrire una soluzione razionale ed economica ai più svariati problemi di automazione oleodinamica. La modularità è realizzata attraverso componenti standardizzati di larga produzione che uniscono un elevato livello qualitativo ad un'estrema semplicità di assemblaggio e di funzionamento. Questi componenti sono facilmente intercambiabili e danno alle centraline una eccezionale flessibilità di impiego per le più svariate esigenze. La modularità consente inoltre di avere a disposizione l'intera gamma di centraline con uno stoccaggio versatile ed estremamente economico di componenti. Ne deriva un gruppo compatto con elevate prestazioni e silenziosità, la cui economicità di esercizio ne consente l'impiego in tutti i settori industriali.

*The MR power packs have been studied to offer a rational and economic solution to the many applications of the hydraulic automation. The modularity is realized with large production standard components joining a high quality level to a very simple way of mounting and working of the unit. The components are easily interchangeable and make power packs exceptionally flexible. More on, the modularity allows the availability of the whole range of power packs with a versatile and economic stocking of the components. The result is a compact, economic and noiseless unit with high performances to be employed in all the industrial fields.*

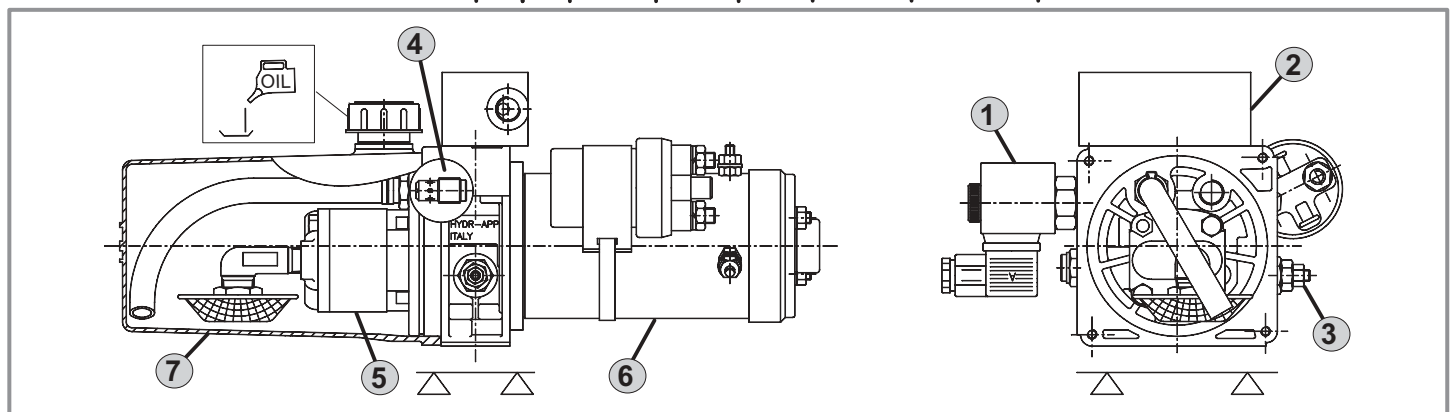
**Fori di fissaggio  
Fixing holes**



**CODICE DI ORDINAZIONE**



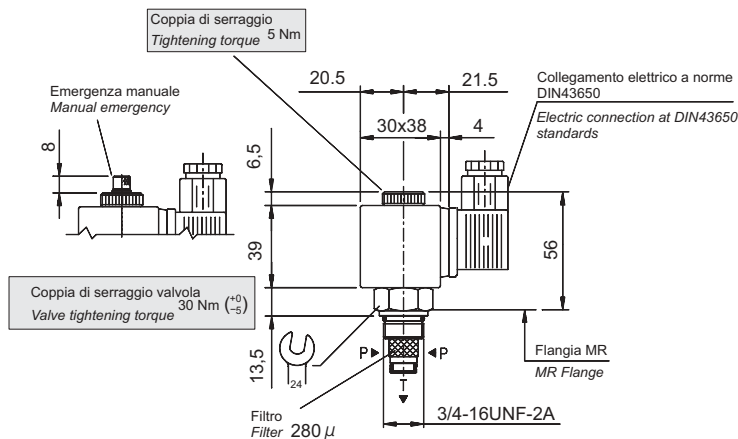
**HOW TO ORDER**



**1 Comando a solenoide  
Solenoid valve**

MR 2 -

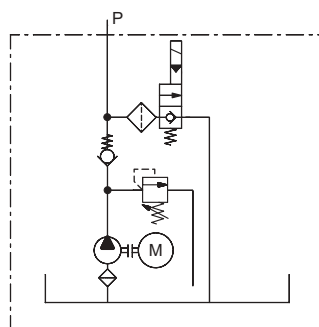
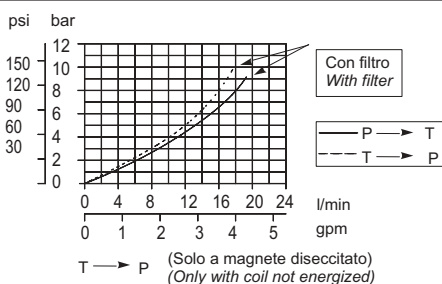
	Voltaggio solenoide Solenoid voltage	Schema Symbol
A	12 Volt DC	
B	24 Volt DC	
C	24 Volt AC 50 Hz	
D	110 Volt AC 50 Hz	
E	220 Volt AC 50 Hz	
F	12 Volt DC	
G	24 Volt DC	
L	24 Volt AC 50/60 Hz	
M	110 Volt AC 50/60 Hz	
N	220 Volt AC 50/60 Hz	
P	12 Volt DC	
Q	24 Volt DC	
R	24 Volt AC 50 Hz	
S	110 Volt AC 50 Hz	
T	220 Volt AC 50 Hz	



Connettori Connectors	
Numero poli Poles	2 + $\frac{1}{2}$
Serracavo Cable gland	PG 9
Grado di protezione Protection class	IP 65 (DIN 40050)
Classe di isolamento Gruppo C - (VDE0110)	Insulation Class Group C - (VDE 0110)

Caratteristiche tecniche Specifications		
Pressione max di lavoro Max operating pressure	210 bar	
Portata max Max flow	22 l/min.	
Drenaggio ( a 210 bar) Leakage (at 210 bar)	12 cc/h	
Tempi di risposta Response time	Apertura Energized	40 msec.
	Chiusura Deenergized	130 msec.
Fluidi : Riferimento ISO 6743/4 e DIN 51524 Fluids: Reference ISO 6743/4 and DIN 51524		

Caduta di pressione  
Pressure drop  $\Delta P$  Solo cartuccia  
Cartridge only



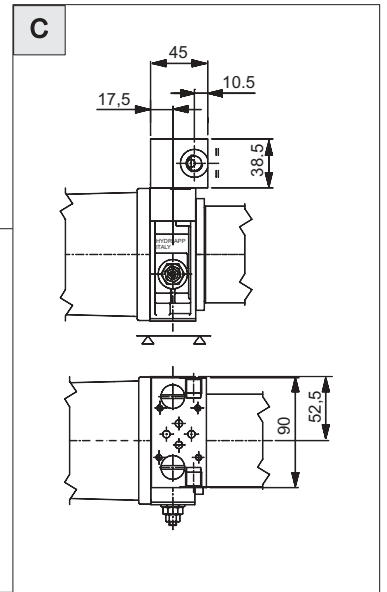
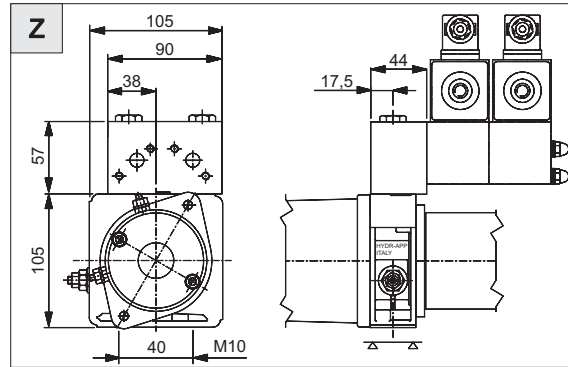
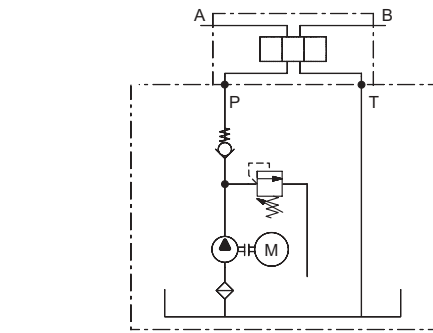
Bobine Coils		
Tolleranza sulla tensione nominale Voltage tolerance	±10%	
Isolamento classe "F" a norme Insulation class "F" ref.	VDE 0580	
Temperatura limite in ambiente Ambient temperature range	-15°C +40°C	
Potenza assorbita Power consumption	In C.C. D.C.	18 WATT
	In C.A. A.C.	28 V.A. In servizio/Holding 40 V.A. Allo spunto/In rush
Servizio Duty	ED 100%	

## 2 Blocchetti Modulari Modular manifolds

MR 4

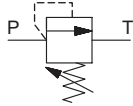
Blocchetti Cetop3  
Cetop3 manifolds

<b>C</b>	1/4" Chiuso 1/4" Closed	
<b>Z</b>	Pannello adattatore blocchetti Cetop3 per centralina Cetop3 manifolds adapting panel for power pack	



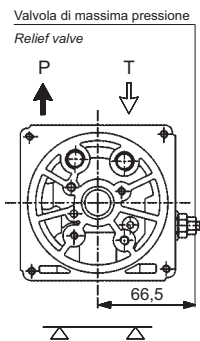
## 3 Valvola di massima pressione Relief valve

V 1



Taratura valvola di max. pressione  
Relief valve setting range

<b>A</b>	25 - 80 bar	Standard	40 bar
<b>B</b>	75 - 220 bar	Standard	140 bar
<b>C</b>	5 - 30 bar	Standard	20 bar

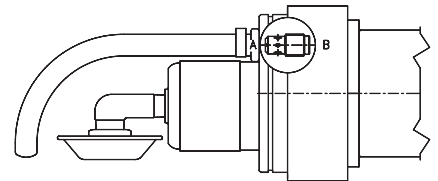
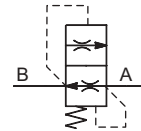


## 4 Valvola di strozzamento compensata fissa Flow compensated fixed valve

F

Portata nominale  
Nominal flow

<b>1,5</b>	1,5	Lt/min
<b>2</b>	2	Lt/min
<b>3,5</b>	3,5	Lt/min
<b>4,5</b>	4,5	Lt/min
<b>5,5</b>	5,5	Lt/min
<b>7</b>	7	Lt/min
<b>9</b>	9	Lt/min
<b>11,5</b>	11,5	Lt/min

