



Componenti per Minicentraline
Components for micropowerpack

Con il fine di migliorare costantemente la qualità dei nostri prodotti, ci riserviamo il diritto di modificarne in qualsiasi momento le caratteristiche.

With the aim to constantly improve our products quality, we have the right to modify at any moment their features.

MCR - BLOCCO CENTRALE MCR - CENTRAL MANIFOLD

La **OMT** ha studiato e prodotto una serie di componenti per la realizzazione di Minicentraline della serie **MCR**.

Questa serie permette all'utilizzatore di poter approntare un impianto oleodinamico semplice, versatile, compatto, economico e nel contempo affidabile.

La serie **MCR** si compone di un blocco centrale, realizzato nelle seguenti versioni:

- SEMPLICE EFFETTO
- DOPPIO EFFETTO
- DOPPIO EFFETTO CON POMPA MANUALE DI EMERGENZA
- REVERSIBILE.

Predisposto per montaggio di pompe oleodinamiche ad ingranaggi del **Gr.0 e Gr.1** accoppiate a motori in **C.A.** versione con flangia **B14** e motori in **C.C. 12/24 Volt**, tipo **Iskra**.

Tale blocco è predisposto per l'inserimento di valvole di massima pressione ed elettrovalvole. La trasmissione della potenza avviene per mezzo di un giunto rigido. Inoltre esiste un'ampia scelta di serbatoi sia per il montaggio in orizzontale che in verticale. Con i serbatoi di forma circolare occorre utilizzare una apposita staffa di appoggio.

A completamento è prevista una serie di tubi (aspirazione e scarico) e filtri, appositamente studiati in funzione del tipo di pompa e dei serbatoi utilizzati.

O.M.T. has developed a range of components for the assembly of micro powerpacks, the **MCR** series.

Their design permits the assembling of different versions with the result of a simple, compact, reliable and highly competitive product.

The **MCR** manifolds are available in the following versions:

- SINGLE EFFECT
- DOUBLE EFFECT
- DOUBLE EFFECT WITH EMERGENCY HANDPUMP
- REVERSE FLOW.

Made of high quality aluminium alloy it permits to mount **Gr. 0 and Gr. 1** standard gear pumps with **AC** electric motors (B14 standard motors) and **DC** motors (**12/24 V, ISKRA** brand).

It can be supplied fully machined with built-in adjustable relief valve and check valve on pressure port.

Power transmission from pump to motor is through a rigid monolithic coupling.

A large range of oiltanks is available for use in both horizontal and vertical installation.

To complete the range of components, various tubes (inlet/outlet) and filters have been developed to suit the different types of pumps and employed oiltanks.

MATERIALI

- Alluminio:** Blocco centrale, flange motori, blocchetti di connessione e serbatoi (CP).
- Acciaio con verniciatura antiolio:** Serbatoi (SER).
- Acciaio:** Tubi di aspirazione e scarico, valvole di sicurezza e di ritegno, staffa, giunto rigido, valvole di massima pressione.
- Acciaio/Ottone:** Filtri in aspirazione.
- Buna-N:** Guarnizioni.

MATERIALS

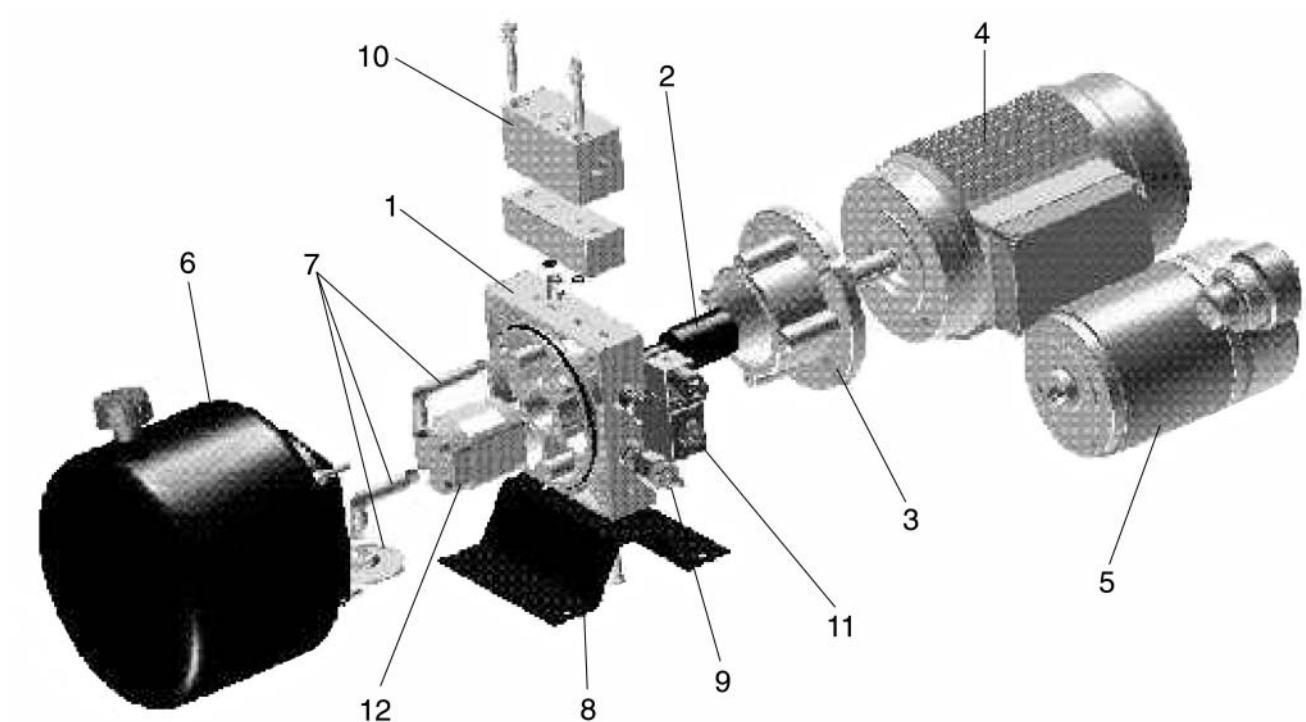
- Aluminium:** Central manifolds, motor flanges, modular elements, oil tanks (CP type).
- Painted steel:** Oiltanks (SER).
- Steel:** Inlet and outlet tubes, safety and check valves, foot flanges, rigid couplings, relief valves.
- Steel / Brass:** Suction filters.
- Nitrile (Buna-N):** Gaskets.

I particolari di tale centralina, sono compatibili con oli minerali (tipo HH - HM - HR - HV - HG secondo ISO 6743/4) in un campo di temperatura compreso tra i -15°C e +80°C.

All the employed components are compatible with mineral oils (types HH - HM - HR - HV - HG according to ISO 6743/4).

Working temperature: -15°C e +80°C.

A series of 25 horizontal light blue lines for taking notes.



LEGENDA

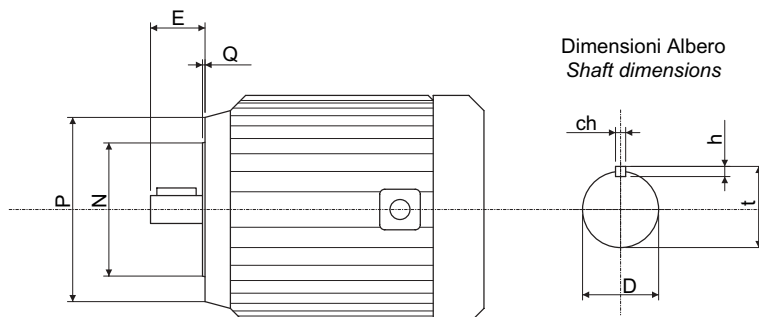
- 1 - Blocco centrale
- 2 - Giunto
- 3 - Flangia motore
- 4 - Motore in c.a.
- 5 - Motore in c.c.
- 6 - Serbatoio olio
- 7 - Kit filtro e tubi
- 8 - Staffa
- 9 - Valvola di massima pressione
- 10 - Blocchetti di collegamento
- 11 - Elettrovalvola
- 12 - Pompa a ingranaggi

DESCRIPTION

- 1 - Central manifold
- 2 - Coupling
- 3 - Motor flange
- 4 - A.C. motor
- 5 - D.C. motor
- 6 - Oiltank
- 7 - Kit filter and tubes
- 8 - Foot flange
- 9 - Relief valve
- 10 - Modular elements
- 11 - Electric valve
- 12 - Gear pump

