

## POMPE GRUPPO 2

**OT OilTechnology è una giovane azienda, costituita nel novembre del 2001 , che produce nell'hinterland di Parma una valida gamma di pompe ad ingranaggi esterni.**

**Dal punto di vista tecnico OT OilTechnology ha realizzato un progetto " aggiornato " che è la sintesi delle esperienze applicative e delle nuove esigenze di mercato.**

**Le chiavi del successo di OT sono:**

- SERVIZIO: Un servizio esemplare e flessibile per caratterizzare l'azienda.**
- QUALITA': Costante monitoraggio del processo produttivo e adeguato collaudo finale prodotto al 100% per assicurare la migliore qualità.**
- PREZZO: Bassi costi di struttura uniti ad un processo produttivo efficiente per garantire prezzi competitivi.**
- PROPORSI E DIVENIRE PARTNER DEI PROPRI CLIENTI: questa è la MISSION di OT OilTechnology.**

## GROUP 2 PUMPS

**OT OilTechnology is a young Company, founded in November 2001, which makes a comprehensive range of external gear pumps.**

**From the technical side OT Oiltechnology has realized an "up-to date" project that is in line with the new needs of the market.**

**The OT key to succes is the following:**

- SERVICE: A very good service, higly flexible, most important attribute of the Company.**
- QUALITY: Costant quality control and 100% product resting to achieve the best results possible from our working processes.**
- PRICE: Low overheads together with an efficient working process to offer competitive prices.**
- TO BE A PARTNER OF OUR CUSTOMERS: This is the MISSION of OT OilTechnology.**

## POMPE GRUPPO 2

### INDICE GENERALE

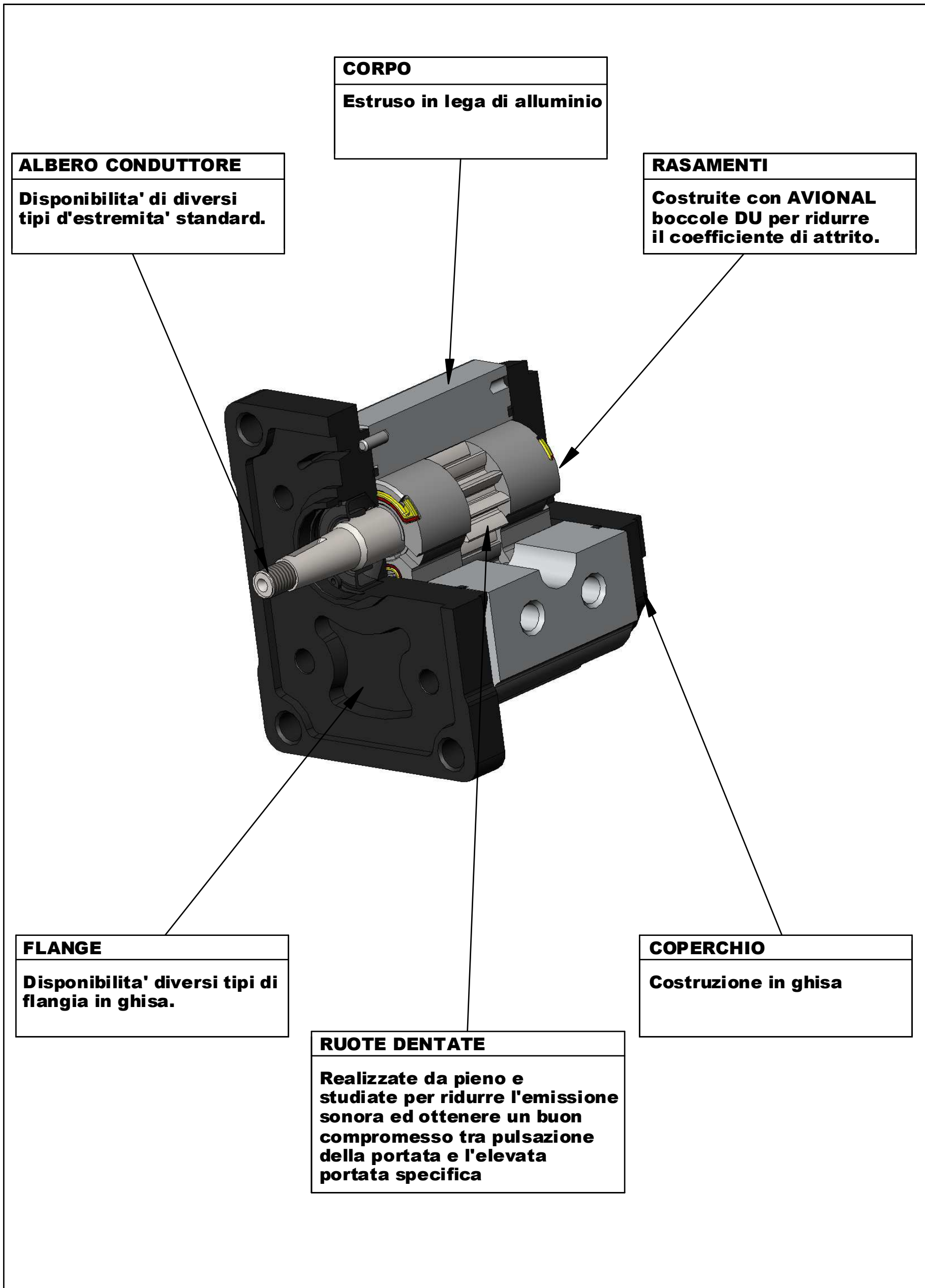
- Caratteristiche costruttive, generali e di impiego	Pag. 4 - 6 - 8 - 10
- Inversione della rotazione	Pag. 12
- Verifica della durata del cuscinetto	Pag. 14
- Curve caratteristiche - determinazione di una pompa	Pag. 16 - 18
- Pompe standard Europeo	Pag. 20 - 22
- Pompe standard Tedesco	Pag. 24 - 26 - 28 - 30 - 32 - 34
- Pompe standard Americano SAE "A"	Pag. 36 - 38 - 40 - 42 - 44 46 - 48 - 50 - 52
- Pompe con supporto	Pag. 54 - 56 - 58 - 60 - 62 - 64 66 - 68 - 70
- Pompe tandem	Pag. 72 - 74 - 76 - 78 - 80 - 82 84 - 86 - 88 - 90 - 92 - 94
- Pompe intermedie e componenti speciali	Pag. 96 - 98 - 100
- Motori unidirezionali	Pag. 102 - 104 - 106 - 108
- Pompe e motori reversibili	Pag. 110 - 112 - 114 - 116 - 118 120
- Coperchi posteriori per pompe e motori	Pag. 122 - 124 - 126

## GROUP 2 PUMPS

### GENERAL INDEX

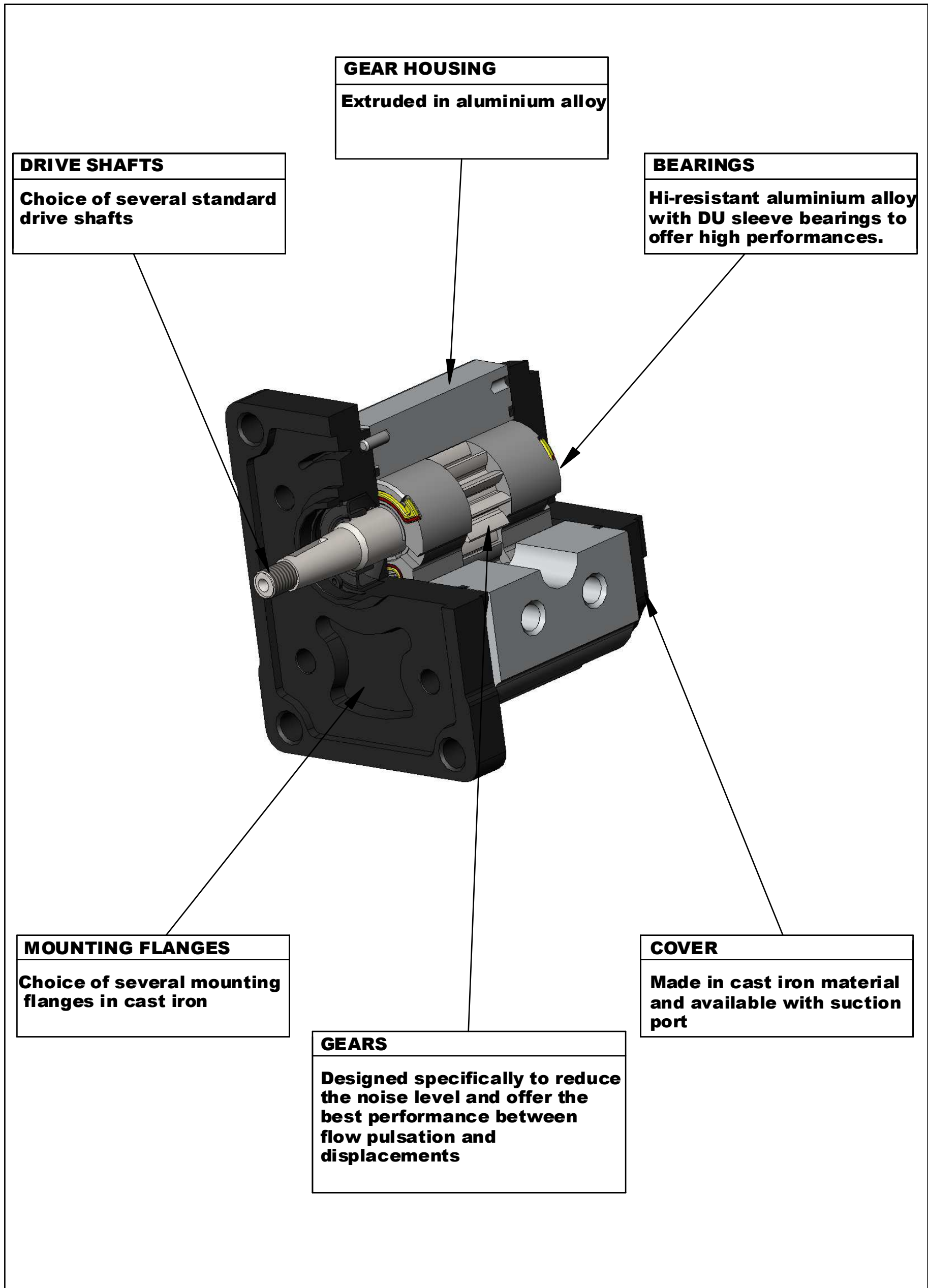
- Constructive and general characteristics, installation instructions	Page 5 - 7 - 9 - 11
- Changing rotation	Page 13
- Verify of bearing duration	Page 15
- Characteristics curves - pump calculation	Page 17 - 19
- European standard pumps	Page 21 - 23
- German standard pumps	Page 25 - 27 - 29 - 31 - 33 - 35
- SAE "A" standard pumps	Page 37 - 39 - 41 - 43 - 45 47 - 49 - 51 - 53
- Pumps with front bearing	Page 55 - 57 - 59 - 61 - 63 - 65 67 - 69 - 71
- Tandem pumps	Page 73 - 75 - 77 - 79 - 81 - 83 85 - 87 - 89 - 91 - 93 - 95
- Intermediate pumps special versions	Page 97 - 99 - 101
- Unidirectional motors	Page 103 - 105 - 107 - 109
- Reversible pumps and motors	Page 111 - 113 - 115 - 117 - 119 121
- Rear cover for pumps and motors	Page 123 - 125 - 127

## POMPE GRUPPO 2





## GROUP 2 PUMPS



## POMPE GRUPPO 2

### CARATTERISTICHE COSTRUTTIVE

<i>PARTE</i>	<i>MATERIALE</i>	<i>CARATTERISTICHE</i>
<i>INGRANAGGI</i>	Acciaio da cement. UNI 7846	Rs= 1250 N/mm <sup>2</sup> Rm= 1450 N/mm <sup>2</sup>
<i>FLANGIA E COPERCHIO</i>	Ghisa G25 / G30	Rs= 300 N/mm <sup>2</sup> Rm= 450 N/mm <sup>2</sup>
<i>RASAMENTI</i>	Avional Boccole autolubrificanti DU	Rs= 350 N/mm <sup>2</sup> Rm= 390 N/mm <sup>2</sup>
<i>CORPO POMPA</i>	Estruso Lega serie 7020 trattato termicamente	Rs= 350 N/mm <sup>2</sup> Rm= 390 N/mm <sup>2</sup>
<i>GUARNIZIONI</i>	Acrilonitrile standard Viton	90 Shore, resistenza termica 120°C 80 Shore, resistenza termica 200°C
<i>ANTIESTRUSORI</i>	Zitel	Caricato con fibra di vetro

Rs= Carico di snervamento.

Rm= Carico di rottura

### CARATTERISTICHE GENERALI:

Pressioni massime fino a 300 bar.

Pesi : da 3.1 Kg a 4.3 kg

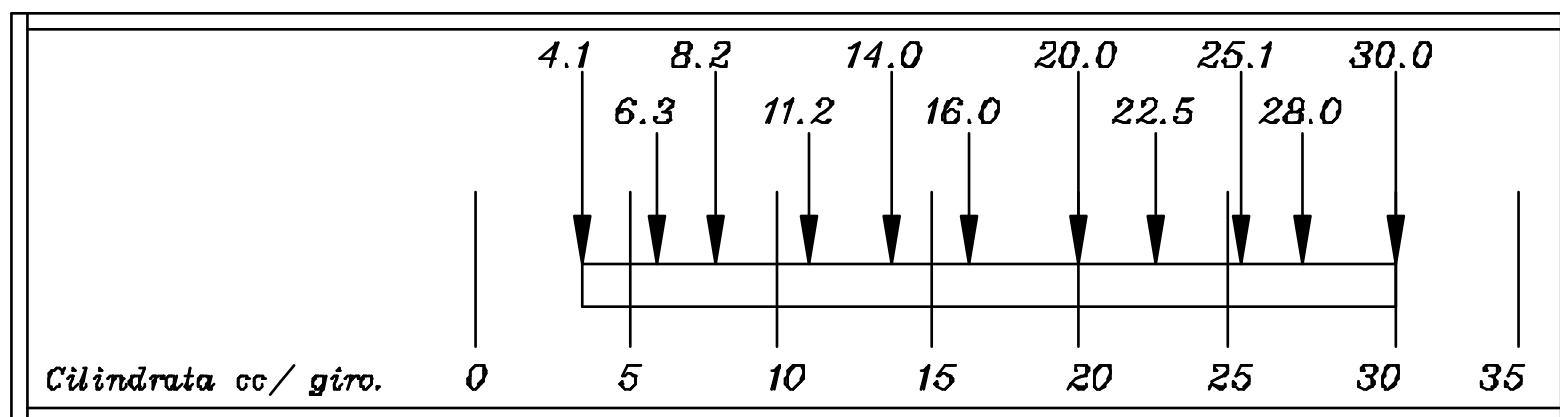
Regimi di rotazione fino a 4000 giri/min.

Alberi disponibili: Conico 1:8 con linguetta a disco.  
Conico 1:5 con linguetta a disco  
Penna con codolo fresato.  
Scanalato DIN 5482 17x14.  
SAE A-9 denti , SAE cilindrico Ø15.85 , SAE A 11 denti

Versioni con flangie: Tipo standard europeo.  
Tipo serie tedesca Ø80, e BOSCHØ50  
Tipo SAE "A".

Cilindrate da 4.1 cc/giro a 30 cc/giro.

Le cilindrate disponibili sono espresse nel seguente schema:



Sono inoltre disponibili versioni speciali con flangia a supporto per trasmissione indipendente.

Altre versioni speciali prevedono la realizzazione di pompe doppie con valvola di sequenza integrata nel coperchio posteriore e pompe con valvola di massima pressione integrata.

### TRASCINAMENTO

Il collegamento della pompa al motore deve essere realizzato con un giunto che, durante la rotazione, non trasferisca alcuna forza radiale e/o assiale.

In questo caso sarebbe inevitabile una rapida usura delle parti interne in movimento con conseguente decadimento delle prestazioni stesse della pompa.

Se il moto viene trasmesso alla pompa a mezzo di ingranaggi , cinghie o catene e' necessario montare il supporto per trasmissione indipendente.

Nel caso di utilizzo di manicotti scanalati o di giunti di oldham , per evitare il deterioramento degli stessi , occorre assicurare una costante lubrificazione mediante grasso o prodotti specifici.

## GROUP 2 PUMPS

### CONSTRUCTIVE CHARACTERISTICS:

<i>PART</i>	<i>MATERIAL</i>	<i>CHARACTERISTICS</i>
<i>GEARS</i>	Hardened steel UNI 7846	Rs= 1250 N/mm <sup>2</sup> Rm= 1450 N/mm <sup>2</sup>
<i>FLANGE AND COVER</i>	G25 / G30 cast iron	Rs= 300 N/mm <sup>2</sup> Rm= 450 N/mm <sup>2</sup>
<i>BEARINGS</i>	Avional Bearings with DU	Rs= 350 N/mm <sup>2</sup> Rm= 390 N/mm <sup>2</sup>
<i>BODY</i>	Etruded in aluminium alloy Series 7020	Rs= 350 N/mm <sup>2</sup> Rm= 390 N/mm <sup>2</sup>
<i>O- RINGS</i>	Buna N Viton	90 Shore, up to 90°C 80 Shore, for high temperature
<i>ANTIEXTRUSION</i>	Zitel	With glass fibres

Rs= Enervation load

Rm= Breaking load

### GENERAL CHARACTERISTICS:

Maximum pressures up to 300 bar.

Weight : from 3.1 Kg to 4.3 kg

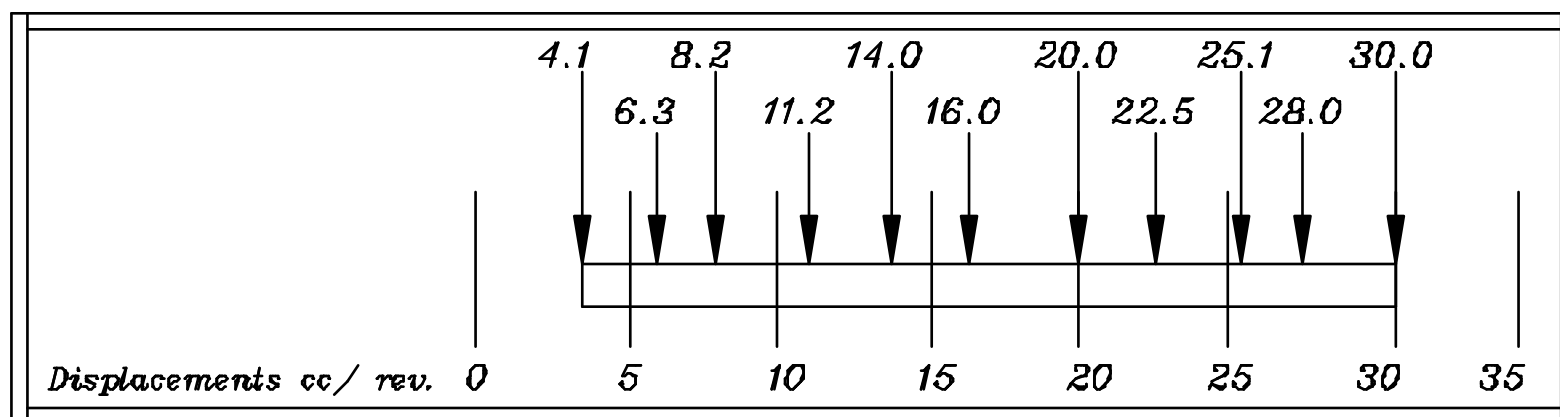
Maximum speed up to 4.000 rpm.

Type of shafts: Taper 1:8 and 1:5  
Oldham  
Splined DIN 5482 17x14.  
SAE A splined-9 TEETH  
SAE A cylindrical - Ø15.85 - SAE A 11 TEETH

Type of flanges: European standard  
German standard  
SAE A standard.

Displacements from 4 cc/rev to 30cc/rev.

The displacements are available according this table:



There is also available a special version with built-in support.

### DRIVE:

The connection of the pump to the motor must be done preferably with the use of a flexible coupling to avoid any radial and/or axial force on the shaft, otherwise pump efficiency will dramatically drop due to early wear of inner moving parts.

In any applications where the motion is trasmitted through belts, it is necessary to use a support to avoid any radial or axial load to the pump shaft.

In any applications where are used splined shafts ot Oldham couplings, it is suggested to assure a costant lubrification through grease or similar products.