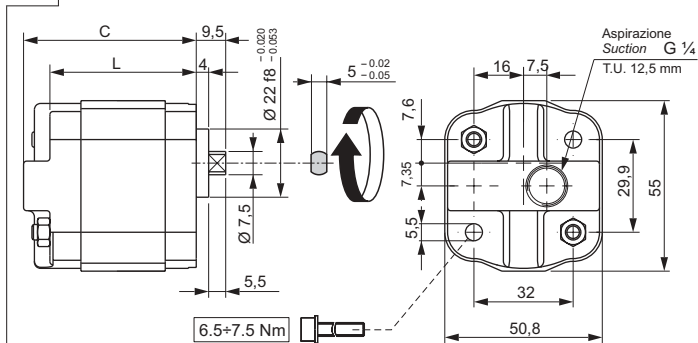


## 5 Pompe Pumps

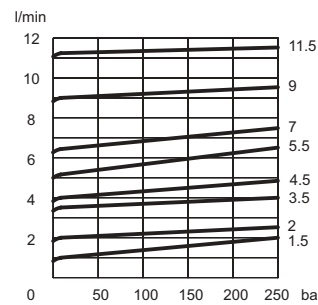
P



Rotazione albero : DESTRA  
Direction of rotation: RIGHT



Portata controllata:  
Flow controlled: B → A l/min  
Fluido impiegato: olio minerale con viscosità:  
Fluid used: mineral based oil with viscosity:  
15 mm<sup>2</sup>/s a 40°C



Caratteristiche tecniche  
Technical features

Pressione max. di esercizio Max working pressure	250 bar
Portata max. Max flow	12 l/min
Portata minima Minimum flow	0.8 l/min
Errore sulla portata nominale a 120 bar Possible deviation on nominal flow at 120 bar	±10%
Temperatura di esercizio Working temperature	-15°C/+70°C
Olio idraulico a base minerale Mineral based hydraulic oil	ISO/DIN 6743/4
Viscosità fluido Fluid viscosity	22+100mm <sup>2</sup> /sec ISO3448
Grado di contaminazione massimo classe Max contamination degree class	18/14 ISO 4406
Peso Weight	Kg 0.014

Gr	Cilindrata (cc/giro) Displacement (cc/rev)	C (mm)	L (mm)	P2 (bar)	P3 (bar)	Velocità massima (giri/min) Max speed (RPM)	Codice pompa Pump code	Codice kit pompa Pump kit code	
<b>A</b>	05	0.3	54.0	45.5	230	270	7000	23003800.035	17050019.035
<b>B</b>	05	0.5	55.7	47.2	230	270	7000	23004000.035	17050021.035
<b>C</b>	05	0.62	56.7	48.2	230	270	6500	23004100.035	17050022.035
<b>D</b>	05	0.84	58.5	50.0	230	270	6500	23004200.035	17050023.035
<b>J</b>	05	1	59.8	51.3	230	270	6000	23004300.035	17050024.035
<b>Z</b>	05	1.25	61.9	53.4	230	270	6000	23004400.035	17050025.035

P2 = Pressione massima di esercizio / Max working pressure

P3 = Pressione intermittente (20 sec. max) / Intermittent peak pressure (20 sec. max)

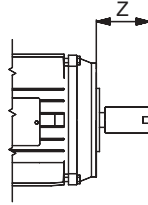
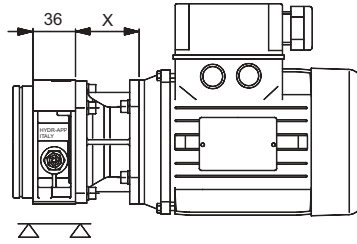
# 6

## Motori elettrici Electric motors

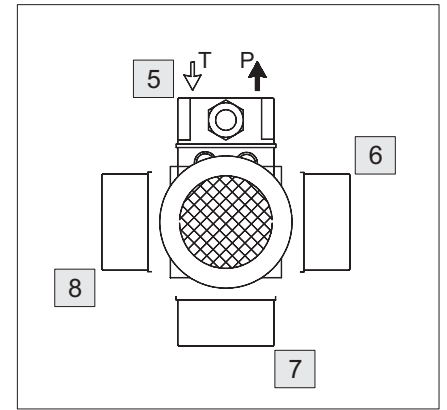
Motori elettrici C.A. Forma B14 secondo le Norme UNEL IEC  
A.C. electric motors B14 according to UNEL IEC standards

M	5	6	7	8	0
	Posizione di montaggio Mounting position				Senza motore Without motor

	Grandezza Size	Potenza Power	Flangia Flange	
	B14	kW	HP	X
R	63	0,18-0,25	0,25-0,33	54,7
L	71	0,35-0,55	0,5-0,75	53,9
M	80	0,75-1,1	1-1,5	54,7
R	63	0,12-0,18	0,17-0,25	54,7
L	71	0,25-0,37	0,33-0,5	53,9
M	80	0,55-0,75	0,75-1	54,7
R	63	0,09-0,12	0,12-0,17	54,7
L	71	0,18-0,25	0,25-0,34	53,9
M	80	0,37-0,55	0,5-0,75	54,7



Z
R 42,8 mm
L 42 mm
M 53 mm



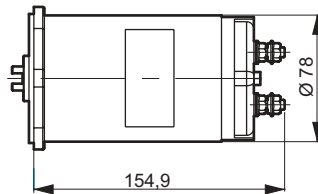
**ATTENZIONE**  
- Determinare accuratamente la quota Z e bloccare la vite di fermo  
- Dopo il collegamento elettrico, verificare il senso di rotazione per la durata di 1 secondo max. con la pompa a scarico; si eviteranno così danni irreparabili alla pompa.  
**WARNING**  
- Carefully determine the Z dimension and lock the grub-screw  
- After the electric connection, please check the sense of rotation of the pump in exhaust flow for no more than 1 second; Serious damages will be so avoided.

M	1	2	3	4	5	6	7	8
	Posizione teleruttore Start switch position				Posizione dei poli senza teleruttore Poles position without start switch			

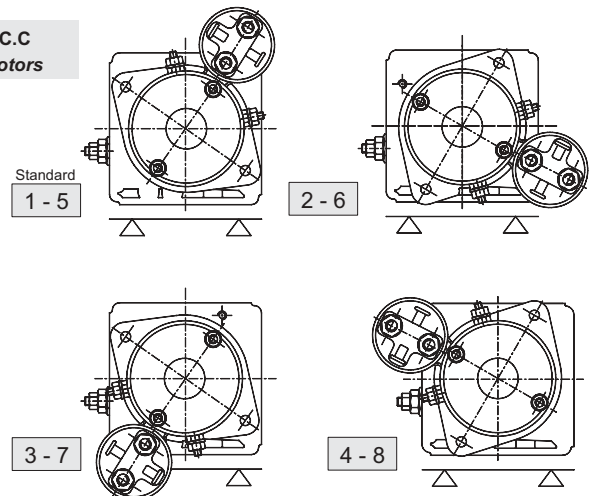
HF	12 Volts D.C.	500 W	code 25024200
HE	24 Volts D.C.	500 W	code 25024300
GU	12 Volts D.C.	800 W	code 25021800
GZ	24 Volts D.C.	800 W	code 25021900

**Caratteristiche tecniche / Specifications**  
Motore in c.c.a magneti permanenti  
Permanent magnet d.c. Motor  
Senso di rotazione reversibile (nominale sx)  
Reversible rotation (nominal left)  
Grado di protezione / Protection class IP54  
Classe di isolamento / Insulation class F

GC GD  
162



## Motori elettrici C.C. D.C. Electric motors

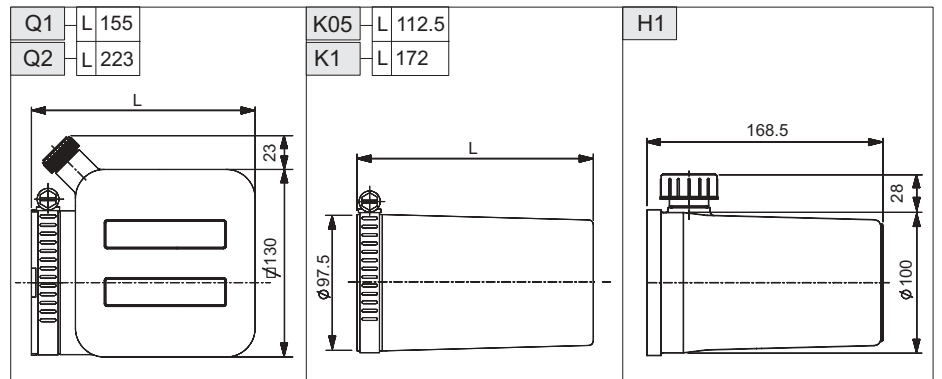


# 7

## Serbatoi Reservoirs

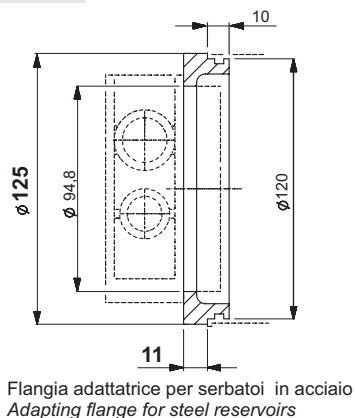
### Serbatoi in plastica Plastic reservoirs

H1	Serbatoio capacità nominale litri 1 con tappo di carico 1 liter nominal capacity reservoir with fill port
K05	Serbatoio capacità nominale litri 0,5 senza tappo di carico 0.5 lt nominal capacity reservoir without fill port
K1	Serbatoio capacità nominale litri 1 senza tappo di carico 1 lt nominal capacity reservoir without fill port
Q1	Serbatoio capacità nominale litri 1 con tappo di carico a 45° 1 lt nominal capacity reservoir with 45° fill port
Q2	Serbatoio capacità nominale litri 2 con tappo di carico a 45° 2 lt nominal capacity reservoir with 45° fill port

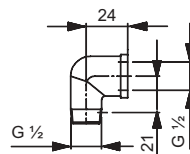


### Serbatoi in acciaio Steel reservoirs

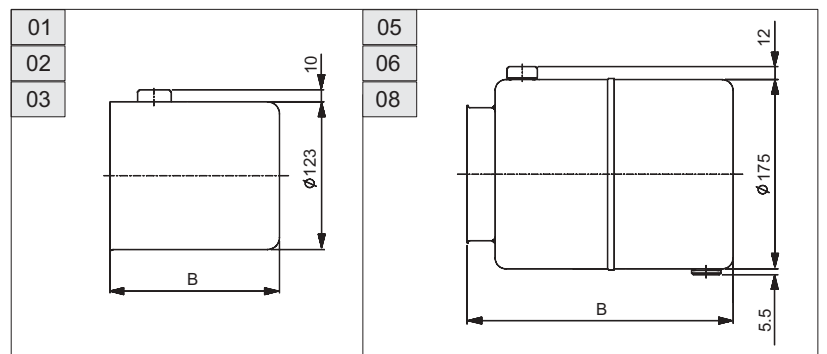
	Litri Liters	B
01	1	141
02	2	200
03	3	330
05	5	246
06	6	308
08	8	370



Flangia adattatrice per serbatoi in acciaio  
Adapting flange for steel reservoirs

