

# POMPE AD INGRANAGGI GEAR PUMPS





CATALOGO  
TECNICO  
TECHNICAL  
CATALOGUE

# CARATTERISTICHE GENERALI

## MAIN FEATURES

Il presente catalogo include pompe ad ingranaggi esterni del Gr. 1, Gr. 2 e del Gr. 3 sia in configurazione singola che in tandem (pompa multipla). Sono dotate di flange e coperchi in alluminio o in ghisa.

Il bilanciamento idrostatico dei rasamenti (boccole) è del tipo doppia compensazione con ripresa del gioco assiale mediante apposita area predefinita. Lubrificazione interna e compensazione sono proporzionali alla pressione di esercizio.

La precisione e la cura nella costruzione dei particolari consentono l'intercambiabilità delle flange di fissaggio e degli ingranaggi (nell'ambito della stessa cilindrata) permettendo in tal modo maggior flessibilità e minori impegni di magazzino presso il cliente.

Sono disponibili le varie esecuzioni secondo gli standard più diffusi (europeo, tedesco, SAE) e, su richiesta, esiste la possibilità di personalizzazioni del cliente. Tutte le pompe sono predisposte per il traino di una eventuale pompa posteriore mediante un apposito kit di trasformazione fornibile separatamente.

### Condizioni e limiti di funzionamento

Fluido consigliato:

olio idraulico a base minerale con elevato indice di viscosità (tenendo conto delle condizioni di funzionamento dell'impianto).

Temperatura consigliata:

20÷60 °C.

Temperatura limite con guarnizioni in NBR:

-15÷80 °C

Temperatura limite con guarnizioni in FPM (Viton):

-10÷110 °C.

Pressione ammessa in aspirazione:

0.7÷3 bar assoluti (10÷44 psi).

Viscosità raccomandata:

15÷92 c.St.

Viscosità limite all'avviamento:

2500 c.St.

Filtraggio per pressioni di esercizio fino a 150 bar (fino a 2175 psi):

26/23 ISO DIS 4406.

Filtraggio per pressioni di esercizio >150 bar (>2175 psi):

23/20 ISO DIS 4406.

The present range includes external gear pumps, Group 1, Group 2 and Group 3, single and tandem construction (multiple pump), with aluminium or cast iron end cap and mounting flange.

Floating bushing, double compensated pressure-balanced design with special area for resetting of the end float clearance.

Internal lubrication and pressure compensation are performed proportionally to the operating pressure of the system. Precision machining and top accuracy of all construction details make use of fixation flanges perfectly interchangeable for models of the same delivery range providing more flexibility and less customers' stocks.

The various construction types are available in compliant versions to the applicable Standards (European, German and SAE). On request, clients may ask for customized versions too.

All pumps are designed for combined operation with an eventual retrofittable rear pump.

Assembly kit for rear-mount is available on request.

### Operating conditions

Recommended fluid:

High-viscosity, mineral hydraulic oil (please always pay attention to the operating conditions of the equipment).

Recommended temperature range:

20÷60 °C

Operating temperature range for NBR gaskets:  
-15÷80 °C.

Operating temperature range for FPM (Viton) gaskets:  
-10÷110 °C.

Admissible suction pressure:

0.7÷3 bar absolute (10÷44 psi absolute).

Recommended viscosity range:

15÷92 c.St.

Max viscosity at start-up:

2500 c.St.

Filtering for operating pressure up to 150 bar (up to 2175 psi):

26/23 ISO DIS 4406.

Filtering for operating pressure >150 bar (>2175 psi):  
23/20 ISO DIS 4406.

### **Note per l'installazione**

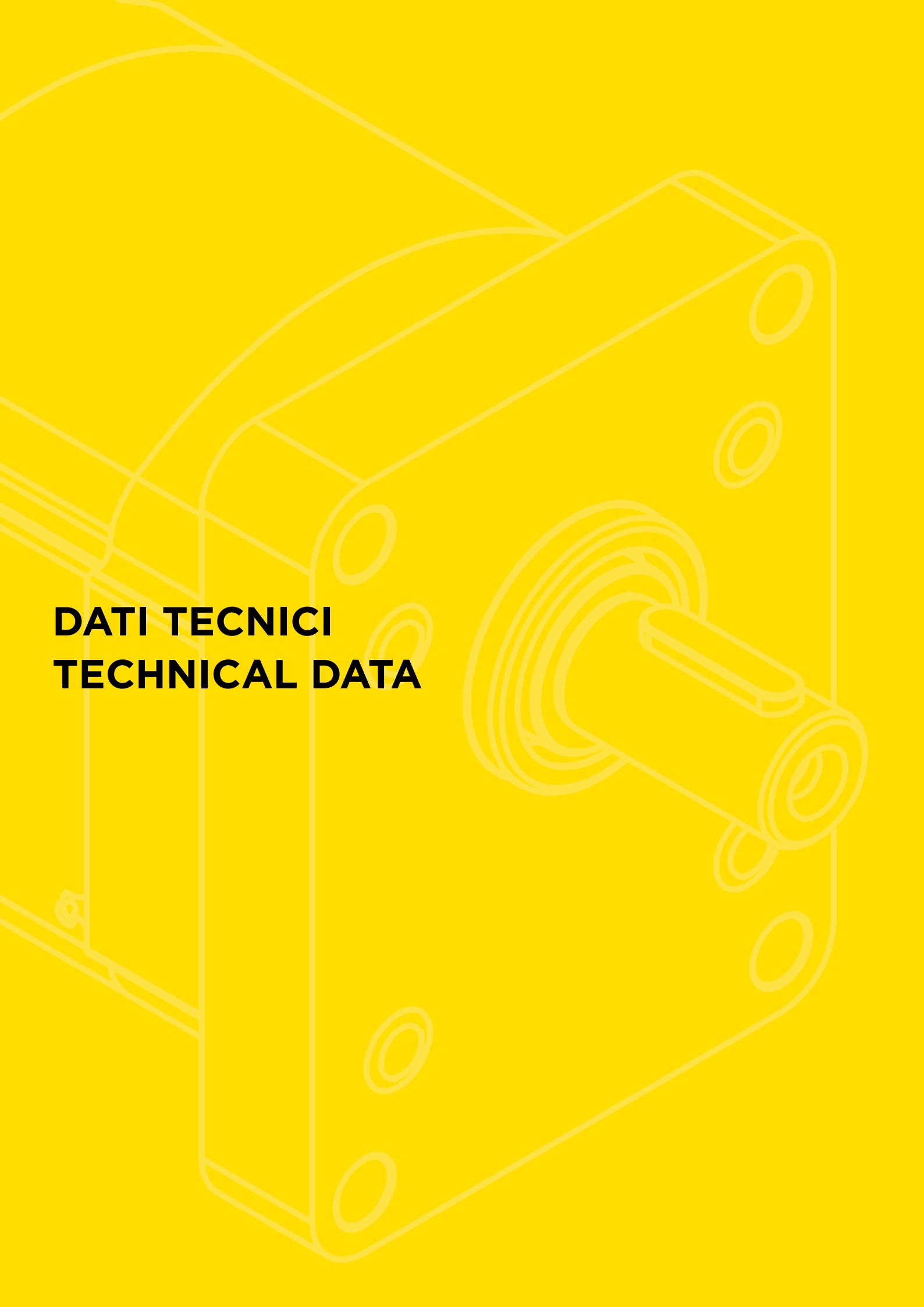
- Verificare il corretto senso di rotazione della pompa.
- Collegare il condotto di aspirazione al lato della pompa riportante l'apposito riferimento o, in sua assenza, al foro di dimensione maggiore.
- Non sono ammessi carichi assiali e/o radiali sull'albero della pompa: effettuare il collegamento all'albero motore con giunto non rigido, appositamente lubrificato e libero di muoversi assialmente.
- In caso di presenza di carichi sull'albero della pompa, interporre un supporto munito di cuscinetti.
- In caso di verniciatura della pompa proteggere l'anello di tenuta per albero rotante.
- Rimuovere eventuali impurità quali polvere o particelle abrasive dalla zona dell'albero rotante a contatto con l'anello di tenuta.
- Rimuovere trucioli e/o impurità dai fori di connessione e dai piani di appoggio su corpo e flangia di fissaggio.
- Riempire la pompa di fluido facendola ruotare a mano per evitare il primo avviamento a secco
- Agevolare la fuoriuscita dell'aria dall'impianto alla prima accensione allentando momentaneamente il tubo di mandata della pompa.
- Mantenere l'olio pulito a salvaguardia di tutti i componenti dell'impianto, controllando periodicamente lo stato dei filtri.
- Eseguire eventuali rabbocchi con olio idraulico dello stesso tipo.

### **Important installation tips**

- Check for correct pump rotation in the proper direction.
- Connect the suction pipe to the pump side marked by the relevant sign or, failure of any mark, to the largest hole.
- Do not apply any axial/radial loads on the shaft of the pump. Do not use a rigid coupling for connection to the motor shaft, provide for due lubrication and axial clearance of the coupling.
- If a load is to be applied on the shaft of the pump, be sure to install a suitable external bearing for the load.
- Protect the seal of the drive shaft before painting the pump.
- Accurately remove eventual foreign matters (such as dust and abrasive particles) from the shaft area touching the sealing ring.
- Remove chips and/or metal shavings from the connection holes, from the body bearing faces and from the mounting flange.
- As you fill fluid into the pump, be sure to manually let the pump rotate in order to avoid dry start-ups.
- Release the delivery pipe to facilitate bleeding the pump at first startup.
- Be sure to keep running the pump with very clean oil to avoid even major damages to the various parts and components. Perform regular periodic controls of the filters.
- If required, perform oil touch-ups using oil of the same kind.