## POMPE GRUPPO 2

### CONDIZIONI DI IMPIEGO- PRESTAZIONI LIMITE

In normali condizioni di funzionamento , nel condotto di aspirazione rileviamo una leggera depressione: cioè in normale utilizzo la pressione di alimentazione è minore di quella atmosferica.  
Il campo di pressioni di esercizio in alimentazione deve rispettare i seguenti valori:

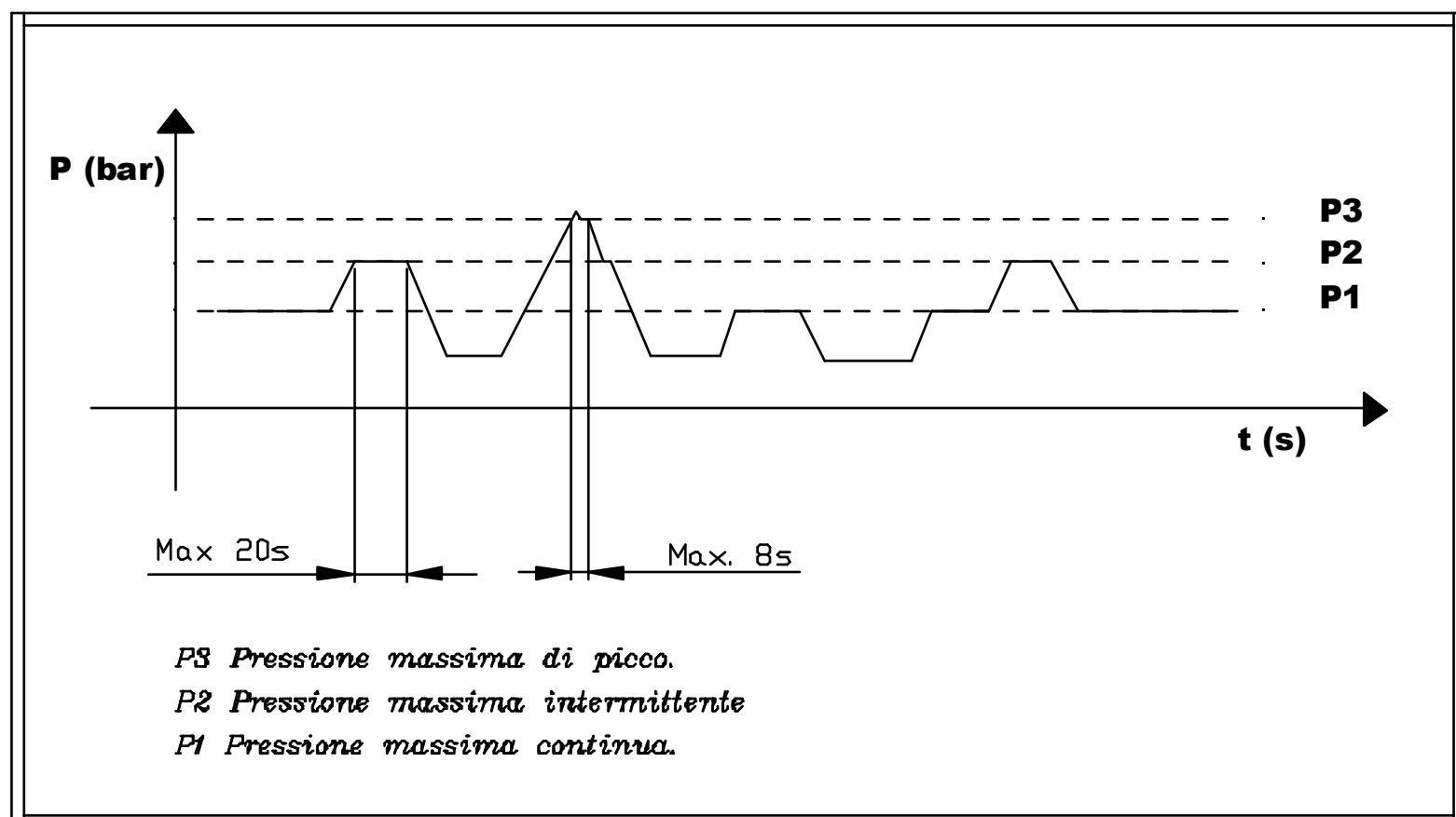
Min. 0.75 bar (assoluti)

MAX 2,0 bar (assoluti)

Per valori di funzionamento con pressione in ingresso maggiore di quella Max. indicata è necessario contattare il nostro ufficio tecnico.

I valori di pressione massima " P1 " sono riferiti al funzionamento continuo a 1500 giri/1' con fluidi idraulici normali con viscosità min = 10 cST.

Per valori più gravosi sia di regime che di viscosità ( alta temperatura) e' necessario diminuire la P1.  
La normale definizione delle pressioni di lavoro o ammesse è riportata nella seguente tabella:

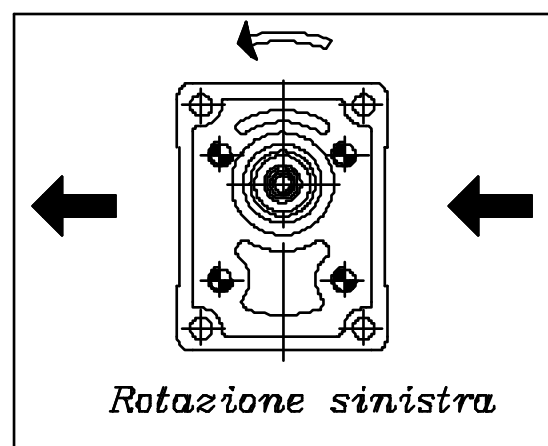
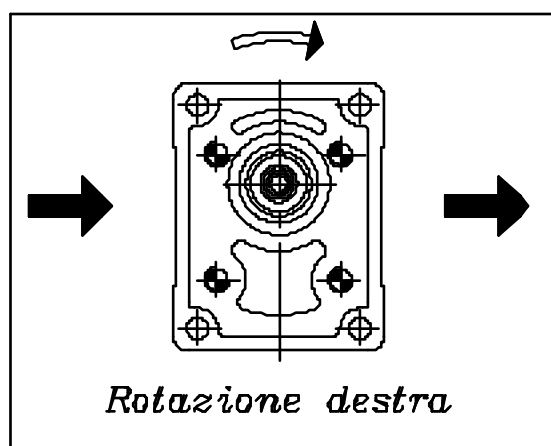


Per un regolare funzionamento i regimi di rotazione non debbono superare i valori max indicati, e riportati nelle relative tabelle, così come il regime minimo di rotazione non deve essere inferiore al seguente valore:

Min. = 400 giri/1'

Max = ( vedi tabelle )

### DEFINIZIONE DEL SENSO DI ROTAZIONE GUARDANDO L'ALBERO DI TRASCINAMENTO



## GROUP 2 PUMPS

### WORKING CONDITIONS- LIMIT PERFORMANCES

In normal working conditions there must be, in the suction pipe, a pressure lower than the atmospheric pressure.

The pressure range in suction must be:

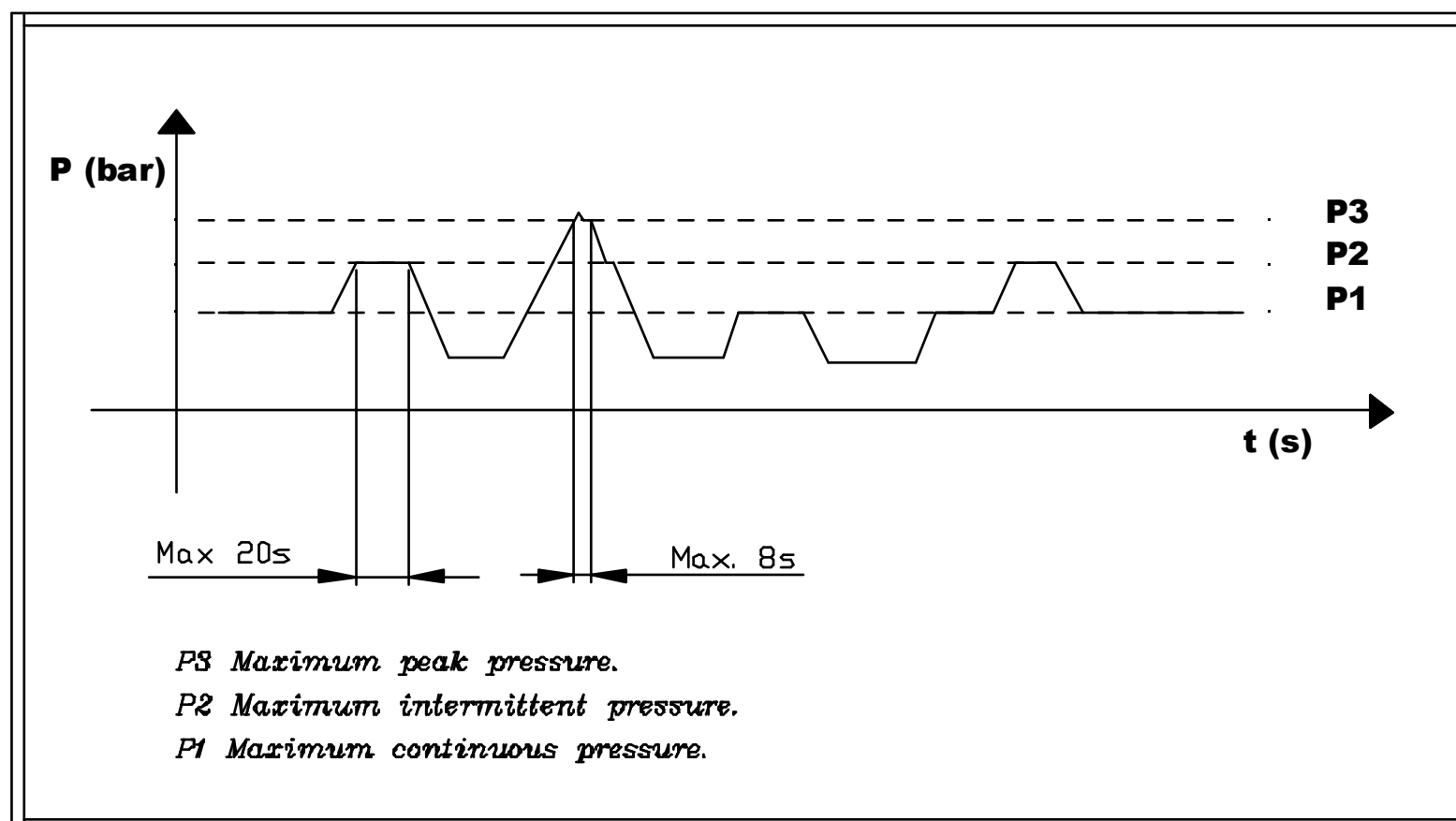
Min. 0.75 bar (absolute)

MAX 2,0 bar (absolute)

The maximum pressure values "P1" are referred to a continuous working at 1500 rpm with standard hydraulic fluids with minimum viscosity of 10 cSt.

For heavier working conditions ( viscosity or high temperature ) it is necessary to reduce the "P1" values.

In the following table are described the admitted pressures:

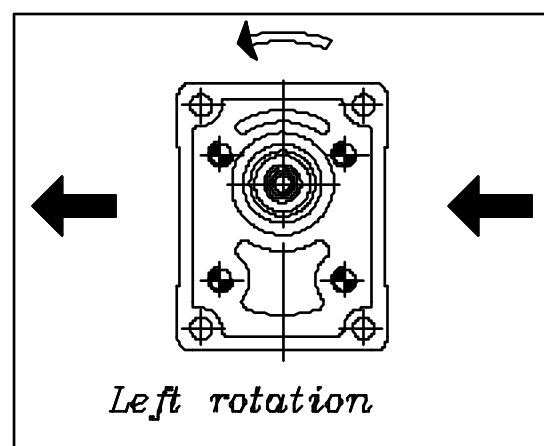
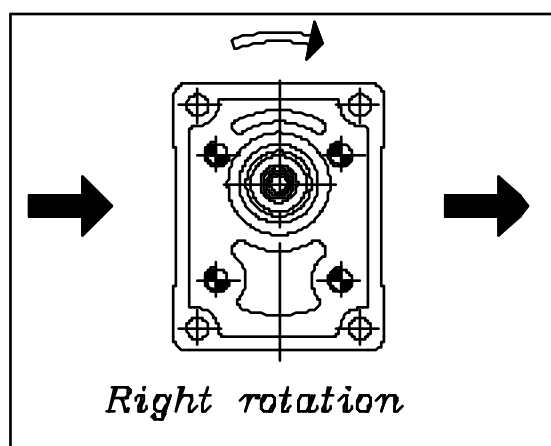


The standard working speeds ( minimum and maximum ) are the following:

Min. = 400 rpm

Max = ( See following table )

### DIRECTION OF ROTATION LOOKING AT THE SHAFT:



## POMPE GRUPPO 2

### FILTRAZIONE FLUIDO

E' ormai provato che la maggior parte dei prematuri cali di prestazione delle pompe e' dovuto al loro funzionamento in condizioni di filtrazione scorretta.

La presenza di particelle contaminanti in un fluido idraulico dovuta ad un'inefficace sistema di filtrazione puo' in effetti portare ad un irreparabile danneggiamento degli elementi interni della pompa.

Si raccomanda di porre particolare attenzione alla pulizia dell'impianto, soprattutto in fase di avviamento dello stesso.

L'iniziale contaminazione del fluido deve essere in accordo alla norma ISO 4406 e non dovrebbe superare la classe 19/16 con un filtro 3x75.

E' importante dimensionare il serbatoio in modo tale che abbia una capacita' almeno doppia rispetto al volume di fluido pompato dalla pompa in un minuto di funzionamento.

Sono indicati di seguito i parametri tecnici che e' importante rispettare:

<i>FILTRAGGIO IN INGRESSO</i>	<b>120 / 150 Micron nominali</b>
<i>FILTRAGGIO IN USCITA</i>	<b>10 / 25 Micron assoluti</b>
<i>VELOCITA' MAX IN INGRESSO</i>	<b>0.5 / 1.5 m/s</b>
<i>VELOCITA' MAX IN USCITA</i>	<b>3.0 / 5.5 m/s</b>

In ambienti di lavoro particolarmente inquinati e' particolarmente importante ridurre ulteriormente il filtraggio in uscita e prevedere anche un filtro aria.

### FLUIDI IDRAULICI

Si raccomanda l'utilizzo di fluidi esclusivamente progettati per l'impiego in trasmissioni oleodinamiche, tipicamente olio idraulico a base minerale HLP HV (DIN 51524)

Sono indicati di seguito i parametri tecnici che e' importante rispettare:

<i>VISCOSITA' MINIMA</i>	<b>10 mm<sup>2</sup>/s</b>
<i>VISCOSITA' MASSIMA</i>	<b>100 mm<sup>2</sup>/s</b>
<i>VISCOSITA' CONSIGLIATA</i>	<b>20 mm<sup>2</sup>/s - 100 mm<sup>2</sup>/s</b>
<i>TEMPERATURA CONSIGLIATA</i>	<b>30°C / 50°C</b>
<i>TEMPERATURA DI ESERCIZIO</i>	<b>-15°C / +80°C</b>

Se si impiega Acqua-glicol (HF-C) si devono adottare le seguenti limitazioni: n.giri max 1500 giri/min pressione max 200 bar.

Per impieghi con fluidi esteri-fosforici consultare nostro ufficio tecnico.

### ISTRUZIONI PER L'ISTALLAZIONE

- Durante il primo avviamento tarare le valvole limitatrici di pressione al minor valore possibile e raggiungere il valore massimo in modo graduale.
- Verificare, nel caso di pompa monodirezionale, che il senso di rotazione sia coerente con quello dell'albero dal quale deriva il moto.
- Controllare che il collegamento tra albero motore e pompa sia corretto: cioè che non induca a carichi radiali o assiali.
- Evitare partenze sotto carico in condizioni di bassa temperatura o comunque dopo lunghi periodi di inattività.
- Verificare che il livello del serbatoio sia adeguato dopo l'installazione di tutta la componentistica.
- Durante il primo avviamento scollegare lo scarico per permettere di spurgare l'aria nel circuito.
- Proteggere l'anello di tenuta della pompa in caso di verniciatura; verificare la pulizia della zona di contatto tra anello di tenuta ed albero: la presenza di polvere puo' accelerare l'usura causare delle perdite.
- E' inoltre importante dotare l'impianto di idonei sistemi di sicurezza atti ad evitare turbolenze nel fluido, in special modo nei condotti di ritorno al serbatoio, e evitare l'entrata in circolo nei sistemi di aria, acqua, o contaminanti di vario genere.
- Verificare sempre che la coppia applicata sia minore o uguale alla coppia ammissibile dell'albero.
- Utilizzare sempre oli ben filtrati, con assenza di acqua o con qualsiasi altra sostanza emulsionante.
- Non far mai girare la pompa con soluzioni olio aria.



## GROUP 2 PUMPS

### FLUID FILTRATION

It is known that in many cases the premature pump performances reduction is due to a non correct filtration in the circuit.

The presence of contamination particles in the fluid usually corresponds to an irreparable wear of the pump internal parts.

It is recommended to pay attention to the plant cleaning, mainly in the starting activity.

The starting fluid contamination it must be according to the Norms ISO 4406 and it should not exceed the Class 19/16 with a filter 3x75.

Here below the technical parameters to respect:

<i>FILTRATION IN SUCTION LINE</i>	<b>120 / 150 Nominal micron</b>
<i>FILTRATION IN PRESSURE LINE</i>	<b>10 / 25 absolute micron</b>
<i>MAXIMUM SPEED IN SUCTION</i>	<b>0.5 / 1.5 m/s</b>
<i>MAXIMUM SPEED IN OUTPUT</i>	<b>3.0 / 5.5 m/s</b>

Sometime ( contaminated places ) it is recommended to improve the filtration in pressure line and fit also an air filter.

### HYDRAULIC FLUIDS

It is recommended the use of fluids made for hydraulic circuits.

Usually they are hydraulic oils with mineral basis HLP HV ( DIN 51524 ).

Here below the technical parameters to respect:

<i>MINIMUM VISCOSITY</i>	<b>10 mm<sup>2</sup>/s</b>
<i>MAXIMUM VISCOSITY</i>	<b>100 mm<sup>2</sup>/s</b>
<i>SUGGESTED VISCOSITY</i>	<b>20 mm<sup>2</sup>/s - 100 mm<sup>2</sup>/s</b>
<i>SUGGESTED TEMPERATURE</i>	<b>30°C / 50°C</b>
<i>WORKING TEMPERATURE</i>	<b>-15°C / +80°C</b>

For applications with water-glycol ( HF-C ) it is recommended to consider the following limitations: 1500 rpm maximum speed and 200 bar maximum pressure.

For applications with phosphate ester fluids, please contact our Technical department.

### INSTALLATION INSTRUCTION

During the first starting it is recommended:

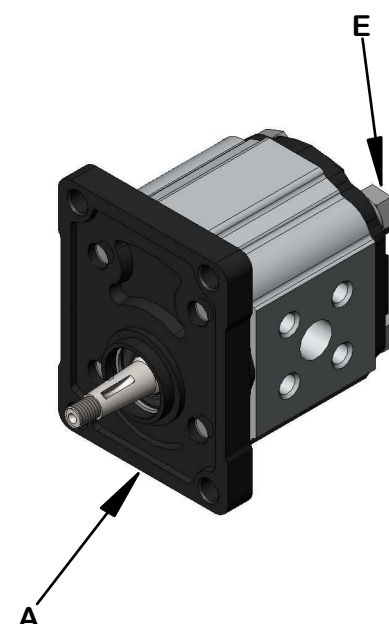
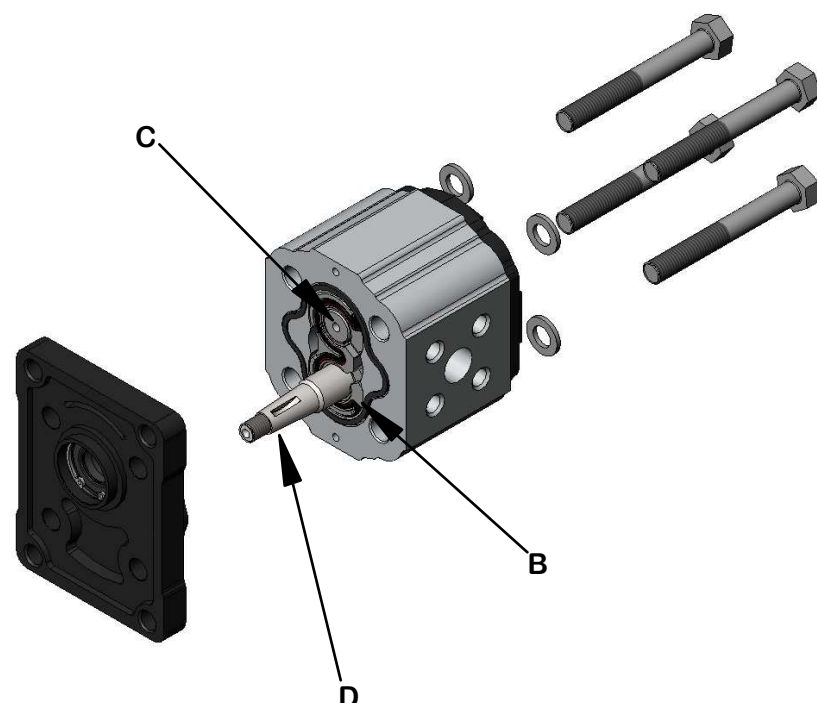
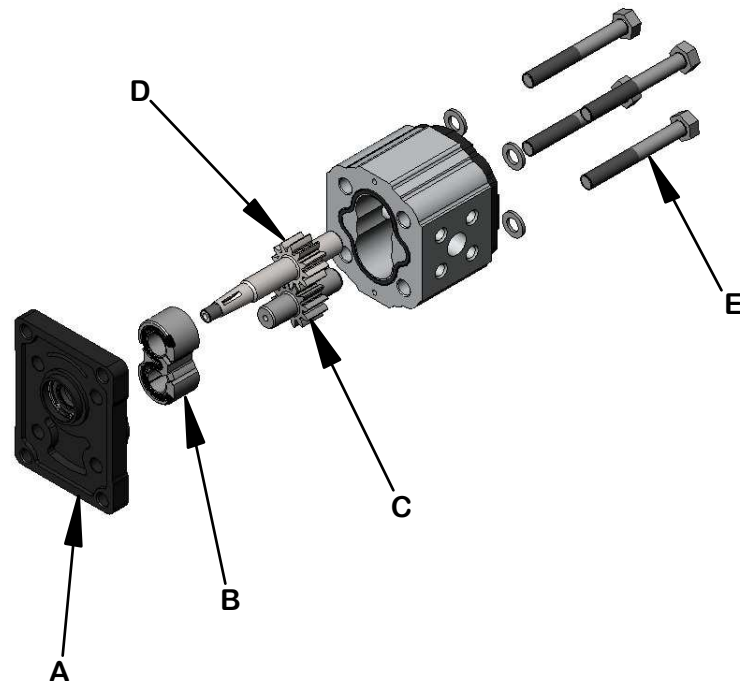
- to set the maximum pressure relief valves to a low value and gradually increase the pressure.
- to check, with single rotation pumps, that the rotation direction it is correct.
- to check that the connection between the motor and pump shaft is correct: without radial or axial load.
- to avoid starting under pressure in low temperature conditions or after long period of inactivity
- to check the fluid level in the tank
- to disconnect the return pipe and purge any air in the circuit
- to protect the pumpshaft seal when painting power pack
- to use suitable systems in the return lines to tank, to avoid turbulence in the circuit and ingress of air, water or contamination
- to check the torque that must be lower than the maximum torque admissible on the pump shaft
- to use new oil filters with absence of water or any other emulsifying substance
- to avoid starting with a air-oil solution

It is important to specify an oil tank at least twice the flow from the pump.