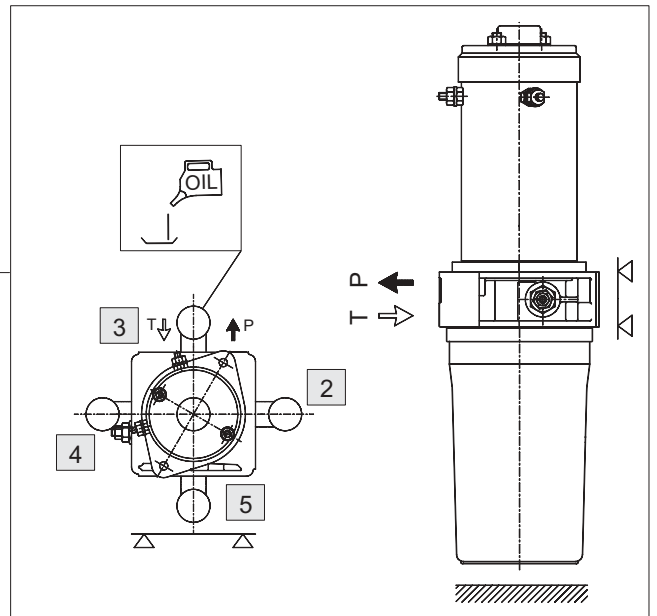
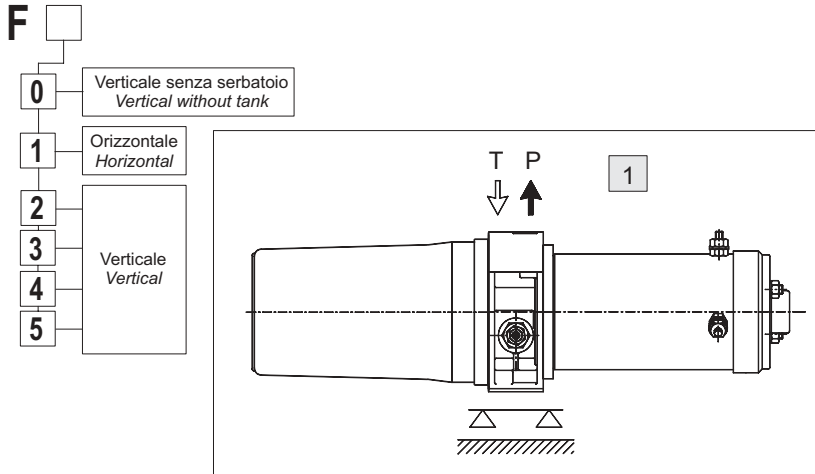


Raccordo per tappo di carico  
montaggio verticale  
Filling plug adapter for vertical  
mounting



# 7

## Posizioni di montaggio Mounting positions



### Norme di impiego ed installazione

- Dimensionare accuratamente l'impianto idraulico nel suo complesso e scegliere una centralina appropriata nella cilindrata della pompa e nella capacità del serbatoio. Dotare l'impianto di sicurezze adeguate e strumentazioni affidabili.
- La centralina può essere montata in tutte le posizioni raffigurate, sia in orizzontale che in verticale con serbatoio rivolto verso il basso: nel caso di montaggi su strutture o macchinari soggetti a vibrazioni o oscillazioni, prevedere dei tasselli antivibranti.
- Scegliere un serbatoio ben dimensionato, in modo da avere sempre una corretta aspirazione della pompa ed una temperatura di esercizio di 60°C (Max. 80°C).
- Scegliere un fluido idraulico adeguato: si consiglia di filtrare il fluido a 25 ÷ 30 µ, prima del riempimento del serbatoio.
- Evitare le partenze a freddo sotto carico: temperatura ambiente -15°C+60°C (5°F+140°F).
- Evitare strozzature e curve a piccolo raggio nelle tubazioni dell'impianto.

### Norme di manutenzione

- Ripristinare l'olio nel serbatoio dopo il primo avviamento dell'impianto.
- Eseguire una accurata pulizia dei tubi e di tutti i componenti dell'impianto.
- Eseguire una frequente pulizia del circuito sostituendo il fluido idraulico.

### Limiti funzionali dei motori elettrici in c.c.

I limiti funzionali del motore elettrico in C.C. si possono leggere sulle linee S2 + S3 dei diagrammi di prestazione raffigurati sul catalogo motori elettrici.  
La linea S2 determina il tempo limite di inserzione del motore elettrico in C.C. espresso in minuti.  
La linea S3 esprime il rapporto di intermittenza in%, che ha il valore S2 in un ciclo totale di lavoro (100%).  
N.B.: Per ciclo totale di lavoro si intende la somma dei minuti di lavoro S2 e i minuti di riposo che servono al motore per non superare mai i limiti di riscaldamento.

Calcolo del limite funzionale	Calcolo del tempo di lavoro
$S2 : S3 = Tt : 100$	$TL : S3 = Tt : 100$
$Tt = \frac{100 \times S2}{S3}$ dove Tt = Tempo totale ciclo di lavoro $Tp = \text{Tempo di pausa}$	$Tt = \frac{100 \times TL}{S3}$ dove TL = Tempo di lavoro qualsiasi purché non superi i limiti posti S2 $Tp = Tt - TL$
$Tp = Tt - S2$	

### Scelta del motore

- Per calcolare la potenza teorica (in kW) richiesta della pompa, utilizzare la seguente formula:

$$kW \text{ (teorica)} = \frac{Q \times P}{612} \quad \text{dove } Q = \text{Portata } \frac{dm^3}{min} \\ P = \text{Pressione } bar$$

### Caratteristiche dei fluidi idraulici

Tipi di fluido da impiegare: olio idraulico a base minerale con caratteristiche lubrificanti, antischiuma, anticorrosione, antiossidanti HL-HLP (ISO e UNI HM) - HV - HLPD secondo le norme DIN51524 parte 1-2.

Viscosità minima	15 cts (23°E / 77,39 SSU a 100°F)
Viscosità max. avviamento	800 cts (105,6°E / 3708 SSU a 100°F)
Viscosità max. di funzionamento	100 cts (13,2 E / 463,5 SSU a 100°F)
Campo di viscosità consigliato	25÷40 cts = (3,47÷5,35° E / 119,3÷186,3 SSU a 100°F)
Temperatura ammessa	max 80°C (176°F)
Temperatura raccomandata	30÷60°C (86÷140°F)

### Installation and use

- Carefully spot the hydraulic system and choose a proper power pack both for the pump displacement and the reservoir capacity. Equip the system with the adequate securities and trustable tools.
- The power pack can be mounted in all the stated positions, both in horizontal and in vertical position with the reservoir downwards: in case the power pack is mounted on structures or machines bearing vibrations or oscillations, vibration dampings must be used.
- Choose a proper reservoir for a correct suction of the pump and a working temperature of 60°C (80°C max).
- Choose a proper hydraulic fluid: it is suggested to filter the fluid at 25 ÷ 30 µ before filling the reservoir.
- Avoid to pressurize the power pack before its warming up: ambient temperature: -15°C+60°C (5°F+140°F).
- Avoid to throttle pipings and small bend radius.

### Maintenance

- Refill the reservoir with oil after the first starting-up.
- Carefully clean pipings and all the components of the system.
- Frequently clean the circuit replacing the hydraulic fluid.

### Service limits of the D.C. electric motors

The service limits of the D.C. electric motors can be read on the S2+ S3 lines of the relevant diagrams on the electric motors catalogue.  
The S2 line is stating the limit connection time in minutes of the D.C. electric motor.  
The S3 line is stating in % the intermittence ratio, having the S2 value in a total cycle of work (100%).  
Note: Total cycle of work means the sum of S2 working minutes and the rest minutes motor needs not to overheats.

Calculation of service limits	Calculation of working time
$S2 : S3 = Tt : 100$	$TL : S3 = Tt : 100$
$Tt = \frac{100 \times S2}{S3}$ Tt = Total time of working cycle Tp = Time of rest	$Tt = \frac{100 \times TL}{S3}$ TL = Any working time, but do not exceed the S2 limits $Tp = Tt - TL$
$Tp = Tt - S2$	

### Choice of the motor

- To calculate the the theoretic power (kW) the pump needs, please use the following formula:

$$kW \text{ (theoretic)} = \frac{Q \times P}{612} \quad Q = \text{Flow } \frac{dm^3}{min} \\ P = \text{Pressure } bar$$

### Specifications of the hydraulic fluids

Type of the fluid to use: mineral basis hydraulic oil with lubricating, antifoaming, anticorrosive, antioxidant HL-HLP (ISO and UNI HM)-HV-HLPD performances according to DIN51524 part 1-2 standards.

Minium viscosity	15 cts (23°E / 77,39 SSU at 100°F)
Max. viscosity at starting-up	800 cts (105,6°E / 3708 SSU at 100°F)
Max. Working viscosity	100 cts (13,2 E / 463,5 SSU at 100°F)
Suggested viscosity range	25÷40 cts = (3,47÷5,35° E / 119,3÷186,3 SSU a 100°F)
Allowed temperature	max 80°C (176°F)
Recommended temperature	30÷60°C (86÷140°F)



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**BREVINI<sup>®</sup>**

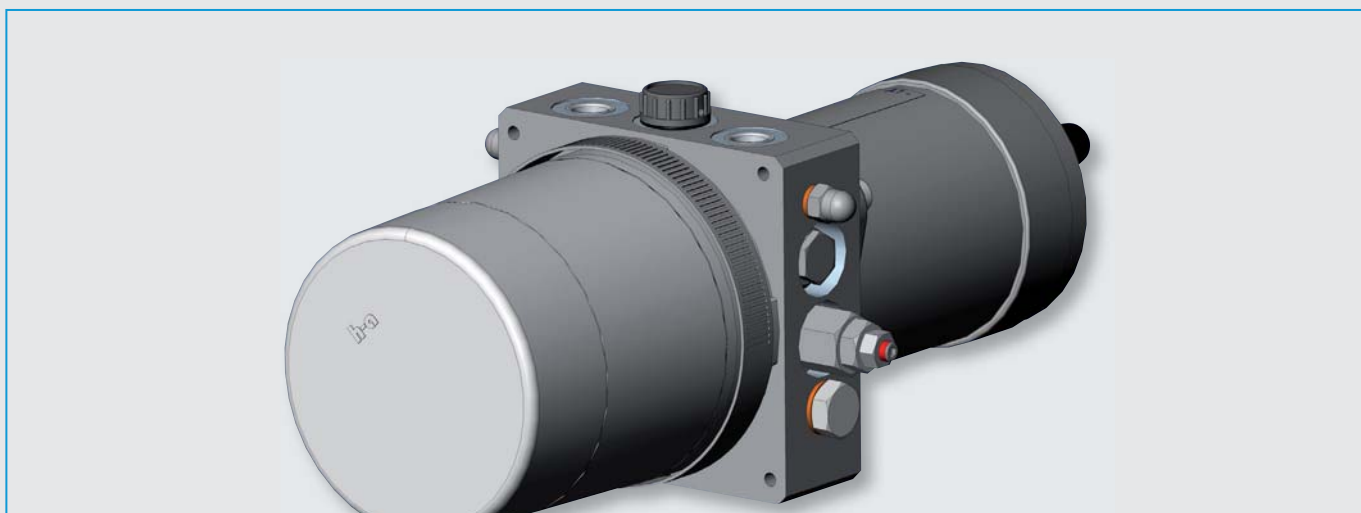
*Motion Systems*

## MW HYDRAULIC POWER UNIT

**Technical Catalogue**

January  
**2018**

*web edition*



# MW HYDRAULIC POWER UNIT

## ORDERING CODE

MW\* - A\* / A\* - P\* - M\*\* - T\*\* - F\*

Hydraulic power unit type		Page
<b>MW</b>	Standard	2
<b>MW1</b>	With cylinder differential volume drain and manual override	3
<b>MW2</b>	With cylinder differential volume drain	4