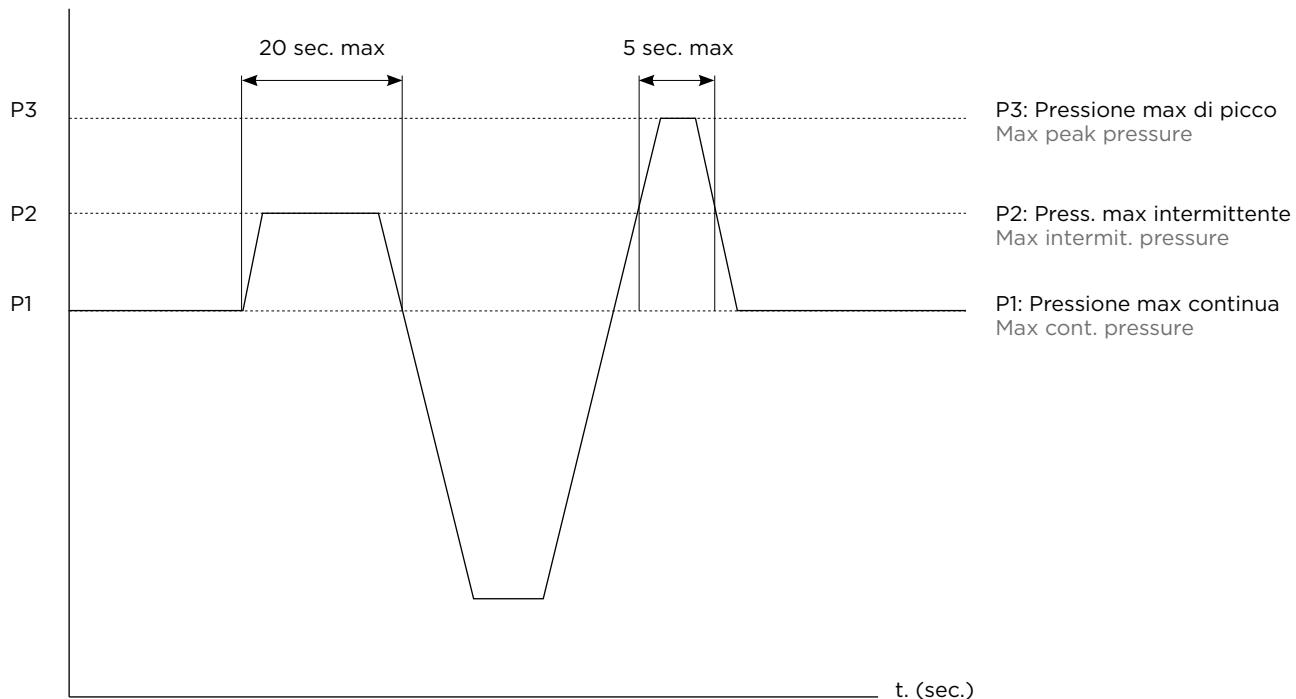
I dati contenuti nel presente catalogo sono indicativi e possono essere modificati senza alcun preavviso.

The information provided in this catalogue is subject to change without notice.



## **DATI TECNICI** **TECHNICAL DATA**

Pres.



#### INVERSIONE SENSO DI ROTAZIONE - ROTATION REVERSAL

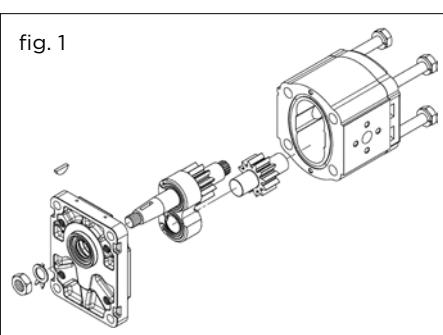


fig. 1

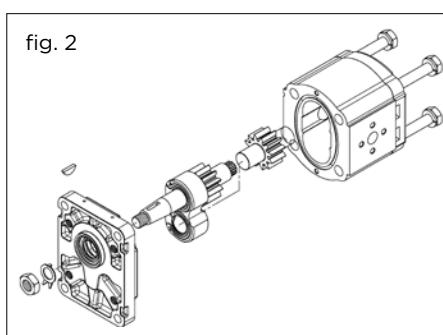


fig. 2

I. Smontare la pompa (fig.1)  
Disassemble the pump.

II. Invertire la posizione degli ingranaggi lasciando la boccola con lo stesso orientamento (fig.2 - 3)  
Invert gears position leaving the bushing with its previous orientation.

III. Capovolgere la flangia e riassemblare la pompa serrando le viti con coppia 47Nm  $\pm 3$  (fig.4)  
Reverse the flange and reassemble the pump tightening the screws with torque of 47Nm  $\pm 3$ .

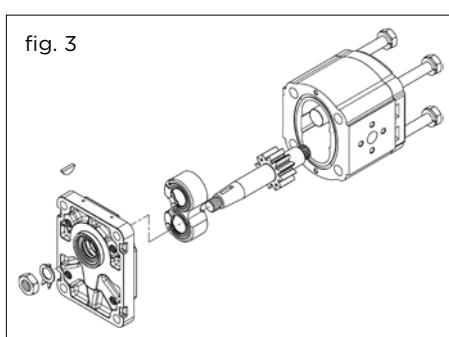


fig. 3

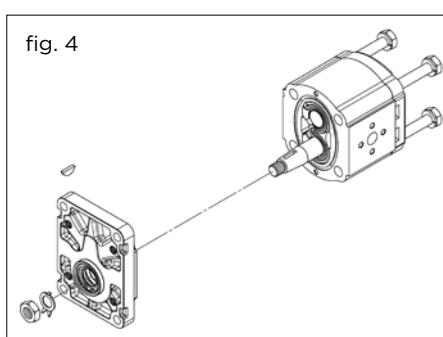
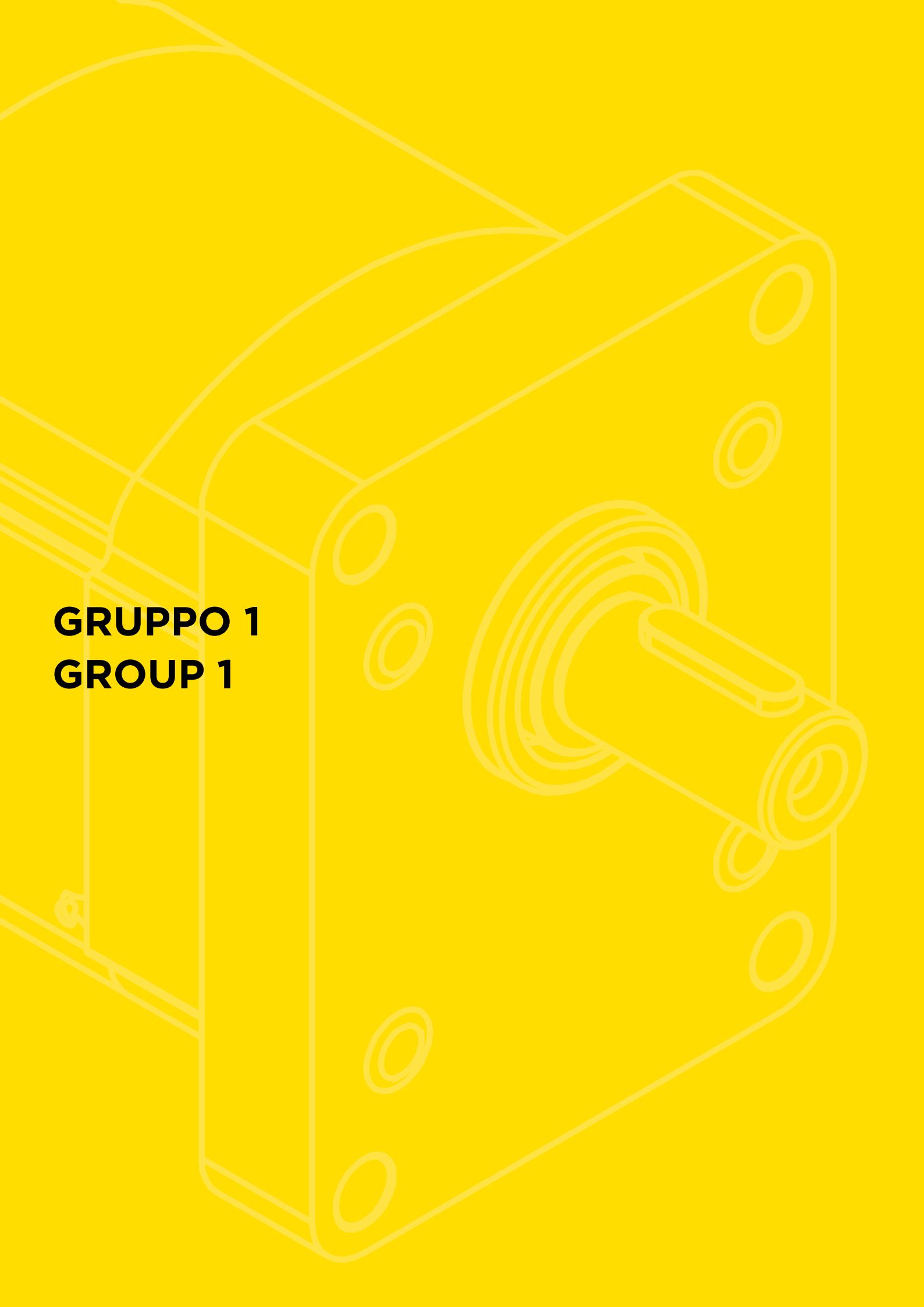


fig. 4



**GRUPPO 1**  
**GROUP 1**

# BG10 GR. 1



## CARATTERISTICHE TECNICHE - TECHNICAL CHARACTERISTICS

Grandezza Size	Cilindrata cm³/giro Displacement (in³/rev)	Velocità max giri/min Max speed rpm	Portata max lt/min Max flow (gpm)	Velocità min giri/min Min speed rpm	Portata min lt/min Min flow (gpm)	Rendim. Vol. min* % Min Volum. Effic.* %
BG10-09	0.95 (0.058)	6000	5.7 (1.50)	600	0.5 (0.14)	90
BG10-13	1.26 (0.077)	6000	7.5 (1.99)	600	0.7 (0.18)	92
BG10-16	1.64 (0.100)	6000	9.8 (2.60)	400	0.6 (0.16)	95
BG10-21	2.05 (0.125)	5500	11.3 (2.98)	400	0.8 (0.21)	95
BG10-25	2.56 (0.156)	5500	14.1 (3.72)	400	1 (0.26)	95
BG10-31	3.15 (0.192)	4500	14.2 (3.75)	400	1.2 (0.32)	95
BG10-38	3.80 (0.232)	4000	15.2 (4.01)	400	1.4 (0.38)	95
BG10-43	4.28 (0.261)	3500	15 (3.96)	400	1.6 (0.43)	95
BG10-50	4.97 (0.303)	3000	14.9 (3.94)	400	1.9 (0.50)	95
BG10-62	6.21 (0.379)	2700	16.8 (4.43)	400	2.4 (0.62)	95
BG10-78	7.80 (0.476)	2500	19.5 (5.15)	400	3.0 (0.78)	95
BG10-99	9.85 (0.601)	2000	19.7 (5.20)	400	3.7 (0.99)	95