## POMPE GRUPPO 2- INVERSIONE DELLA ROTAZIONE

**PER INVERTIRE LA ROTAZIONE DELLA POMPA OT200 È NECESSARIO SEGUIRE LE PROCEDURE ELENcate:**

1. Pulire accuratamente l'esterno della pompa.
2. Allentare e successivamente rimuovere le viti di serraggio (E).
3. Rivestire con nastro adesivo gli spigoli vivi dell'albero motore (D), e spalmare uno strato di grasso sulla parte terminale dell'albero al fine di evitare il danneggiamento del paraolio quando si andrà a rimuovere la flangia.
4. Rimuovere la flangia (A), avere cura di mantenere la flangia il più dritta possibile durante la rimozione. Accertarsi che durante la rimozione della flangia, l'albero motore e gli altri componenti restino in posizione.
5. Allentare l'albero motore (D) in modo da facilitare la rimozione dei rasamenti (B), avere cura di non danneggiare la superficie del corpo pompa.
6. Rimuovere l'albero (D) senza ribaltarlo. La flangia posteriore non deve essere rimossa.
7. Riposizionare l'albero condotto (C) nell'alloggiamento dove prima era posizionata l'albero motore (D).
8. Riposizionare l'albero motore (D) nell'alloggiamento dove prima era posizionata l'albero condotto (C).
9. Riposizionare il rasamento (B) nella sua posizione originale.
10. Pulire accuratamente la superficie lavorata della flangia e del corpo con un canovaccio.
11. Rimontare la flangia frontale (A) ruotata di 180° rispetto alla sua originaria posizione.
12. Rimontare le viti di serraggio (E). (COPPIA DI SERRAGGIO VITI = 28 Nm)
13. Verificare che la pompa possa ruotare liberamente quando l'albero motore viene girato manualmente.
14. La pompa è pronta per essere installata con il verso di rotazione invertito.

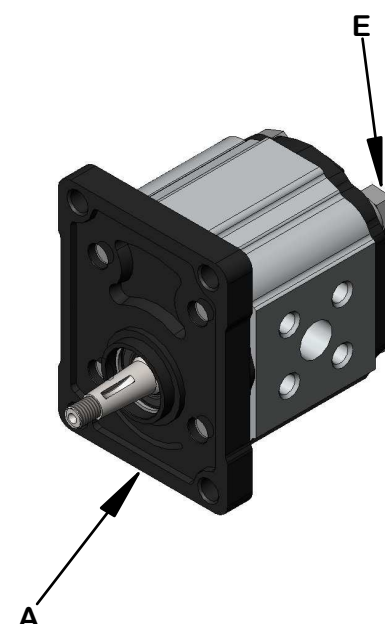
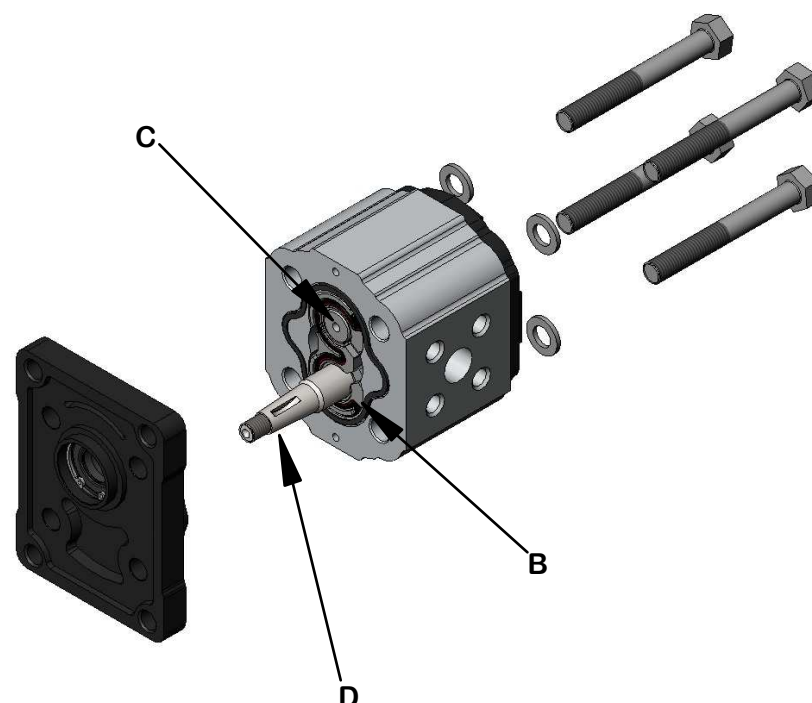
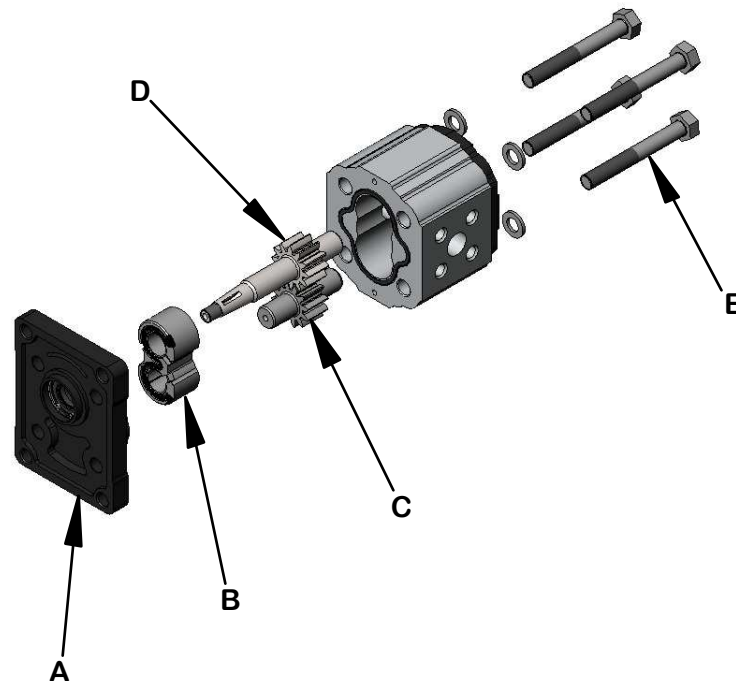




## GROUP 2 PUMPS- CHANGING ROTATION

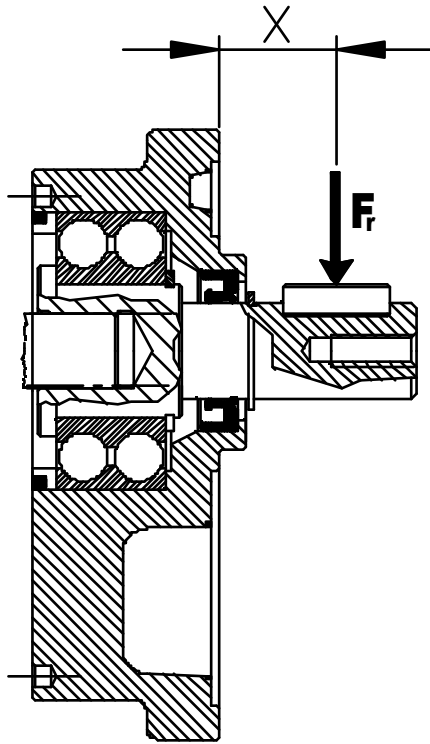
**TO CHANGE ROTATION OF OT200 PUMP IT'S NECESSARY TO OPERATE IN THE FOLLOWING WAY:**

1. Clean the pump externally with care.
2. Loosen, and remove, the clamp bolts (E).
3. Coat the sharp edges of the drive shaft (D) with adhesive tape and smear a layer of clean grease on the shaft end extension to avoid damaging the lip of the shaft seal when removing the mounting flange.
4. Remove the mounting flange (A), taking care to keep the flange as straight as possible during removal. Ensure that while removing the front mounting flange, the drive shaft and other components remain in position.
5. Ease the drive gear (D) up to facilitate removal of bearings (B), taking care that the precision ground surfaces do not become damaged, and removed the drive gear.
6. Remove the driven gear (C) without overturning. The rear flange has not to be removed.
7. Re-locate the driven gear (C) in the position previously occupied by the drive gear (D).
8. Re-locate the drive gear (D) in the position previously occupied by the driven gear (C).
9. Replace the front flange (A) in its original position.
10. Gently wipe the machined surface of the front flange (A) and the body with a canvas.
11. Refit the front mounting flange (A) turned by 180° from its original position.
12. Refit the clamp bolts (E). (**SCREW TIGHTENING TORQUE = 28 Nm**)
13. Check that the pump rotates freely when the drive shaft (D) is turned by hand. If not a pressure plate seal may be pinched.
14. The pump is ready for installation with the original rotation reversed.



## POMPE GRUPPO 2- CON SUPPORTO

### VERIFICA DELLA DURATA DEL CUSCINETTO



**X = Distanza del carico radiale rispetto alla battuta della flangia**

**Per l'ottenimento delle curve si sono utilizzati:**

**Olio lubrificante ISO VG 46**

**Temperatura 60° C**

**Assenza o ridottissimo carico assiale**

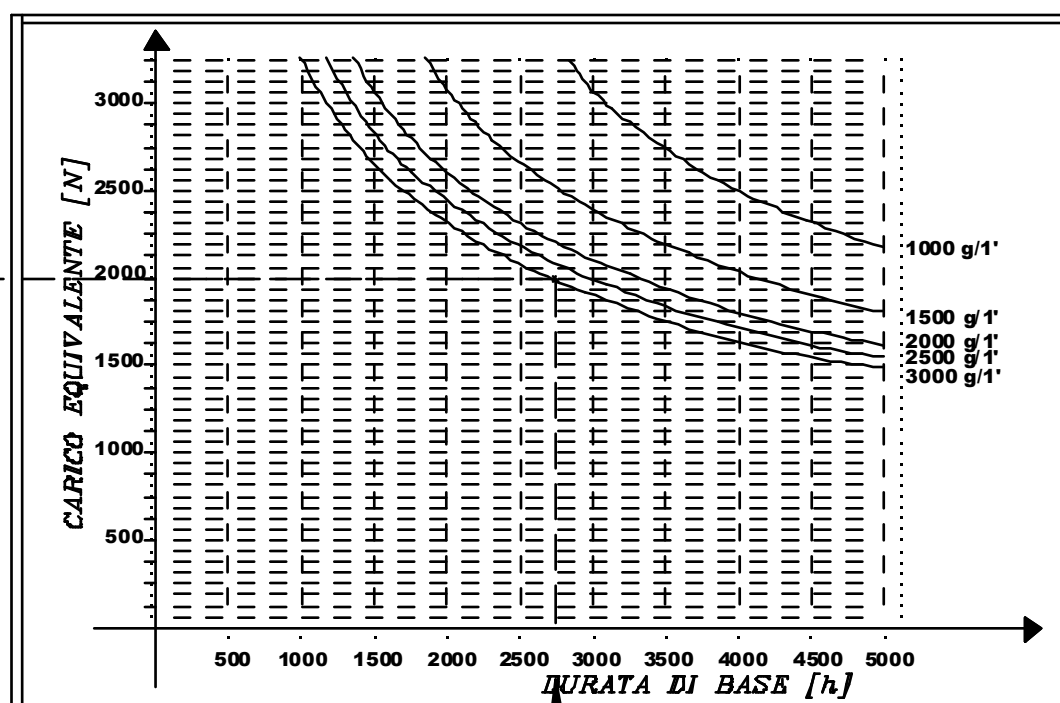
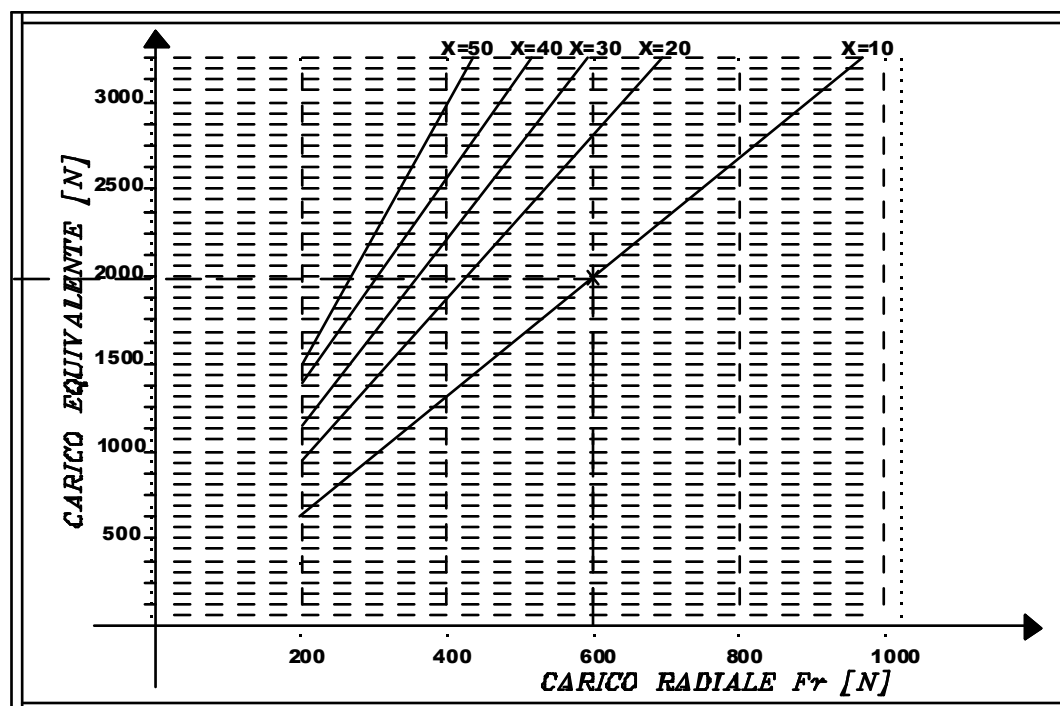
**Esempio**

**$F_r = 600 \text{ N}$**

**$X = 10 \text{ mm}$**

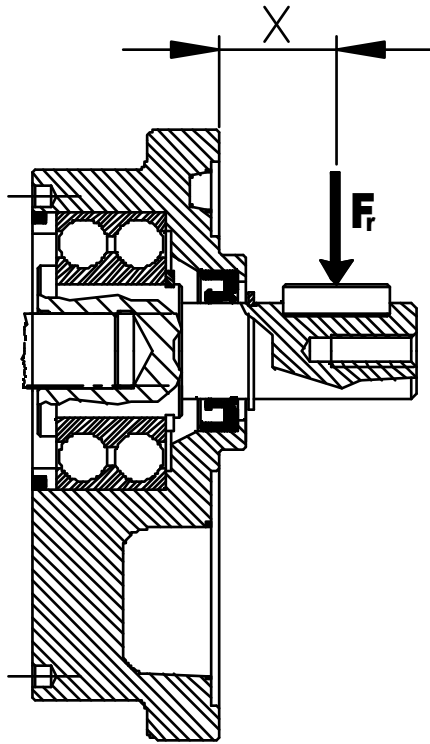
**Velocità = 3000 g/1'**

**Durata di base  $\approx 2750 \text{ h}$**



## GROUP 2 PUMPS- WITH FRONT BEARING

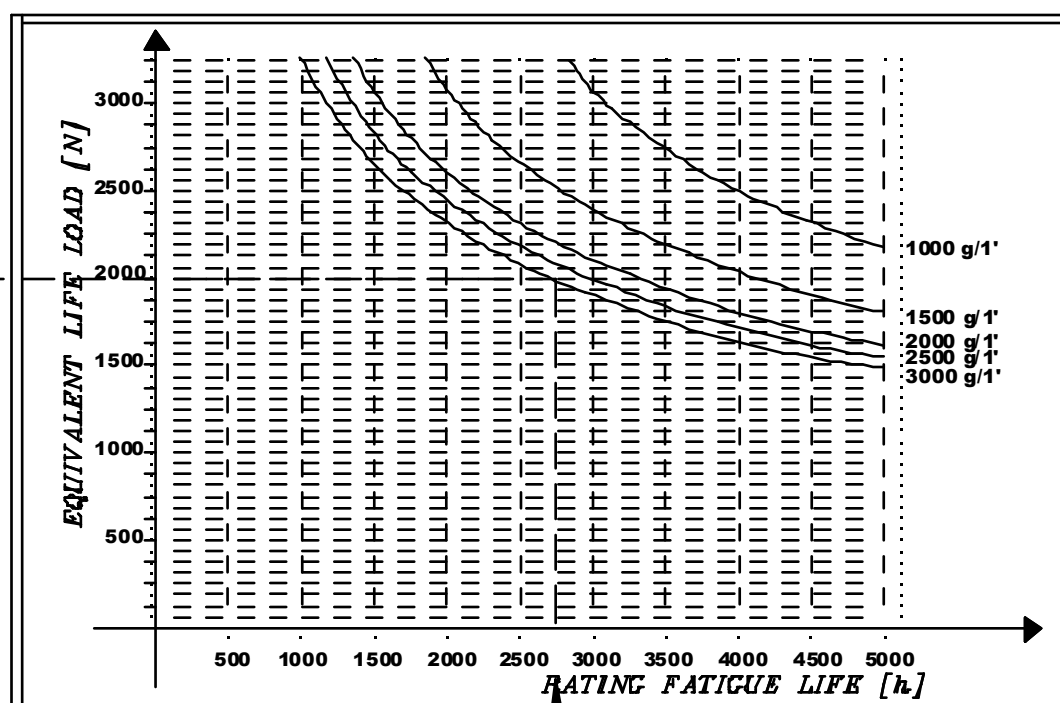
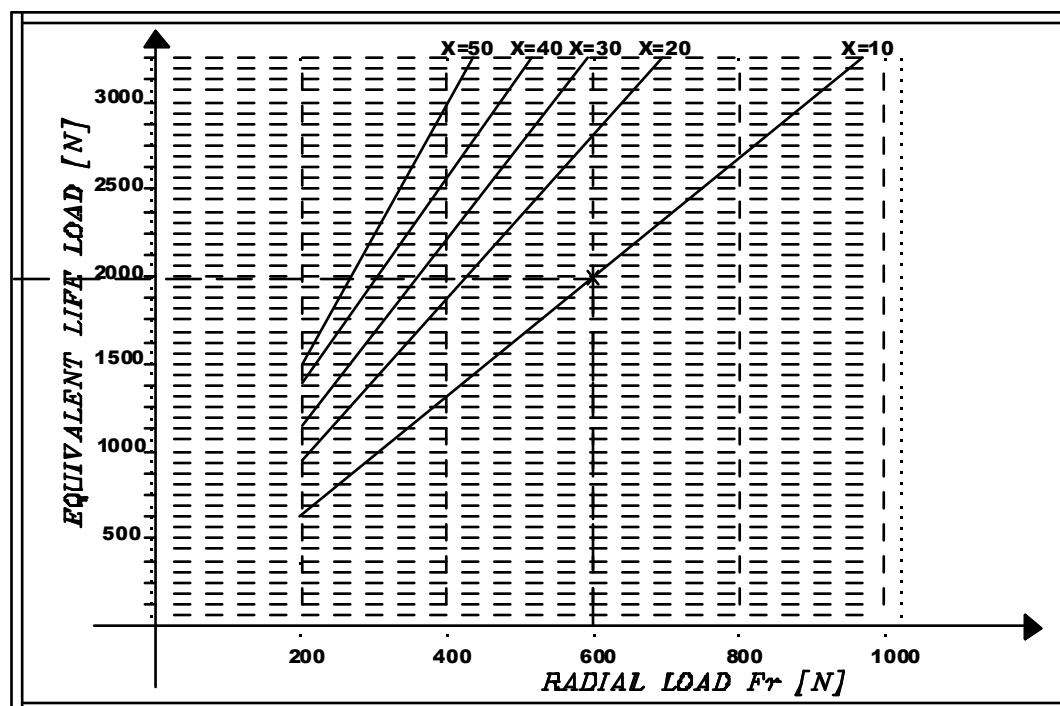
### VERIFY OF BEARING LIFE