<b>A</b>	Pressure relief valve on <b>P1</b> (screw adjustment)
----------	---

Setting range		Page
<b>A</b>	25 ÷ 80 bar	2
<b>B</b>	75 ÷ 220 bar	
<b>C</b>	5 ÷ 30 bar	

<b>A</b>	Pressure relief valve on <b>P2</b> (screw adjustment)
----------	---

Setting range		Page
<b>A</b>	25 ÷ 80 bar	2
<b>B</b>	75 ÷ 220 bar	
<b>C</b>	5 ÷ 30 bar	

<b>P</b>	Reverse pump PHV 0.5
----------	----------------------

Nominal displacement		Page
<b>A</b>	0.25 cc/rev	5
<b>B</b>	0.45 cc/rev	
<b>C</b>	0.56 cc/rev	
<b>D</b>	0.75 cc/rev	
<b>J</b>	0.92 cc/rev	
<b>Z</b>	1.26 cc/rev	

Mounting type		Page
<b>0</b>	Verticale without tank	11 12 13 14
<b>1</b>	Horizontal	
<b>2</b>	Vertical	
<b>3</b>		
<b>4</b>		
<b>5</b>		

<b>F</b>	Mounting position tank
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Tank type		Page
<b>K05</b>	0.5 liters	11 12 12 13 13
<b>K1</b>	1 liter	
<b>H1</b>	1 liter	
<b>Q1</b>	1 liter	
<b>Q2</b>	2 liters	
<b>01</b>	1 liter	14
<b>02</b>	2 liters	
<b>03</b>	3 liters	
<b>05</b>	5 liters	
<b>06</b>	6 liters	
<b>08</b>	8 liters	

<b>T</b>	Tank
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<b>0-5-6-7-8</b>	Mounting position motors	Pages 8-6-10
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DC motors		Page	AC motors		Page
<b>GA</b>	12V CC - 0.35 kW	6	<b>R</b>	Size 63	10
<b>GB</b>	24V CC - 0.40 kW	6	<b>L</b>	Size 71	10
<b>HF</b>	12V CC - 0.50 kW	7	<b>M</b>	Size 80	10
<b>HE</b>	24V CC - 0.50 kW	7			
<b>GC</b>	12V CC - 0.70 kW	8			
<b>GD</b>	24V CC - 0.80 kW	8			
<b>GU</b>	12V CC - 0.80 kW	9			
<b>GZ</b>	24V CC - 0.80 kW	9			

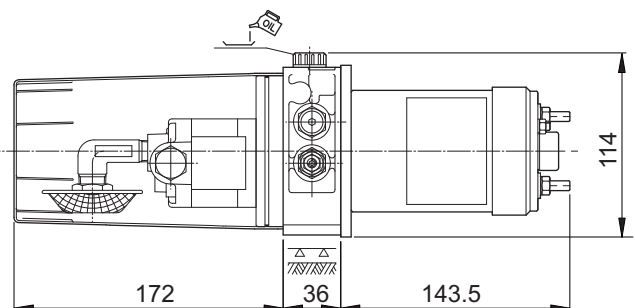
<b>M</b>	DC/AC motors
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## ORDERING CODE EXAMPLE

**MW- AA/AA- PB- MGB5- TK1-F1**

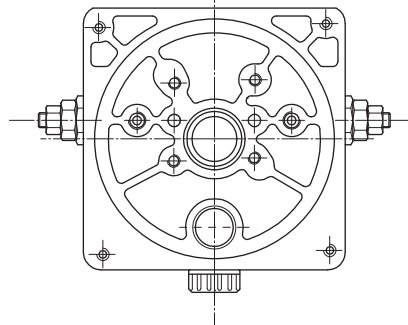
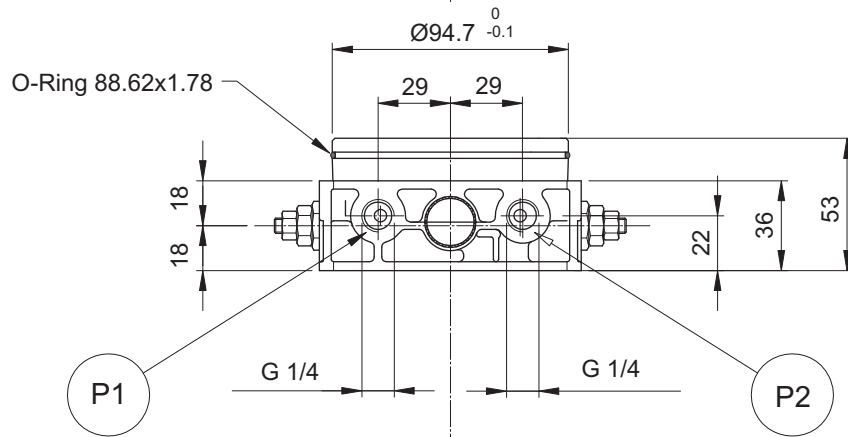
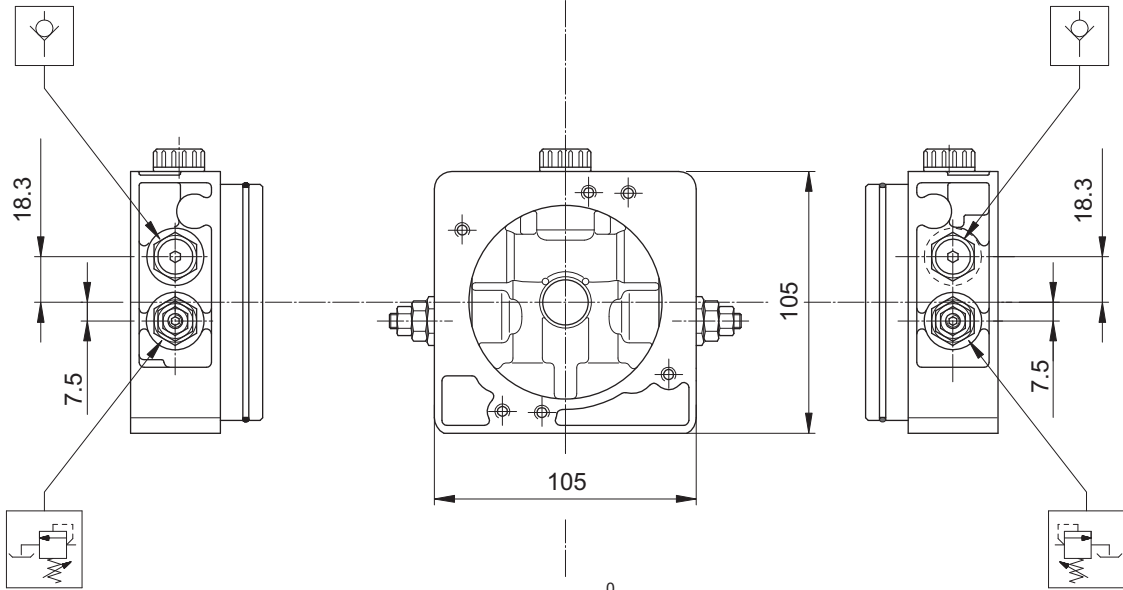
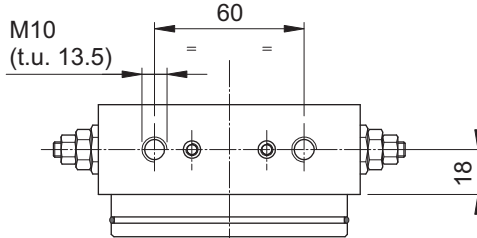
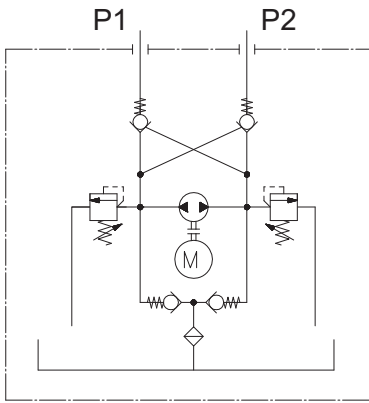
Hydraulic power unit type MW reversible type, with pressure relief valve on P1, setting 25 to 80 bar with adjustable screw, pressure relief valve on P2 setting 25 to 80 bar with adjustable screw, pump a 0.45 cc/rev, DC motor 24 Volt 0.4 kW in standard mounting position, standard 1-liter fuel tank mounted horizontally.

## STANDARD VERSION OVERALL DIMENSIONS



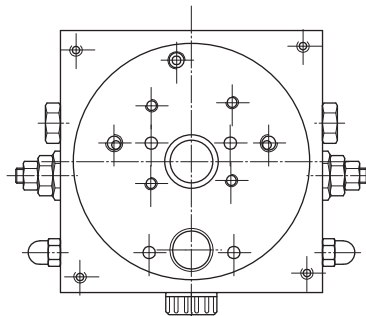
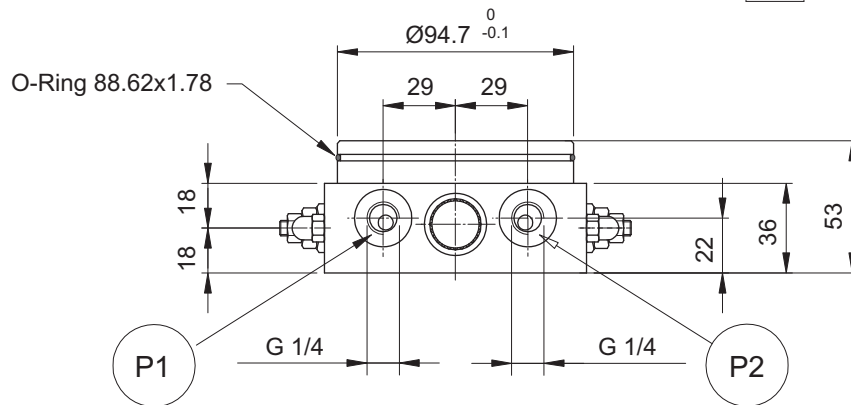
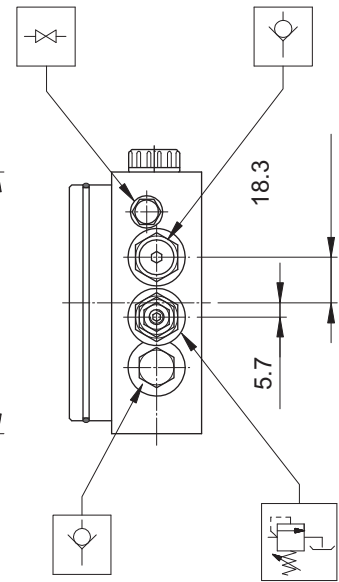
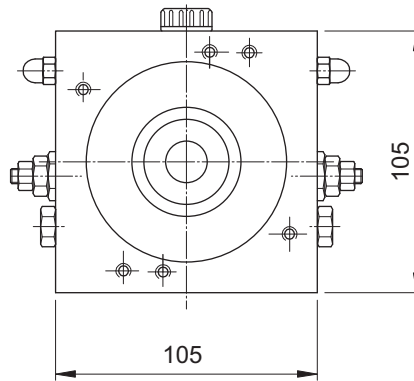
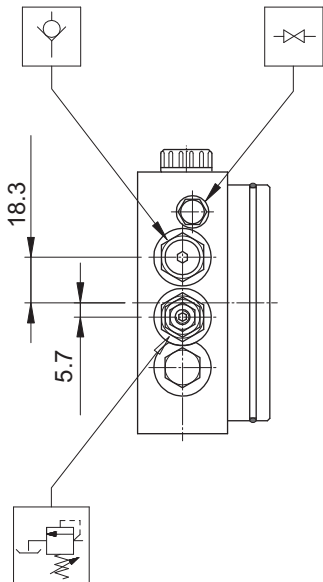
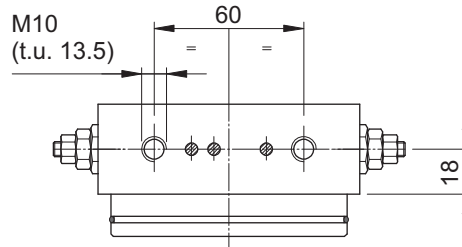
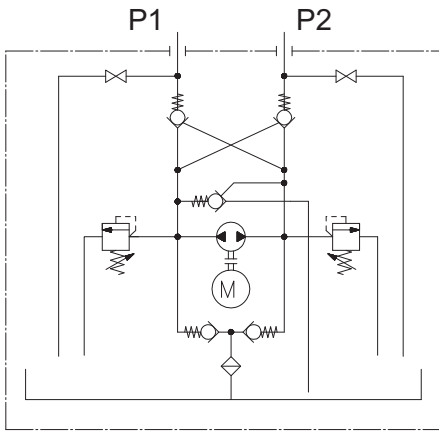
# MW HYDRAULIC POWER UNIT