\*Rendimento volumetrico a 1500 giri/min \* Volumetric efficiency at 1500 rpm



**STO**  
Flangia standard  
Standard flange



**MZD / MZS**  
Flangia Ø32 con foro mandata  
Ø32 flange with delivery hole



**S20**  
Flangia Sae AA  
Sae AA flange



**EZ1**  
E32C da elettropompa  
E32C for electro pump

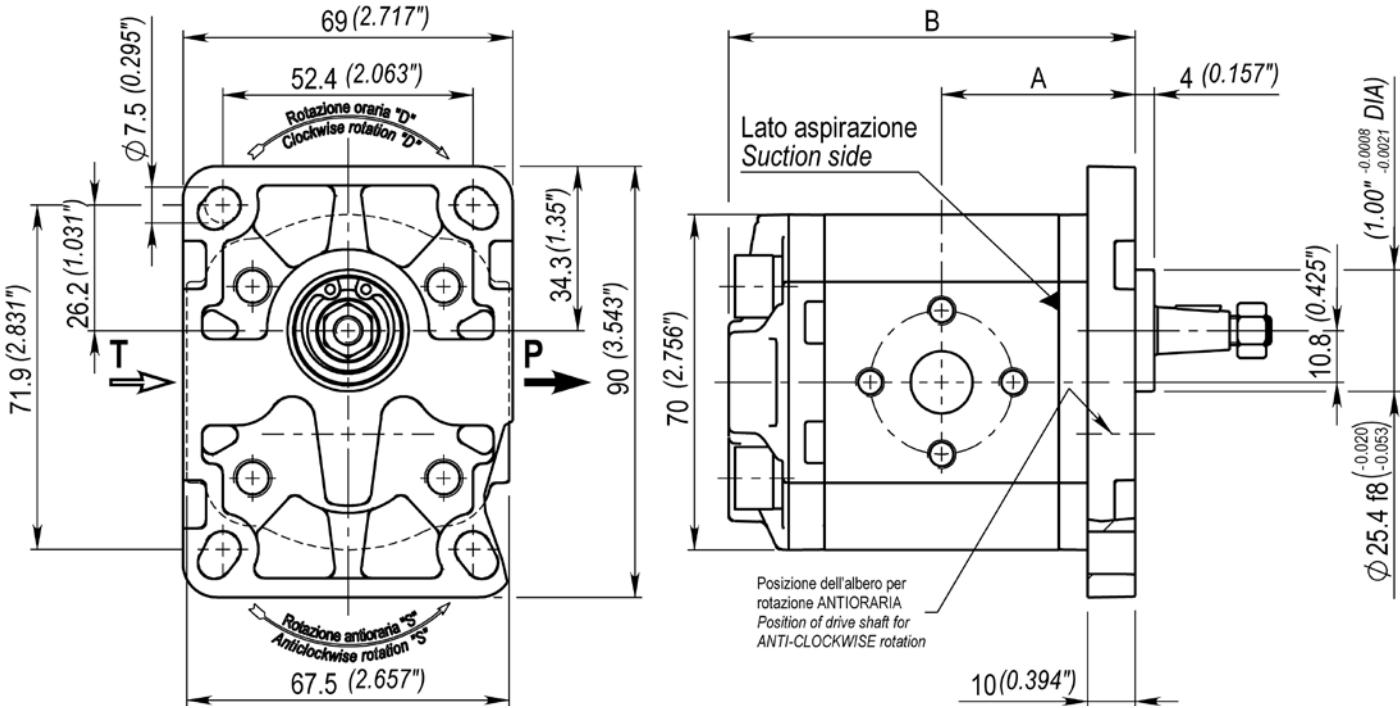


**MZ1**  
Flangia Ø32 da minicentralina  
Ø32 flange for power pack

# BG10 GR. 1

**B&C**  
HYDRAULICS

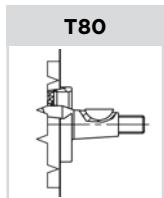
FLANGIA STANDARD STO  
STANDARD FLANGE STO



## DIMENSIONI E PESI - EXTERNAL DIMENSIONS AND WEIGHTS

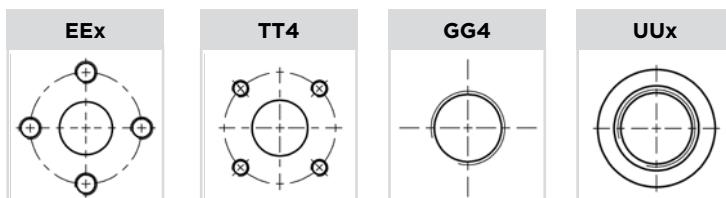
Grandezza Size	Cilindrata cm³/giro Displacement (in³/rev)	Pressione max di esercizio Max working pressure			Dimensioni Dimensions		Massa kg Mass (lbs)
		P1 Bar (psi)	P2 Bar (psi)	P3 Bar (psi)	A mm (in)	B mm (in)	
BG10-09	0.95 (0.058)	240 (3336)	260 (3625)	290 (4061)	35 (1.38)	74.4 (2.93)	0.887 (1.96)
BG10-13	1.26 (0.077)	240 (3336)	260 (3626)	290 (4061)	35.6 (1.40)	75.2 (2.96)	0.893 (1.97)
BG10-16	1.64 (0.100)	240 (3481)	260 (3771)	290 (4206)	36.4 (1.43)	76.7 (3.02)	0.909 (2.00)
BG10-21	2.05 (0.125)	240 (3481)	260 (3771)	290 (4206)	37.2 (1.46)	78.3 (3.08)	0.93 (2.05)
BG10-25	2.56 (0.156)	230 (3336)	250 (3625)	280 (4061)	38.2 (1.50)	80.3 (3.16)	0.964 (2.12)
BG10-31	3.15 (0.192)	230 (3336)	250 (3625)	280 (4061)	39.3 (1.55)	82.6 (3.25)	0.992 (2.19)
BG10-38	3.80 (0.232)	220 (3191)	240 (3481)	260 (3771)	40.6 (1.60)	85.1 (3.35)	1.033 (2.28)
BG10-43	4.28 (0.261)	220 (3191)	240 (3481)	260 (3771)	41.5 (1.63)	87 (3.43)	1.055 (2.33)
BG10-50	4.97 (0.303)	190 (2756)	210 (3046)	230 (3336)	42.9 (1.69)	90.1 (3.55)	1.108 (2.44)
BG10-62	6.21 (0.379)	190 (2756)	210 (3046)	230 (3336)	45.3 (1.78)	94.9 (3.74)	1.177 (2.59)
BG10-78	7.80 (0.476)	170 (2466)	190 (2756)	210 (3046)	48.4 (1.91)	100.7 (3.96)	1.251 (2.76)
BG10-99	9.85 (0.601)	150 (2175)	170 (2466)	190 (2756)	52.4 (2.06)	109.1 (4.30)	1.379 (3.04)

ALBERI CONSIGLIATI - SUGGESTED SHAFTS



Vedi dimensioni a fine sezione BG10  
See dimensions at the end of section BG10

CONNESSIONI DISPONIBILI - AVAILABLE CONNECTIONS



Vedi dimensioni a fine sezione BG10  
See dimensions at the end of section BG10

"X" = numero variabile dipendente dalla cilindrata  
"X" = variable number that depends on the displacement

CODICE ORDINAZIONE - ORDERING CODE

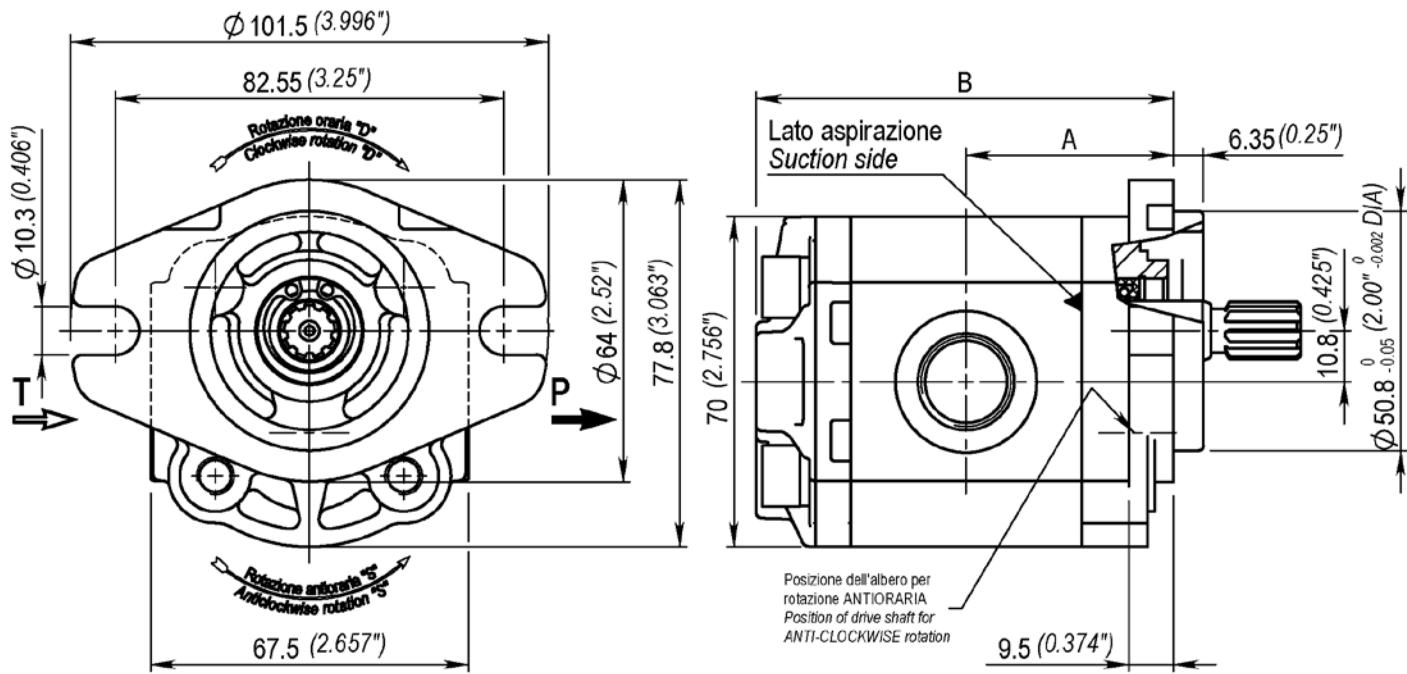
BG10	CODICE CODE												
	CILINDRATA DISPLACEMENT	<b>09</b> 0.95	<b>13</b> 1.26	<b>16</b> 1.64	<b>21</b> 2.05	<b>25</b> 2.56	<b>31</b> 3.15	<b>38</b> 3.80	<b>43</b> 4.28	<b>50</b> 4.97	<b>62</b> 6.21	<b>78</b> 7.80	<b>99</b> 9.85
	FLANGIA FLANGE	<b>STO</b>	Standard	Standard									
	FLANGIA E COPERCHIO FLANGE AND COVER	<b>A</b>	Alluminio	Aluminium									
	ALBERO SHAFT	<b>T80</b>											
	CONNESSIONE CONNECTION	<b>EEx</b>	<b>TT4</b>	<b>GG4</b>	<b>UUx</b>								
	ROTAZIONE ROTATION	<b>D</b>	Rotazione destra	Clockwise rotation									
		<b>S</b>	Rotazione sinistra	Anticlockwise rotation									
	COPERCHIO STANDARD STANDARD COVER	<b>O</b>	Standard	Standard									
	GUARNIZIONI SEALS	<b>O</b>	Tenute in Nbr	Nbr seals									
		<b>V</b>	Tenute in Viton®	Viton® seals									