**X = Distance of the radial flange result from the mounting flange**

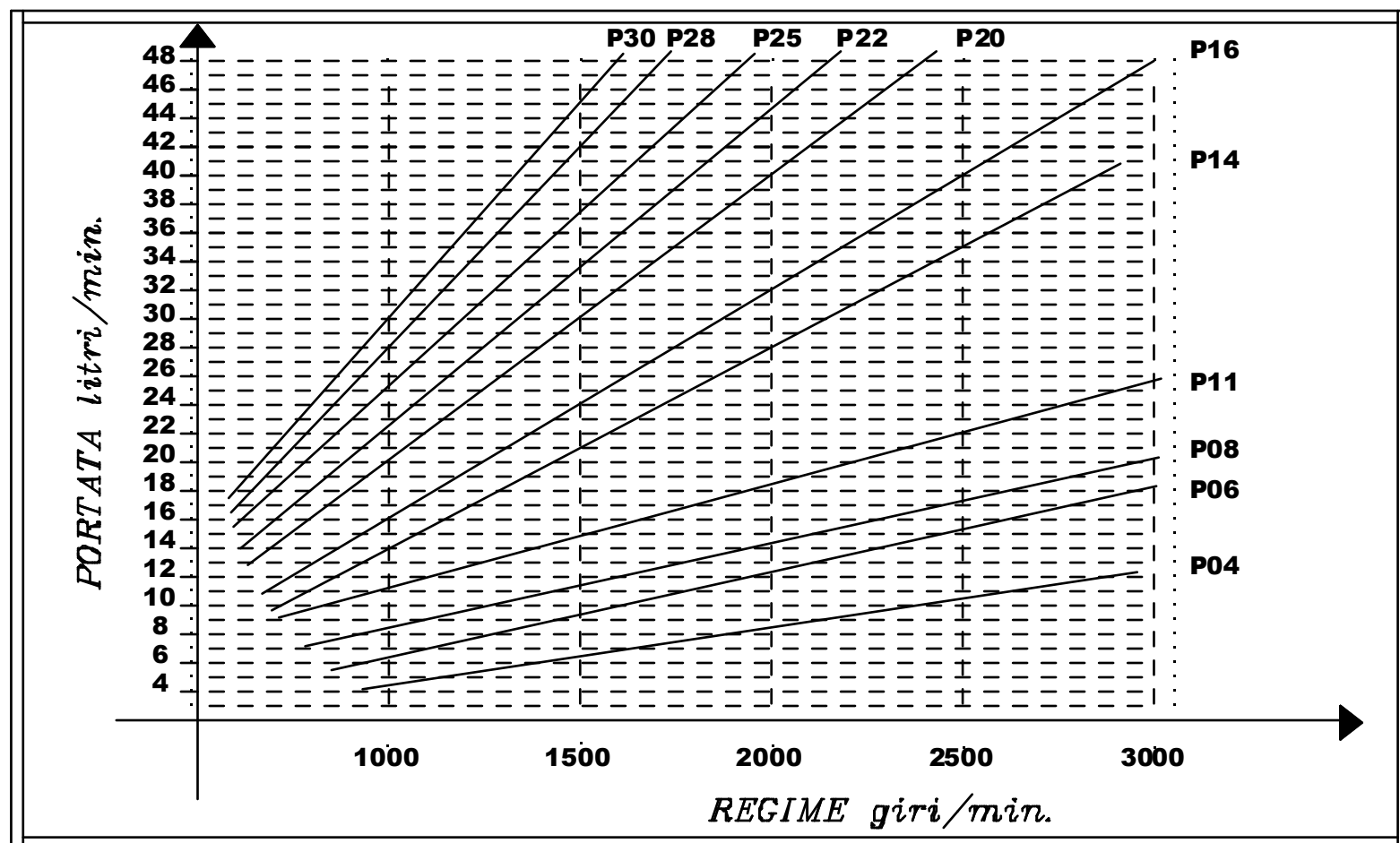
**Each curve has been obtained at:**  
**Lubricant oil ISO VG 46**  
**Temperature 60° C (140° F)**  
**Without or with very low axial load**

**Example**  
**Fr = 600 N**  
**X = 20 mm**  
**Speed = 3000 rpm**  
**Rating fatigue life ≈ 2750 h**

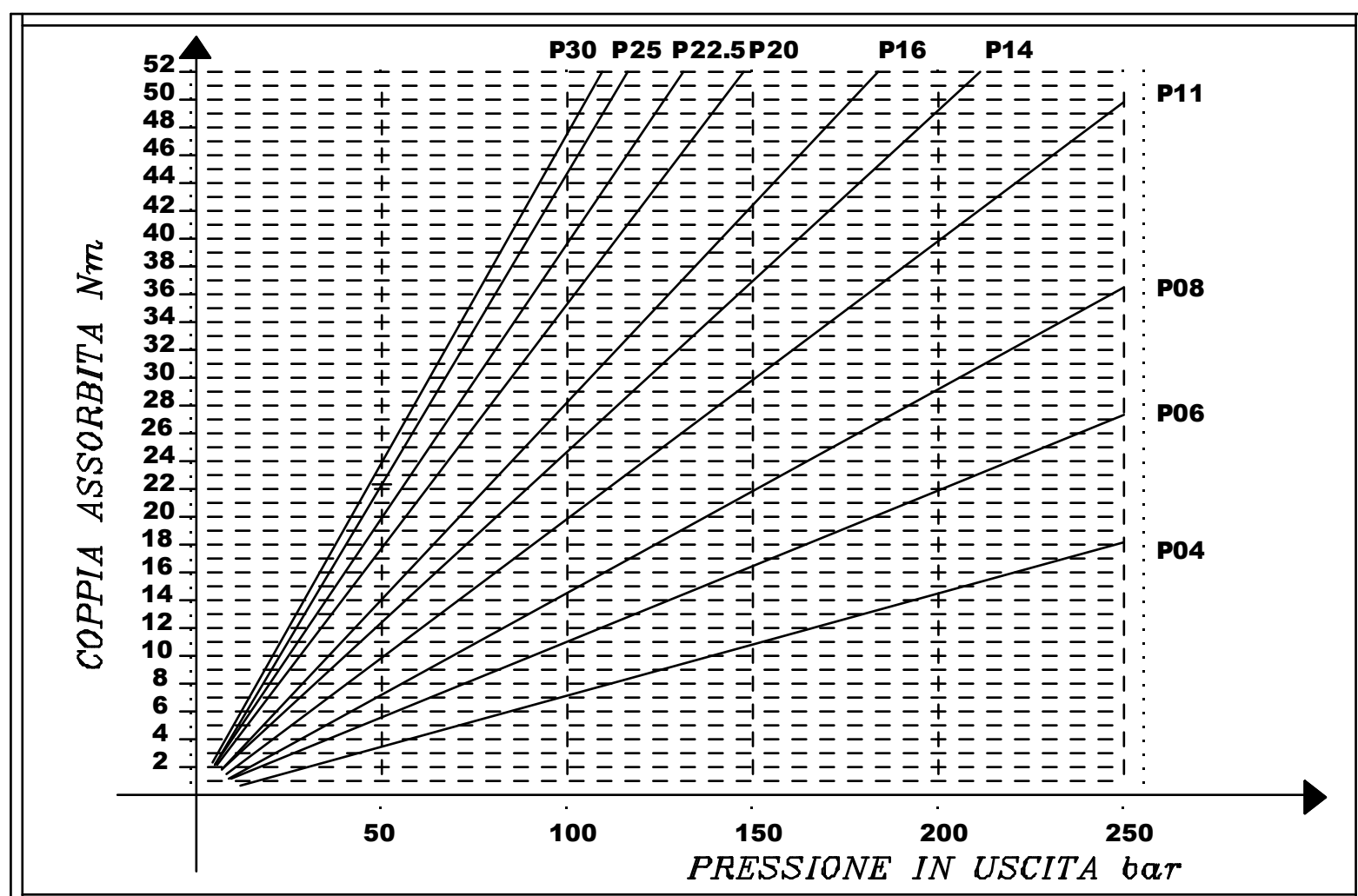


## POMPE GRUPPO 2

### CURVE CARATTERISTICHE DI PORTATA



### COPPIA ASSORBITA

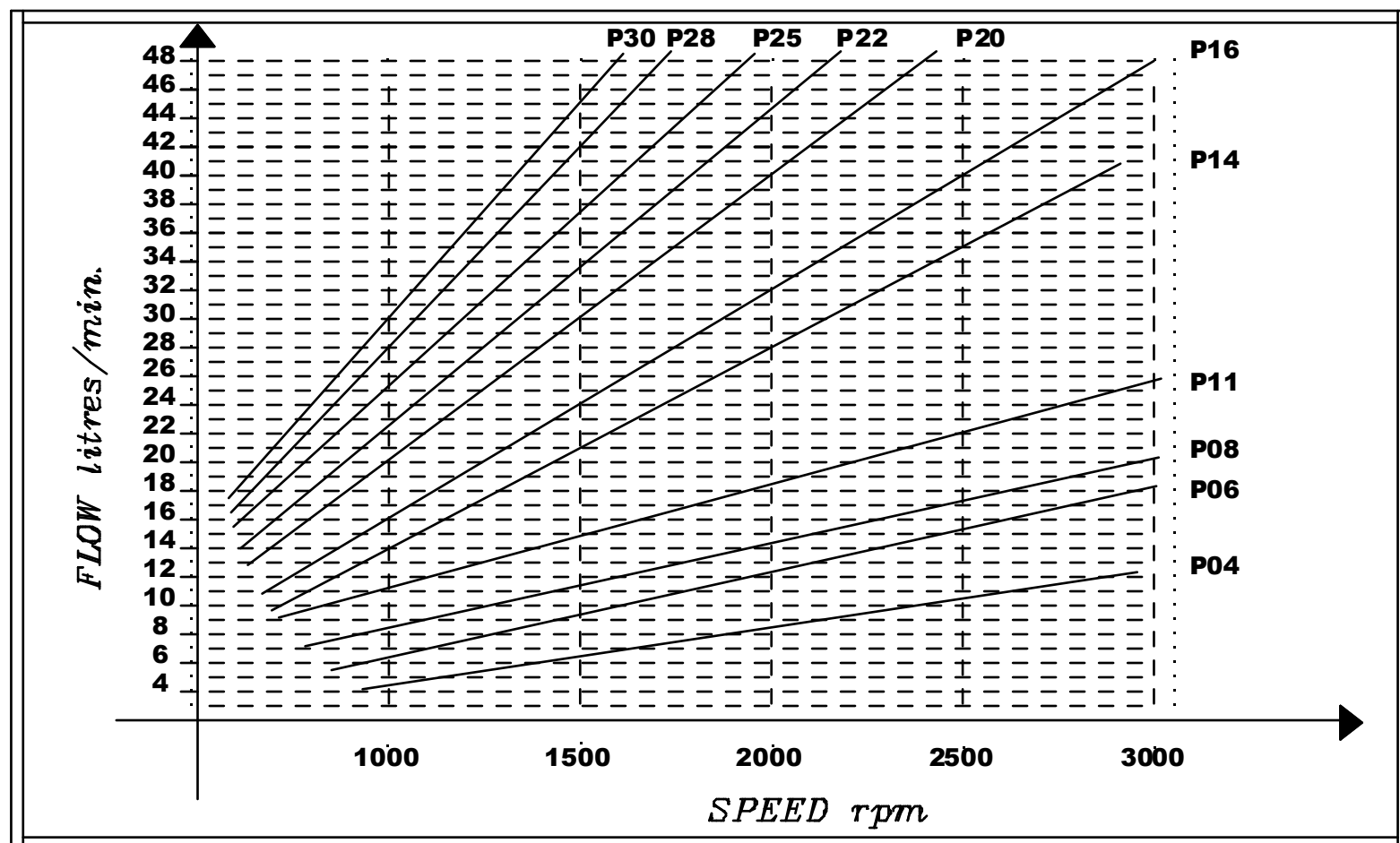


### NOTE

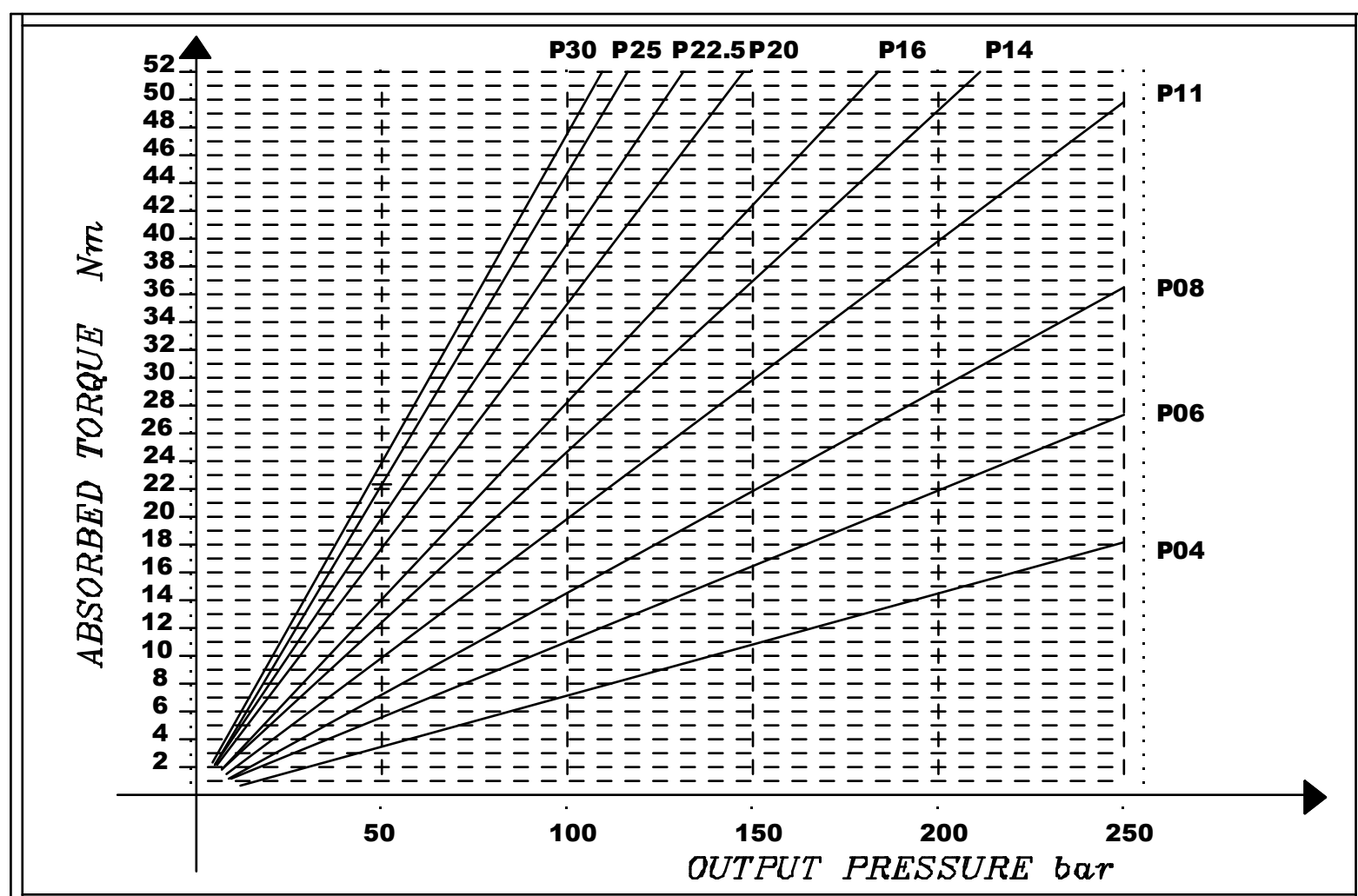
Le curve caratteristiche di portata sono state tracciate considerando un rendimento volumetrico del 95%

## GROUP 2 PUMPS

### FLOW CHARACTERISTICS CURVES



### ABSORBED TORQUE



### NOTE

Above flow characteristics curves have been made considering a volumetric efficiency of 95%

## POMPE GRUPPO 2

### DETERMINAZIONE DI UNA POMPA

$V$	<b>Cilindrata</b>	<b>cm<sup>3</sup>/giro</b>
$Q$	<b>Portata</b>	<b>l/min</b>
$P$	<b>Potenza</b>	<b>kW</b>
$C$	<b>Coppia</b>	<b>Nm</b>
$N$	<b>Velocita'</b>	<b>g/min</b>
$\Delta P$	<b>Pressione</b>	<b>bar</b>
$n_v$	<b>Rendimento volumetrico</b>	<b>0.85</b>
$n_m$	<b>Rendimento meccanico</b>	<b>0.9</b>
$n_t$	<b>Rendimento totale</b>	<b>0.80</b>

$$Q = V \cdot n_v \cdot N \cdot 10^{-3} \quad l/min$$

$$C = \frac{\Delta P \cdot V}{62.8 \cdot n_m} \quad Nm$$

$$P = \frac{\Delta P \cdot V \cdot N}{612000 \cdot n_t} \quad kW$$

## GROUP 2 PUMPS

### PUMP CALCULATION

$V$	<b>Displacement</b>	<b>cc / rev</b>
$Q$	<b>Flow</b>	<b>l/min</b>
$P$	<b>Power</b>	<b>kW</b>
$C$	<b>Torque</b>	<b>Nm</b>
$N$	<b>Speed</b>	<b>rpm</b>
$\Delta P$	<b>Pressure</b>	<b>bar</b>
$n_v$	<b>Volumetric efficiency</b>	<b>0.85</b>
$n_m$	<b>Mechanical efficiency</b>	<b>0.9</b>
$n_t$	<b>Total efficiency</b>	<b>0.80</b>

$$Q = V \cdot n_v \cdot N \cdot 10^{-3} \quad l/min$$

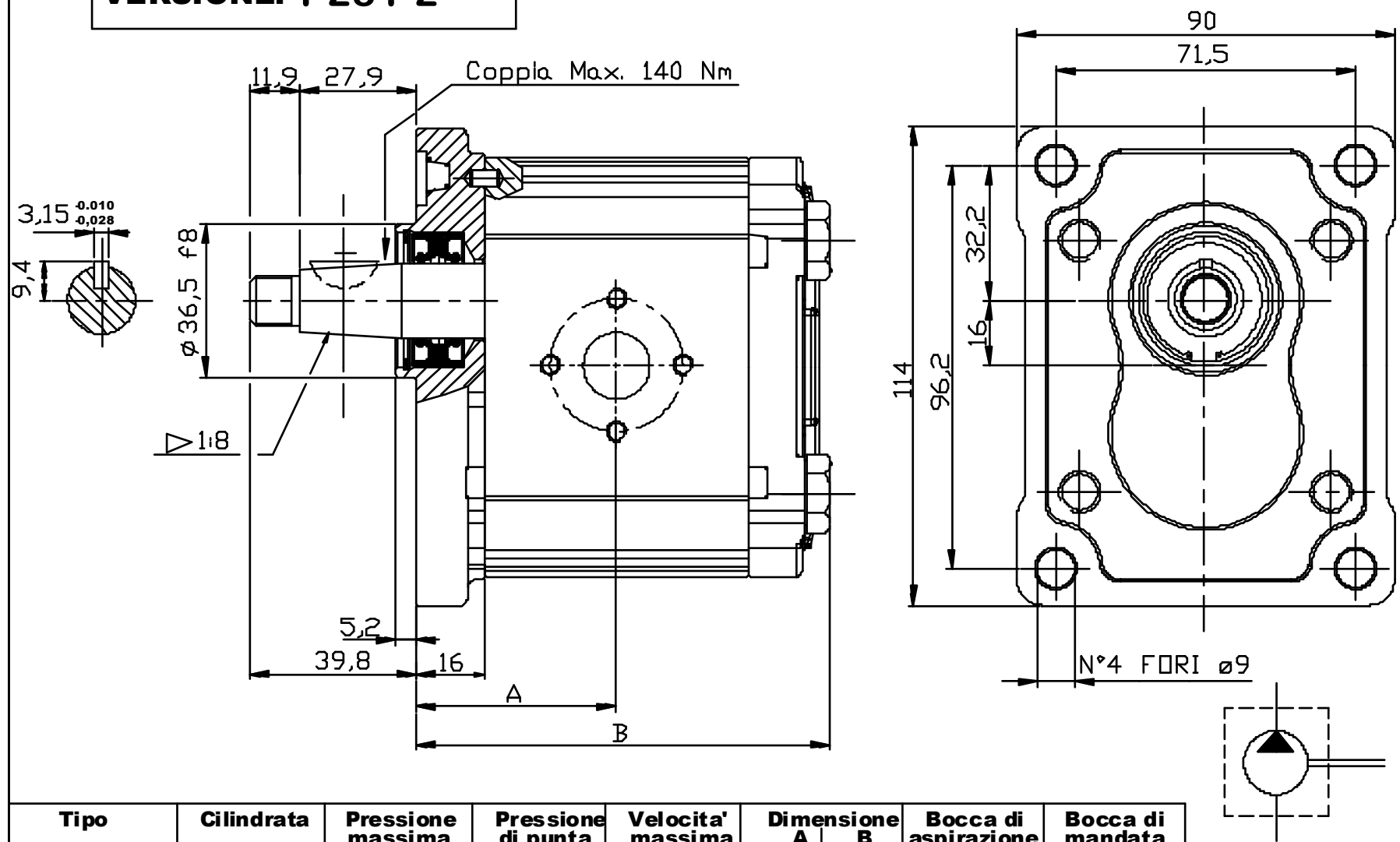
$$C = \frac{\Delta P \cdot V}{62.8 \cdot n_m} \quad Nm$$