MOTORI UNIFICATI / STANDARD MOTORS

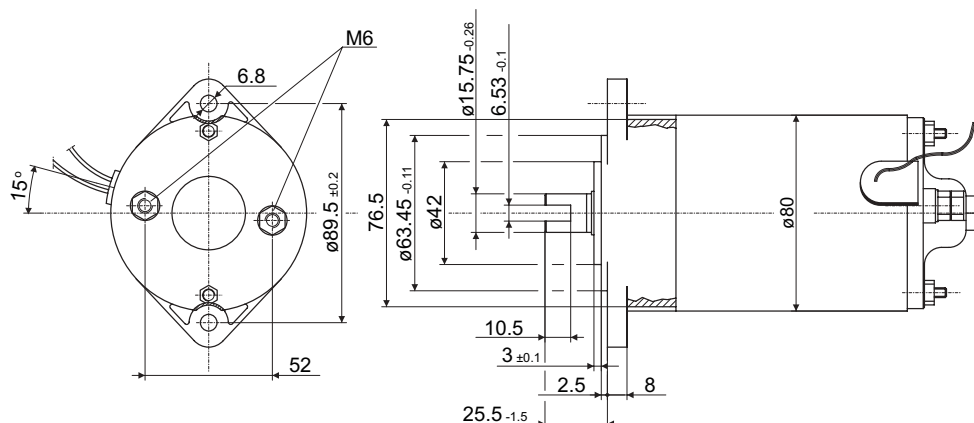
Flangia tipo B14 / Flange series B14



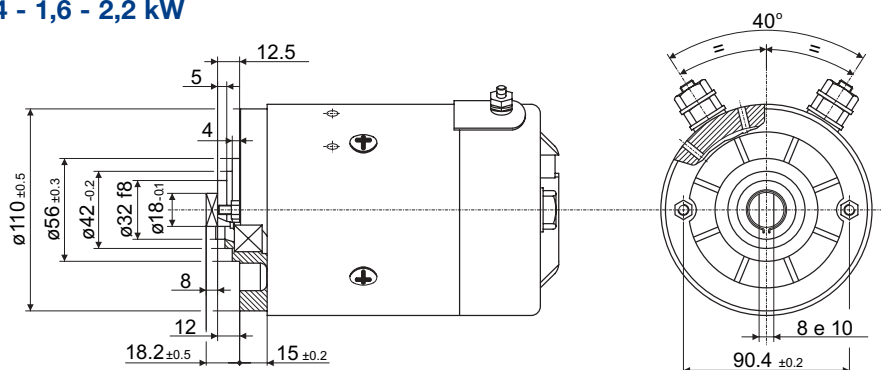
Potenza / Power motor					Dimensioni / Dimensions							
Taglia Size	2 Poli/Poles		4 Poli/Poles		Dimensioni flangia / Flange dimensions			Dimensioni albero / Shaft dimensions				
	2900 giri/1'/revs/min		1450 giri/1'/revs/min		P	N	Q	D	E	ch	h	t
	kW	Hp	kW	Hp								
63	0.185 0.25	0.24 0.35	0.12 0.185	0.16 0.25	90	60	2.5	11	23	4	4	12.5
71	0.37 0.55	0.55 0.75	0.25 0.37	0.35 0.55	105	70		14	30	5	5	16
80	0.75 1.1	1 1.5	0.55 0.75	0.75 1	120	80	3	19	40	6	6	21.5
90S	1.5	2	1.1	1.5	140	95		24	50	8	7	27
90L	2.2	3	1.5	2								
100L	3	4	2.2 3	3 4	160	110	3.5	28	60			31
112M	4	5.5	4	5.5								

MOTORI IN CORRENTE CONTINUA / DC MOTORS

12/24V - ø80 - 0,15 - 0,5 - 0,8 kW

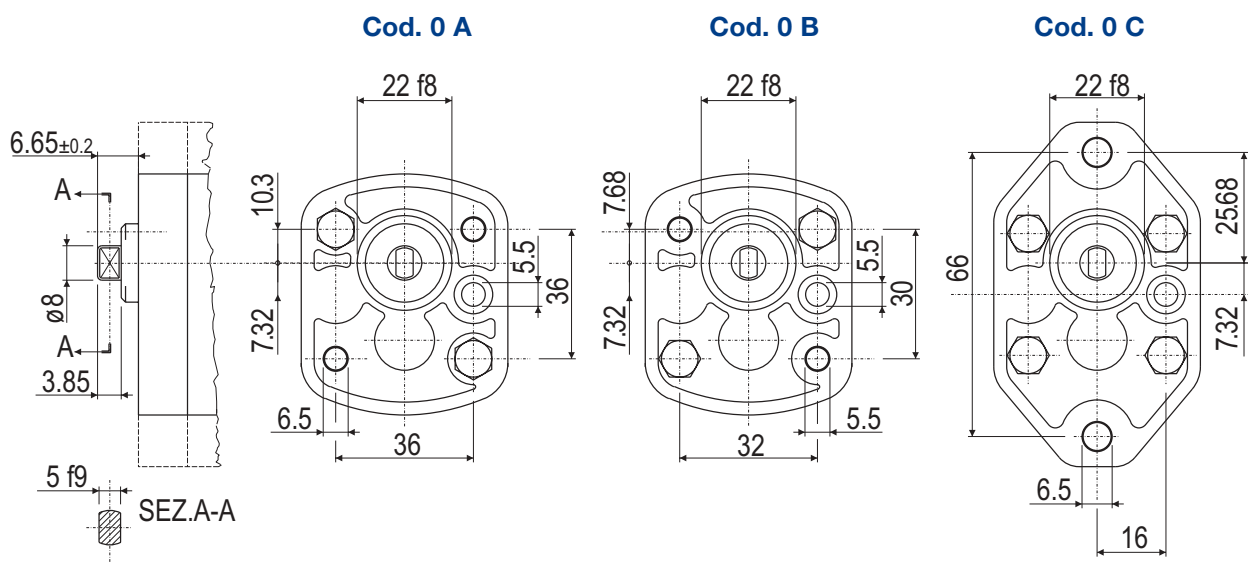


12/24V - ø114 - 1,6 - 2,2 kW



Pompe gruppo 0,5 / Group 0.5 pump

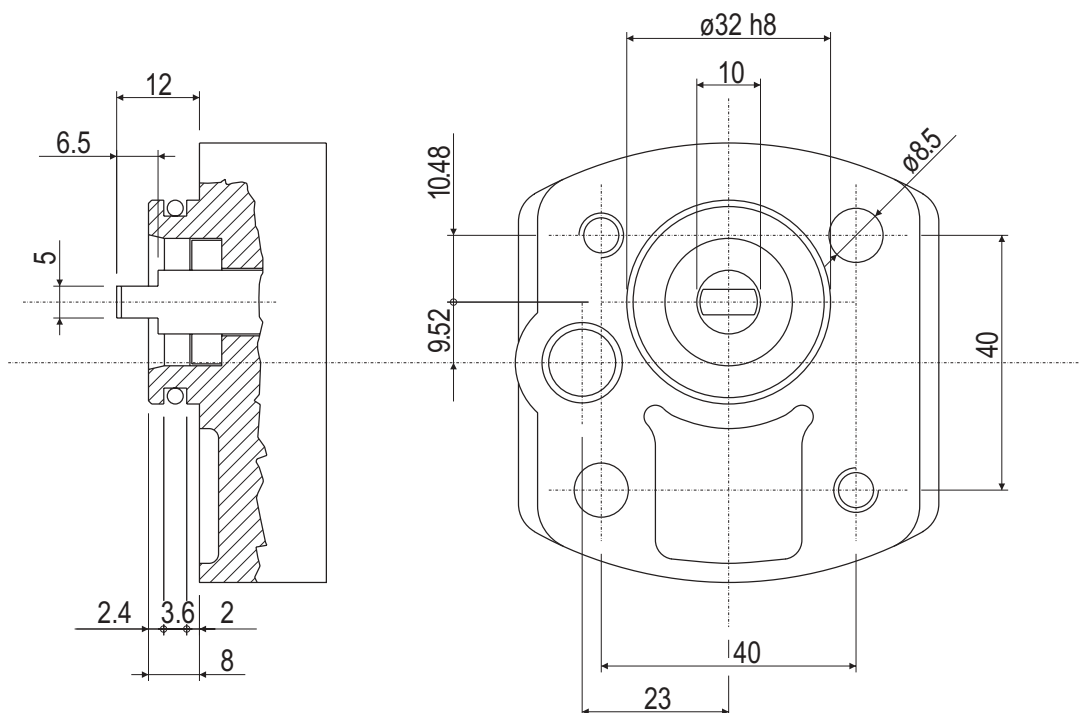
Riferimento pompa / Pump reference



Cod. 0 D (Comprende tutte le forature sopraindicate) / (Including all the a.m. drillings)

Pompe gruppo 1 / Group 1 pump

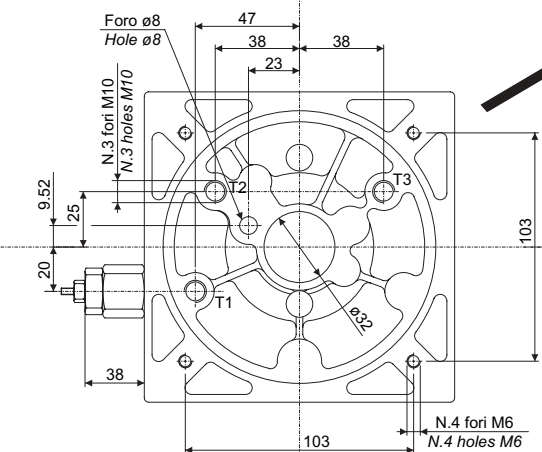
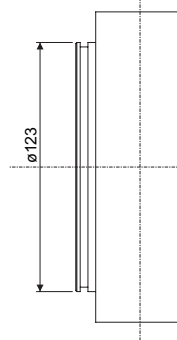
Riferimento pompa / Pump reference Cod. 1 A



Technical drawing showing a mechanical assembly. A bolted joint is shown on the left, with a dimension of 20 indicated for the height of the bolt head. To the right, a plate is shown with two holes. The holes are labeled "N.2 fori M8" and "N.2 holes M8". The distance between the center of the bolt and the center of the first hole is 82.