# BG10

## GR. 1

FLANGIA SAE AA S20  
SAE AA FLANGE S20

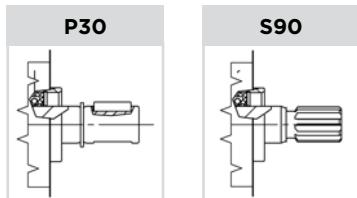
**B&C**  
HYDRAULICS



### DIMENSIONI E PESI - EXTERNAL DIMENSIONS AND WEIGHTS

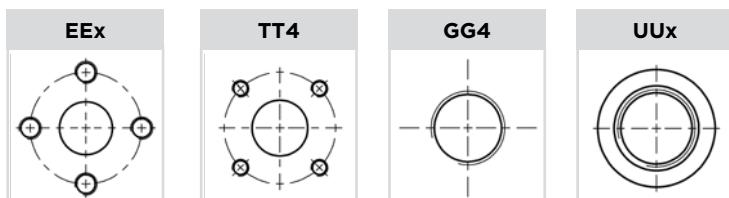
Grandezza Size	Cilindrata cm³/giro Displacement (in³/rev)	Pressione max di esercizio Max working pressure			Dimensioni Dimensions		Massa kg Mass (lbs)
		P1 Bar (psi)	P2 Bar (psi)	P3 Bar (psi)	A mm (in)	B mm (in)	
BG10-09	0.95 (0.058)	240 (3336)	260 (3625)	290 (4061)	38.5 (1.516)	77.9 (3.065)	0.912 (2.01)
BG10-13	1.26 (0.077)	240 (3336)	260 (3626)	290 (4061)	39.1 (1.539)	78.7 (3.098)	0.915 (2.02)
BG10-16	1.64 (0.100)	240 (3481)	260 (3771)	290 (4206)	39.9 (1.569)	80.2 (3.157)	1.012 (2.23)
BG10-21	2.05 (0.125)	240 (3481)	260 (3771)	290 (4206)	40.7 (1.600)	81.8 (3.220)	0.945 (2.08)
BG10-25	2.56 (0.156)	230 (3336)	250 (3625)	280 (4061)	41.7 (1.640)	83.8 (3.299)	0.981 (2.16)
BG10-31	3.15 (0.192)	230 (3336)	250 (3625)	280 (4061)	42.8 (1.685)	86.1 (3.390)	1.008 (2.22)
BG10-38	3.80 (0.232)	220 (3191)	240 (3481)	260 (3771)	44.1 (1.734)	88.6 (3.488)	1.05 (2.31)
BG10-43	4.28 (0.261)	220 (3191)	240 (3481)	260 (3771)	45.0 (1.772)	90.5 (3.563)	1.081 (2.38)
BG10-50	4.97 (0.303)	190 (2756)	210 (3046)	230 (3336)	46.4 (1.825)	93.6 (3.683)	1.124 (2.48)
BG10-62	6.21 (0.379)	190 (2756)	210 (3046)	230 (3336)	48.8 (1.919)	98.4 (3.872)	1.193 (2.63)
BG10-78	7.80 (0.476)	170 (2466)	190 (2756)	210 (3046)	51.9 (2.041)	104.2 (4.102)	1.28 (2.82)
BG10-99	9.85 (0.601)	150 (2175)	170 (2466)	190 (2756)	55.9 (2.199)	112.6 (4.431)	1.396 (3.08)

ALBERI CONSIGLIATI - SUGGESTED SHAFTS



Vedi dimensioni a fine sezione BG10  
See dimensions at the end of section BG10

CONNESSIONI DISPONIBILI - AVAILABLE CONNECTIONS



Vedi dimensioni a fine sezione BG10  
See dimensions at the end of section BG10

"X" = numero variabile dipendente dalla cilindrata  
"X" = variable number that depends on the displacement

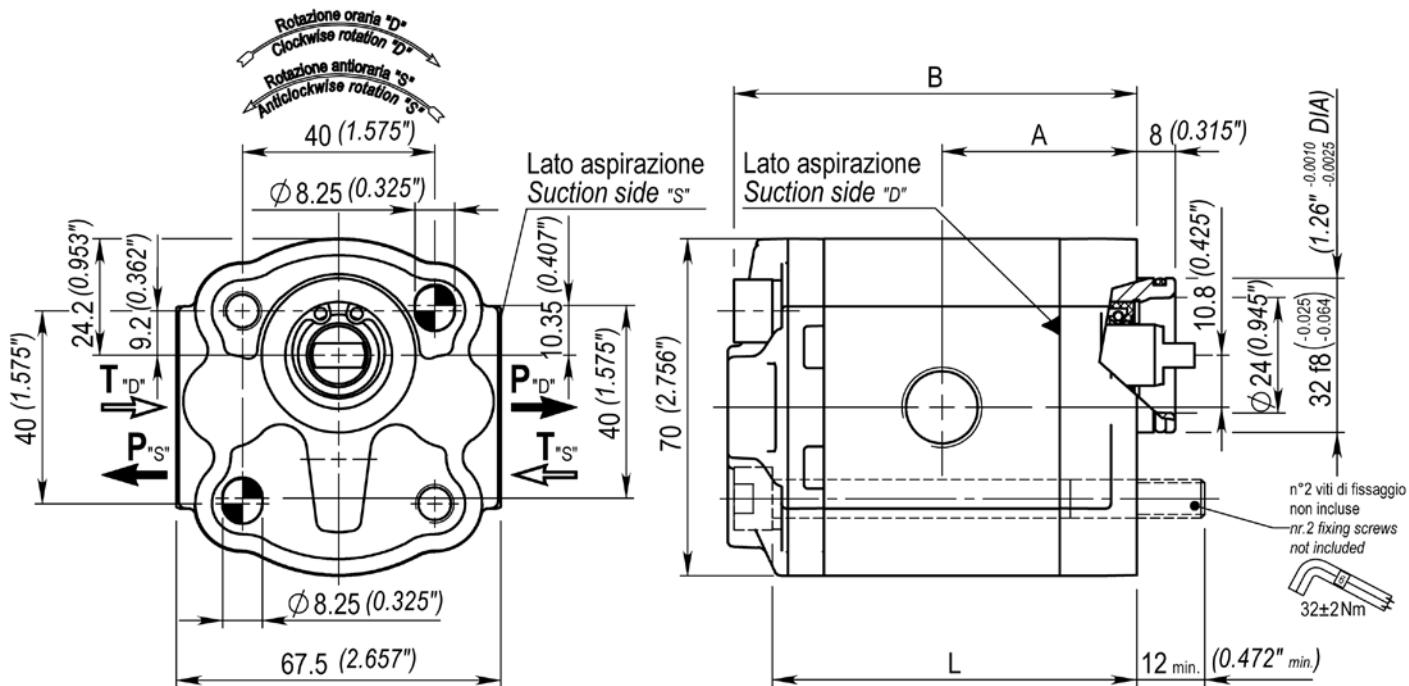
CODICE ORDINAZIONE - ORDERING CODE

BG10	CODICE CODE												
	CILINDRATA DISPLACEMENT	<b>09</b> 0.95	<b>13</b> 1.26	<b>16</b> 1.64	<b>21</b> 2.05	<b>25</b> 2.56	<b>31</b> 3.15	<b>38</b> 3.80	<b>43</b> 4.28	<b>50</b> 4.97	<b>62</b> 6.21	<b>78</b> 7.80	<b>99</b> 9.85
	FLANGIA FLANGE	<b>S20</b>	Flangia Sae AA Sae AA Flange										
	FLANGIA E COPERCHIO FLANGE AND COVER	<b>A</b>	Alluminio Aluminium										
	ALBERO SHAFT	<b>P30</b>	<b>S90</b>										
	CONNESSIONE CONNECTION	<b>EEx</b>	<b>TT4</b>	<b>GG4</b>	<b>UUx</b>								
	ROTAZIONE ROTATION	<b>D</b>	Rotazione destra Clockwise rotation										
		<b>S</b>	Rotazione sinistra Anticlockwise rotation										
	COPERCHIO STANDARD STANDARD COVER	<b>O</b>	Standard Standard										
	GUARNIZIONI SEALS	<b>O</b>	Tenute in Nbr Nbr seals										
		<b>V</b>	Tenute in Viton® Viton® seals										

# BG10 GR. 1

**B&C**  
HYDRAULICS

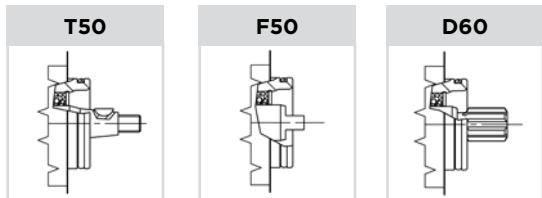
FLANGIA Ø32 DA MINICENTRALINA MZ1  
Ø32 FLANGE FOR POWER PACK MZ1