$$P = \frac{\Delta P \cdot V \cdot N}{612000 \cdot n_t} \quad kW$$

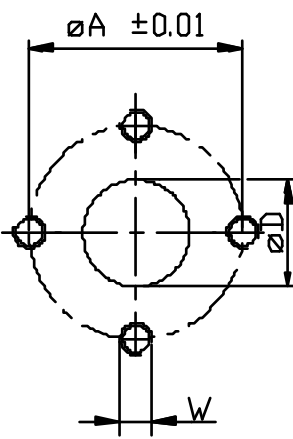


POMPE GRUPPO 2- STANDARD EUROPEO

VERSIONE: P28 P2

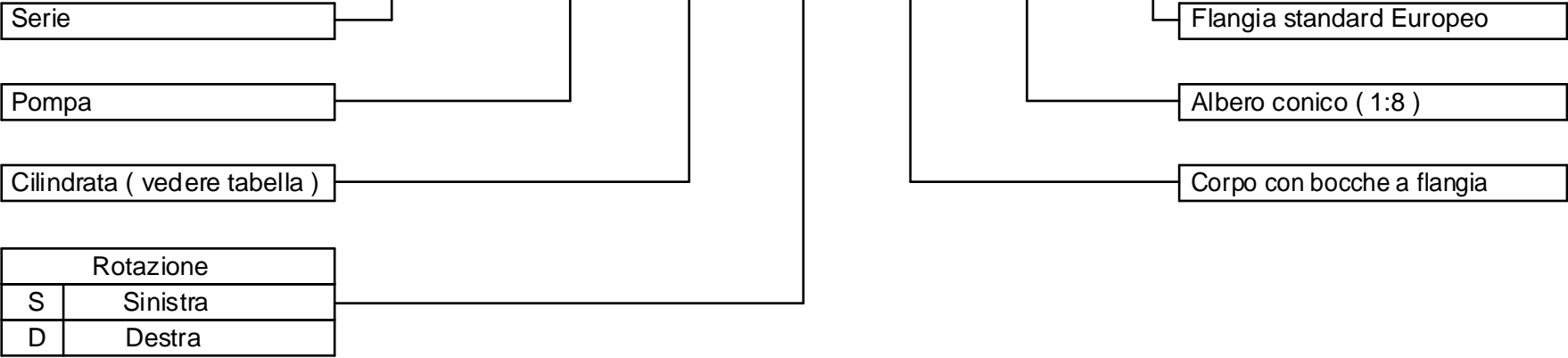


Tipo	Cilindrata	Pressione massima continua P1	Pressione di punta P3	Velocita' massima	Dimensione		Bocca di aspirazione			Bocca di mandata		
					A	B	ØD	ØA	W	ØD	ØA	W
	( cc/giro )	( bar )	( bar )	( giri/min. )	( mm )							
OT 200 P04	04,10	250	300	4000	40,00	83,50	13	30	M6	13	30	M6
OT 200 P06	06,20	250	300	3500	41,50	86,50	13	30	M6	13	30	M6
OT 200 P08	08,20	250	300	3500	43,00	89,50	13	30	M6	13	30	M6
OT 200 P11	11,20	250	300	3500	45,15	93,80	13	30	M6	13	30	M6
OT 200 P14	14,00	240	300	3000	47,15	97,80	20	40	M8	13	30	M6
OT 200 P16	16,00	240	300	3000	48,60	100,7	20	40	M8	13	30	M6
OT 200 P20	20,00	200	240	3000	51,50	106,5	20	40	M8	13	30	M6
OT 200 P22	22,50	170	210	2500	57,35	118,2	20	40	M8	13	30	M6
OT 200 P25	25,10	170	210	2500	59,25	122,0	20	40	M8	13	30	M6
OT 200 P28	28,00	140	180	2500	61,35	126,2	20	40	M8	13	30	M6
OT 200 P30	30,00	130	170	2000	62,75	129,0	20	40	M8	13	30	M6



ESEMPIO DI CODICE D'ORDINAZIONE

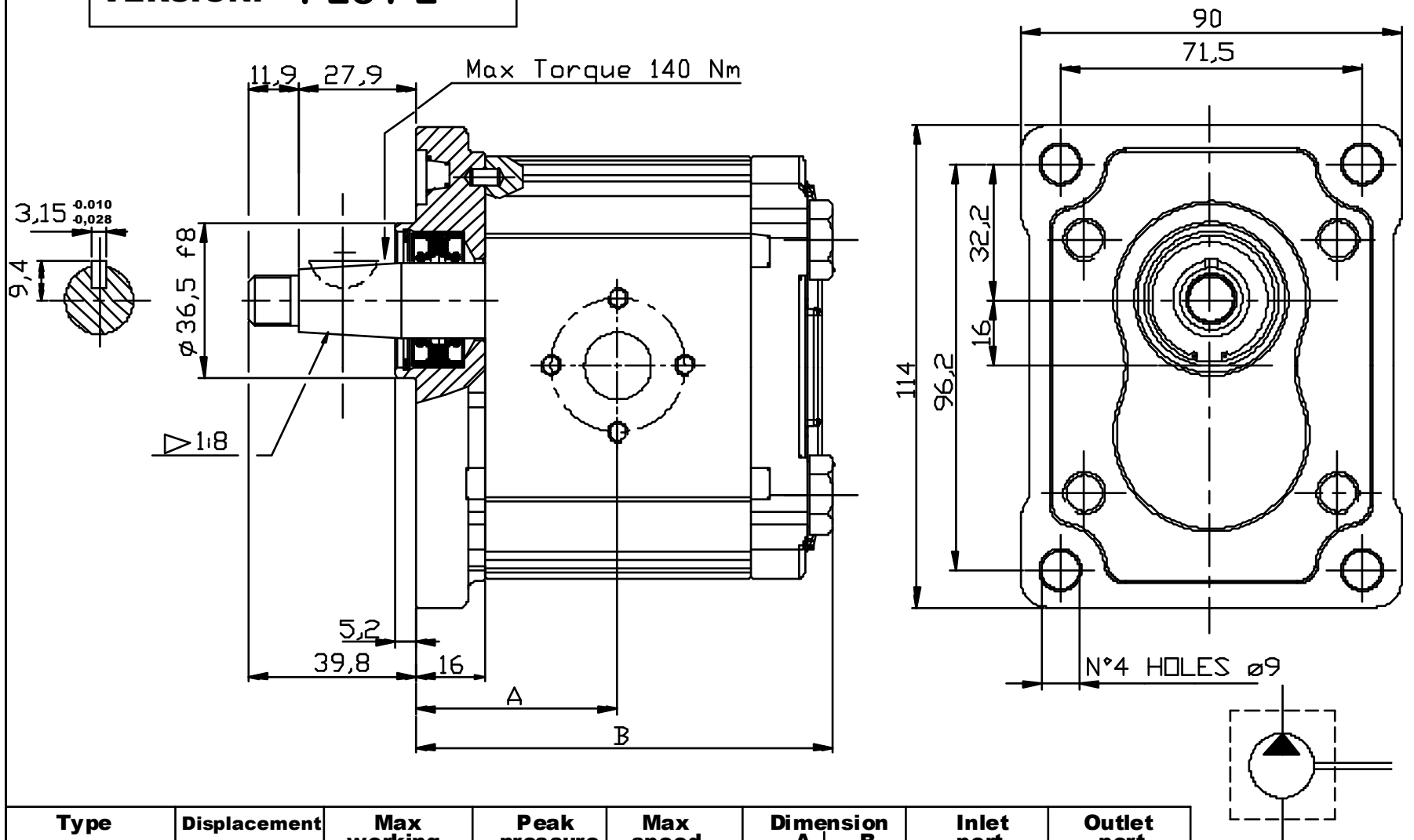
OT200 P 08 S / P 28 P2



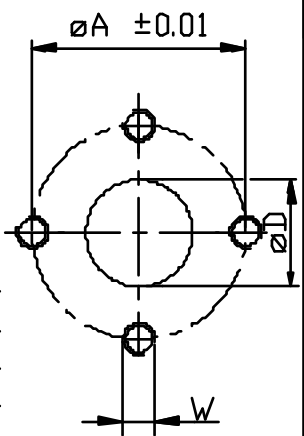


## GROUP 2 PUMPS- EUROPEAN STANDARD

**VERSION: P28 P2**



Type	Displacement  ( cc/rev )	Max working pressure P1 ( bar )	Peak pressure P3 ( bar )	Max speed  ( r.p.m)	Dimension A   B		Inlet port			Outlet port		
					( mm )		ØD	ØA	W	ØD	ØA	W
OT 200 P04	04,10	250	300	4000	40,00	83,50	13	30	M6	13	30	M6
OT 200 P06	06,20	250	300	3500	41,50	86,50	13	30	M6	13	30	M6
OT 200 P08	08,20	250	300	3500	43,00	89,50	13	30	M6	13	30	M6
OT 200 P11	11,20	250	300	3500	45,15	93,80	13	30	M6	13	30	M6
OT 200 P14	14,00	240	300	3000	47,15	97,80	20	40	M8	13	30	M6
OT 200 P16	16,00	240	300	3000	48,60	100,7	20	40	M8	13	30	M6
OT 200 P20	20,00	200	240	3000	51,50	106,5	20	40	M8	13	30	M6
OT 200 P22	22,50	170	210	2500	57,35	118,2	20	40	M8	13	30	M6
OT 200 P25	25,10	170	210	2500	59,25	122,0	20	40	M8	13	30	M6
OT 200 P28	28,00	140	180	2500	61,35	126,2	20	40	M8	13	30	M6
OT 200 P30	30,00	130	170	2000	62,75	129,0	20	40	M8	13	30	M6



### EXAMPLE OF ORDERING CODE

**OT200 P 08 S / P 28 P2**

Series

Pump

Displacement ( see above table )

Rotation

S Anti-clockwise  
D Clockwise

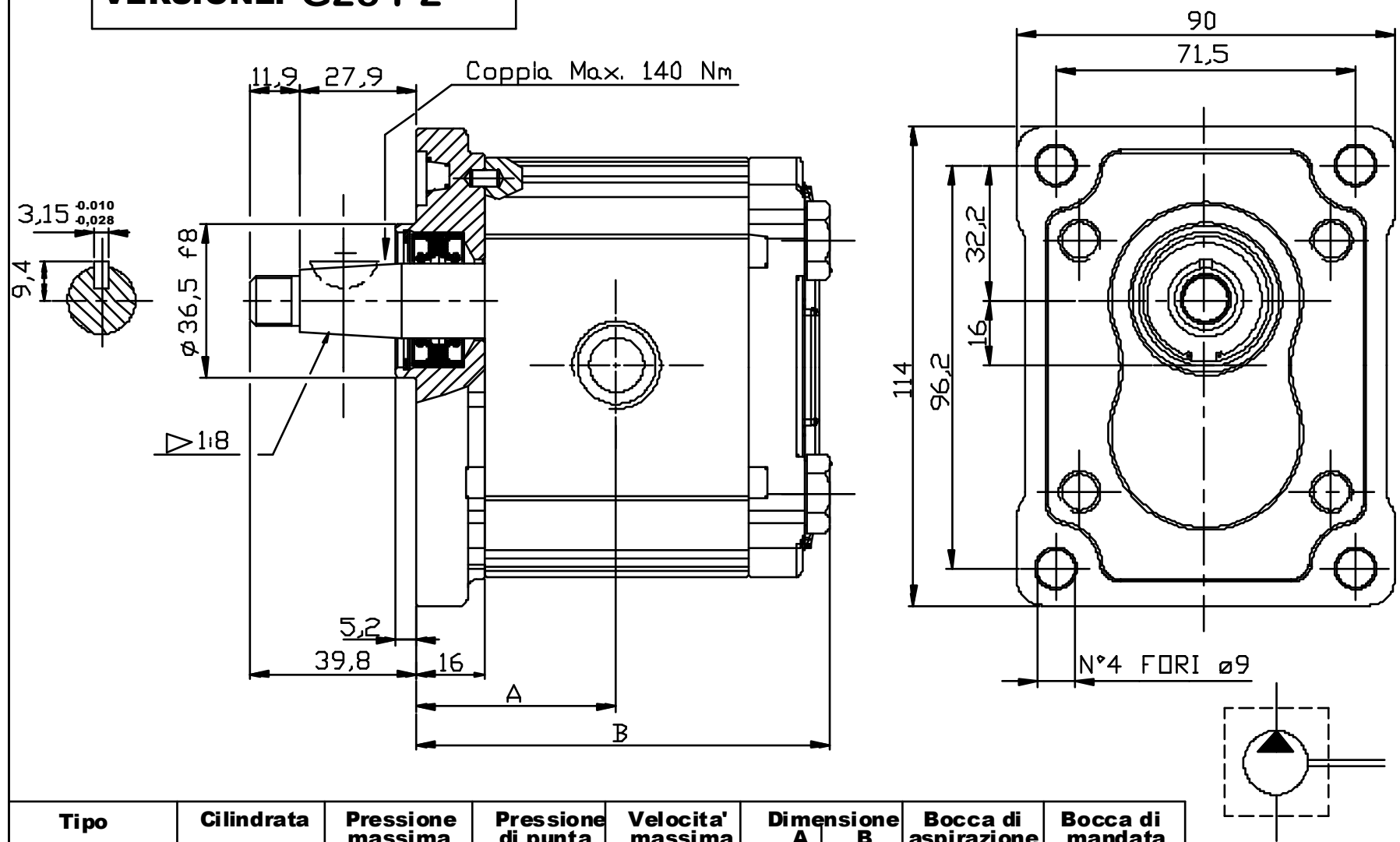
European standard flange

Taper shaft ( 1:8 )

Body for European flanges

**POMPE GRUPPO 2- STANDARD EUROPEO**

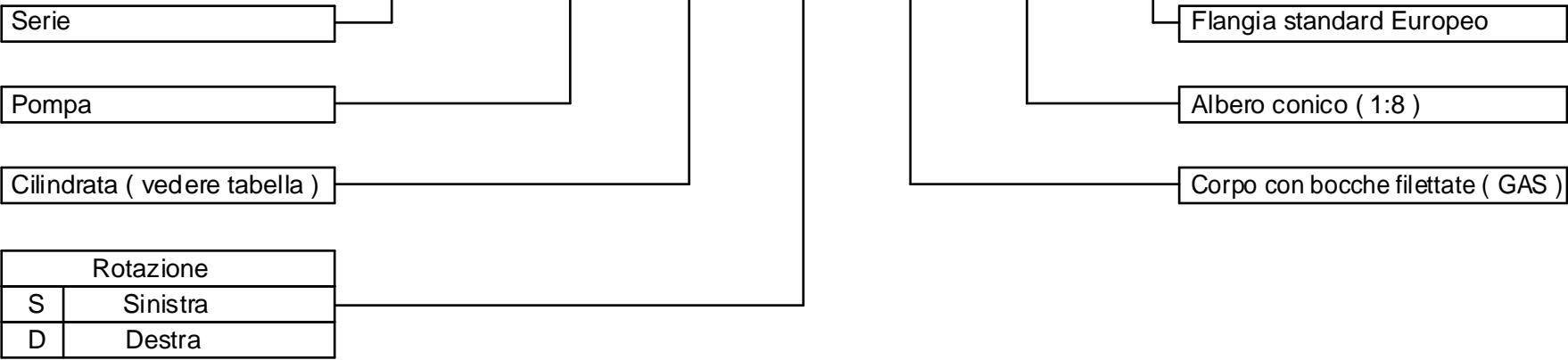
**VERSIONE: G28 P2**



Tipo	Cilindrata ( cc/giro )	Pressione massima continua P1 ( bar )	Pressione di punta P3 ( bar )	Velocita' massima ( giri/min. )	Dimensione A B		Bocca di aspirazione		Bocca di mandata	
					( mm )		e	d	e	d
OT 200 P04	04,10	250	300	4000	40,00	83,50	G1/2	14	G1/2	14
OT 200 P06	06,20	250	300	3500	41,50	86,50	G1/2	14	G1/2	14
OT 200 P08	08,20	250	300	3500	43,00	89,50	G1/2	14	G1/2	14
OT 200 P11	11,20	250	300	3500	45,15	93,80	G1/2	14	G1/2	14
OT 200 P14	14,00	240	300	3000	47,15	97,80	G3/4	16	G1/2	14
OT 200 P16	16,00	240	300	3000	48,60	100,7	G3/4	16	G1/2	14
OT 200 P20	20,00	200	240	3000	51,50	106,5	G3/4	16	G1/2	14
OT 200 P22	22,50	170	210	2500	57,35	118,2	G3/4	16	G1/2	14
OT 200 P25	25,10	170	210	2500	59,25	122,0	G3/4	16	G1/2	14
OT 200 P28	28,00	140	180	2500	61,35	126,2	G3/4	16	G1/2	14
OT 200 P30	30,00	130	170	2000	62,75	129,0	G3/4	16	G1/2	14