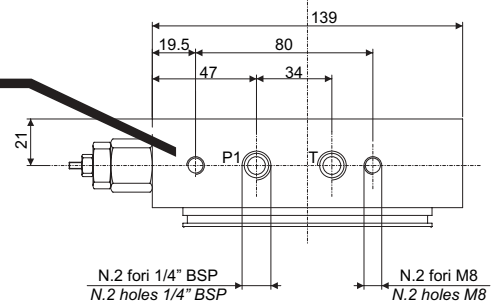
Technical drawing of a mechanical part showing dimensions and tolerances. The drawing includes the following specifications:

- Overall length: 32
- Distance from left face to start of first step: 19.7
- Distance from left face to start of second step: 17.7
- Distance from left face to start of third step: 12.7
- Distance from left face to start of fourth step: 2.7
- Distance from left face to start of fifth step: 0.2
- Thread specification: $\phi 12.7 \text{ H7}$ and $3/4'' - 16 \text{ UNF } 2 \text{ B}$
- Internal thread specification: $\phi 20.7$
- External thread specification: $\phi 28$
- Angles: 15° , 15° , and 45°



Predisposizione per attacchi
blocco "CETOP 3
Arranged for "CETOP 3 elements

N	Non sono presenti fori di fissaggio Without fixing holes
S	Sono presenti N. 2 fori M8 With N. 2 fixing holes



The diagram illustrates a 3-phase 4-wire system with a grounded neutral. It shows three phase conductors (A, B, C) and a neutral conductor (N). The phase conductors are labeled 'MCR' and 'SE' for the first phase, and '0A', '0B', '0C', '0D', '1A' for the second phase. The neutral conductor is labeled 'N' and 'S'. The diagram is titled '(Rif. "A")', '(Rif. "B")', and '(Rif. "C")'.

1	Motori in C.C. (vedi pag. 04) / D.C. motors (see pag. 04)
2	Motori in C.A. Tg. 63, 71 / A.C. motors Size 63, 71
3	Motori in C.A. Tg. 80, 90, 100 - 112 A.C. motors size 80, 90, 100 - 112
4	Tutti i motori in C.C. e C.A. Tg. 63, 71, 80, 90, 100, 112 All D.C. and C.A. motors Size 63, 71, 80, 90, 100, 112

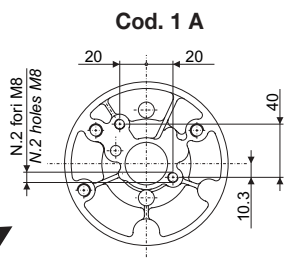
BLOCCO CENTRALE "SEMPLICE EFFETTO" CENTRAL MANIFOLD "SIMPLE EFFECT"



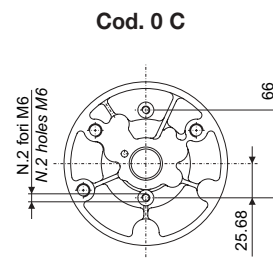
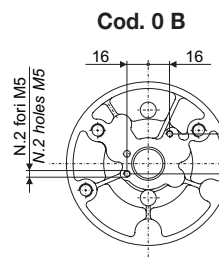
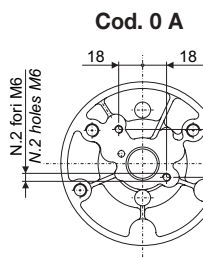
Rif. "B"

Blocchi predisposti per pompe a rotazione sinistra / Central manifold arranged for anticlockwise rotation pumps

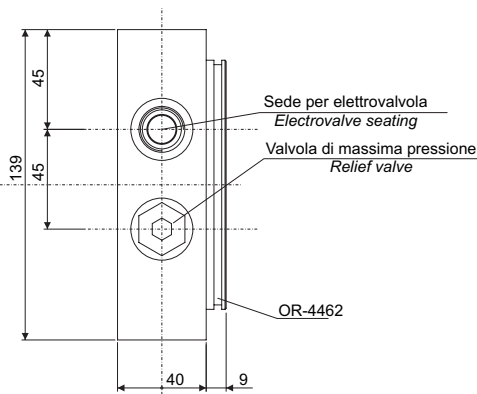
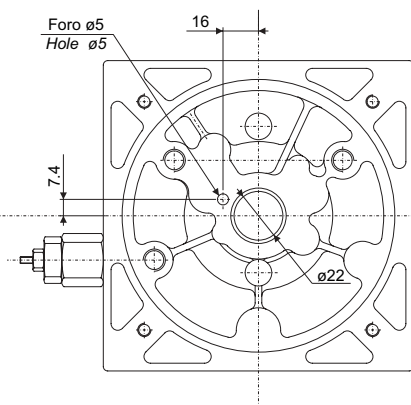
Foratura per pompe gr. 1
Drilling for pumps gr. 1



Forature per pompe gruppo 0,5 / Drilling for pumps group 0.5

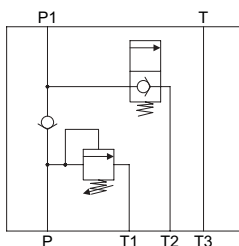


Cod. 0 D: Comprende tutte le forature del gruppo 0,5 / Including all group 0.5 drillings

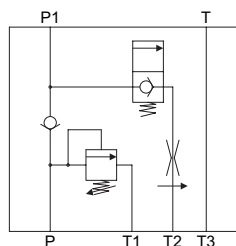


Rif. "A"

Semplice effetto
Simple effect



Semplice effetto con strozzatore compensato
Simple effect with compensated throttle valve



Per l'ordinazione dello strozzatore compensato inserito nel tubo di scarico dell'elettrovalvola guardare a pag. 18

To order the compensated throttle valve inserted in the discharge tube see pag. 18

Esempio codice completo
Complete part number example

MCR — SE — 1A — N4

- Il blocco centrale viene fornito con la valvola di ritegno (MCR-VR14) e la guarnizione per il serbatoio (OR-4462).
- La valvola di max. va ordinata separatamente. (vedi pag. 06)
- La OMT non fornisce l'elettrovalvola.

- The central manifold is always supplied with chek valve (MCR-VR14) and the tank gasket (OR-4462).
- To order the relief valve on pressure port and the hand pump. (see pag. 06)
- OMT doesn't supply electrovalves.

Technical drawing of a shaft with a diameter of 123 mm. The drawing shows a cross-section of the shaft with a central hole. The diameter is indicated by a dimension line with arrows pointing to the hole's edges, labeled with the symbol $\varnothing 123$.

[illegible]

Predisposizione per attacchi blocco "CETOP 3 Arranged for "CETOP 3 elements	
N	Non sono presenti fori di fissaggio Without fixing holes
S	Sono presenti N. 2 fori M8 With N. 2 fixing holes

[illegible]

MCR — — —

(Rif. "A") (Rif. "B") (Rif. "C")

DE

DP

0A

0B

0C

0D

1A

N

S

1	Motori in C.C. (vedi pag. 04) / D.C. motors (see pag. 04)
2	Motori in C.A. Tg. 63, 71 / A.C. motors Size 63, 71
3	Motori in C.A. Tg. 80, 90, 100 - 112 A.C. motors size 80, 90, 100 - 112
4	Tutti i motori in C.C. e C.A. Tg. 63, 71, 80, 90, 100, 112 All D.C. and C.A. motors Size 63, 71, 80, 90, 100, 112

BLOCCO CENTRALE DOPPO EFFETTO CENTRAL MANIFOLD "DOUBLE EFFECT"

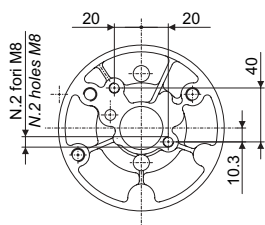


Rif. "B"

Blocchi predisposti per pompe a rotazione sinistra / Central manifold arranged for anticlockwise rotation pumps

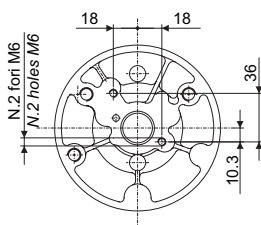
Foratura per pompe gr. 1
Drilling for pumps gr. 1

Cod. 1 A

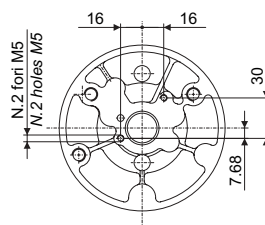


Forature per pompe gruppo 0,5 / Drilling for pumps group 0.5

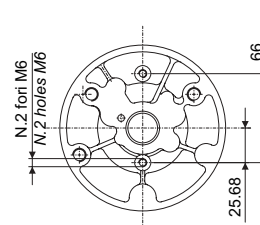
Cod. 0 A



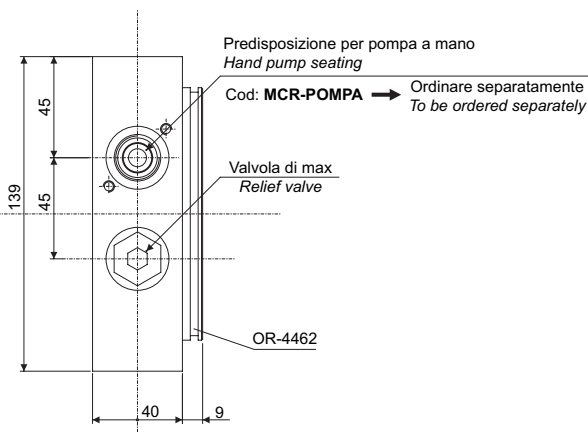
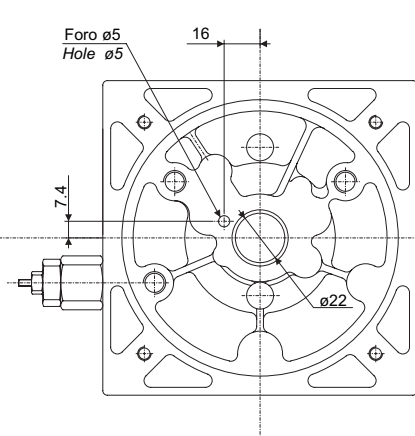
Cod. 0 B



Cod. 0 C



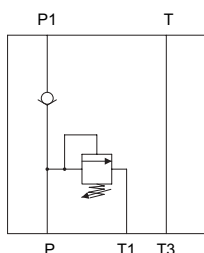
Cod. 0 D: Comprende tutte le forature del gruppo 0,5 / Including all group 0.5 drillings



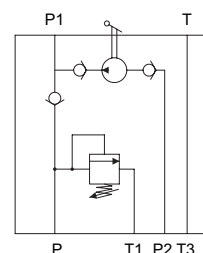
Rif. "A"