## STANDARD VERSION



# MW1 HYDRAULIC POWER UNIT

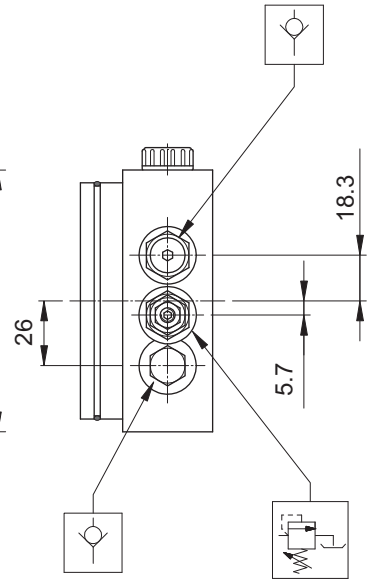
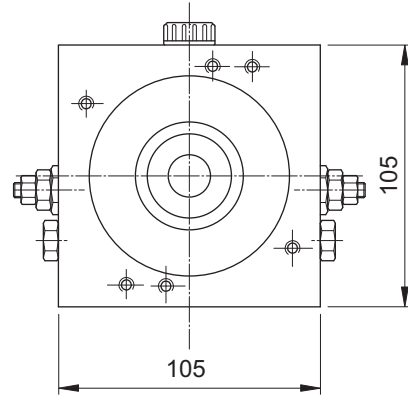
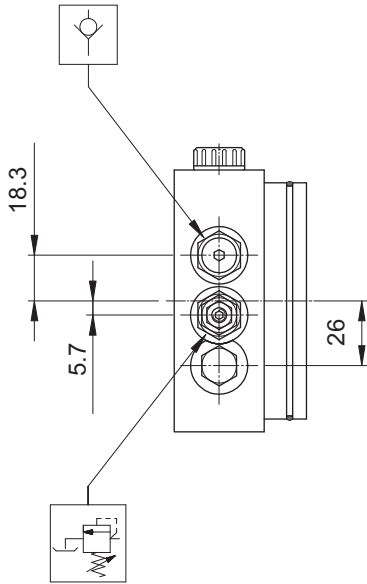
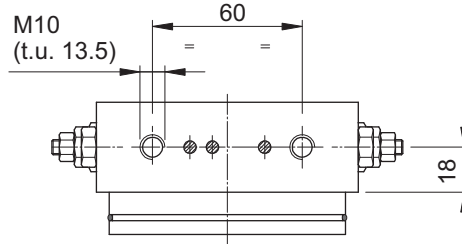
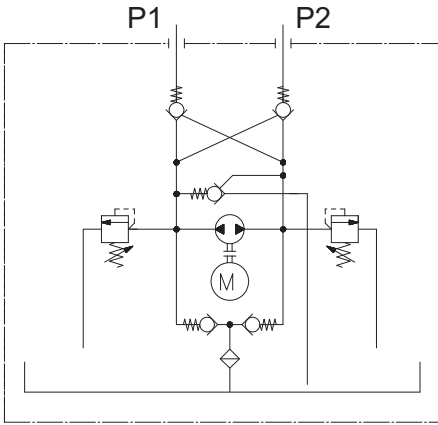
**WITH CYLINDER DIFFERENTIAL VOLUME DRAIN AND MANUAL OVERRIDE**



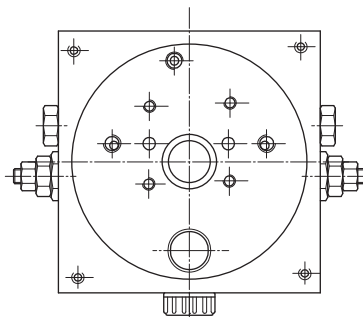
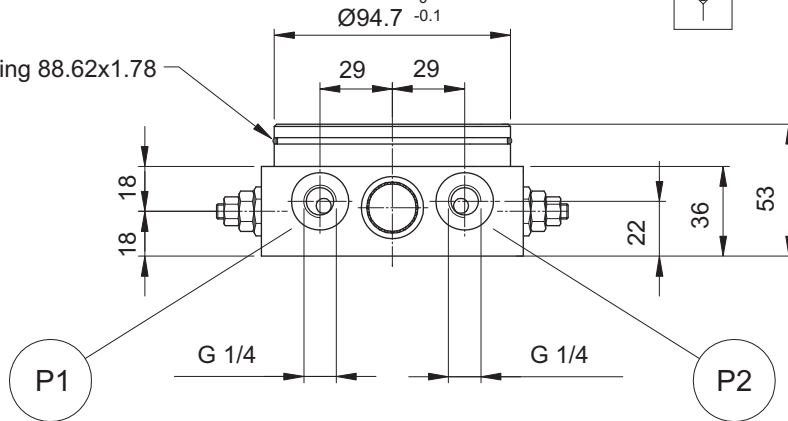


# MW2 HYDRAULIC POWER UNIT

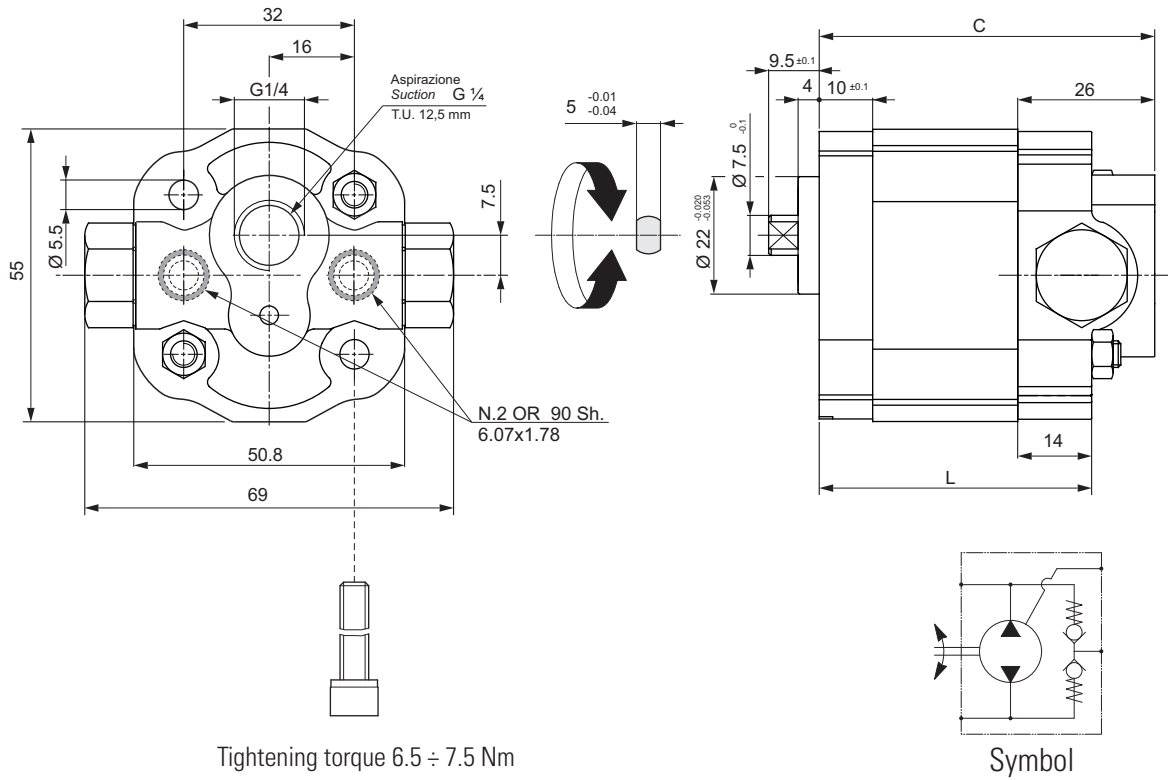
## WITH CYLINDER DIFFERENTIAL VOLUME DRAIN