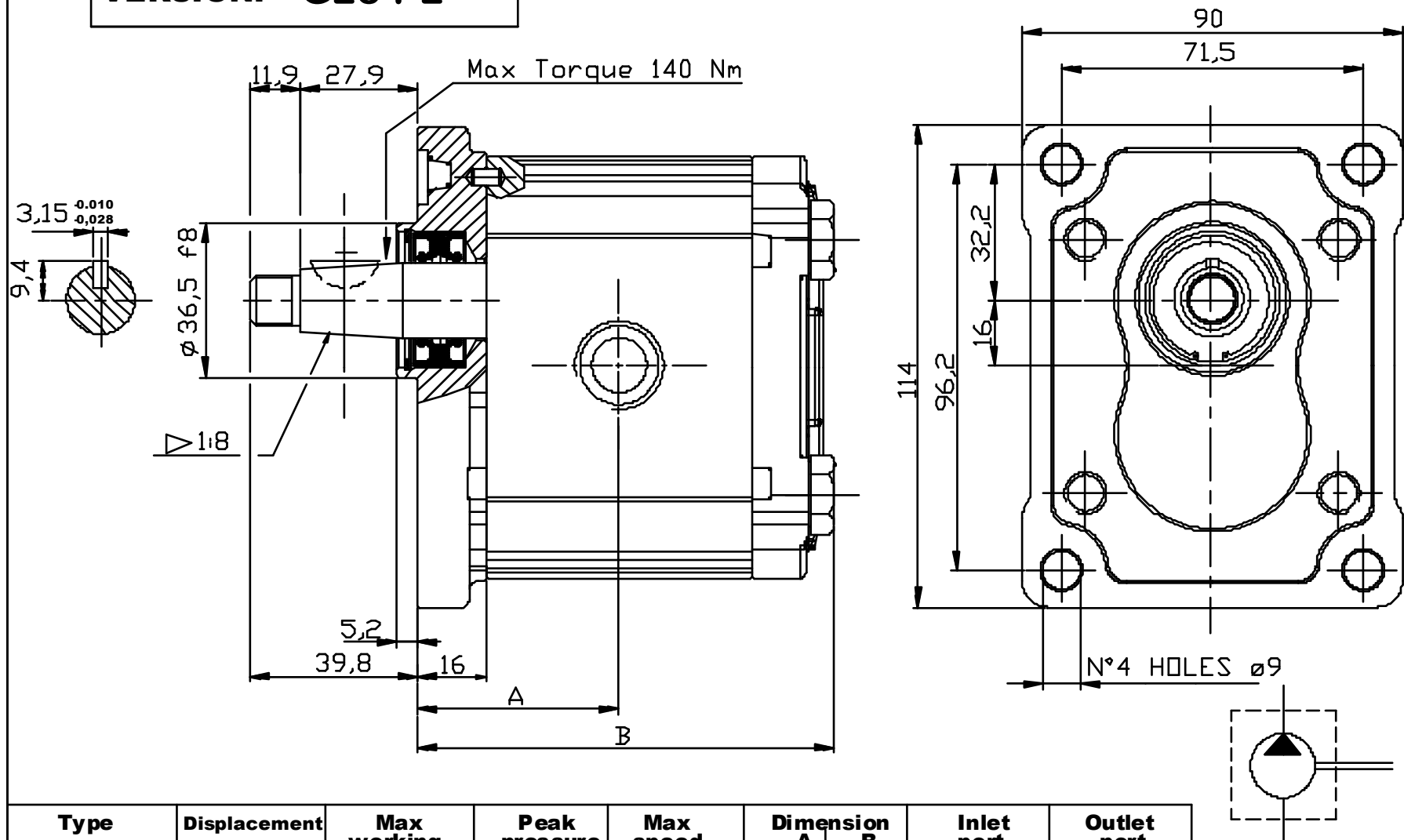
**ESEMPIO DI CODICE D'ORDINAZIONE**

**OT200 P 08 S / G 28 P2**



## GROUP 2 PUMPS- EUROPEAN STANDARD

**VERSION: G28 P2**



Type	Displacement  ( cc/rev )	Max working pressure P1 ( bar )	Peak pressure P3 ( bar )	Max speed  ( r.p.m)	Dimension		Inlet port		Outlet port	
					A	B	e	d	e	d
					( mm )					
OT 200 P04	04,10	250	300	4000	40,00	83,50	G1/2	14	G1/2	14
OT 200 P06	06,20	250	300	3500	41,50	86,50	G1/2	14	G1/2	14
OT 200 P08	08,20	250	300	3500	43,00	89,50	G1/2	14	G1/2	14
OT 200 P11	11,20	250	300	3500	45,15	93,80	G1/2	14	G1/2	14
OT 200 P14	14,00	240	300	3000	47,15	97,80	G3/4	16	G1/2	14
OT 200 P16	16,00	240	300	3000	48,60	100,7	G3/4	16	G1/2	14
OT 200 P20	20,00	200	240	3000	51,50	106,5	G3/4	16	G1/2	14
OT 200 P22	22,50	170	210	2500	57,35	118,2	G3/4	16	G1/2	14
OT 200 P25	25,10	170	210	2500	59,25	122,0	G3/4	16	G1/2	14
OT 200 P28	28,00	140	180	2500	61,35	126,2	G3/4	16	G1/2	14
OT 200 P30	30,00	130	170	2000	62,75	129,0	G3/4	16	G1/2	14

### EXAMPLE OF ORDERING CODE

**OT200 P 08 S / G 28 P2**

Series

Pump

Displacement ( see above table )

Rotation

S

Anti-clockwise

D

Clockwise

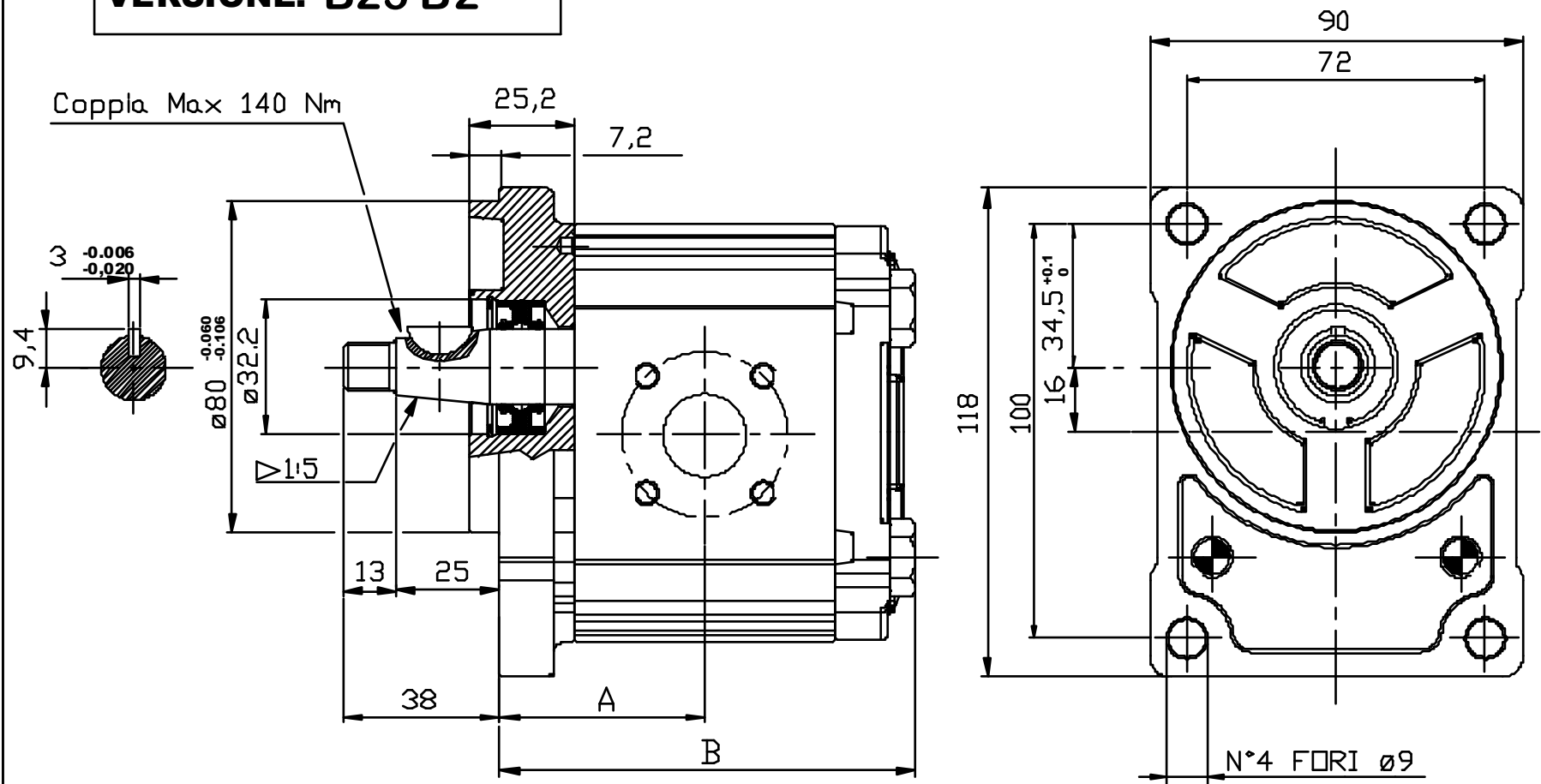
European standard flange

Taper shaft ( 1:8 )

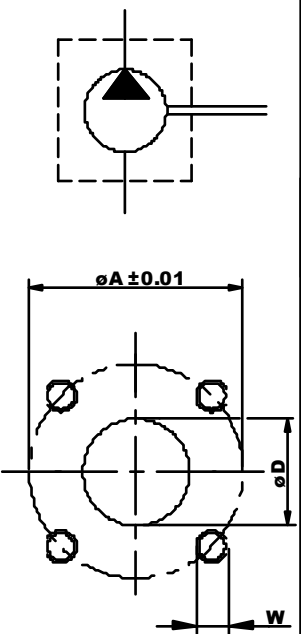
Body with threaded ports ( BSP )

## POMPE GRUPPO 2- UNIFICAZIONE TEDESCA

**VERSIONE: B25 B2**



Tipo	Cilindrata ( cc/giro )	Pressione massima continua P1 ( bar )	Pressione di punta P3 ( bar )	Velocita' massima ( giri/min. )	Dimensione		Bocca di aspirazione			Bocca di mandata		
					A	B	ØD	ØA	W	ØD	ØA	W
OT 200 P04	04,10	250	300	4000	42,00	85,50	20	40	M6	15	35	M6
OT 200 P06	06,20	250	300	3500	43,50	88,50	20	40	M6	15	35	M6
OT 200 P08	08,20	250	300	3500	45,00	91,50	20	40	M6	15	35	M6
OT 200 P11	11,20	250	300	3500	47,15	95,80	20	40	M6	15	35	M6
OT 200 P14	14,00	240	300	3000	49,15	99,80	20	40	M6	15	35	M6
OT 200 P16	16,00	240	300	3000	50,60	102,7	20	40	M6	15	35	M6
OT 200 P20	20,00	200	240	3000	53,50	108,5	20	40	M6	15	35	M6
OT 200 P22	22,50	170	210	2500	59,35	120,2	20	40	M6	15	35	M6
OT 200 P25	25,10	170	210	2500	61,25	124,0	20	40	M6	15	35	M6
OT 200 P28	28,00	140	180	2500	63,35	128,2	20	40	M6	15	35	M6
OT 200 P30	30,00	130	170	2000	64,75	131,0	20	40	M6	15	35	M6



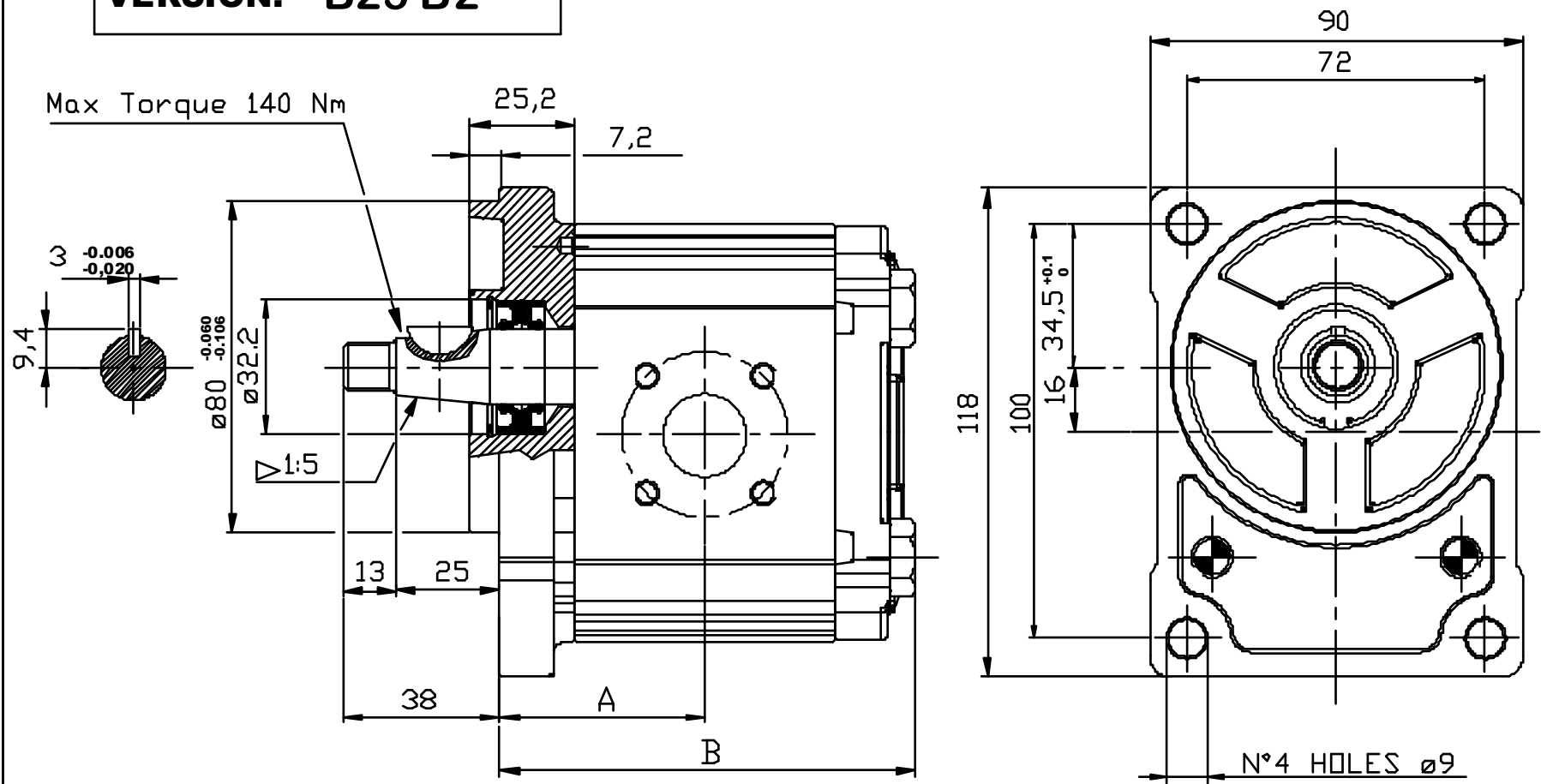
## ESEMPIO DI CODICE D'ORDINAZIONE

**OT200 P 08 S / B 25 B2**

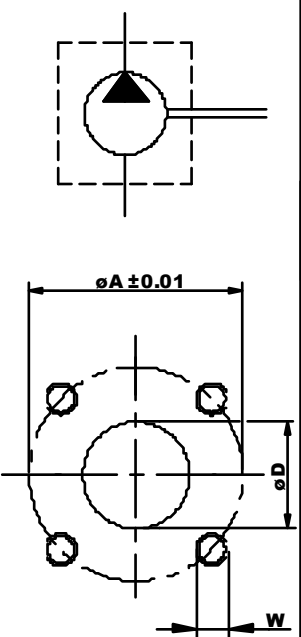
Serie	P	08	S	/	B	25	B2	Flangia standard Tedesca
Pompa								Albero conico ( 1:5 )
Cilindrata ( vedere tabella )								Corpo con bocche a flangia
Rotazione								
S	Sinistra							
D	Destra							

## GROUP 2 PUMPS- GERMAN STANDARD

**VERSION: B25 B2**



Type	Displacement  ( cc/rev )	Max working pressure P1 ( bar )	Peak pressure P3 ( bar )	Max speed ( r.p.m)	Dimension		Inlet port			Outlet port		
					A	B	ØD	ØA	W	ØD	ØA	W
					( mm )							
OT 200 P04	04,10	250	300	4000	42,00	85,50	20	40	M6	15	35	M6
OT 200 P06	06,20	250	300	3500	43,50	88,50	20	40	M6	15	35	M6
OT 200 P08	08,20	250	300	3500	45,00	91,50	20	40	M6	15	35	M6
OT 200 P11	11,20	250	300	3500	47,15	95,80	20	40	M6	15	35	M6
OT 200 P14	14,00	240	300	3000	49,15	99,80	20	40	M6	15	35	M6
OT 200 P16	16,00	240	300	3000	50,60	102,7	20	40	M6	15	35	M6
OT 200 P20	20,00	200	240	3000	53,50	108,5	20	40	M6	15	35	M6
OT 200 P22	22,50	170	210	2500	59,35	120,2	20	40	M6	15	35	M6
OT 200 P25	25,10	170	210	2500	61,25	124,0	20	40	M6	15	35	M6
OT 200 P28	28,00	140	180	2500	63,35	128,2	20	40	M6	15	35	M6
OT 200 P30	30,00	130	170	2000	64,75	131,0	20	40	M6	15	35	M6



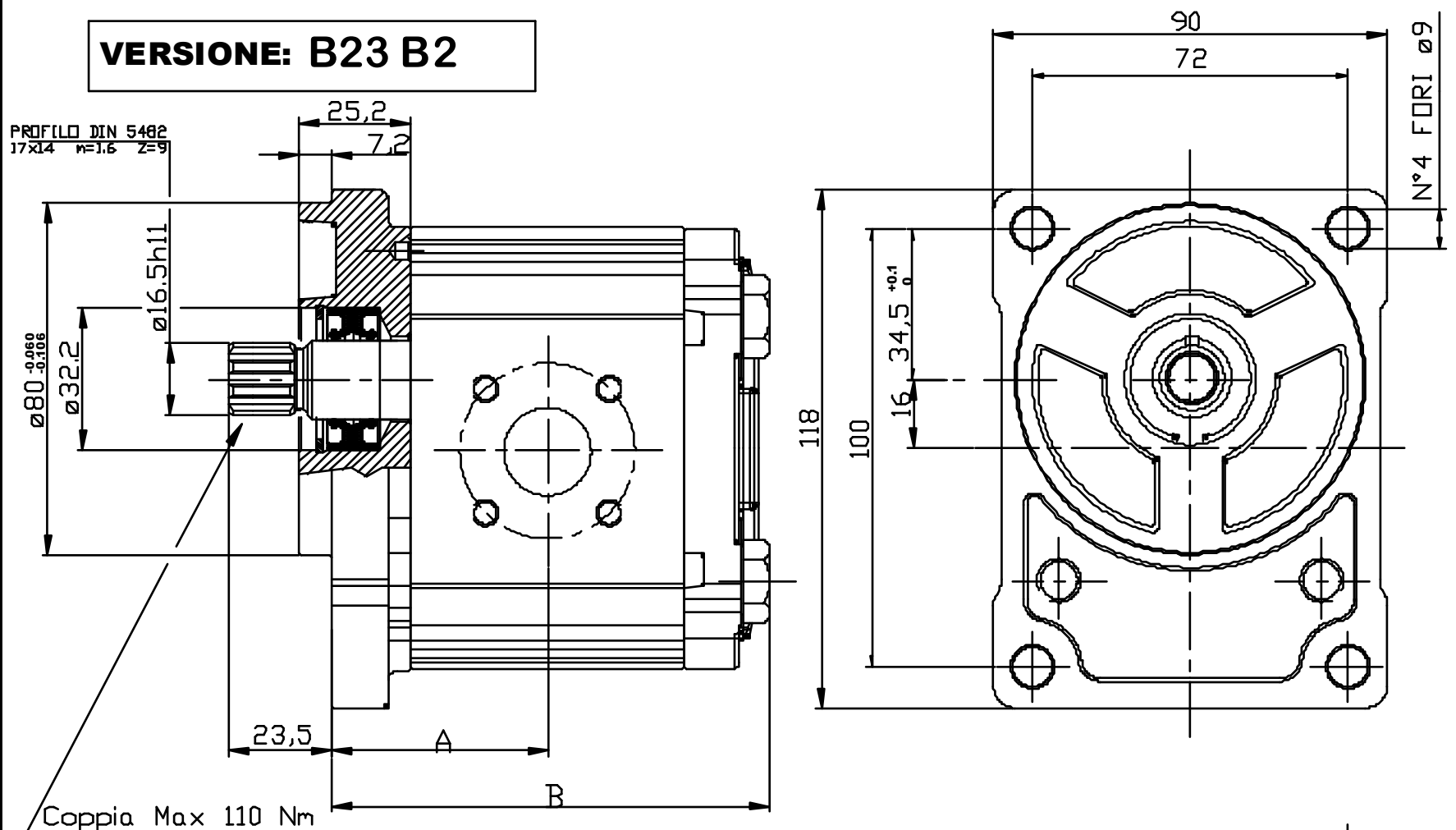
### EXAMPLE OF ORDERING CODE

**OT200 P 08 S / B 25 B2**

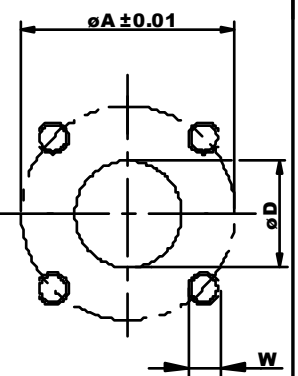
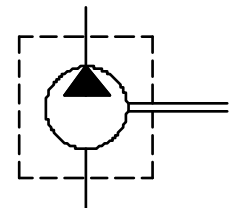
Series	Pump	Displacement ( see above table )	Rotation	German standard flange	Taper shaft ( 1:5 )	Body for German flanges
			S Anti-clockwise			
			D Clockwise			

## POMPE GRUPPO 2- UNIFICAZIONE TEDESCA

**VERSIONE: B23 B2**



Tipo	Cilindrata ( cc/giro )	Pressione massima continua P1 ( bar )	Pressione di punta P3 ( bar )	Velocità massima ( giri/min. )	Dimensione		Bocca di aspirazione			Bocca di mandata		
					A	B	ØD	ØA	W	ØD	ØA	W
OT 200 P04	04,10	250	300	4000	42,00	85,50	20	40	M6	15	35	M6
OT 200 P06	06,20	250	300	3500	43,50	88,50	20	40	M6	15	35	M6
OT 200 P08	08,20	250	300	3500	45,00	91,50	20	40	M6	15	35	M6
OT 200 P11	11,20	250	300	3500	47,15	95,80	20	40	M6	15	35	M6
OT 200 P14	14,00	240	300	3000	49,15	99,80	20	40	M6	15	35	M6
OT 200 P16	16,00	240	300	3000	50,60	102,7	20	40	M6	15	35	M6
OT 200 P20	20,00	200	240	3000	53,50	108,5	20	40	M6	15	35	M6
OT 200 P22	22,50	170	210	2500	59,35	120,2	20	40	M6	15	35	M6
OT 200 P25	25,10	170	210	2500	61,25	124,0	20	40	M6	15	35	M6
OT 200 P28	28,00	140	180	2500	63,35	128,2	20	40	M6	15	35	M6
OT 200 P30	30,00	130	170	2000	64,75	131,0	20	40	M6	15	35	M6