Schemi funzionali versione doppio effetto (DE), a doppio effetto con predisposizione per pompa a mano (DP)
Functional layout double effect version and double effect arranged for hand pump

DE



DP



Esempio codice completo
Complete part number example

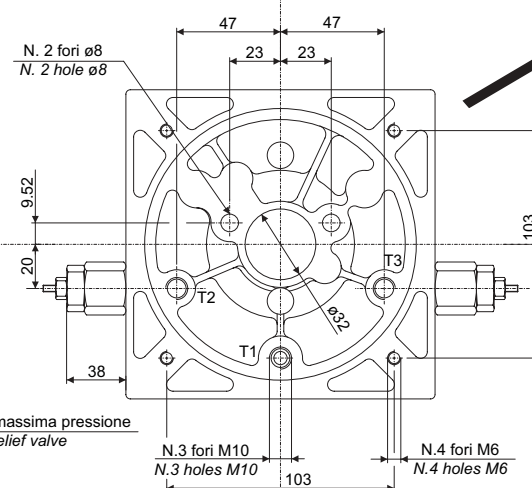
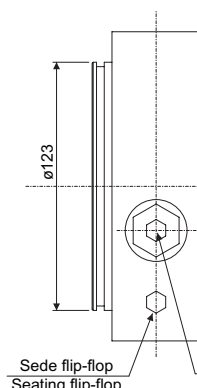
MCR — **DE** — **0B** — **S1**

- Il blocco centrale viene fornito con la valvola di ritegno (MCR-VR14) e la guarnizione per il serbatoio (OR-4462).
- La valvola di max. e la pompa a mano vanno ordinati separatamente. (vedi pag. 08)

- The central manifold is always supplied with chek valve (MCR-VR14) and the tank gasket (OR-4462).
- To order the relief valve on pressure port and the hand pump. (see pag. 08)

Technical drawing of a mechanical part showing dimensions and tolerances. The drawing includes a cross-section view of a part with a central hole. Key dimensions and features are labeled:

- Overall length: 32
- Distance from left face to center of hole: 19.7
- Distance from left face to start of thread: 17.7
- Distance from left face to end of thread: 12.7
- Thread specification: $\phi 12.7 \text{ H7}$ and $3/4" - 16 \text{ UNF } 2B$
- Thread length: 2.7
- Thread pitch: 0.2
- Internal chamfer angle: 15°
- External chamfer angle: 45°
- Internal hole diameter: $\phi 8$
- External diameter: $\phi 28$
- Internal hole diameter: $\phi 20.7$



Technical drawing of the front view of the 1000 Series 1/2" valve. The drawing shows a cylindrical body with a handle on the left and a threaded connection on the right. Key dimensions are indicated: a total width of 139, a distance of 19.5 from the handle to the first hole, a distance of 80 between the first and third holes, and a distance of 34 from the third hole to the right end. The handle has a width of 20. The drawing also shows the locations of two holes, P1 and P3, with a distance of 47 between them. The text at the bottom indicates the hole specifications: N.2 fori 1/4" BSP and N.2 holes 1/4" BSP.

N	Non sono presenti fori di fissaggio Without fixing holes
S	Sono presenti N. 2 fori M8 With N. 2 fixing holes

MCR — **RE** — —

(Rif. "A") (Rif. "B") (Rif. "C")

0A

0B

0C

0D

1A

N

S

1	Motori in C.C. (vedi pag. 04) / D.C. motors (see pag. 04)
2	Motori in C.A. Tg. 63, 71 / A.C. motors Size 63, 71
3	Motori in C.A. Tg. 80, 90, 100 - 112 A.C. motors size 80, 90, 100 - 112
4	Tutti i motori in C.C. e C.A. Tg. 63, 71, 80, 90, 100, 112 All D.C. and C.A. motors Size 63, 71, 80, 90, 100, 112

BLOCCO CENTRALE REVERSIBILE CENTRAL MANIFOLD "REVERSE VERSION"

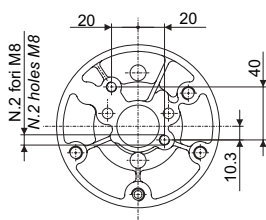


Rif. "B"

Blocchi predisposti per pompe a rotazione sinistra / Central manifold arranged for anticlockwise rotation pumps

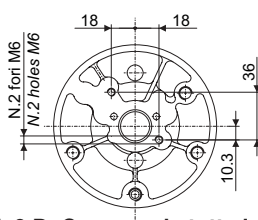
Foratura per pompe gr. 1
Drilling for pumps gr. 1

Cod. 1 A

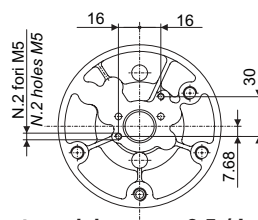


Forature per pompe gruppo 0,5 / Drilling for pumps group 0.5

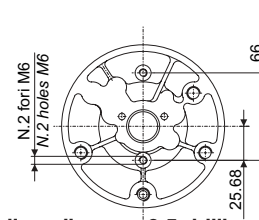
Cod. 0 A



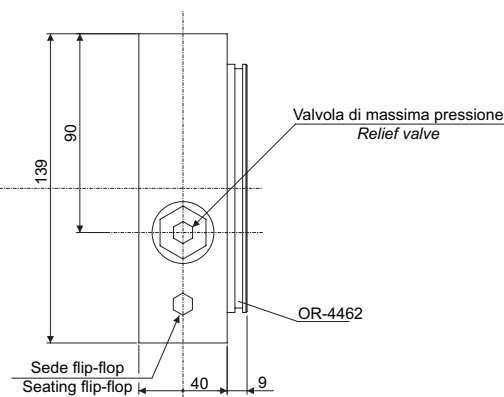
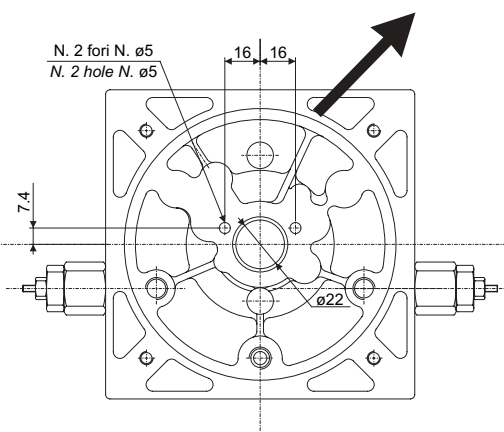
Cod. 0 B



Cod. 0 C

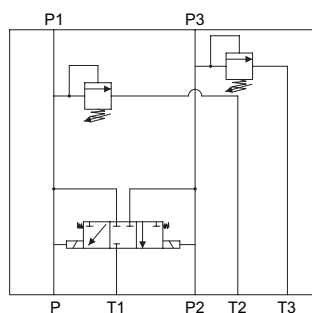


Cod. 0 D: Comprende tutte le forature del gruppo 0,5 / Including all group 0.5 drillings



Rif. "A"

Schema funzionale versione reversibile / Functional layout reverse version



Esempio codice completo
Complete part number example

MCR — RE — 1A — S2

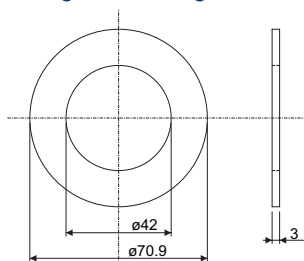
- Il blocco centrale viene fornito con la guarnizione per il serbatoio (OR-4462)
- La valvola di max. vanno ordinate separatamente. (vedi pag. 10)

- The central manifold is always supplied with the tank gasket (OR-4462)
- To order the relief valve on pressure port. (see pag. 10)

FLANGE DI ADATTAMENTO PER MOTORI C.C. ADAPTER FLANGERS FOR D.C. MOTORS



Disegno / Drawing



Codice / Code

MCR-ANELLO-CC

FLANGE DI ADATTAMENTO PER MOTORI C.A. ADAPTER FLANGERS FOR A.C. MOTORS

Taglia motore / Motor size	Disegno / Drawing	Codice / Part number	Viti / Screws*
63		MCR-LANT-63	M6 X 20 UNI5931 + rosetta elastica A 6,4 UNI1751
71		MCR-LANT-71	M6 X 20 UNI5931 + spring washer A 6,4 UNI1751
80		MCR-LANT-80	
90		MCR-LANT-90	M6 X 30 UNI5931 + rosetta elastica A 6,4 UNI1751 M6 X 30 UNI5931 + spring washer A 6,4 UNI1751
100-112		MCR-LANT-100	

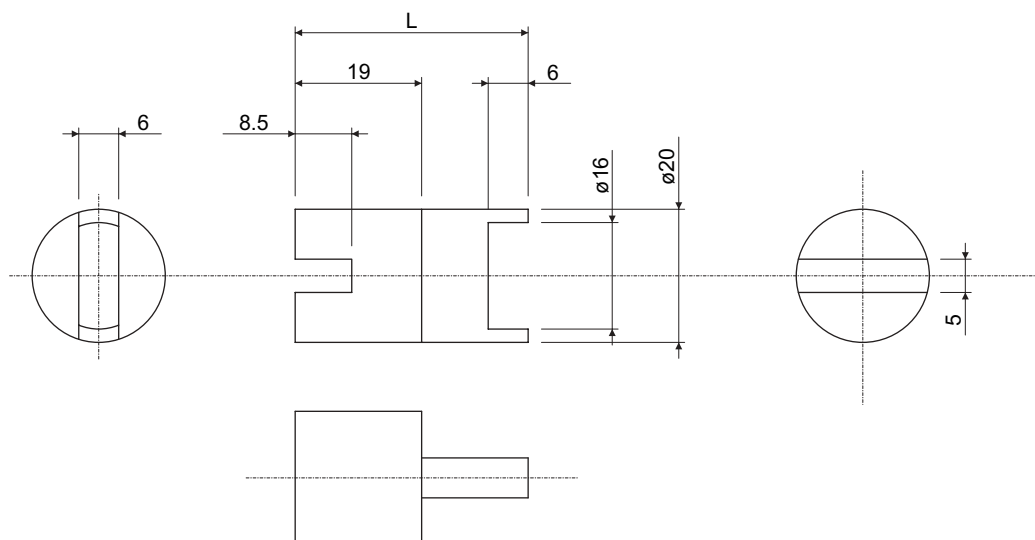
* Per il fissaggio delle flange al blocco centrale utilizzare le viti sopraindicate / To fix the flanges to central manifold use the above indicated screws.