O-Ring 88.62x1.78

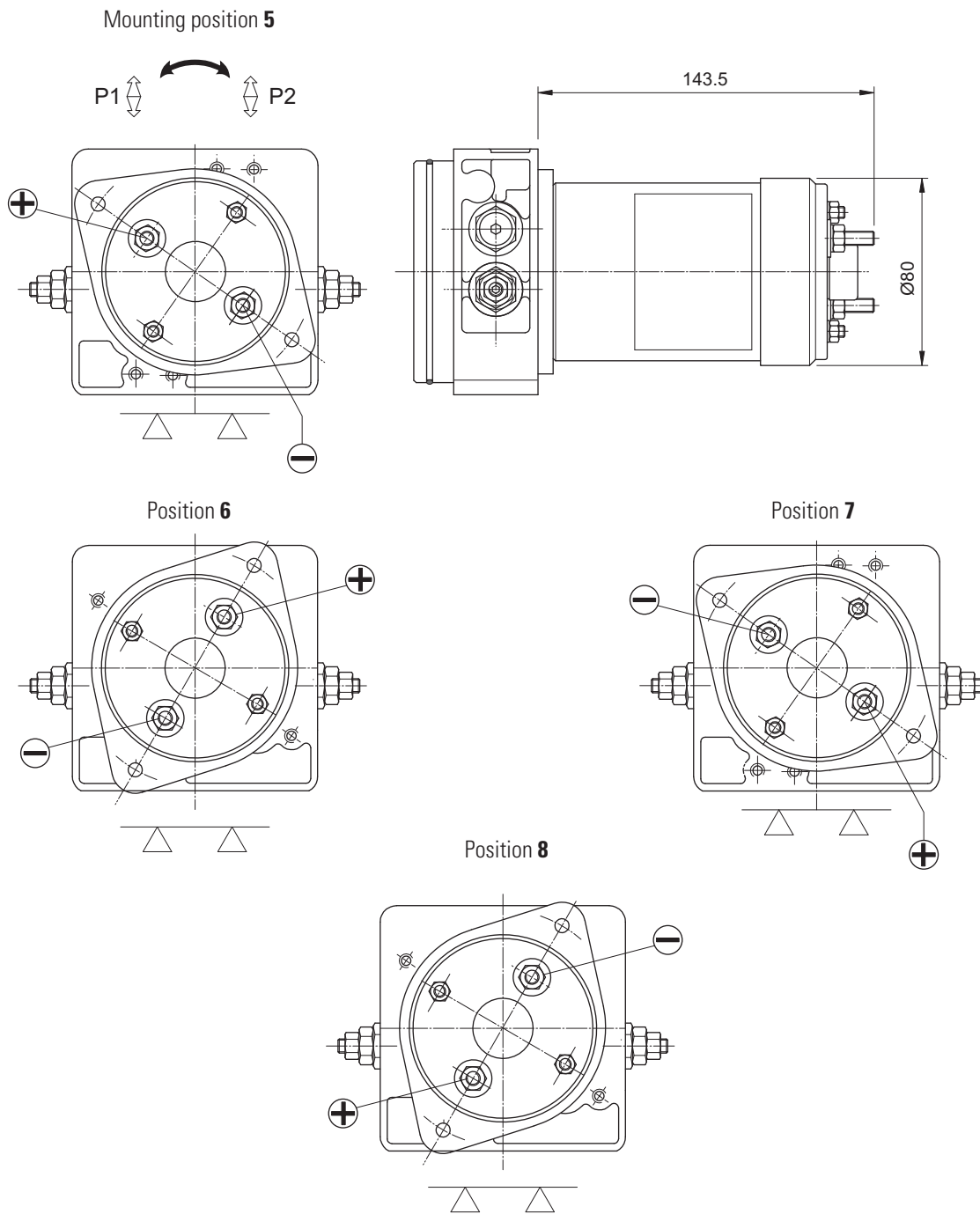


## PUMP GR 05 OVERALL DIMENSIONS



Code	Nominal displacement (cc/rev)	C (mm)	L (mm)	Pump code	Pump Kit code	Max working pressure (bar)	Peak pressure (bar)	Max RPM (rpm)
A	0.30	61.5	49.5	23006700.036	17050062.036	210	250	7000
B	0.50	63.2	51.2	23006800.036	17050063.036	210	250	7000
C	0.62	64.2	52.2	23006900.036	17050064.036	210	250	6500
D	0.84	66.0	54.0	23007000.036	17050065.036	210	250	6500
J	1.00	67.3	55.3	23008800.036	17050066.036	210	250	6000
Z	1.25	69.4	57.4	23007100.036	17050067.036	210	250	6000

## 12VDC 0.35 KW / 24VDC 0.40 KW MOTORS



For more details, features and performances DC motors, see catalog Dana Brevini cod. DOC00053.

### ORDERING CODE

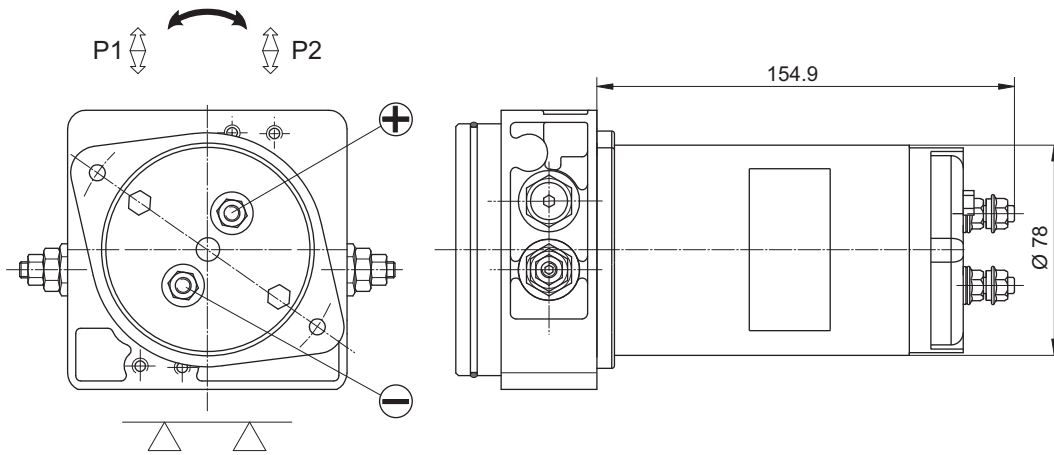
M	**	*	Code	Description	Motor
			<b>GA</b>	12VDC motor - 0.35 kW	25021400
			<b>GB</b>	24VDC motor - 0.40 kW	25021500

M	**	*	Code	Mounting position
			<b>5</b>	Position 5
			<b>6</b>	Position 6
			<b>7</b>	Position 7
			<b>8</b>	Position 8

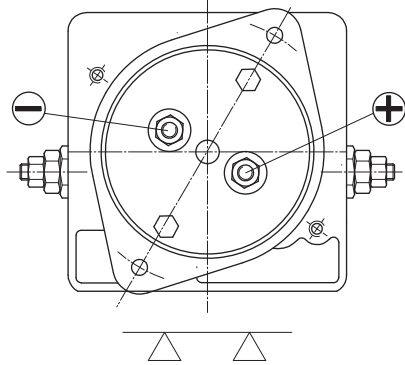
- DC motors permanent magnet
- Rotation CCW-CW
- Protection class IP54
- Insulation class F

## 12VDC 0.50 KW / 24VDC 0.50 KW MOTORS

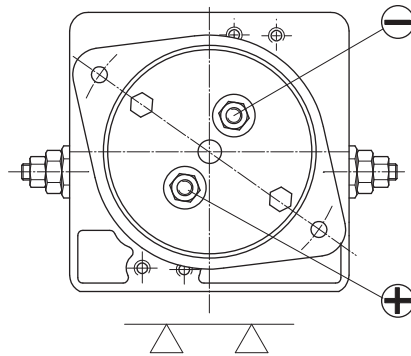
Mounting position 5



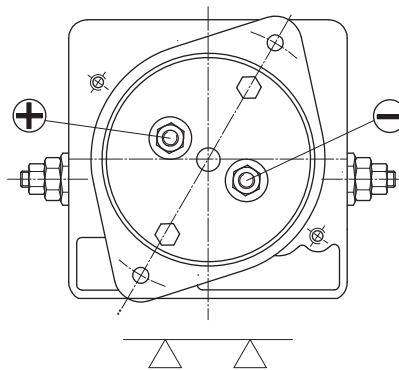
Position 6



Position 7



Position 8



For more details, features and performances DC motors, see catalog Dana Brevini cod. DOC00053.

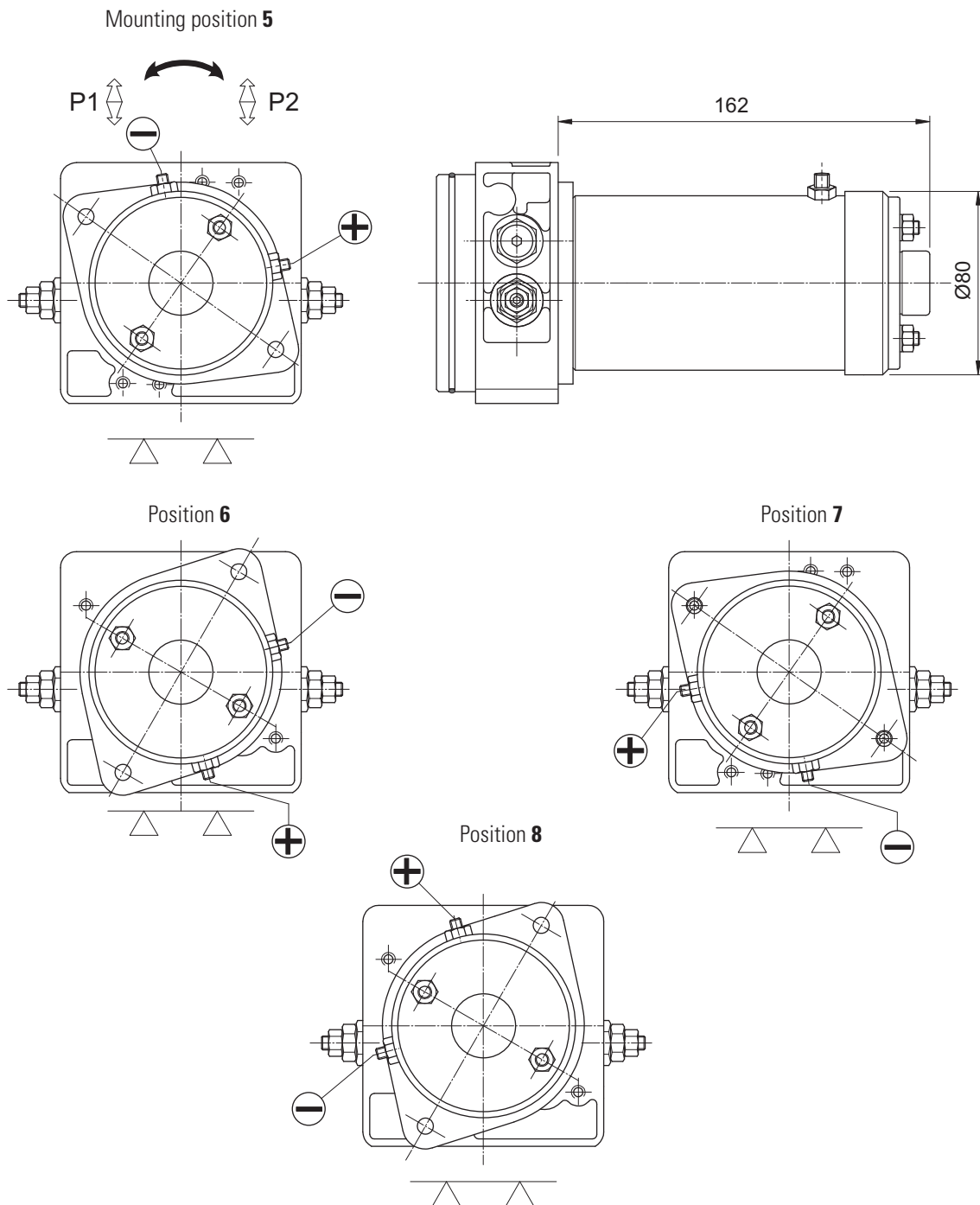
### ORDERING CODE

M	**	*	Code	Description	Motor
			HF	Motor 12VDC - 0.50 kW	25024200
			HE	Motor 24VDC - 0.50 kW	25024300

M	**	*	Code	Mounting position
			5	Position 5
			6	Position 6
			7	Position 7
			8	Position 8

- DC motors permanent magnet
- Rotation CCW-CW
- Protection class IP54
- Insulation class F

## 12VDC 0,7 KW / 24VDC 0,8 KW MOTORS



For more details, features and performances DC motors, see catalog Dana Brevini cod. DOC00053.