## DIMENSIONI E PESI - EXTERNAL DIMENSIONS AND WEIGHTS

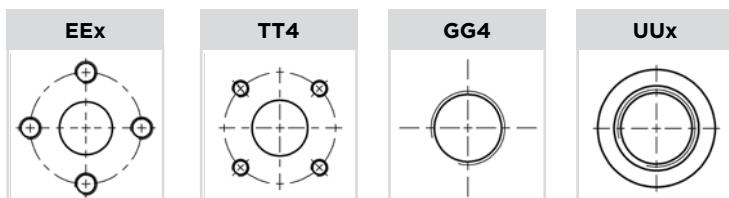
Grandezza Size	Cilindrata cm³/giro Displacement (in³/rev)	Pressione max di esercizio Max working pressure			Dimensioni Dimensions			Massa kg Mass (lbs)
		P1 Bar (psi)	P2 Bar (psi)	P3 Bar (psi)	A mm (in)	B mm (in)	L mm (in)	
BG10-09	0.95 (0.058)	240 (3336)	260 (3625)	290 (4061)	35 (1.38)	74.4 (2.93)	62.8 (2.470)	0.781 (1.72)
BG10-13	1.26 (0.077)	240 (3336)	260 (3626)	290 (4061)	35.6 (1.40)	75.2 (2.96)	64.0 (2.518)	0.792 (1.75)
BG10-16	1.64 (0.100)	240 (3481)	260 (3771)	290 (4206)	36.4 (1.43)	76.7 (3.02)	65.5 (2.577)	0.810 (1.79)
BG10-21	2.05 (0.125)	240 (3481)	260 (3771)	290 (4206)	37.2 (1.46)	78.3 (3.08)	67.1 (2.640)	0.830 (1.83)
BG10-25	2.56 (0.156)	230 (3336)	250 (3625)	280 (4061)	38.2 (1.50)	80.3 (3.16)	69.1 (2.719)	0.861 (1.90)
BG10-31	3.15 (0.192)	230 (3336)	250 (3625)	280 (4061)	39.3 (1.55)	82.6 (3.25)	71.4 (2.809)	0.888 (1.96)
BG10-38	3.80 (0.232)	220 (3191)	240 (3481)	260 (3771)	40.6 (1.60)	85.1 (3.35)	73.9 (2.907)	0.925 (2.04)
BG10-43	4.28 (0.261)	220 (3191)	240 (3481)	260 (3771)	41.5 (1.63)	87 (3.43)	75.8 (2.982)	0.948 (2.09)
BG10-50	4.97 (0.303)	190 (2756)	210 (3046)	230 (3336)	42.9 (1.69)	90.1 (3.55)	78.5 (3.089)	0.992 (2.19)
BG10-62	6.21 (0.379)	190 (2756)	210 (3046)	230 (3336)	45.3 (1.78)	94.9 (3.74)	83.3 (3.278)	1.056 (2.33)
BG10-78	7.80 (0.476)	170 (2466)	190 (2756)	210 (3046)	48.4 (1.91)	100.7 (3.96)	89.5 (3.522)	1.131 (2.49)
BG10-99	9.85 (0.601)	150 (2175)	170 (2466)	190 (2756)	52.4 (2.06)	109.1 (4.30)	97.5 (3.837)	1.248 (2.75)

ALBERI CONSIGLIATI - SUGGESTED SHAFTS



Vedi dimensioni a fine sezione BG10  
See dimensions at the end of section BG10

CONNESSIONI DISPONIBILI - AVAILABLE CONNECTIONS



Vedi dimensioni a fine sezione BG10  
See dimensions at the end of section BG10

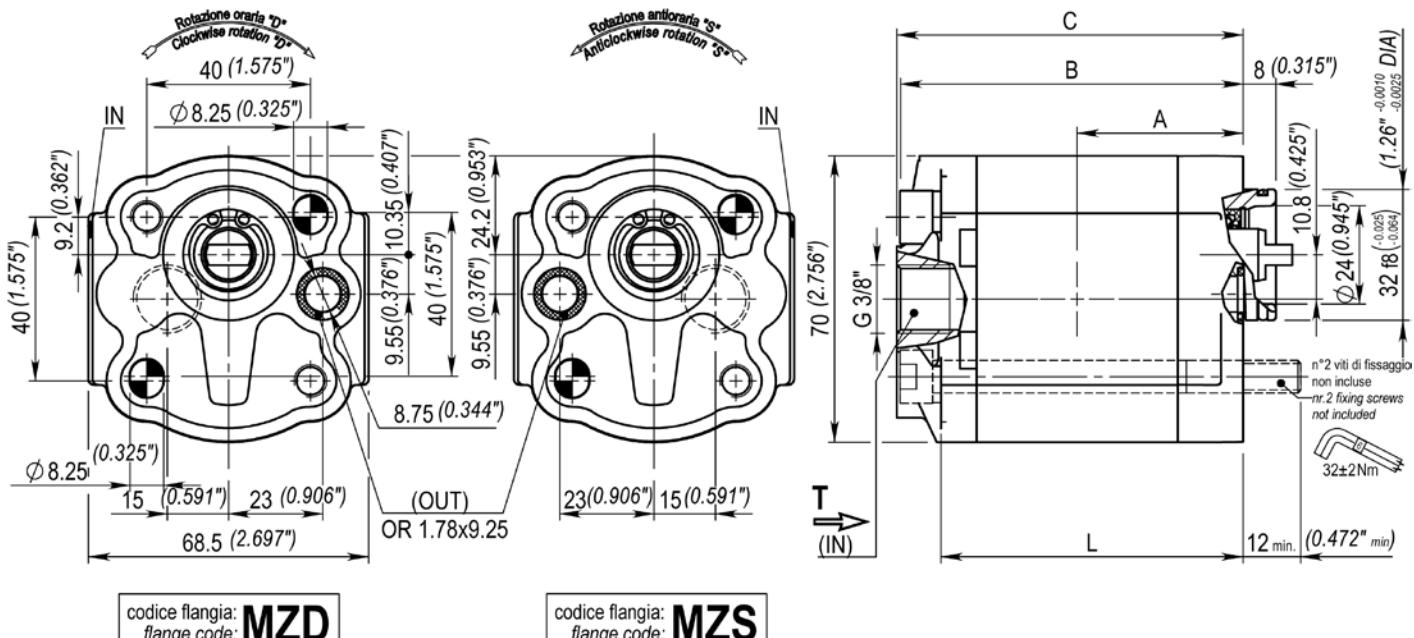
"X" = numero variabile dipendente dalla cilindrata  
"X" = variable number that depends on the displacement

CODICE ORDINAZIONE - ORDERING CODE

BG10	CODICE CODE										
	CILINDRATA DISPLACEMENT	<b>09</b>	<b>13</b>	<b>16</b>	<b>21</b>	<b>25</b>	<b>31</b>	<b>38</b>	<b>43</b>	<b>50</b>	<b>62</b>
	FLANGIA FLANGE	<b>MZ1</b> Flangia Ø32 da minicentralina Ø32 Flange for power pack									
	FLANGIA E COPERCHIO FLANGE AND COVER	<b>A</b> Alluminio Aluminium									
	ALBERO SHAFT	<b>T50</b>	<b>F50</b>	<b>D60</b>							
	CONNESSIONE CONNECTION	<b>EEx</b>	<b>TT4</b>	<b>GG4</b>	<b>UUx</b>						
	ROTAZIONE ROTATION	<b>D</b>	Rotazione destra Clockwise rotation								
		<b>S</b>	Rotazione sinistra Anticlockwise rotation								
	COPERCHIO STANDARD STANDARD COVER	<b>O</b>	Standard Standard								
	GUARNIZIONI SEALS	<b>O</b>	Tenute in Nbr Nbr seals								
		<b>V</b>	Tenute in Viton® Viton® seals								

# BG10 GR. 1

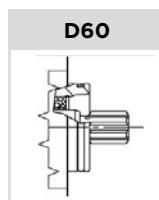
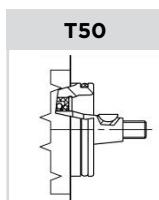
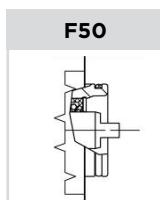
FLANGIA Ø32 CON FORO MANDATA **MZD / MZS**  
 Ø32 FLANGE WITH DELIVERY HOLE **MZD / MZS**



## DIMENSIONI E PESI - EXTERNAL DIMENSIONS AND WEIGHTS

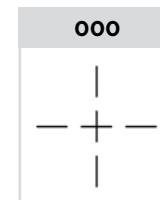
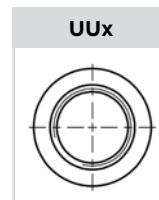
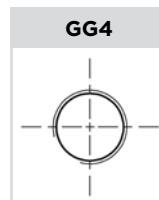
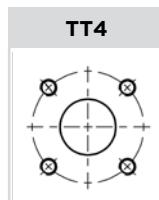
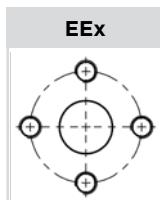
Grandezza Size	Cilindrata cm <sup>3</sup> /giro Displacement (in <sup>3</sup> /rev)	Pressione max di esercizio Max working pressure			Dimensioni Dimensions				Massa kg Mass (lbs)
		P1 Bar (psi)	P2 Bar (psi)	P3 Bar (psi)	A mm (in)	B mm (in)	C mm (in)	L mm (in)	
BG10-09	0.95 (0.058)	240 (3336)	260 (3625)	290 (4061)	35 (1.38)	74.4 (2.93)	73.5 (2.89)	62.8 (2.47)	0.781 (1.72)
BG10-13	1.26 (0.077)	240 (3336)	260 (3626)	290 (4061)	35.6 (1.40)	74 (2.91)	74.7 (2.94)	64.0 (2.52)	0.806 (1.78)
BG10-16	1.64 (0.100)	240 (3481)	260 (3771)	290 (4206)	36.4 (1.43)	75.5 (2.97)	76.2 (3.00)	65.5 (2.58)	0.823 (1.81)
BG10-21	2.05 (0.125)	240 (3481)	260 (3771)	290 (4206)	37.2 (1.46)	77.1 (3.03)	77.8 (3.06)	67.1 (2.64)	0.844 (1.86)
BG10-25	2.56 (0.156)	230 (3336)	250 (3625)	280 (4061)	38.2 (1.50)	79.1 (3.11)	79.8 (3.14)	69.1 (2.72)	0.875 (1.93)
BG10-31	3.15 (0.192)	230 (3336)	250 (3625)	280 (4061)	39.3 (1.55)	81.4 (3.20)	82.1 (3.23)	71.4 (2.81)	0.903 (1.99)
BG10-38	3.80 (0.232)	220 (3191)	240 (3481)	260 (3771)	40.6 (1.60)	83.9 (3.30)	84.6 (3.33)	73.9 (2.91)	0.94 (2.07)
BG10-43	4.28 (0.261)	220 (3191)	240 (3481)	260 (3771)	41.5 (1.63)	85.8 (3.38)	86.5 (3.41)	75.8 (2.98)	0.963 (2.12)
BG10-50	4.97 (0.303)	190 (2756)	210 (3046)	230 (3336)	42.9 (1.69)	90.1 (3.55)	89.2 (3.51)	78.5 (3.09)	1.007 (2.22)
BG10-62	6.21 (0.379)	190 (2756)	210 (3046)	230 (3336)	45.3 (1.78)	94.9 (3.74)	94 (3.70)	83.3 (3.28)	1.072 (2.36)
BG10-78	7.80 (0.476)	170 (2466)	190 (2756)	210 (3046)	48.4 (1.91)	99.5 (3.91)	100.2 (3.94)	89.5 (3.52)	1.147 (2.53)
BG10-99	9.85 (0.601)	150 (2175)	170 (2466)	190 (2756)	108.2 (4.260)	109.1 (4.29)	108.2 (4.26)	97.5 (3.84)	1.266 (2.79)