GIUNTI DI TRASMISSIONE PER
MOTORI IN C.A. FLANGIATI B14
DRIVE COUPLINGS FOR A.C.
MOTORS (B14 FLANGE)



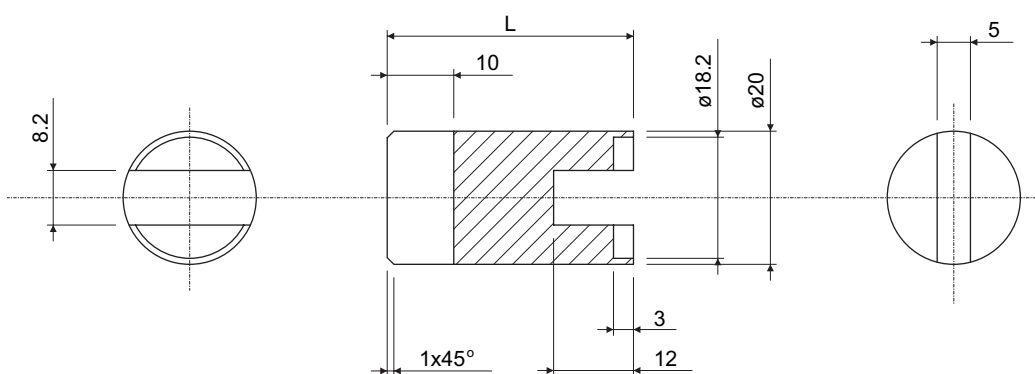
Taglia motore Motor size	Grandezza pompa Pump size	Disegno / Drawing	Codice / Part number
63	gr. 0		MCR-SG11-P0
71	gr. 0		MCR-SG14-P0
80	gr. 0		MCR-SG19-P0
71	gr. 1		MCR-SG14-P1
80	gr. 1		MCR-SG19-P1
90	gr. 1		MCR-SG24-P1
100-112	gr. 1		MCR-SG28-P1

Motori ISKRA in C.C. ø80
ISKRA DC Motors ø80



Motore Motor	Pompa Pump	L	Codice Part number
ø80 (0.15-0.5-0.8 KW) 12/24 V	gr. 0	35	MCR-SG0-CC08
ø80 (0.15-0.5-0.8 KW) 12/24 V	gr. 1	35	MCR-SG1-CC08

Motori ISKRA in C.C. ø114
ISKRA DC Motors ø114



Motore Motor	Pompa Pump	L	Codice Part number
ø114 (1.6-2.2 KW) 12/24 V	gr. 0	37	MCR-SG0-CC37
ø114 (1.6-2.2 KW) 12/24 V	gr. 1	35	MCR-SG1-CC35

PIASTRE DI COLLEGAMENTO SENZA COMANDO MODULAR ELEMENTS WITHOUT DRIVES



Codice Part number	Schema Diagram	Descrizione Description	Disegno Drawing
MCR-DIS-30		Piastra distanziale H = 30 mm Spacing element H = 30 mm	
MCR-DIS-50		Piastra distanziale H = 50 mm Spacing element H = 50 mm	
MCR-OIL-03		Piastra per elettrovalvola CETOP 03 (luce 6) collegamento in parallelo Element for solenoid valves CETOP 03 parallel connection	
MCR-OIL-04		Blocchetto per elettrovalvola CETOP 03 (luce ø6) con valvole unidirezionali pilotate su A e B Element for solenoid valves CETOP 03 with pilot operated check valve A and B	
MCR-OIL-05		Blocchetto per elettrovalvola CETOP 03 (luce ø6) con valvola unidirezionale pilotata su B Element for solenoid valves CETOP 03 with pilot operated check valve B	
MCR-OIL-06		Blocchetto per elettrovalvola CETOP 03 (luce ø6) con valvola unidirezionale pilotata su A Element for solenoid valves CETOP 03 with pilot operated check valve A	
MCR-OIL-07		Piastra per rotazione figura orizzontale lato motore Element for horizontal modular system-motor side	
MCR-OIL-08		Piastra per rotazione figura orizzontale lato serbatoio Element for horizontal modular system-tank side	

SERBATOI TONDI, SERIE "SER" OILTANKS, "SER" SERIES



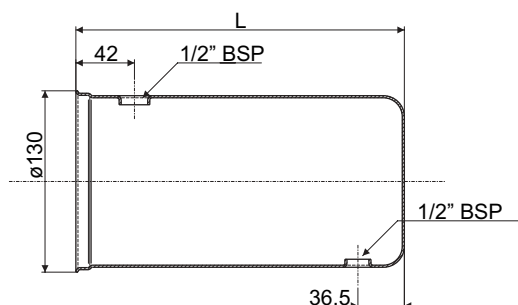
SER — — (RAC)

Capacità nominale
in Litri
Nominal capacity
in Liters

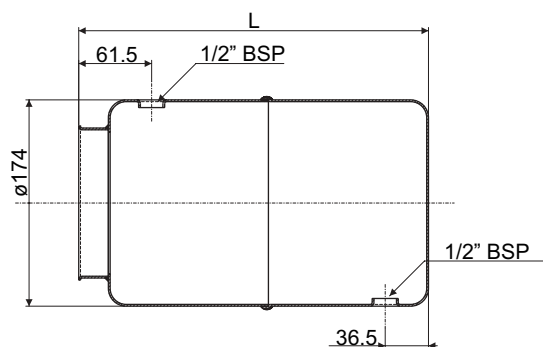
1.5
2.5
5
8
10
12

Indicare "RAC" solo se si desidera la
fornitura del serbatoio con il raccordo
"SC-RAC" per il montaggio con il raccordo
Kindly indicate "RAC" in the part-number.
if wish the supply of the oiltank with the
elbow joint "SC-RAC" for the vertical assembling

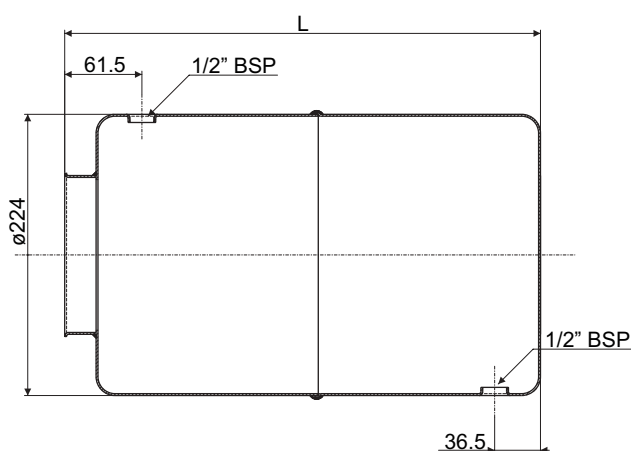
SER-12	Serbatoio senza raccordo Oiltank without elbow joint
SER-12-RAC	Serbatoio fornito di raccordo per il montaggio in verticale Oiltank with elbow joint