### ORDERING CODE

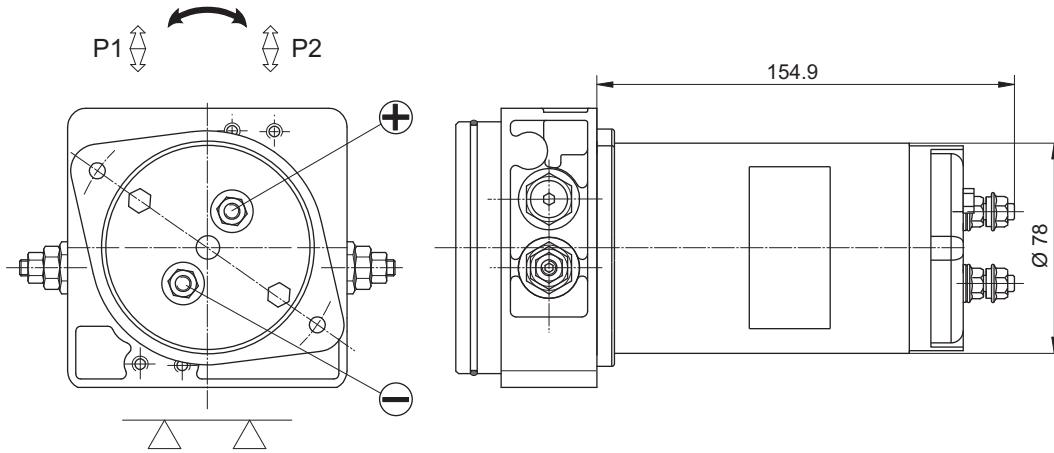
M	**	*	Code	Description	Motor
			<b>GC</b>	12VDC motor - 0.7 kW	25021600
			<b>GD</b>	24VDC motor - 0.8 kW	25021700

M	**	*	Code	Mounting position
			<b>5</b>	Position 5
			<b>6</b>	Position 6
			<b>7</b>	Position 7
			<b>8</b>	Position 8

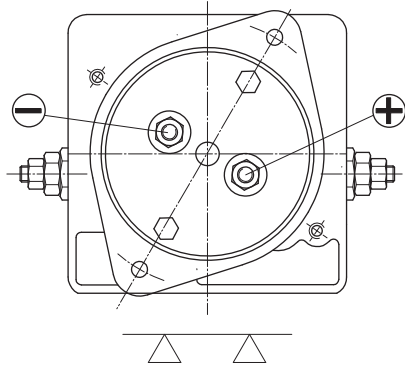
- DC motors permanent magnet
- Rotation CCW-CW
- Protection class IP54
- Insulation class F

## 12VDC 0.80 KW / 24VDC 0.80 KW MOTORS

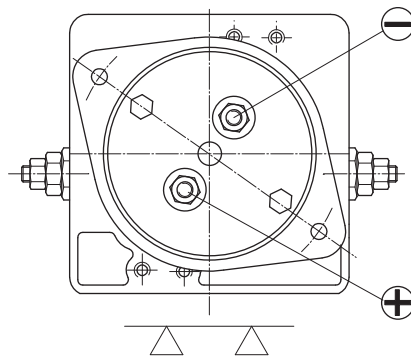
Mounting position 5



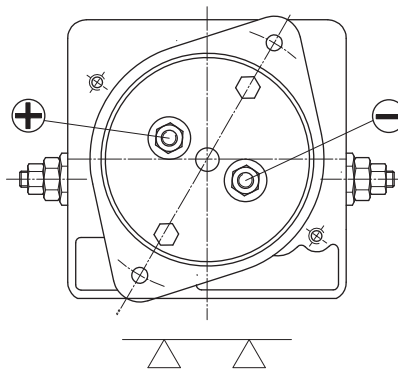
Position 6



Position 7



Position 8



For more details, features and performances DC motors, see catalog Dana Brevini cod. DOC00053.

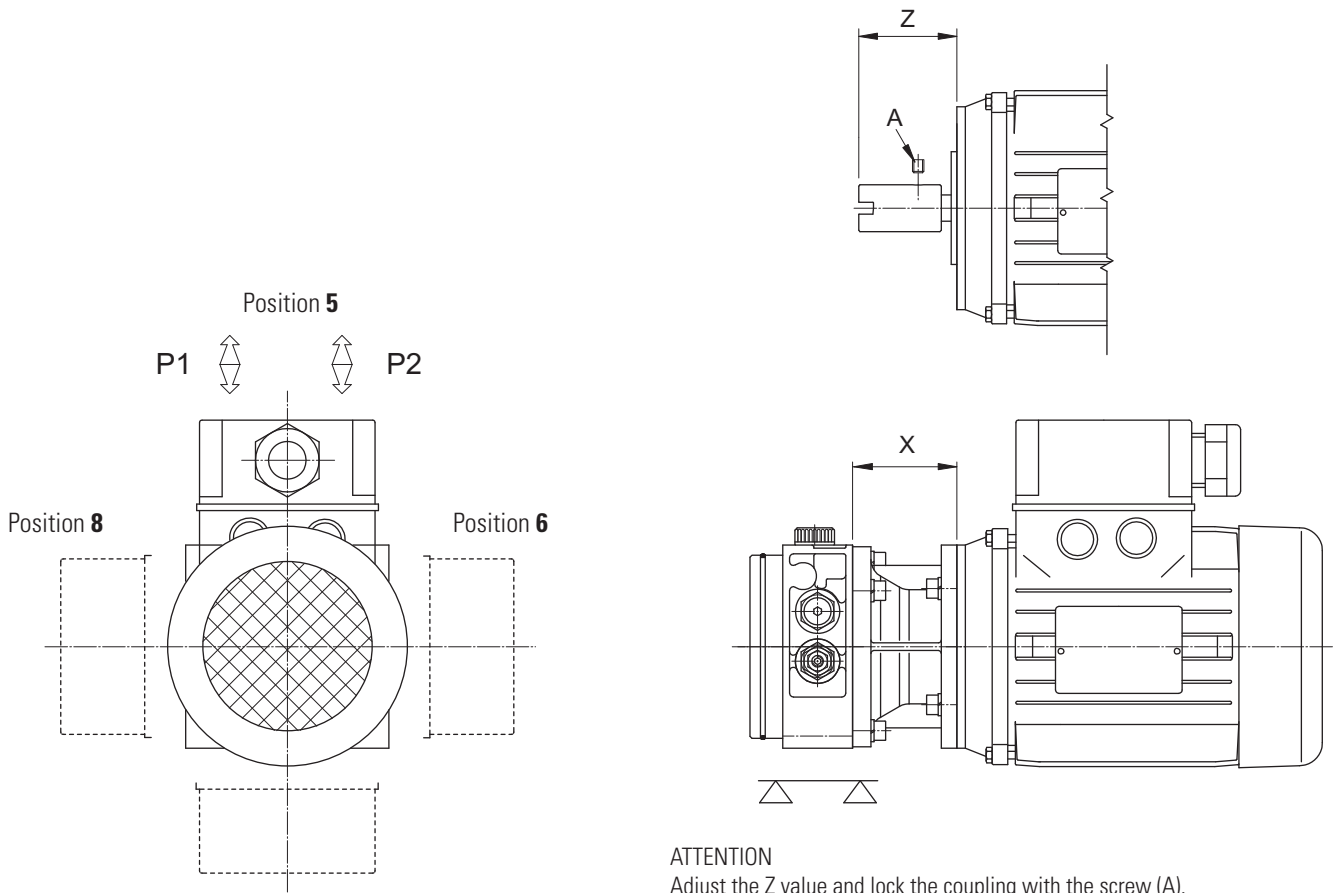
### ORDERING CODE

M	**	*	Code	Description	Motor
			<b>GU</b>	Motor 12VDC - 0.80 kW	25021800
			<b>GZ</b>	Motor 24VDC - 0.80 kW	25021900

M	**	*	Code	Mounting position
			<b>5</b>	Position 5
			<b>6</b>	Position 6
			<b>7</b>	Position 7
			<b>8</b>	Position 8

- DC motors permanent magnet
- Rotation CCW-CW
- Protection class IP54
- Insulation class F

## AC MOTOR - FRAME B14



**ATTENTION**

Adjust the Z value and lock the coupling with the screw (A).

- After the electrical connection, check the rotation direction for max 1 second (pump discharge), you will avoid irreparable damage to the pump.

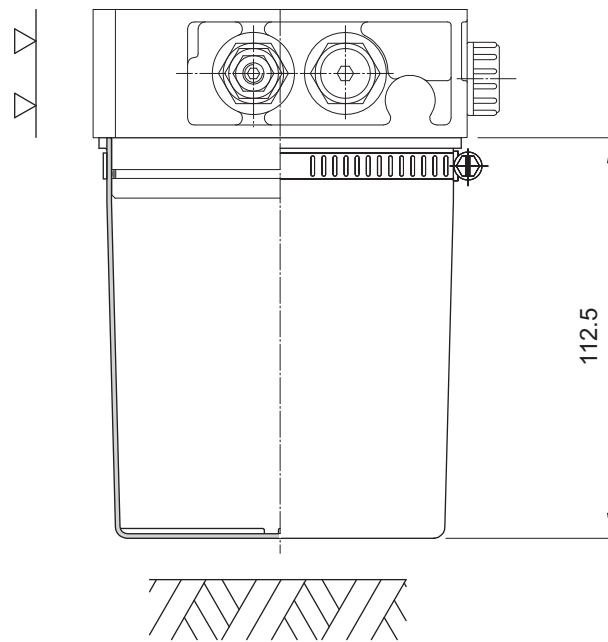
Code	Size	kW (2 poles)	kW (4 poles)	kW (6 poles)	Z (mm)	X (mm)	Frame
<b>R</b>	63	0.18 ÷ 0.25	0.12 ÷ 0.18	0.09 ÷ 0.12	42.8	54.7	B14
<b>L</b>	71	0.35 ÷ 0.55	0.25 ÷ 0.37	0.18 ÷ 0.25	42	53.9	
<b>M</b>	80	0.75 ÷ 1.10	0.55 ÷ 0.75	0.37 ÷ 0.55	53	54.7	

### ORDERING CODE

M	*	*	Code	Description	Motor kit
			<b>R</b>	Motore taglia 63	KIT02008.001
			<b>L</b>	Motore taglia 71	KIT02008.002
			<b>M</b>	Motore taglia 80	KIT02008.003

M	**	*	Code	Mounting position
			<b>0</b>	Without motor
			<b>5</b>	Position 5
			<b>6</b>	Position 6
			<b>7</b>	Position 7
			<b>8</b>	Position 8

## NYLON TANK TK05



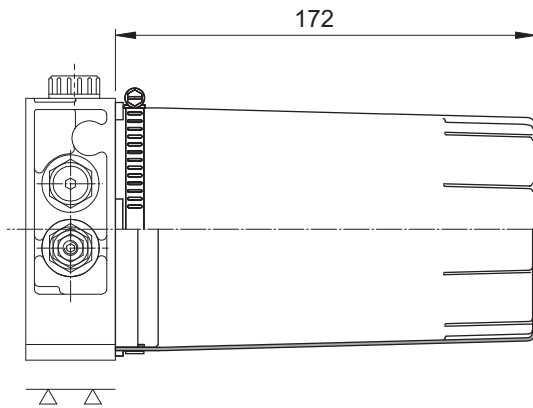
### ORDERING CODE

T	K05*	<b>Code</b>	<b>Capacity</b> (nominal lt.)	<b>Tank type</b>	<b>Tank kit</b>	F	*	<b>Code</b>	<b>Mounting position</b>
		K05	0.5	Nylon (visual oil level)	90310177			02	Vertical