## ALBERI CONSIGLIATI - SUGGESTED SHAFTS



Vedi dimensioni a fine sezione BG10  
See dimensions at the end of section BG10

## CONNESIONI DISPONIBILI - AVAILABLE CONNECTIONS

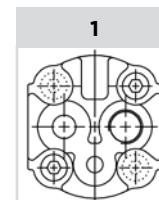
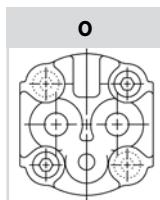


Vedi dimensioni a fine sezione BG10  
See dimensions at the end of section BG10

"X" = numero variabile dipendente dalla cilindrata

"X" = variable number that depends on the displacement

## COPERCHI DISPONIBILI - AVAILABLE COVERS



Vedi dimensioni a fine sezione BG10  
See dimensions at the end of section BG10

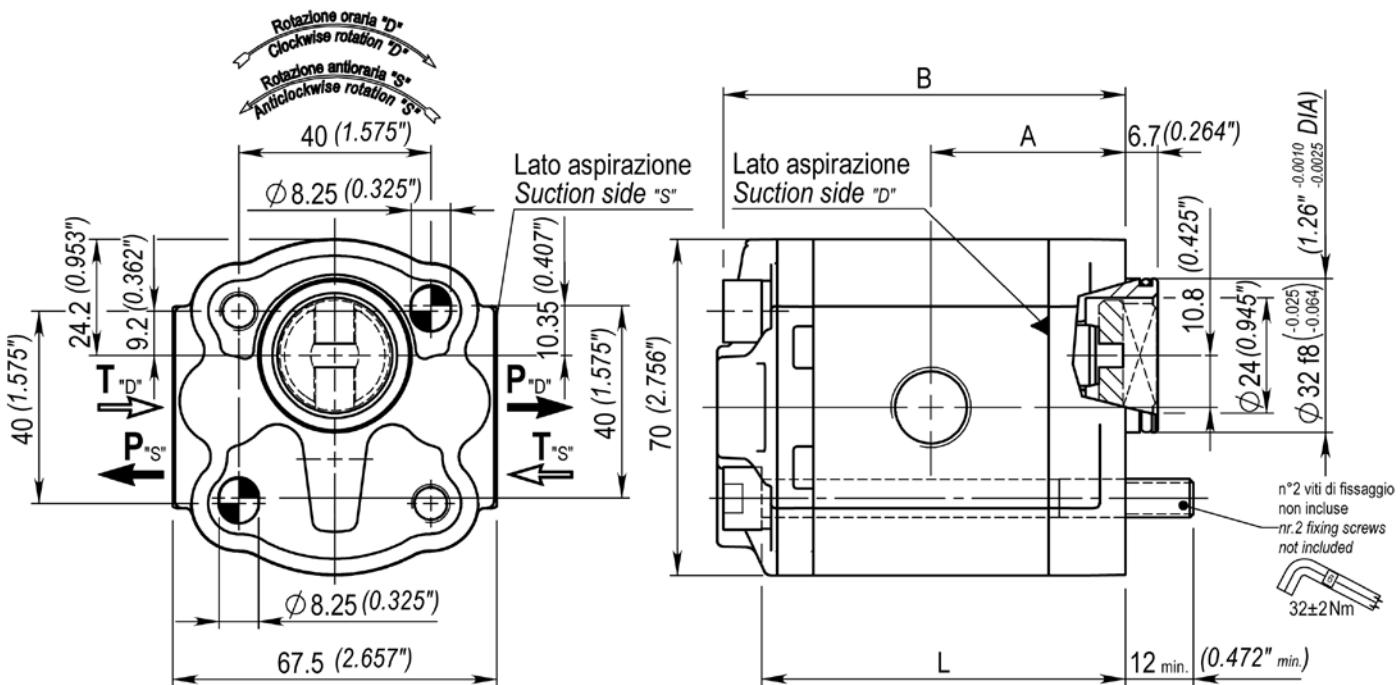
## CODICE ORDINAZIONE - ORDERING CODE

<b>BG10</b>	CODICE CODE	
	CILINDRATA DISPLACEMENT	<b>09</b> 0.95 <b>13</b> 1.26 <b>16</b> 1.64 <b>21</b> 2.05 <b>25</b> 2.56 <b>31</b> 3.15 <b>38</b> 3.80 <b>43</b> 4.28 <b>50</b> 4.97 <b>62</b> 6.21 <b>78</b> 7.80 <b>99</b> 9.85
	FLANGIA FLANGE	<b>MZD</b> Minicentralina destra con foro mandata With delivery hole for right power pack <b>MZS</b> Minicentralina sinistra con foro mandata With delivery hole for left power pack
	FLANGIA E COPERCHIO FLANGE AND COVER	<b>A</b> Alluminio Aluminium
	ALBERO SHAFT	<b>T50</b> <b>F50</b> <b>D60</b>
	CONNESSIONE ASPIRAZIONE SUCTION CONNECTION	<b>O</b> Corpo senza aspirazione Body without suction <b>E</b> <b>T</b> Aspirazione su corpo Suction on the body <b>G</b> <b>U</b>
	CONNESSIONE MANDATA DELIVERY CONNECTION	<b>O</b> Corpo senza mandata Body without delivery
	CONNESSIONE CONNECTION	<b>EEX</b> <b>TT4</b> <b>GG4</b> <b>UUx</b> <b>OOO</b>
	ROTAZIONE ROTATION	<b>D</b> Rotazione destra (solo MZD) Clockwise rotation (only MZD) <b>S</b> Rotazione sinistra (solo MZS) Anticlockwise rotation (only MZS)
	COPERCHIO STANDARD STANDARD COVER	<b>O</b> Standard Standard <b>1</b> Aspirazione su coperchio Suction on the cover
	GUARNIZIONI SEALS	<b>O</b> Tenute in Nbr Nbr seals <b>V</b> Tenute in Viton® Viton® seals

# BG10 GR. 1

**B&C**  
HYDRAULICS

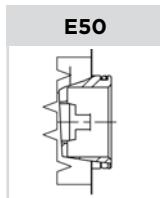
FLANGIA DA ELETTROPOMPA E32C **EZ1**  
FLANGE E32C FOR ELECTRO PUMP **EZ1**



## DIMENSIONI E PESI - EXTERNAL DIMENSIONS AND WEIGHTS

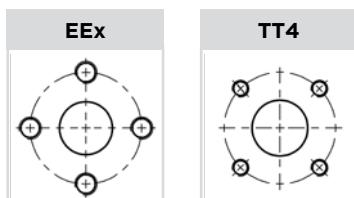
Grandezza Size	Cilindrata cm³/giro Displacement (in³/rev)	Pressione max di esercizio Max working pressure			Dimensioni Dimensions			Massa kg Mass (lbs)
		P1 Bar (psi)	P2 Bar (psi)	P3 Bar (psi)	A mm (in)	B mm (in)	L mm (in)	
BG10-09	0.95 (0.058)	240 (3336)	260 (3625)	290 (4061)	35 (1.38)	74.4 (2.93)	62.8 (2.470)	0.784 (1.73)
BG10-13	1.26 (0.077)	240 (3336)	260 (3626)	290 (4061)	35.6 (1.40)	75.2 (2.96)	64.0 (2.518)	0.771 (1.70)
BG10-16	1.64 (0.100)	240 (3481)	260 (3771)	290 (4206)	36.4 (1.43)	76.7 (3.02)	65.5 (2.577)	0.789 (1.74)
BG10-21	2.05 (0.125)	240 (3481)	260 (3771)	290 (4206)	37.2 (1.46)	78.3 (3.08)	67.1 (2.640)	0.809 (1.78)
BG10-25	2.56 (0.156)	230 (3336)	250 (3625)	280 (4061)	38.2 (1.50)	80.3 (3.16)	69.1 (2.719)	0.840 (1.85)
BG10-31	3.15 (0.192)	230 (3336)	250 (3625)	280 (4061)	39.3 (1.55)	82.6 (3.25)	71.4 (2.809)	0.867 (1.91)
BG10-38	3.80 (0.232)	220 (3191)	240 (3481)	260 (3771)	40.6 (1.60)	85.1 (3.35)	73.9 (2.907)	0.904 (1.99)
BG10-43	4.28 (0.261)	220 (3191)	240 (3481)	260 (3771)	41.5 (1.63)	87 (3.43)	75.8 (2.982)	0.927 (2.04)
BG10-50	4.97 (0.303)	190 (2756)	210 (3046)	230 (3336)	42.9 (1.69)	90.1 (3.55)	78.5 (3.089)	0.971 (2.14)
BG10-62	6.21 (0.379)	190 (2756)	210 (3046)	230 (3336)	45.3 (1.78)	94.9 (3.74)	83.3 (3.278)	1.035 (2.28)
BG10-78	7.80 (0.476)	170 (2466)	190 (2756)	210 (3046)	48.4 (1.91)	100.7 (3.96)	89.5 (3.522)	1.113 (2.45)
BG10-99	9.85 (0.601)	150 (2175)	170 (2466)	190 (2756)	52.4 (2.06)	109.1 (4.30)	97.5 (3.837)	1.227 (2.70)

ALBERI CONSIGLIATI - SUGGESTED SHAFTS

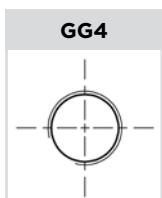


Vedi dimensioni a fine sezione BG10  
See dimensions at the end of section BG10

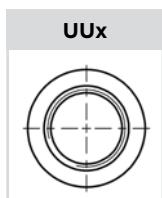
CONNESSIONI DISPONIBILI - AVAILABLE CONNECTIONS



**TT4**



**GG4**



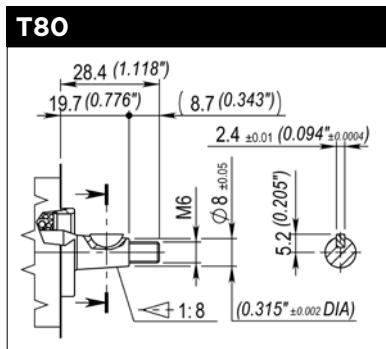
**UUx**

Vedi dimensioni a fine sezione BG10  
See dimensions at the end of section BG10

"X" = numero variabile dipendente dalla cilindrata  
"X" = variable number that depends on the displacement