Codice Part number	L
SER-1.5	150
SER-2.5	235

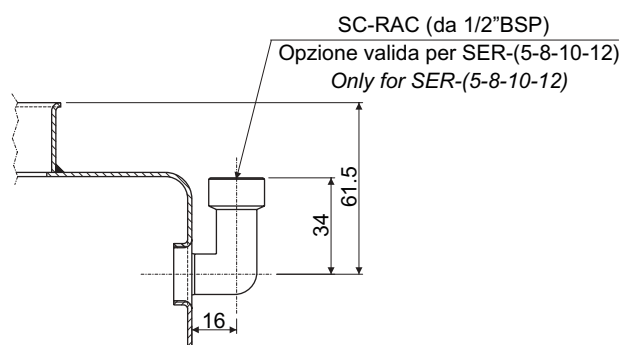


Codice Part number	L
SER-1.5	295
SER-2.5	419

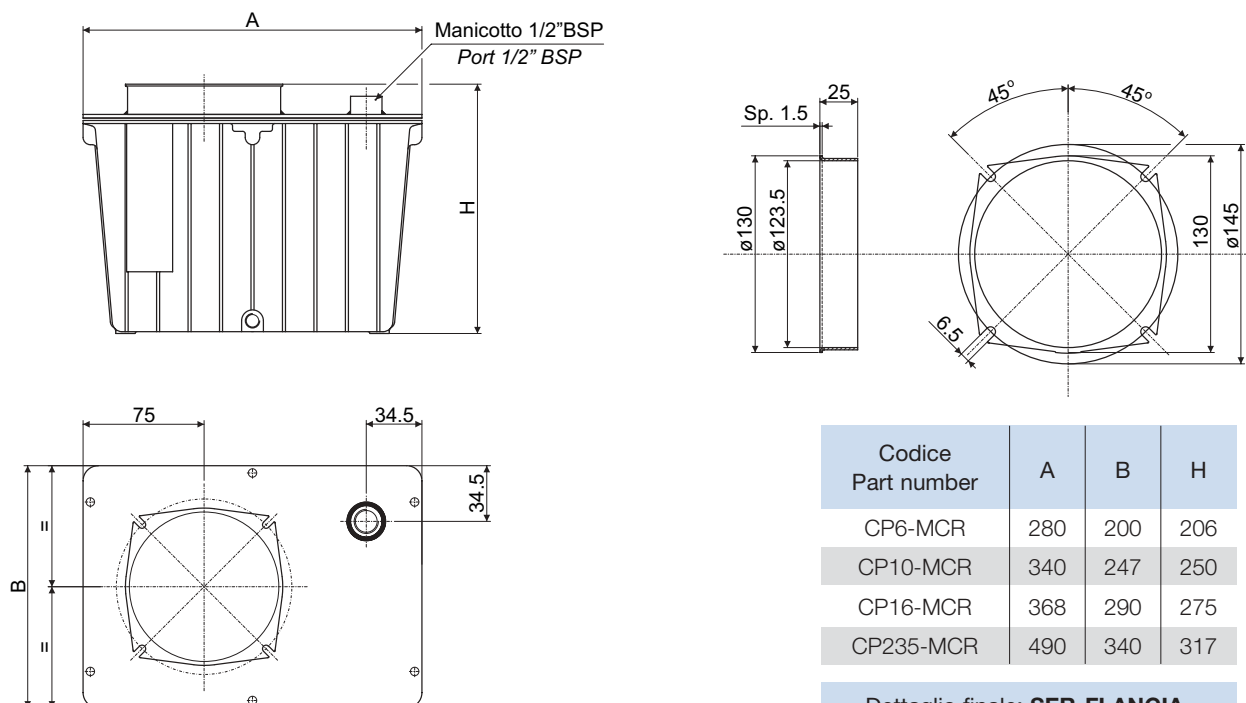


Codice Part number	L
SER-1.5	262
SER-2.5	380

Per il montaggio in verticale:
For vertical assembling

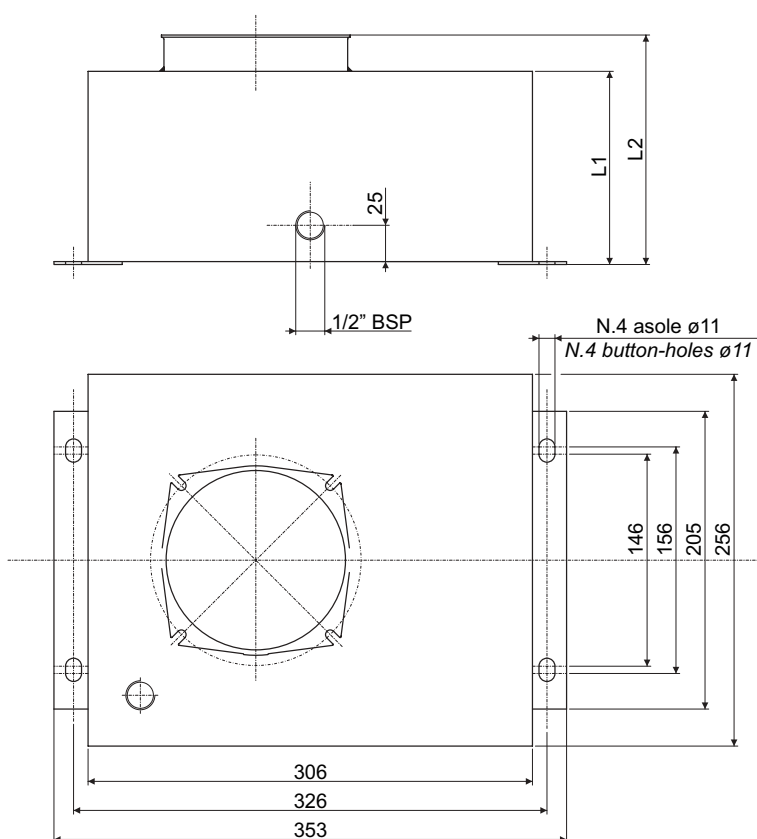


Serbatoi in alluminio serie CP Aluminium oiltanks, CP series



Dettaglio finale: **SER-FLANGIA**
Flange detail: **SER-FLANGIA**

Serbatoi rettangolari serie SL Rectangular oiltanks, SL series



Codice Part number	L1	L2	Capacità nominale (Litri) Nominal capacity (Liters)
SL-08	133	158	8
SL-15	237	268	15
SL-20	306	331	20

Per il fissaggio di tutti i serbatoi al blocco centrale utilizzare viti M6x12 UNI 5739 + rosetta elastica A 6,4 UNI 1751

To fix all oiltanks to central manifold use M6x12 UNI 5739 screws + spring washer A 6.4 UNI 1751

Codice Ordinazione Tubi How to order tubes

MCR - T — **14** — **V** **A** — **SL20**

Attacco / Ports

14	1/4" BSP
38	3/8" BSP

Applicazione / Application

A	Aspirazione / Suction
S	Scarico / Outlet

Montaggio / Assembling

O	Orizzontale / Horizontal
V	Verticale / Vertical

Serbatoi Oiltanks

1.5
2.5
5
8
10
12
CP6
CP10
CP16
CP25
SL08
SL15
SL20

Esempio: **MCR-T14-VA-SL20** (Aspirazione)
MCR-T-OS-12 (Scarico)

Exsample: **MCR-T14-VA-SL20** (Suction)
MCR-T-OS-12 (Outlet)

Indicare il tipo di filetto solo nei tubi in aspirazione.
Please indicate the thread size only for suction tubes.

Kit tubo scarico elettrovalvola con strozzatore compensato Kit tube for electric valve outlet with compensated throttle valve

MCR REG — **V** — **CP25** — **3**

Montaggio / Assembling

O	Orizzontale / Horizontal
V	Verticale / Vertical

Serbatoi Oiltanks

1,5
2,5
5
8
10
12
CP6
CP10
CP16
CP25
SL08
SL15
SL20

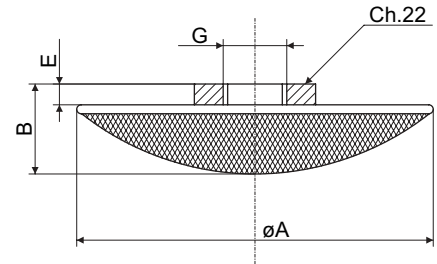
**Valvola strozzatrice
Check valve**

Cod.	Portata nominale a 100 bar (l/min) Nominal capacity 100 bar (l/min)
1	2
2	3
3	4
4	5
5	6
6	9
7	11
8	16

Esempio: **MCR-REGV-CP25-3**
Example: **MCR-REGV-CP25-3**

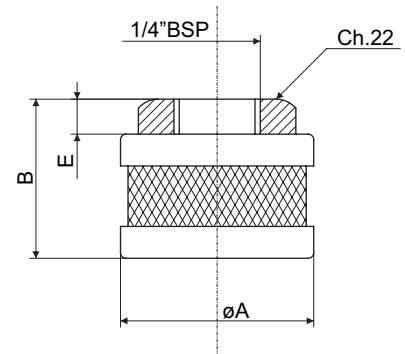
Filtro olio idraulico in aspirazione
Hydraulic oil suction filter

Codice Part number	øA	B	E	G	Area filtrante Filtration area (cm ²)	Materiale Material	Grado di filtrazione Filtration Ratio (micron)	Portata Flow (l/min)
MCRFR503546	63	16	6	1/4" BSP	30	Reps. Fe Zn	250	9
MCRFR103570	63	18	8	3/8" BSP	30	Lam. INOX	250	12
MCRFR502395	80	23	5	1/4" BSP	200	Reps Fe Zn	90	12
MCRFR102392	80	25	7	3/8" BSP	200	Reps Fe Zn	90	14



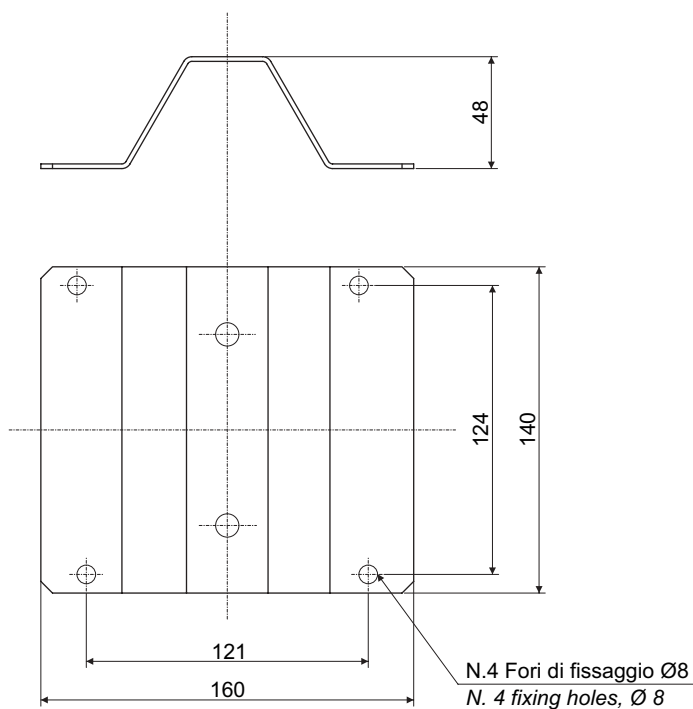
Filtro olio idraulico in aspirazione 1/4" GAS
Hydraulic oil suction filter 1/4" gas

Codice Part number	øA	B	E	Area filtrante Filtration area (cm ²)	Materiale Material	Grado di filtrazione Filtration Ratio (micron)	Portata Flow (l/min)
MCRFR501759	32	27	6	34	Reps. Fe Zn	90	5



STAFFA
FOOT FLANGE

MCR - Staffa



Per il fissaggio della staffa al blocco centrale utilizzare viti M8 x 12 UNI5739 rosetta elastica A 8,4 UNI1751.