## ESEMPIO DI CODICE D'ORDINAZIONE

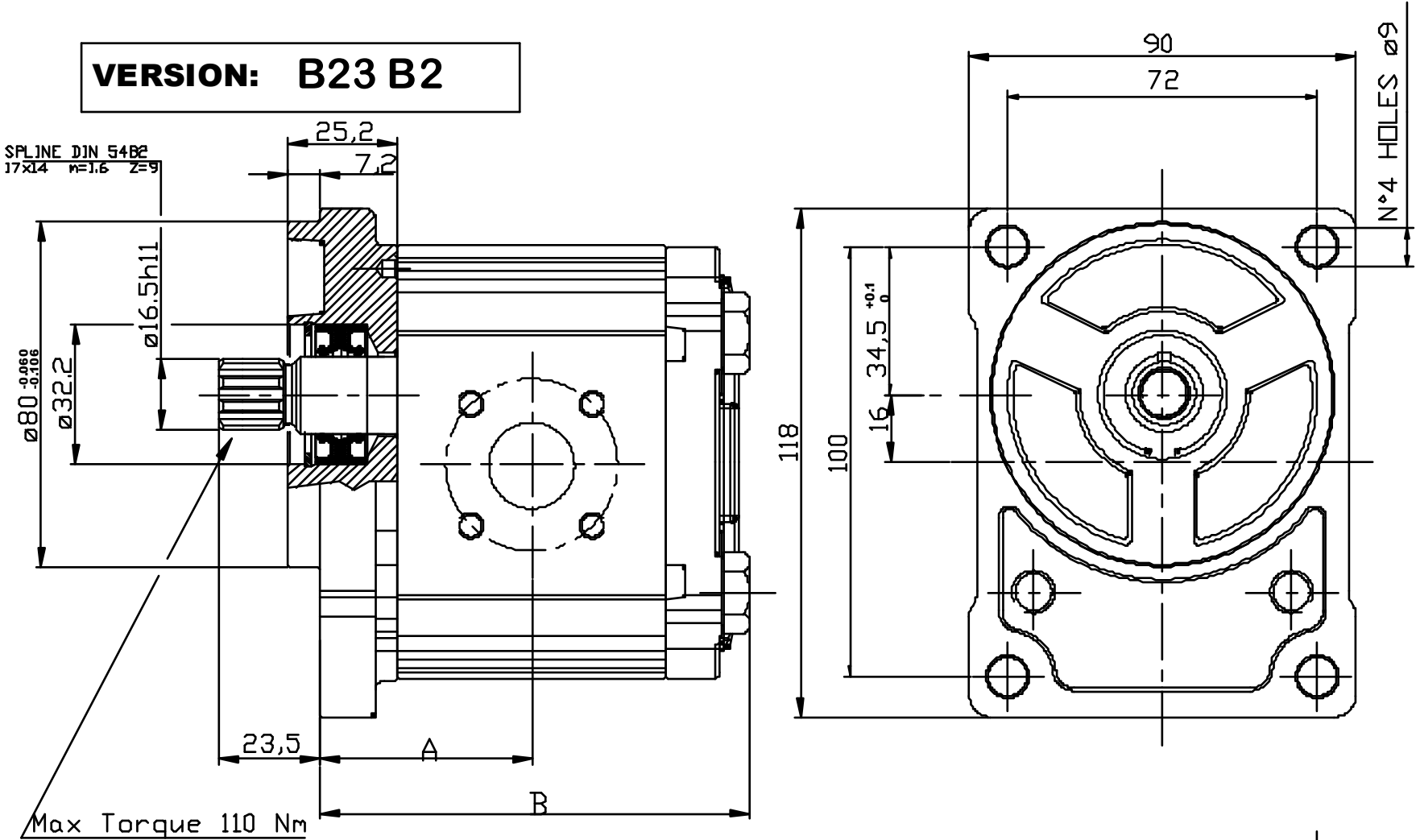
**OT200 P 08 S / B 23 B2**

Serie	OT200	P	08	S	/	B	23	B2	Flangia standard Tedesca
Pompa									Albero DIN 5482 B 17x14
Cilindrata ( vedere tabella )									Corpo con bocche a flangia
Rotazione									
S	Sinistra								
D	Destra								



**GROUP 2 PUMPS-     GERMAN STANDARD**

**VERSION: B23 B2**



Type	Displacement	Max working pressure P1 ( bar )	Peak pressure P3 ( bar )	Max speed ( r.p.m)	Dimension		Inlet port			Outlet port		
					A	B						
	( cc/rev )				( mm )	ØD	ØA	W	ØD	ØA	W	
OT 200 P04	04,10	250	300	4000	42,00	85,50	20	40	M6	15	35	M6
OT 200 P06	06,20	250	300	3500	43,50	88,50	20	40	M6	15	35	M6
OT 200 P08	08,20	250	300	3500	45,00	91,50	20	40	M6	15	35	M6
OT 200 P11	11,20	250	300	3500	47,15	95,80	20	40	M6	15	35	M6
OT 200 P14	14,00	240	300	3000	49,15	99,80	20	40	M6	15	35	M6
OT 200 P16	16,00	240	300	3000	50,60	102,7	20	40	M6	15	35	M6
OT 200 P20	20,00	200	240	3000	53,50	108,5	20	40	M6	15	35	M6
OT 200 P22	22,50	170	210	2500	59,35	120,2	20	40	M6	15	35	M6
OT 200 P25	25,10	170	210	2500	61,25	124,0	20	40	M6	15	35	M6
OT 200 P28	28,00	140	180	2500	63,35	128,2	20	40	M6	15	35	M6
OT 200 P30	30,00	130	170	2000	64,75	131,0	20	40	M6	15	35	M6

**EXAMPLE OF ORDERING CODE**

**OT200     P     08     S / B     23     B2**

Series

Pump

Displacement ( see above table )

Rotation

S     Anti-clockwise

D     Clockwise

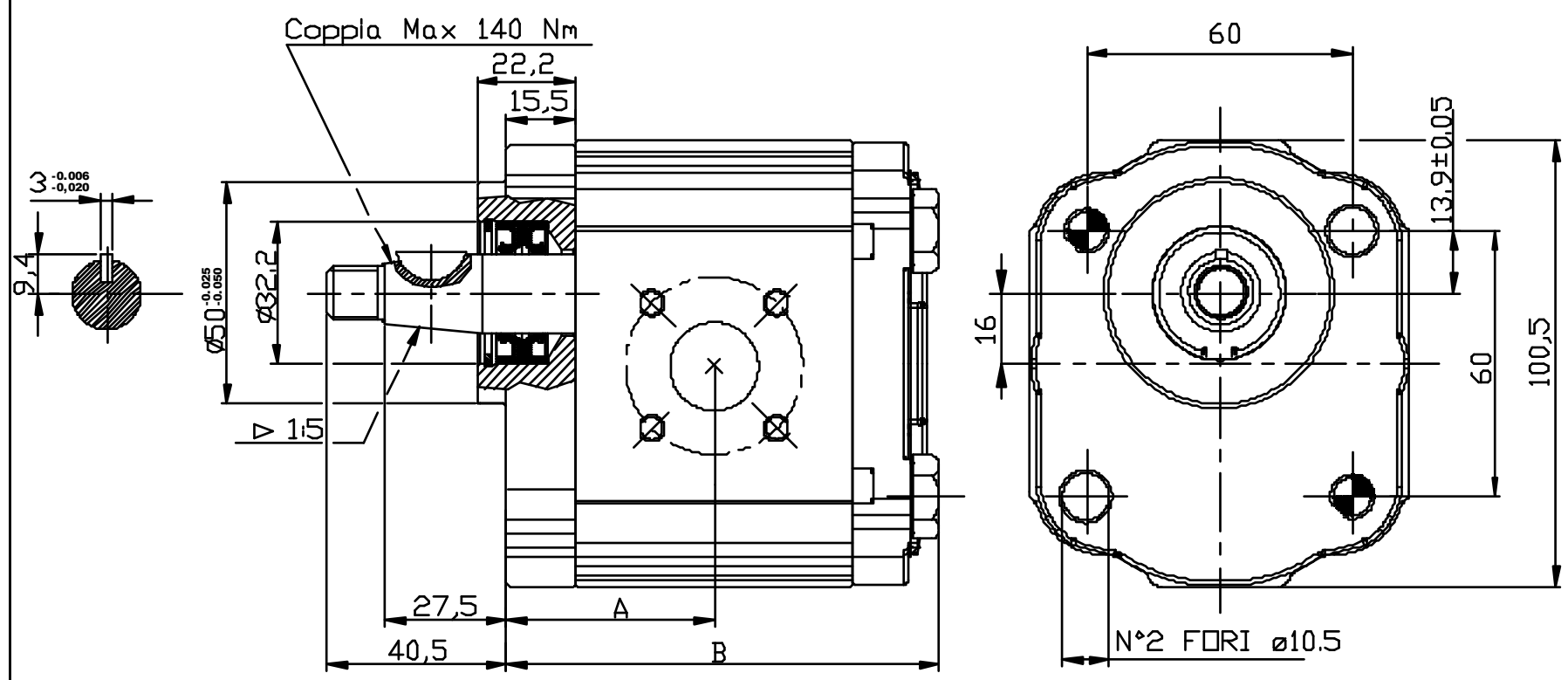
German standard flange

DIN 5482 B 17x14 shaft

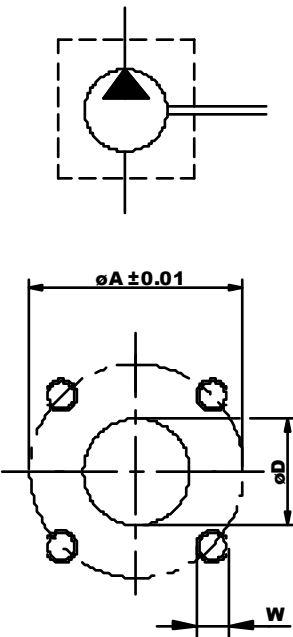
Body for German flanges

**POMPE GRUPPO 2- UNIFICAZIONE TEDESCA**

**VERSIONE: B25 B4**



Tipo	Cilindrata	Pressione massima continua P1	Pressione di punta P3	Velocita' massima	Dimensione		Bocca di aspirazione			Bocca di mandata		
					A	B	ØD	ØA	W	ØD	ØA	W
	( cc/giro )	( bar )	( bar )	( giri/min. )	( mm )							
OT 200 P04	04,10	250	300	4000	39.50	83,00	20	40	M6	15	35	M6
OT 200 P06	06,20	250	300	3500	41.00	86,00	20	40	M6	15	35	M6
OT 200 P08	08,20	250	300	3500	42.50	89,00	20	40	M6	15	35	M6
OT 200 P11	11,20	250	300	3500	45.65	93.30	20	40	M6	15	35	M6
OT 200 P14	14,00	240	300	3000	46.65	97.30	20	40	M6	15	35	M6
OT 200 P16	16,00	240	300	3000	48.10	100.2	20	40	M6	15	35	M6
OT 200 P20	20,00	200	240	3000	51.00	103,5	20	40	M6	15	35	M6
OT 200 P22	22,50	170	210	2500	56.85	117.7	20	40	M6	15	35	M6
OT 200 P25	25,10	170	210	2500	58.75	121.5	20	40	M6	15	35	M6
OT 200 P28	28,00	140	180	2500	60.85	125.7	20	40	M6	15	35	M6
OT 200 P30	30,00	130	170	2000	62.25	128.5	20	40	M6	15	35	M6



**ESEMPIO DI CODICE D'ORDINAZIONE**

**OT200 P 08 S / B 25 B4**

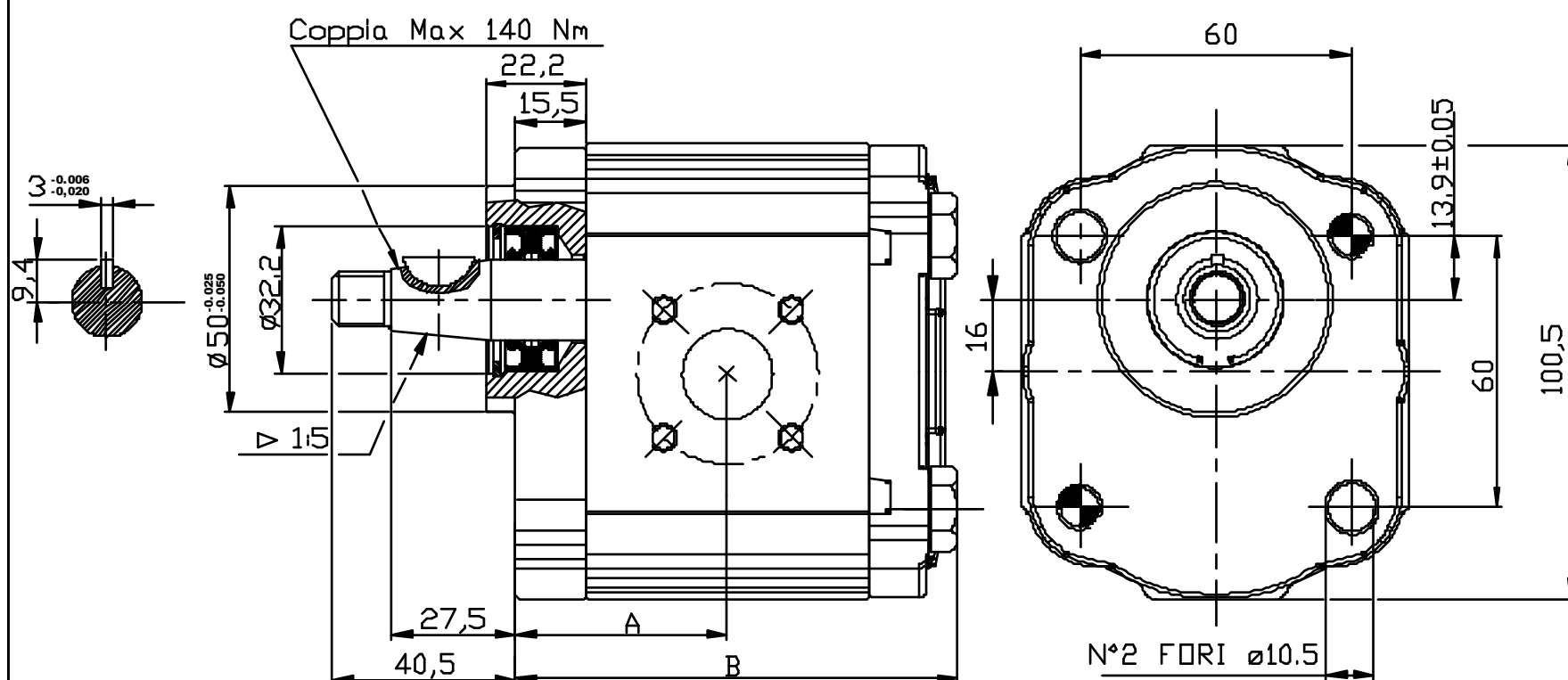
Serie	P	08	S / B	25	B4	Flangia standard Tedesca
Pompa						Albero conico ( 1:5 )
Cilindrata ( vedere tabella )						Corpo con bocche a flangia
Rotazione						
S	Sinistra					
D	Destra					



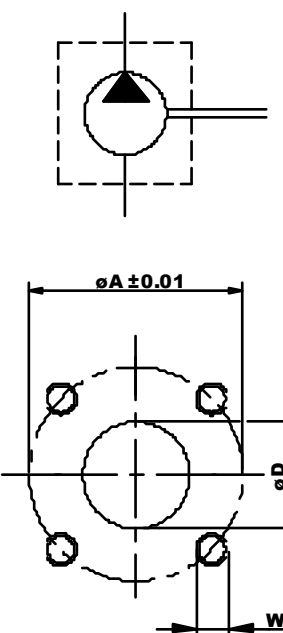


## POMPE GRUPPO 2- UNIFICAZIONE TEDESCA

**VERSIONE: B25 B5**



Tipo	Cilindrata ( cc/giro )	Pressione massima continua P1 ( bar )	Pressione di punta P3 ( bar )	Velocita' massima ( giri/min. )	Dimensione		Bocca di aspirazione			Bocca di mandata		
					A	B	ØD	ØA	W	ØD	ØA	W
OT 200 P04	04,10	250	300	4000	39.50	83,00	20	40	M6	15	35	M6
OT 200 P06	06,20	250	300	3500	41.00	86,00	20	40	M6	15	35	M6
OT 200 P08	08,20	250	300	3500	42.50	89,00	20	40	M6	15	35	M6
OT 200 P11	11,20	250	300	3500	45.65	93.30	20	40	M6	15	35	M6
OT 200 P14	14,00	240	300	3000	46.65	97.30	20	40	M6	15	35	M6
OT 200 P16	16,00	240	300	3000	48.10	100.2	20	40	M6	15	35	M6
OT 200 P20	20,00	200	240	3000	51.00	103,5	20	40	M6	15	35	M6
OT 200 P22	22,50	170	210	2500	56.85	117.7	20	40	M6	15	35	M6
OT 200 P25	25,10	170	210	2500	58.75	121.5	20	40	M6	15	35	M6
OT 200 P28	28,00	140	180	2500	60.85	125.7	20	40	M6	15	35	M6
OT 200 P30	30,00	130	170	2000	62.25	128.5	20	40	M6	15	35	M6



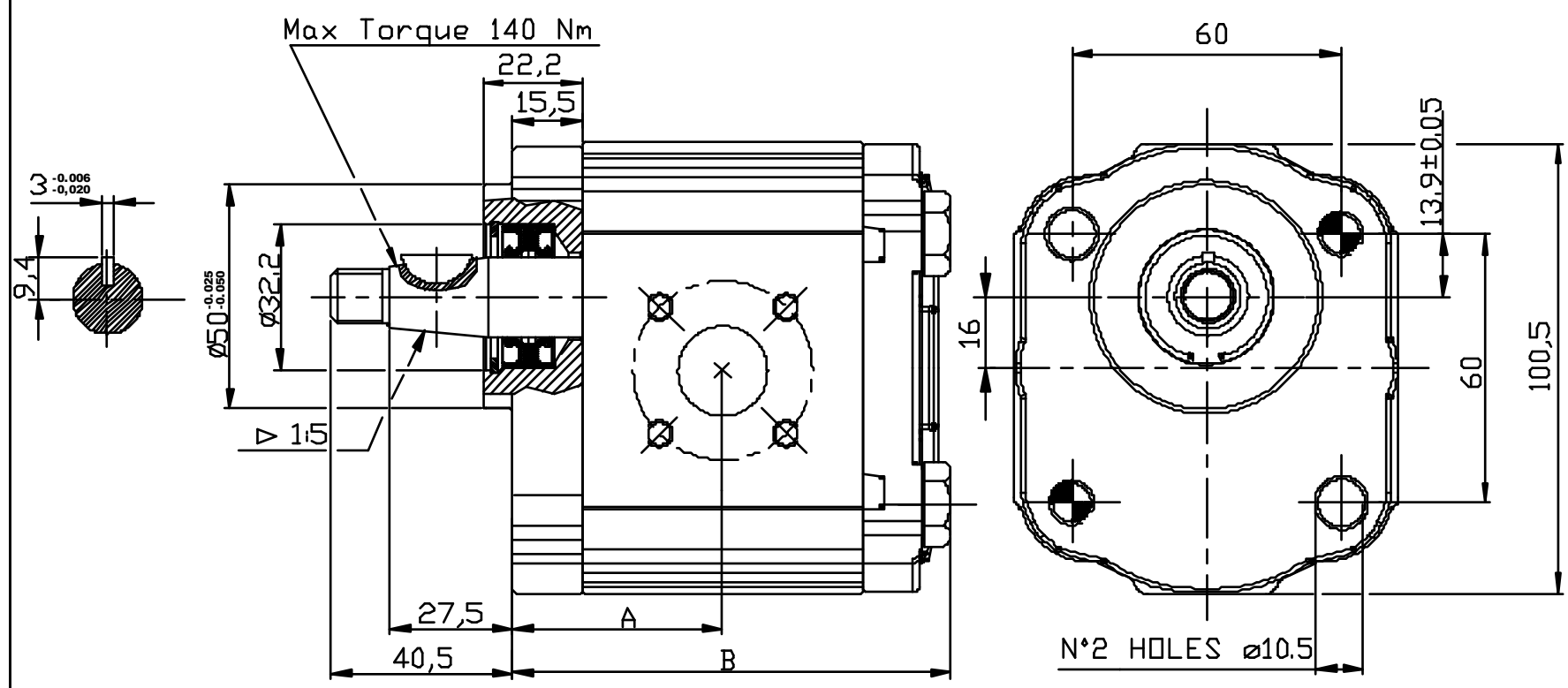
## ESEMPIO DI CODICE D'ORDINAZIONE

**OT200 P 08 S / B 25 B5**

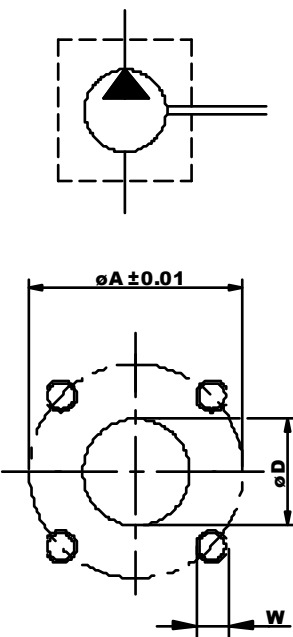
Serie	P	08	S	/	B	25	B5	Flangia standard Tedesca
Pompa								Albero conico ( 1:5 )
Cilindrata ( vedere tabella )								Corpo con bocche a flangia
Rotazione								
S	Sinistra							
D	Destra							