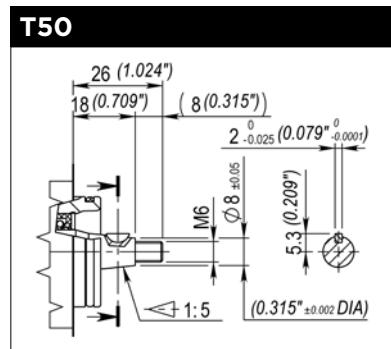
CODICE ORDINAZIONE - ORDERING CODE

<b>BG10</b>	CODICE CODE	
	CILINDRATA DISPLACEMENT	<b>09</b> 0.95 <b>13</b> 1.26 <b>16</b> 1.64 <b>21</b> 2.05 <b>25</b> 2.56 <b>31</b> 3.15 <b>38</b> 3.80 <b>43</b> 4.28 <b>50</b> 4.97 <b>62</b> 6.21 <b>78</b> 7.80 <b>99</b> 9.85
	FLANGIA FLANGE	<b>EZ1</b> E32c da elettropompa E32c for electro pump
	FLANGIA E COPERCHIO FLANGE AND COVER	<b>A</b> Alluminio Aluminium
	ALBERO SHAFT	<b>E50</b>
	CONNESSIONE CONNECTION	<b>EEx</b> <b>TT4</b> <b>GG4</b> <b>UUx</b>
	ROTAZIONE ROTATION	<b>D</b> Rotazione destra Clockwise rotation <b>S</b> Rotazione sinistra Anticlockwise rotation
	COPERCHIO STANDARD STANDARD COVER	<b>O</b> Standard Standard
	GUARNIZIONI SEALS	<b>O</b> Tenute in Nbr Nbr seals <b>V</b> Tenute in Viton® Viton® seals
	ACCESSORI OPTIONALS	<b>3</b> Con giunto With coupling



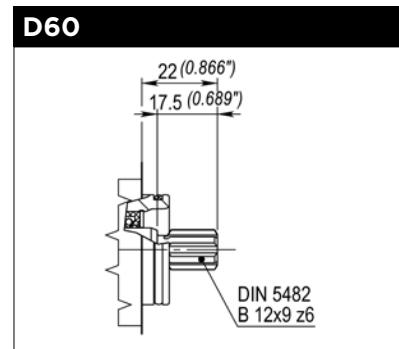
CONICITÀ 1:8  
TAPER 1:8

Coppia max trasmissibile 28 Nm  
Max torque 28 Nm



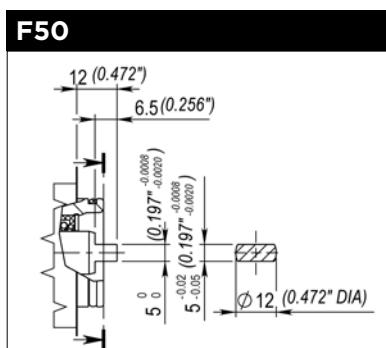
CONICITÀ 1:5  
TAPER 1:5

Coppia max trasmissibile 33 Nm  
Max torque 33 Nm



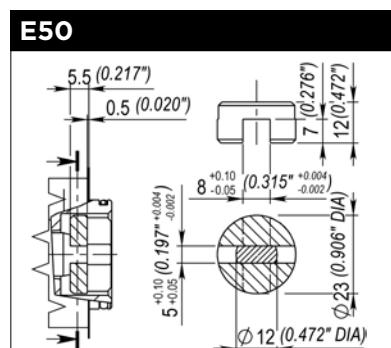
DIN Z6  
DIN Z6

Coppia max trasmissibile 26 Nm  
Max torque 26 Nm



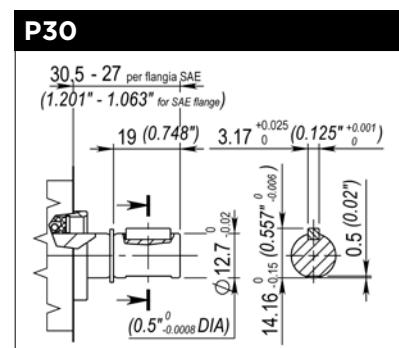
PENNA PER MINICENTRALINA  
TANG DRIVE FOR POWER PACK

Coppia max trasmissibile 20 Nm  
Max torque 20 Nm



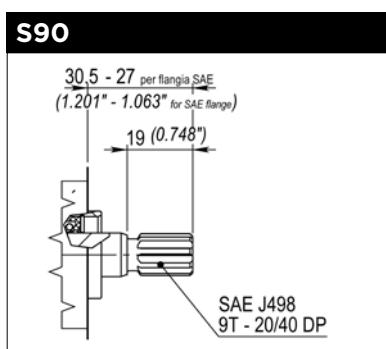
PENNA PER ELETTROPOMPA  
TANG DRIVE ELECTRIC PUMP

Coppia max trasmissibile 20 Nm  
Max torque 20 Nm



CILINDRICO SAE  
SAE CYLINDRICAL

Coppia max trasmissibile 33 Nm  
Max torque 33 Nm



SCANALATO SAE 9 DENTI  
SAE SPLINED 9 TEETH

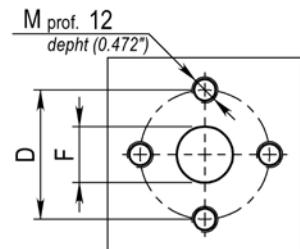
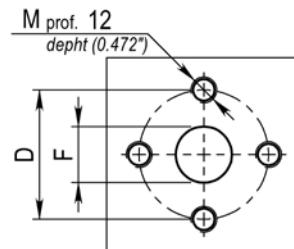
Coppia max trasmissibile 35 Nm  
Max torque 35 Nm

Nel caso di montaggio con flangia SAE AA (cod.S20)  
le sporgenze vanno ridotte di 3.5 mm (0.1378 In.)  
When assembled with SAE AA flange (S20 code)  
the shaft dimensions must be reduced by 0.1378 In. (3.5 mm)

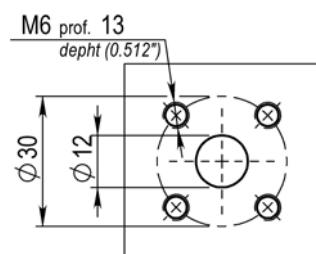
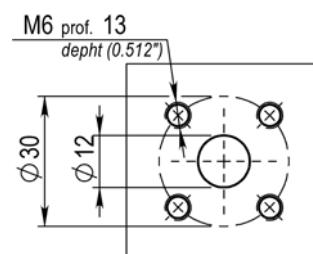
STANDARD EUROPEO - EUROPEAN STANDARD				
Grandezza Size	Codice Code	D	F	M
09-21	<b>EE4</b>	26 (1.023)	10 (0.393)	M5
25-99	<b>EE6</b>	30 (1.181)	13 (0.512)	M6

ASPIRAZIONE lato riferimento  
SUCTION reference side

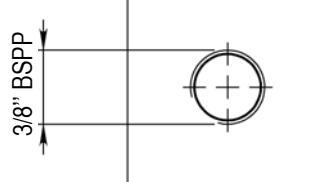
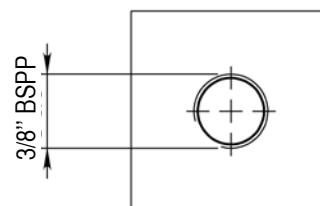
MANDATA  
DELIVERY



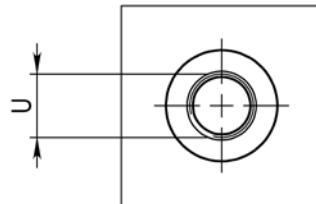
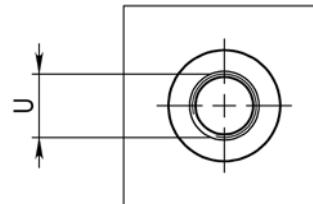
UNIFICAZIONE TEDESCA - GERMAN UNIFICATION	
Grandezza Size	Codice Code
09-99	<b>TT4</b>



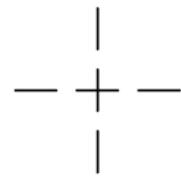
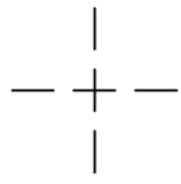
FILETTATURE BSPP - BSPP THREADS	
Grandezza Size	Codice Code
09-99	<b>GG4</b>



FILETTATURE SAE - SAE THREADS		
Grandezza Size	Codice Code	D
09-21	<b>UU4</b>	9/16"-18 UNF
25-99	<b>UU6</b>	3/4"-16 UNF

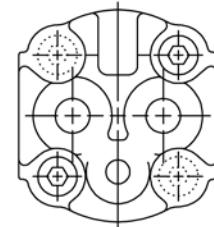


CORPO NEUTRO (SENZA ATTACCHI) NEUTRAL BODY (WITHOUT CONNECTIONS)		
Grandezza Size	Codice Code	
09-99	<b>000</b>	