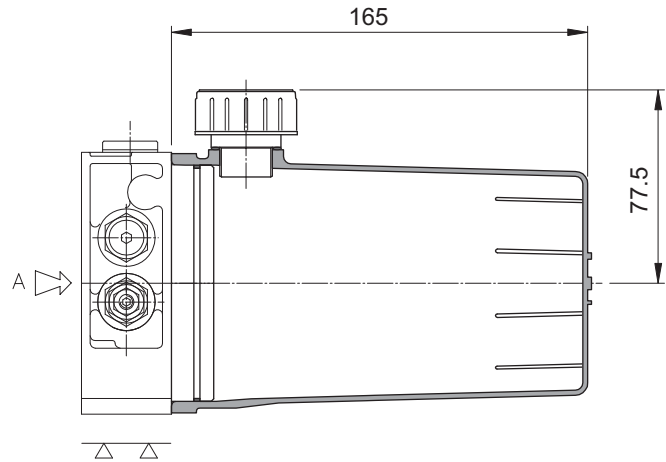


## NYLON TANK TK1 - TH1

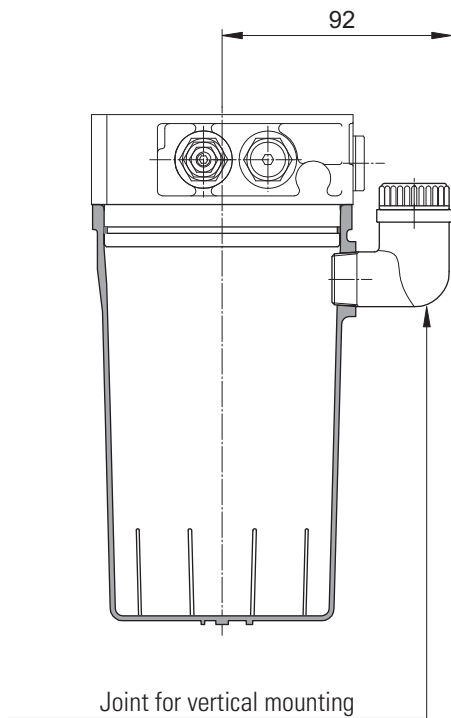
Tank **TK1** (horizontal)



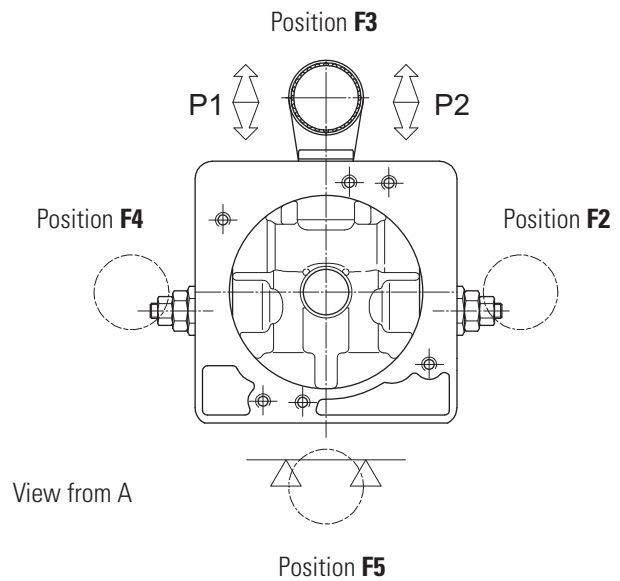
Tank **TH1** (horizontal)



Tank **TH1** (vertical)



### Mounting position

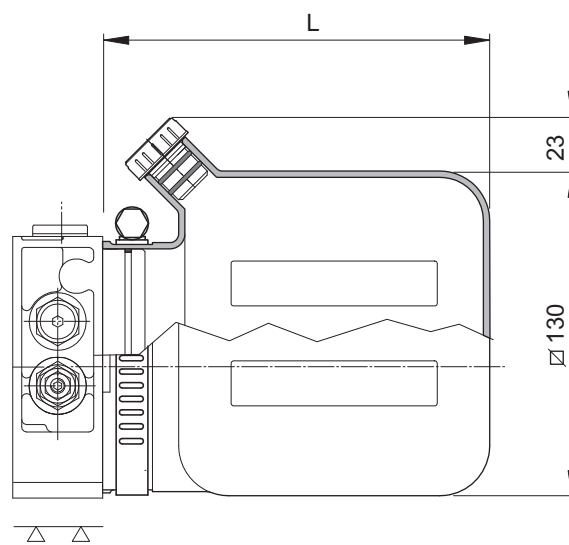


### ORDERING CODE

T	*	*	Code	Capacity (nominal lt.)	Tank type	Tank kit
			<b>K1</b>	1	Nylon (visual oil level)	90310104
			<b>H1</b>	1	Nylon tank reinforced with fiberglass (visual oil level)	90310065 Horizontal
						90310066 Vertical

F	*	Code	Type	Mounting position	
			TK1	TH1	
		<b>0</b>	X	—	Vertical without tank
		<b>1</b>	X	X	Horizontal
		<b>2</b>	X	X	Vertical (referred to the filling cap)
		<b>3</b>	—	X	
		<b>4</b>	—	X	
		<b>5</b>	—	X	

## NYLON TANK Q1 - Q2



### ORDERING CODE

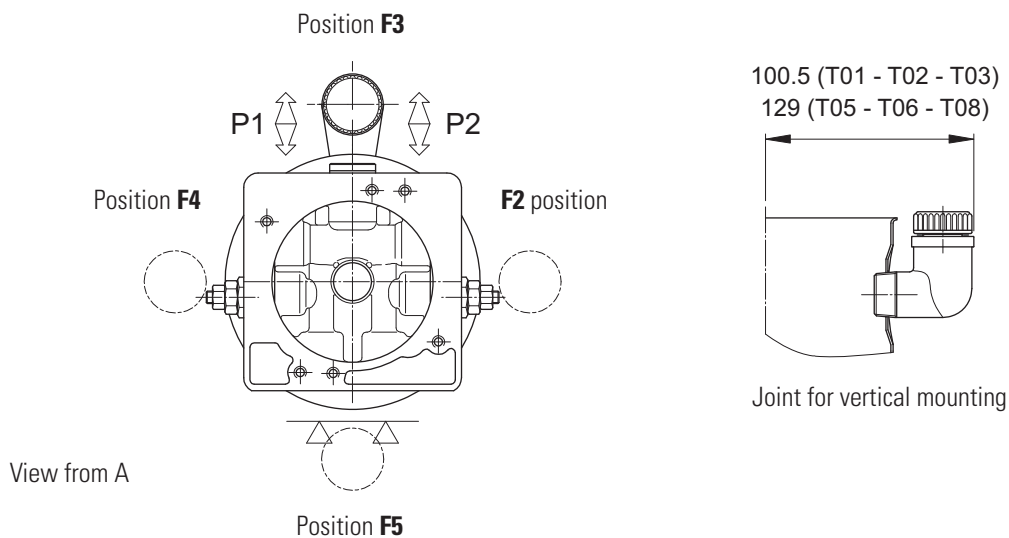
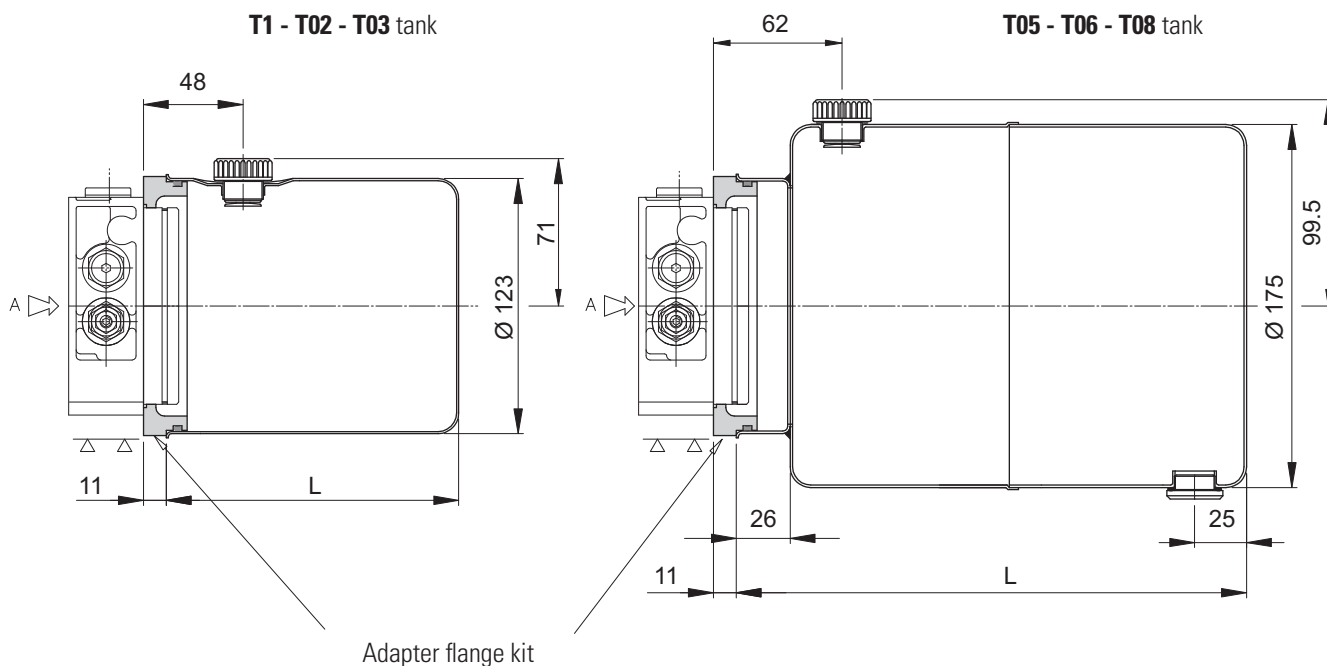
T \* \*

Code	Capacity (nominal lt.)	Tank type	L (mm)	Tank kit
<b>Q1</b>	1	In nylon (livello olio visivo)	155	90310278
<b>Q2</b>	2	In nylon (livello olio visivo)	223	90310279

F \*

Code	Mounting position
<b>0</b>	Vertical without tank
<b>1</b>	Horizontal
<b>2</b>	Vertical (referred to the filling cap)
<b>3</b>	
<b>4</b>	
<b>5</b>	

## STEEL TANKS T01 - T02 - T03 - T05 - T06 - T08



### ORDERING CODE

T	*	*	Code	Capacity (nominal lt.)	Tank type	L (mm)	Tank kit		Flange kit
							horizontal	vertical	
			<b>01</b>	1	Steel	141	90310000	90310009	17010022
			<b>02</b>	2	Steel	200	90310001	90310010	
			<b>03</b>	3	Steel	330	90310002	90310011	
			<b>05</b>	5	Steel	246	90310003	90310012	17010051
			<b>06</b>	6	Steel	308	90310004	90310013	
			<b>08</b>	8	Steel	370	90310005	90310014	

F	*	Code	Mounting position
		<b>0</b>	Vertical without tank
		<b>1</b>	Horizontal
		<b>2</b>	Vertical (referred to the filling cap)
		<b>3</b>	
		<b>4</b>	
		<b>5</b>	