To fix foot flange to central manifold use M8 x 12 UNI5739 screws + spring washer A 8,4 UNI1751

BC20 MICROCENTRALINE BC20 MICRO POWER UNITS

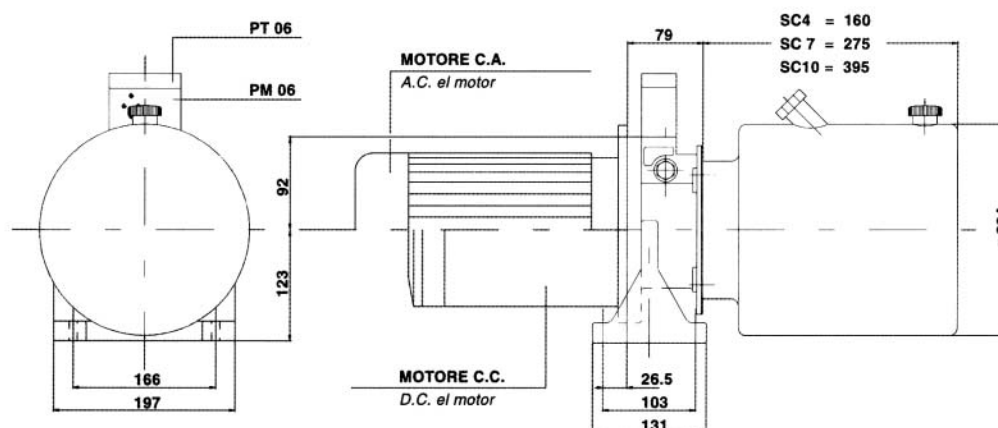
PRESENTAZIONE

I componenti per minicentraline OMT sono studiati per permettere all'utilizzatore di realizzare in breve tempo un gruppo idraulico compatto, semplice ed affidabile. Con essi è possibile accoppiare pompe ed ingranaggi standard del gruppo 0,5-1 con motori C.A. tipo UNEL-MEC - forma B5 - gruppo 80 e 90 (potenza da 0,55 a 1.5 kW); e motori C.C. da 12V e 24V. Per richiesta motore C.C. 12/24 V preghiamo interpellare il nostro ufficio tecnico.

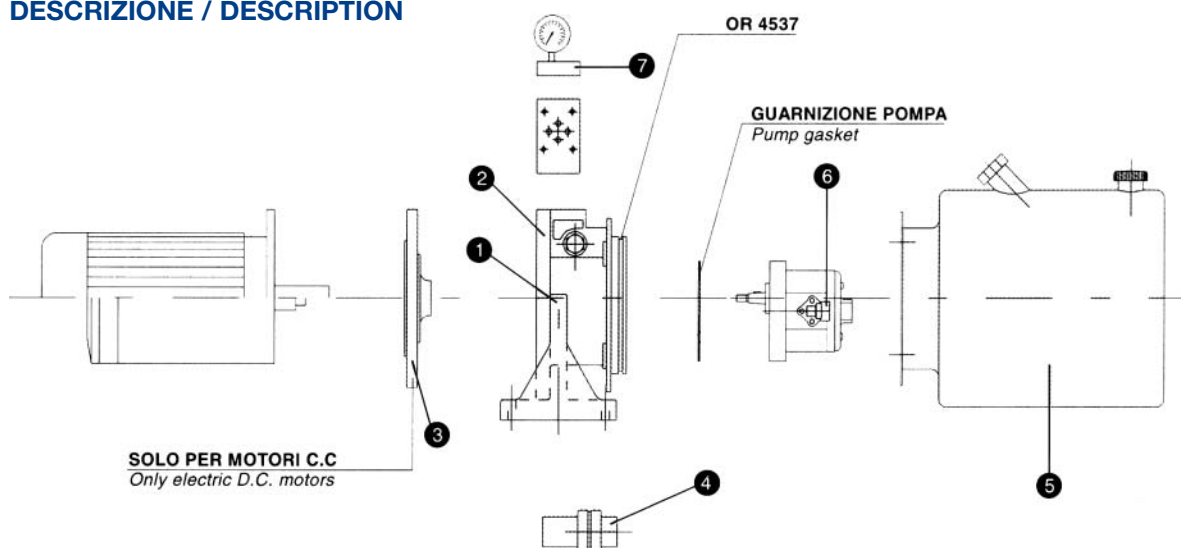
INTRODUCTION

Studied to allow an easy assembly of a small size power unit when using standard gear pumps group 0.5 or 1 with AC electric motors (Unel-Mec, B5 form, type 80 and 90; 0.55 to 1.5 kW) or DC 12/24 Volts up to 3 kW.

DIMENSIONI / DIMENSIONS



DESCRIZIONE / DESCRIPTION

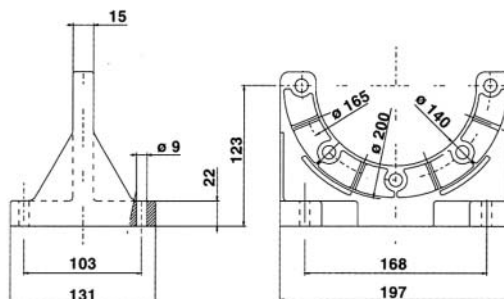


Posizione / Item no.	Descrizione / Description	Codice / Code
1	Supporto gruppo - Foot flange	P 200
2	Lanterna BC 20 - Bell-housing	BC 20...
3	Flangia connessione motore el. C.C. 12V & 24V	FBC 20 - F1BC20
4	Special flange for mounting of D.C. electric motor	
5	Giunto di trasmissione - Coupling	ND... - NDBC
6	Serbatoio olio - Oil tank	SC
7	Accessori pompa - Pump accessories	vedere interno
	Piastre componibili - Manifold	see reverse side of this catalogue

1) Supporto gruppo tipo P200 / Foot flange type P200

Costruito in lega di alluminio ad elevata resistenza meccanica. Adatto quale supporto del gruppo motore / pompa nel caso usiate motori elettrici senza piedini.

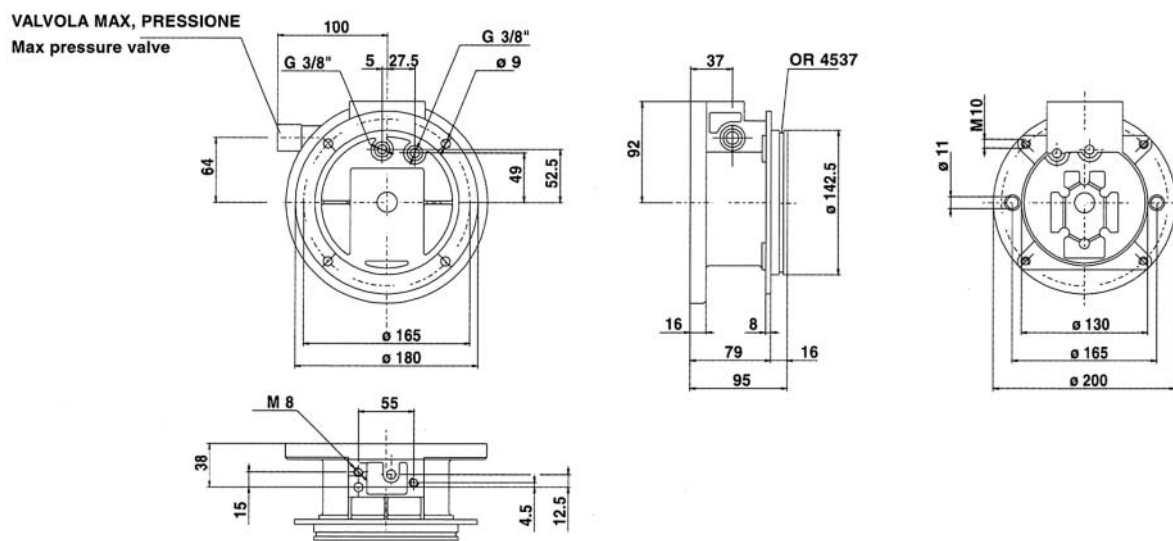
Electric motor foot flange series made of Al alloy. It fits BC 20 bell-housing.



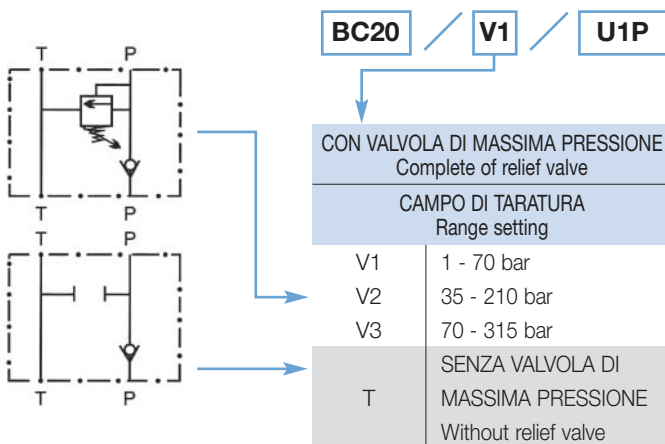
2) Lanterna tipo BC20 - Bell housing type BC20

Costruita in lega d'alluminio di elevata resistenza meccanica, è predisposta per incorporare la valvola di massima pressione regolabile e quella di non ritorno. Consente il montaggio di vari tipi di pompe ad ingranaggi gruppo 0,5 e 1. Il fissaggio dei motori C.A. Gruppo 80-90 forma B5 avviene direttamente al corpo, con flangia di adattamento per motori C.C. 12V e 24V. La lanterna BC20 viene fornita del OR 4537 di tenuta fra corpo e serbatoio e della guarnizione (in guarnita) di tenuta fra corpo e pompa ad ingranaggi.