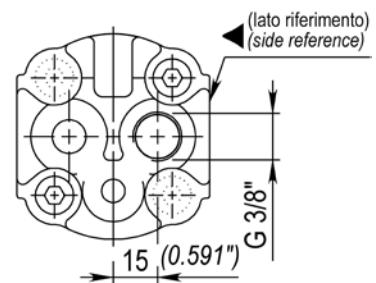
COPERCHIO STANDARD - STANDARD COVER

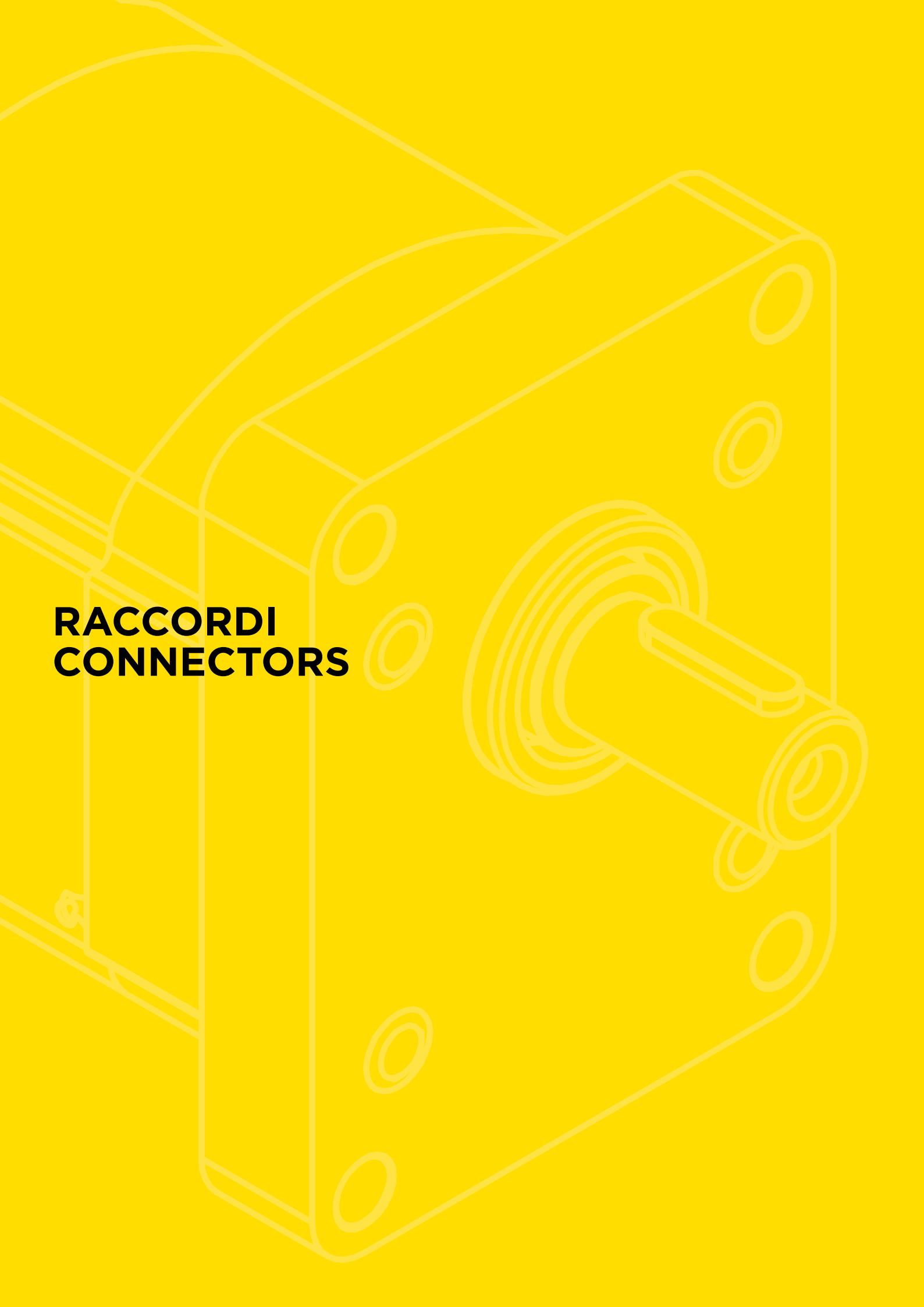
Grandezza Size	Codice Code
09-99	<b>0</b>



ASPIRAZIONE SU COPERCHIO FILETTATO BSP  
SUCTION ON THE COVER BSP THREADED

Grandezza Size	Codice Code
09-99	<b>1</b>



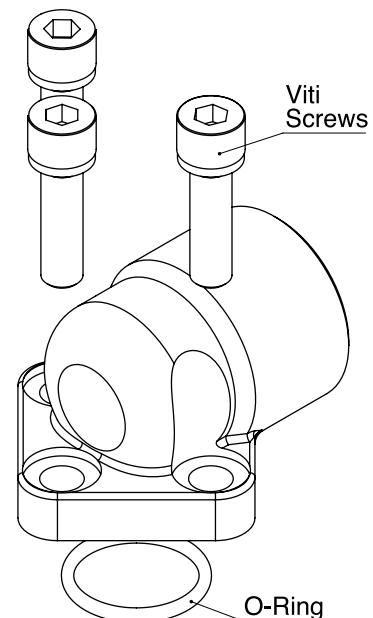
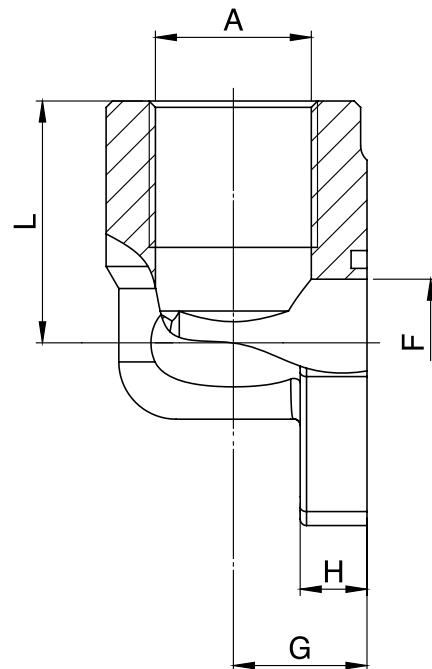
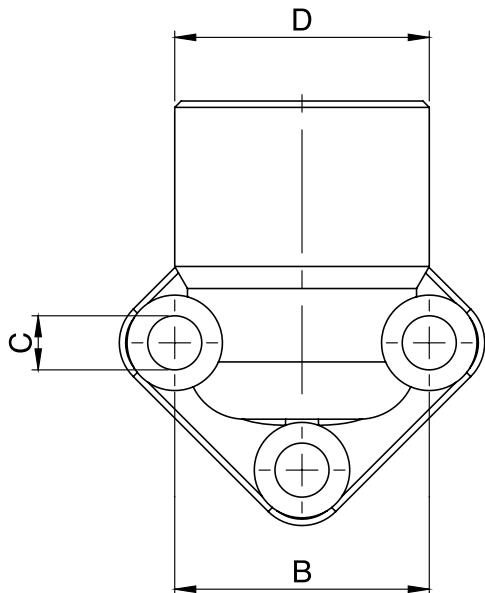


# RACCORDI CONNECTORS

# RACCORDI CONNECTORS

**B&C**  
HYDRAULICS

RACCORDI A GOMITO PER CONNESSIONI TIPO "EE"  
ELBOW CONNECTORS FOR CONNECTIONS TYPE "EE"



Materiale: acciaio  
Material: steel

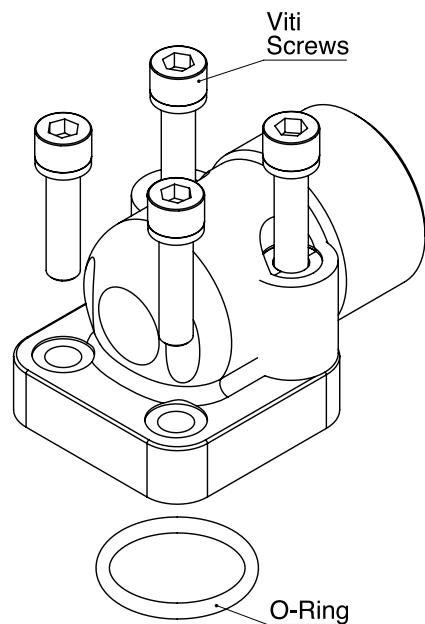
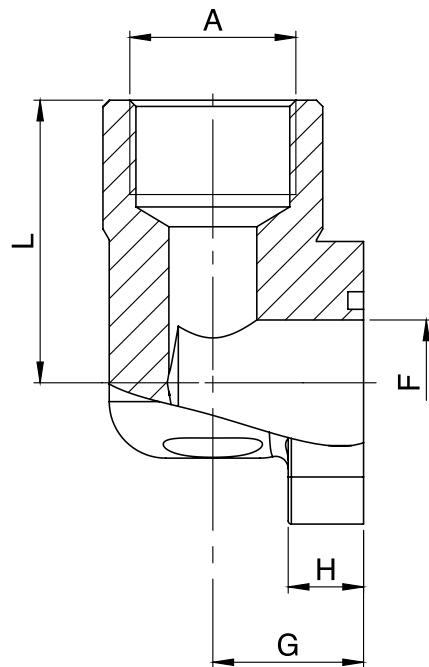
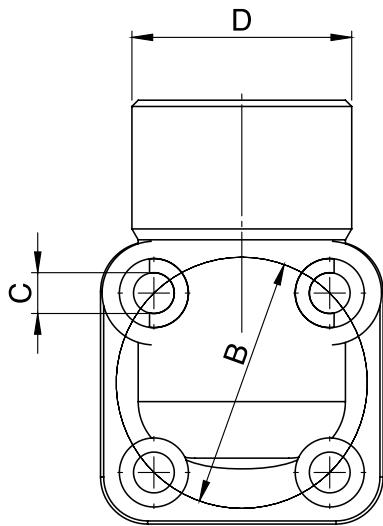
## DIMENSIONI - EXTERNAL DIMENSIONS

Codice ordinazione Order code	Press. max (bar) Max press. (bar)	Dimensioni Dimensions								N° fori Holes N°	Viti metriche Metric screws	O-ring O-ring
		A	B	C	D	F	G	H	L			
F0001000	300	3/8" BSPP	26	5.5	30.5	11.5	18	9.5	27	3	M5 x 20	2056
F0001100	300	1/2" BSPP	26	5.5	30.5	11.5	18	9.5	27	3	M5 x 20	2056
F0001200	300	3/8" BSPP	30	6.5	30.5	11.5	18	9.5	27	3	M6 x 20	121
F0001300	300	1/2" BSPP	30	6.5	30.5	11.5	18	9.5	27	3	M6 x 20	121
F0001400	300	1/2" BSPP	40	8.5	40	20	21	10.5	38	3	M8 x 25	132
F0001500	300	3/4" BSPP	40	8.5	40	20	21	10.5	38	3	M8 x 25	132
F0001600	300	3/4" BSPP	51	10.5	45	25	27	13.5	47	3	M10 x 30	3125
F0001700	300	1" BSPP	51	10.5	45	25	27	13.5	47	3	M10 x 30	3125

# RACCORDI CONNECTORS

**B&C**  
HYDRAULICS

RACCORDI A GOMITO PER CONNESSIONI TIPO "TT"  
ELBOW CONNECTORS FOR CONNECTIONS TYPE "TT"



Materiale: acciaio  
Material: steel

## DIMENSIONI - EXTERNAL DIMENSIONS

Codice ordinazione Order code	Press. max (bar) Max press. (bar)	Dimensioni Dimensions								N° fori Holes N°	Viti metriche Metric screws	O-ring O-ring
		A	B	C	D	F	G	H	L			
F0002800	300	3/8" BSPP	30	6.5	34	12	19	11	41	4	M6 x 20 - M6 x 35	121
F0002900	300	1/2" BSPP	30	6.5	34	12	19	11	41	4	M6 x 20 - M6 x 35	121
F0003000	300	3/8" BSPP	35	6.5	32	13.5	18	11	40	4	M6 x 20 - M6 x 35	3075
F0003100	300	1/2" BSPP	35	6.5	32	13.5	18	11	40	4	M6 x 20 - M6 x 35	3075
F0003200	300	1/2" BSPP	40	6.5	35	20	24	10	45	4	M6 x 25 - M6 x 45	132
F0003300	300	3/4" BSPP	40	6.5	35	20	24	10	45	4	M6 x 25 - M6 x 45	132
F0003400	300	3/4" BSPP	55	8.5	46	25	35	13	54	4	M8 x 25 - M8 x 60	4118
F0003500	300	1" BSPP	55	8.5	46	25	35	13	54	4	M8 x 25 - M8 x 60	4118

**B & C S.r.l**

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