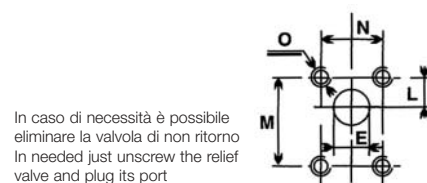
Made with high quality Aluminium alloy it permits to mount standard group 0,5 or 1 pumps with AC electric motors (Unel-Mec standard, B5 form, type 80 and 90; 0,55 to 1,5 Kw) or DC 12/24 Volts up to 3 Kw. On customer request we can supply DC electric motors. It can be supplied fully machined with built-in adjustable relief valve and check valve on pressure port. It is always supplied complete of o-ring seal between BC 20 and oil tank, and of a gasket sealing BC 20 and gear pump.



Codice per l'ordinazione - How to order



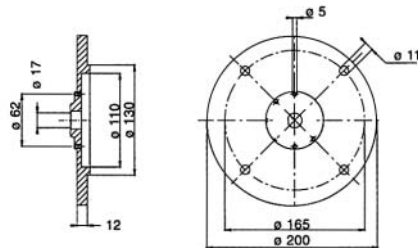
CODICE POMPA PUMP TYPE	LAVORAZ. LATO POMPA - PUMP SIZE				
	L1	E	M	N	O
U 05	22	25,5	66	-	
U 1P	25,4	26,2	72	52	M 6
CM 1	30	24,5	73	56	
ZBR	32	10,3	40	40	M 8



3) Flangia connessione motore elettrico C.C. 12V & 24V tipo F1BC20 - FBC20 Flange for connection of D.C. 12V/24V electric motor to BC20

Costruita in lega d'alluminio ad alta resistenza, incorpora la boccia in bronzo autolubrificante per il supporto dell'albero motore.

Made of high resistance. Al alloy has a built in bearing supporting the electric motor shaft.

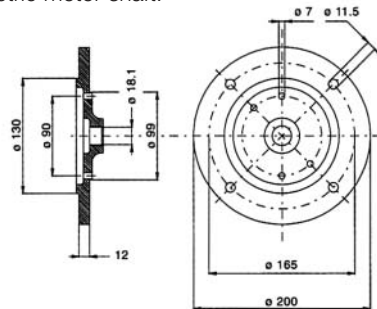


PER MOTORI "EFEL" C.C. 36501/36511 O EQUIVALENTI
For "EFEL" motors D.C. EL.36501/36511 or same

F1BC20

PER MOTORI "EFEL" 36884/36892 O EQUIVALENTI
For "EFEL" motors D.C. EL.36884/36892 or same

FBC20



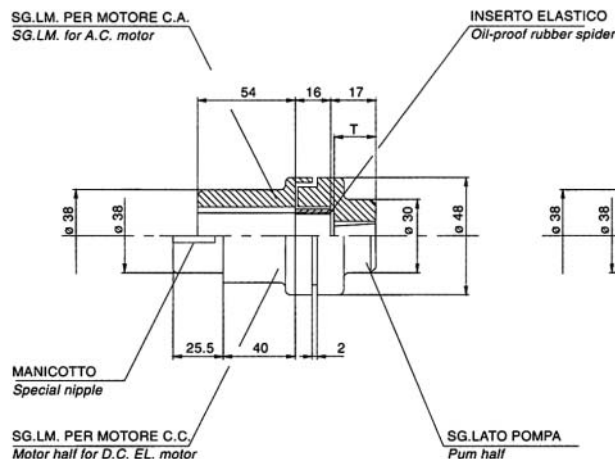
4) Giunto di connessione tipo ND48 / Elastic coupling type ND48

Realizzati in alluminio ad elevata resistenza meccanica. Trovano immediata applicazione quali organi di trasmissione quando è già stata fatta la prima scelta della pompa e del motore.

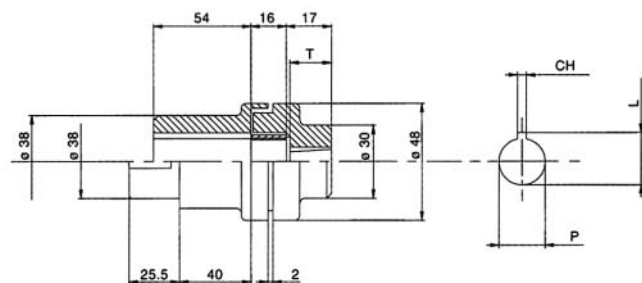
Elastic couplings made of Al alloy having high mechanical resistance.

Caratteristiche dei giunti ND sono: inserto elastico (trascinatore) realizzato in gomma anti olio ottenendo massima silenziosità di esercizio, buon isolamento elettrico.

Feature, of ND couplings, are:
very low noise-level, good electrical insulation.



PER MOTORI "EFEL" C.C. 36501/36511 O EQUIVALENTI
For "EFEL" motors D.C. EL.36501/36511 or same

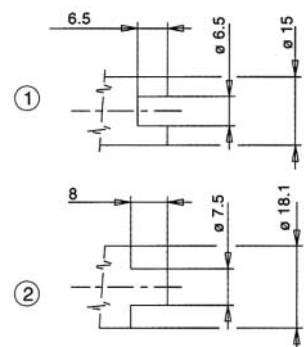


PER MOTORI "EFEL" 36884/36892 O EQUIVALENTI
For "EFEL" motors D.C. EL.36884/36892 or same

Tabella ricerca codice giunto - Table how to order the coupling

Motore C.A. - AC. EL motor UNEL - MEC B5	Motore C.C. 12-24V Tipo 36501-36511	Motore C.C. 12-24V Tipo 36894-36892	Pompa Pump	Lavorazione lato pompa Pump side				
				Capacità Taper	P	CH	L	T
GR. 80	GR. 90							
Albero - Shaft								
ø 19x40	ø 19x40	*Vedere nota *see nota						
N 4 D	-	ND1 BC4	ND BC4	0,5 M	-	6	2	7
ND 4 A	-	ND1 BC4 A	ND BC4 A	0,5 GT	-	7	2	8
ND 5	ND 70 A	ND1 BC5	ND BC5	U 1P	1:8	9,7	2,4	10,5
ND 6	ND 70 B	ND1 BC6	ND BC6	1 C	-	12	3	13,3
ND 6 A	ND 70 C	ND1 BC6 A	ND BC6 A	1 M	1:8	13,9	3	15,5
ND 200	ND 70 D	ND1 BC 200	ND BC 200	ZBR	1:5	9,8	2	10,2

* Con motore C.C. il giunto è fornito di un manicotto in acciaio per l'adattamento del giunto all'albero motore.
When using a D.C. el motor we supply a special nipple to adapt ND couplings to D.C. motor shaft form

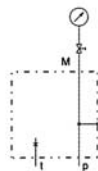


Technical drawing of a mechanical part showing front and top views with dimensions:

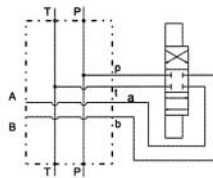
- Front View (Left):**
 - Overall width: B
 - Overall height: ϕA
 - Top flange thickness: 40
 - Distance from top edge to centerline: G
 - Top flange outer diameter: $G \ 1/2''$
 - Distance from top edge to bottom edge: ϕC
- Top View (Right):**
 - Overall diameter: ϕD
 - Inner diameter: ϕE
 - Distance from centerline to top edge: ϕF

7) Piastre componibili per valvole attacco CETOP 3 Manifold 7 or mounting of CETOP 3 (NG6) solenoid valves

Simboli / Symbols



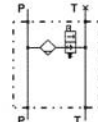
PT06



PM06

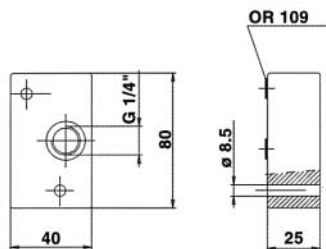


M



PM

Piastra tipo PT06 / Plate type PT06

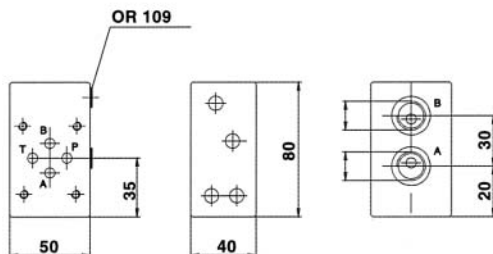


Descrizione / Description

Piastra di chiusura
predisposta per attacco
manometro.

"Blind" flange including
a manometer port

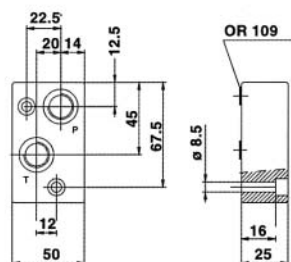
Piastra tipo PM06-F / Plate type PM06-F



Piastra di connessione
per elettrovalvola
norme CETOP 3

Manifold for mounting of
CETOP 3 (NG 6)
solenoid valves.

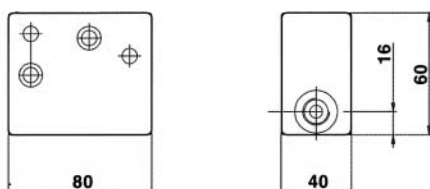
Piastra tipo M / Plate type M



Piastra per attacco
diretto nel caso di
regolazione a distanza

Manifold for remote control
(it allows to mount the valve
block separately from the
power unit)

Piastra tipo PM / Plate type PM



Piastra di connessione
per attacco elettrovalvola

Connession plate for
electro-valve for mounting
and manual control

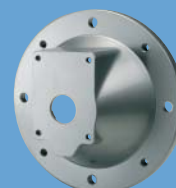
SCAMBIATORI
HEAT EXCHANGERS

FILTRI
FILTERS

ACCESSORI
ACCESSORIES

COMPONENTI
COMPONENTS

FLANGE / FLANGES
RACCORDI / COUPLINGS
BLOCCHI / MANIFOLDS



OMIT