GROUP 2 PUMPS- GERMAN STANDARD

VERSION: B25 B5



Type	Displacement  ( cc/rev )	Max working pressure P1 ( bar )	Peak pressure P3 ( bar )	Max speed  ( r.p.m)	Dimension		Inlet port			Outlet port		
					A	B	ØD	ØA	W	ØD	ØA	W
					( mm )							
OT 200 P04	04,10	250	300	4000	39.50	83,00	20	40	M6	15	35	M6
OT 200 P06	06,20	250	300	3500	41.00	86,00	20	40	M6	15	35	M6
OT 200 P08	08,20	250	300	3500	42.50	89,00	20	40	M6	15	35	M6
OT 200 P11	11,20	250	300	3500	45.65	93.30	20	40	M6	15	35	M6
OT 200 P14	14,00	240	300	3000	46.65	97.30	20	40	M6	15	35	M6
OT 200 P16	16,00	240	300	3000	48.10	100.2	20	40	M6	15	35	M6
OT 200 P20	20,00	200	240	3000	51.00	103,5	20	40	M6	15	35	M6
OT 200 P22	22,50	170	210	2500	56.85	117.7	20	40	M6	15	35	M6
OT 200 P25	25,10	170	210	2500	58.75	121.5	20	40	M6	15	35	M6
OT 200 P28	28,00	140	180	2500	60.85	125.7	20	40	M6	15	35	M6
OT 200 P30	30,00	130	170	2000	62.25	128.5	20	40	M6	15	35	M6



EXAMPLE OF ORDERING CODE

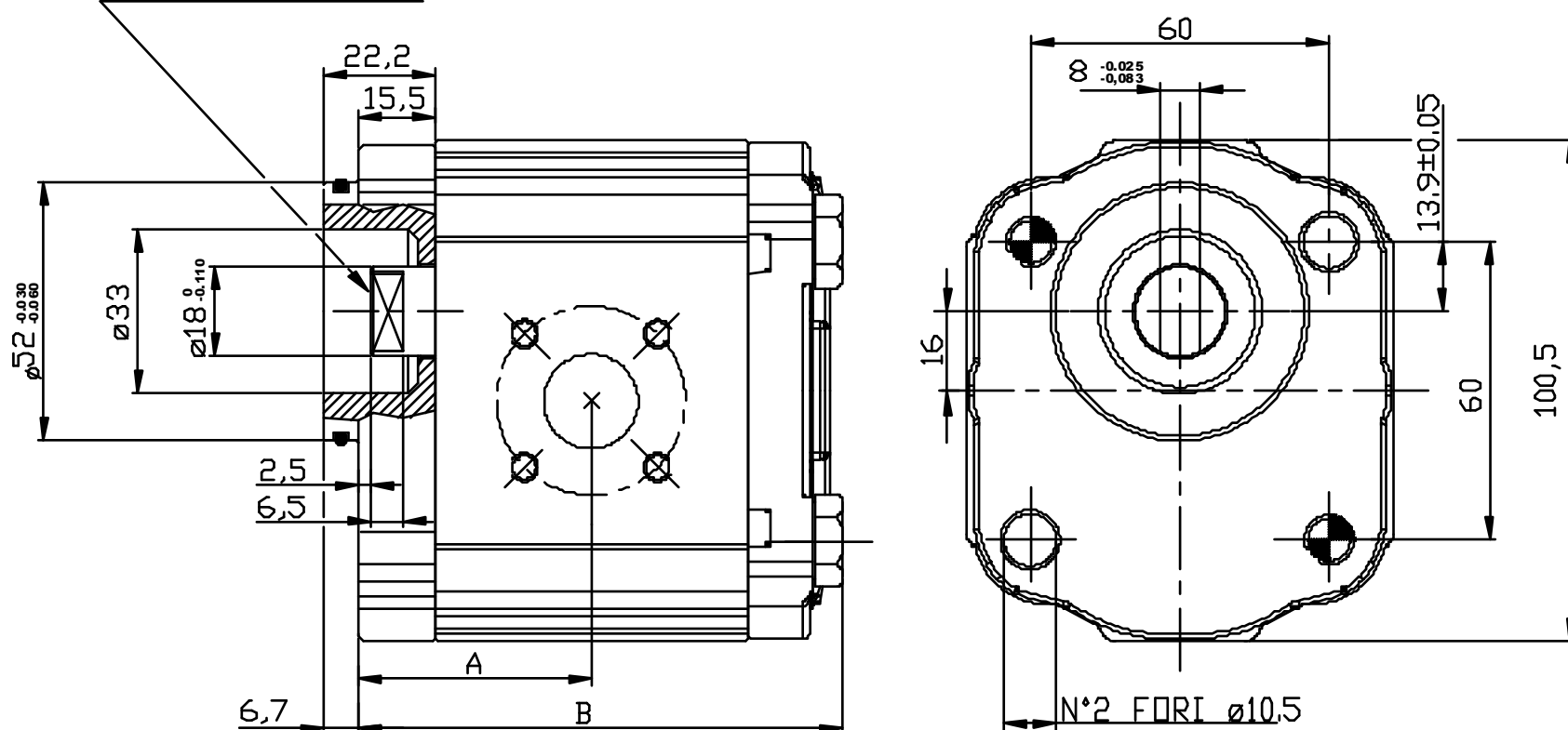
OT200 P 08 S / B 25 B5

Series	Pump	Displacement ( see above table )	Rotation	German standard flange	Taper shaft ( 1:5 )	Body for German flanges
			S Anti-clockwise D Clockwise			

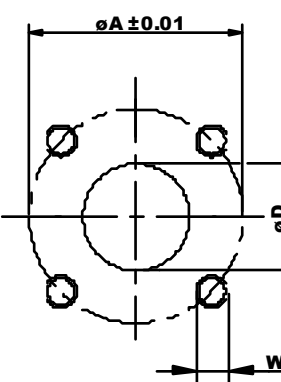
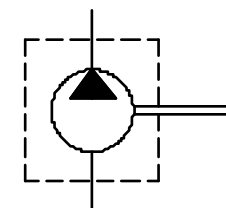
## POMPE GRUPPO 2- UNIFICAZIONE TEDESCA

**VERSIONE: B24 B6**

Coppia Max 70 Nm



Tipo	Cilindrata ( cc/giro )	Pressione massima continua P1 ( bar )	Pressione di punta P3 ( bar )	Velocita' massima ( giri/min. )	Dimensione		Bocca di aspirazione			Bocca di mandata		
					A	B	ØD	ØA	W	ØD	ØA	W
OT 200 P04	04,10	250	300	4000	39.50	83.00	20	40	M6	15	35	M6
OT 200 P06	06,20	250	300	3500	41.00	86.00	20	40	M6	15	35	M6
OT 200 P08	08,20	250	300	3500	42.50	89.00	20	40	M6	15	35	M6
OT 200 P11	11,20	250	300	3500	45.65	93.30	20	40	M6	15	35	M6
OT 200 P14	14,00	240	300	3000	46.65	97.30	20	40	M6	15	35	M6
OT 200 P16	16,00	240	300	3000	48.10	100.2	20	40	M6	15	35	M6
OT 200 P20	20,00	200	240	3000	51.00	103.5	20	40	M6	15	35	M6
OT 200 P22	22,50	170	210	2500	56.85	117.7	20	40	M6	15	35	M6
OT 200 P25	25,10	170	210	2500	58.75	121.5	20	40	M6	15	35	M6
OT 200 P28	28,00	140	180	2500	60.85	125.7	20	40	M6	15	35	M6
OT 200 P30	30,00	130	170	2000	62.25	128.5	20	40	M6	15	35	M6



## ESEMPIO DI CODICE D'ORDINAZIONE

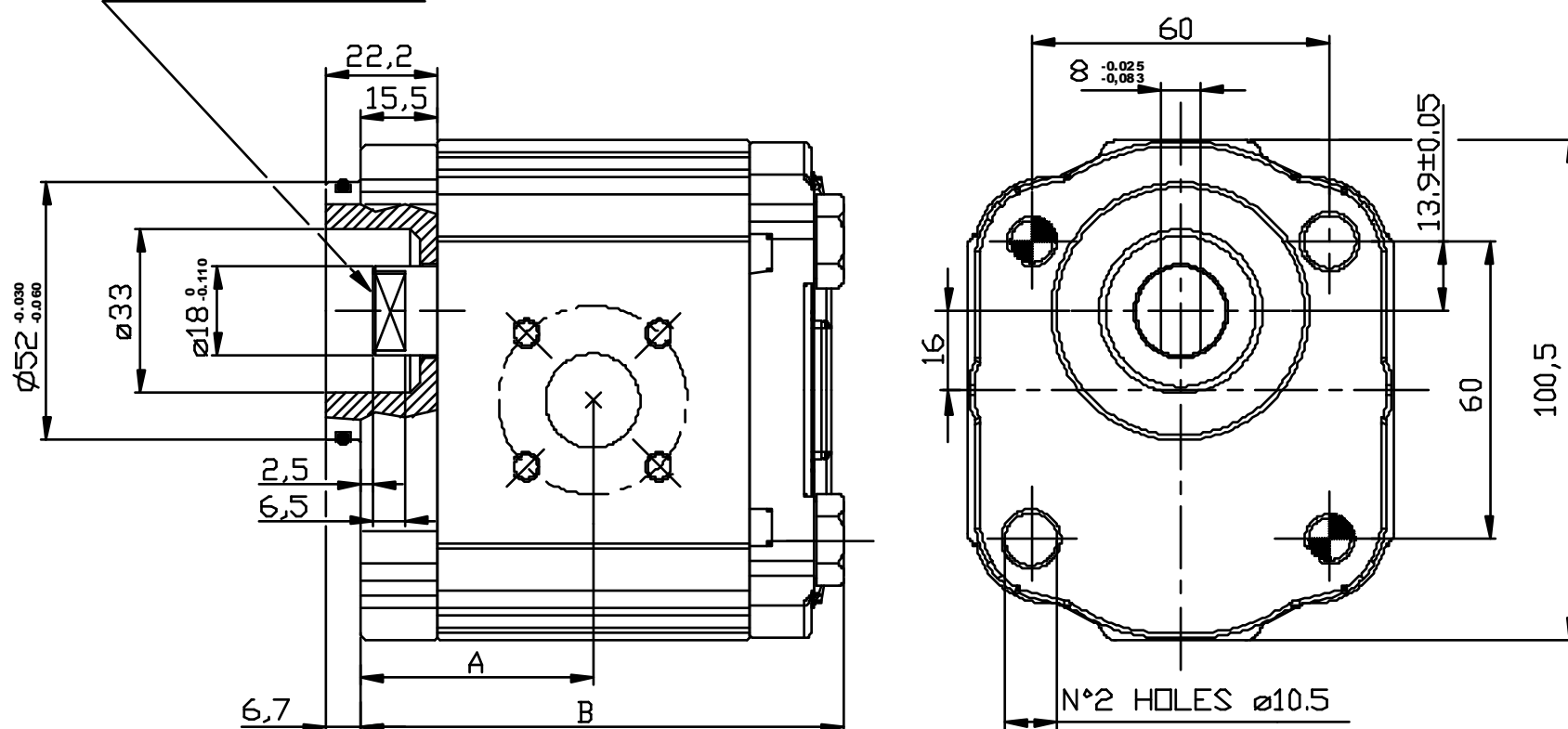
**OT200 P 08 S / B 24 B6**

Serie	P	08	S	/	B	24	B6	Flangia standard Tedesca
Pompa								Albero a penna
Cilindrata ( vedere tabella )								Corpo con bocche a flangia
Rotazione								
S	Sinistra							
D	Destra							

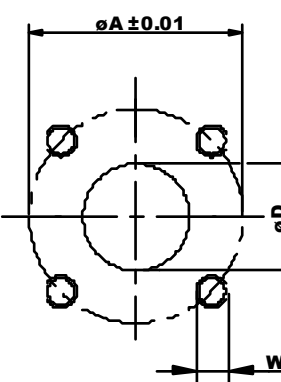
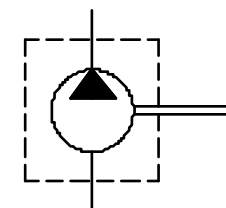
## GROUP 2 PUMPS- GERMAN STANDARD

**VERSION: B24 B6**

Max Torque 70 Nm



Type	Displacement  ( cc/rev )	Max working pressure P1 ( bar )	Peak pressure P3 ( bar )	Max speed ( r.p.m)	Dimension A   B		Inlet port			Outlet port		
					( mm )		ØD	ØA	W	ØD	ØA	W
OT 200 P04	04,10	250	300	4000	39.50	83,00	20	40	M6	15	35	M6
OT 200 P06	06,20	250	300	3500	41.00	86,00	20	40	M6	15	35	M6
OT 200 P08	08,20	250	300	3500	42.50	89,00	20	40	M6	15	35	M6
OT 200 P11	11,20	250	300	3500	45.65	93.30	20	40	M6	15	35	M6
OT 200 P14	14,00	240	300	3000	46.65	97.30	20	40	M6	15	35	M6
OT 200 P16	16,00	240	300	3000	48.10	100.2	20	40	M6	15	35	M6
OT 200 P20	20,00	200	240	3000	51.00	103,5	20	40	M6	15	35	M6
OT 200 P22	22,50	170	210	2500	56.85	117.7	20	40	M6	15	35	M6
OT 200 P25	25,10	170	210	2500	58.75	121.5	20	40	M6	15	35	M6
OT 200 P28	28,00	140	180	2500	60.85	125.7	20	40	M6	15	35	M6
OT 200 P30	30,00	130	170	2000	62.25	128.5	20	40	M6	15	35	M6



## EXAMPLE OF ORDERING CODE

**OT200 P 08 S / B 24 B6**

Series

Pump

Displacement ( see above table )

Rotation

S Anti-clockwise  
D Clockwise

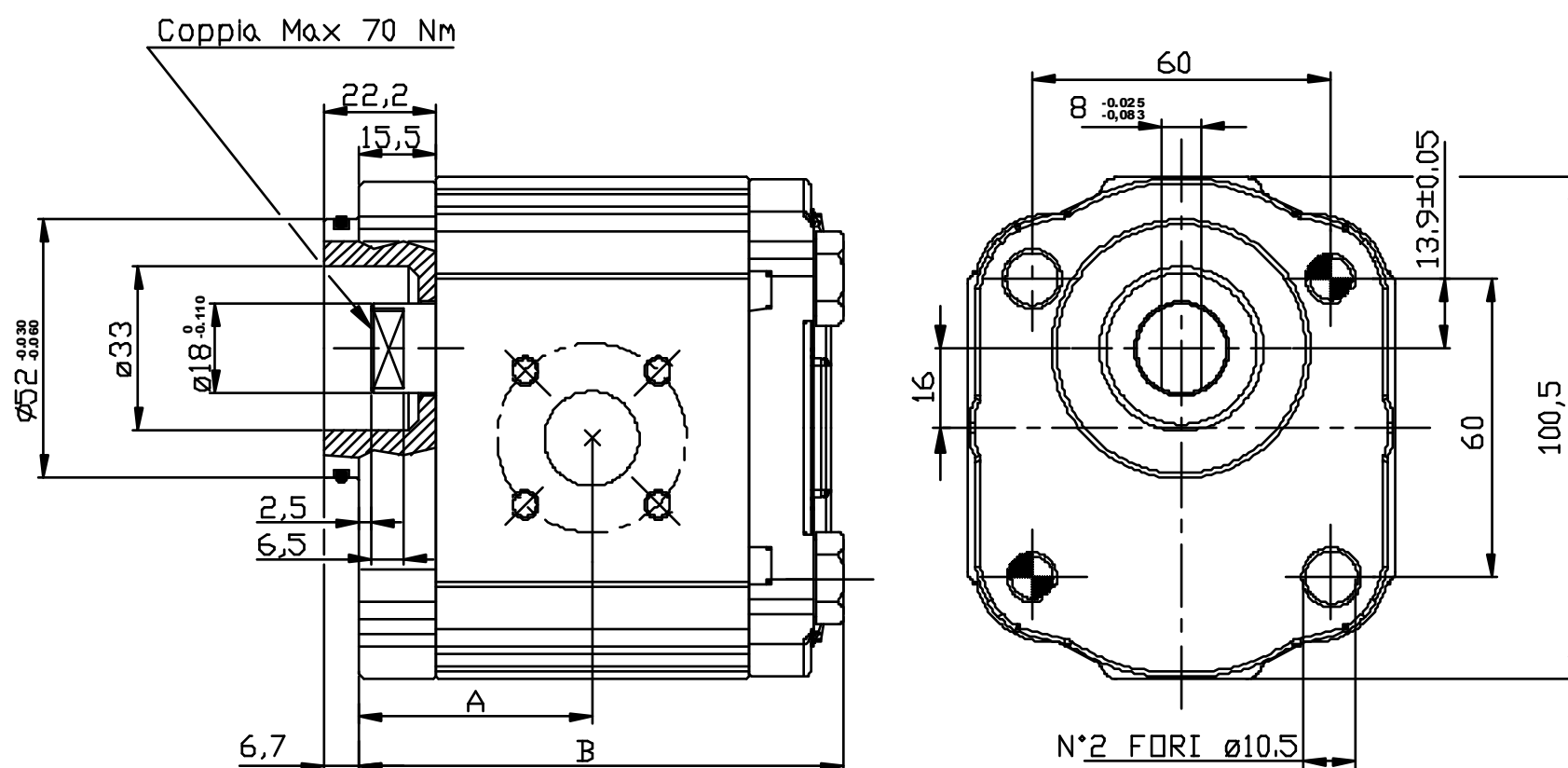
German standard flange

Tang shaft

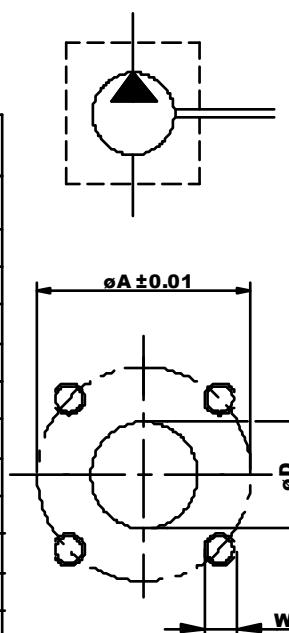
Body for German flanges

## POMPE GRUPPO 2- UNIFICAZIONE TEDESCA

**VERSIONE: B24 B7**



Tipo	Cilindrata  ( cc/giro )	Pressione massima continua P1 ( bar )	Pressione di punta P3 ( bar )	Velocita' massima  ( giri/min. )	Dimensione A   B		Bocca di aspirazione			Bocca di mandata		
					( mm )		ØD	ØA	W	ØD	ØA	W
OT 200 P04	04,10	250	300	4000	39.50	83,00	20	40	M6	15	35	M6
OT 200 P06	06,20	250	300	3500	41.00	86,00	20	40	M6	15	35	M6
OT 200 P08	08,20	250	300	3500	42.50	89,00	20	40	M6	15	35	M6
OT 200 P11	11,20	250	300	3500	45.65	93.30	20	40	M6	15	35	M6
OT 200 P14	14,00	240	300	3000	46.65	97.30	20	40	M6	15	35	M6
OT 200 P16	16,00	240	300	3000	48.10	100.2	20	40	M6	15	35	M6
OT 200 P20	20,00	200	240	3000	51.00	103,5	20	40	M6	15	35	M6
OT 200 P22	22,50	170	210	2500	56.85	117.7	20	40	M6	15	35	M6
OT 200 P25	25,10	170	210	2500	58.75	121.5	20	40	M6	15	35	M6
OT 200 P28	28,00	140	180	2500	60.85	125.7	20	40	M6	15	35	M6
OT 200 P30	30,00	130	170	2000	62.25	128.5	20	40	M6	15	35	M6



## ESEMPIO DI CODICE D'ORDINAZIONE

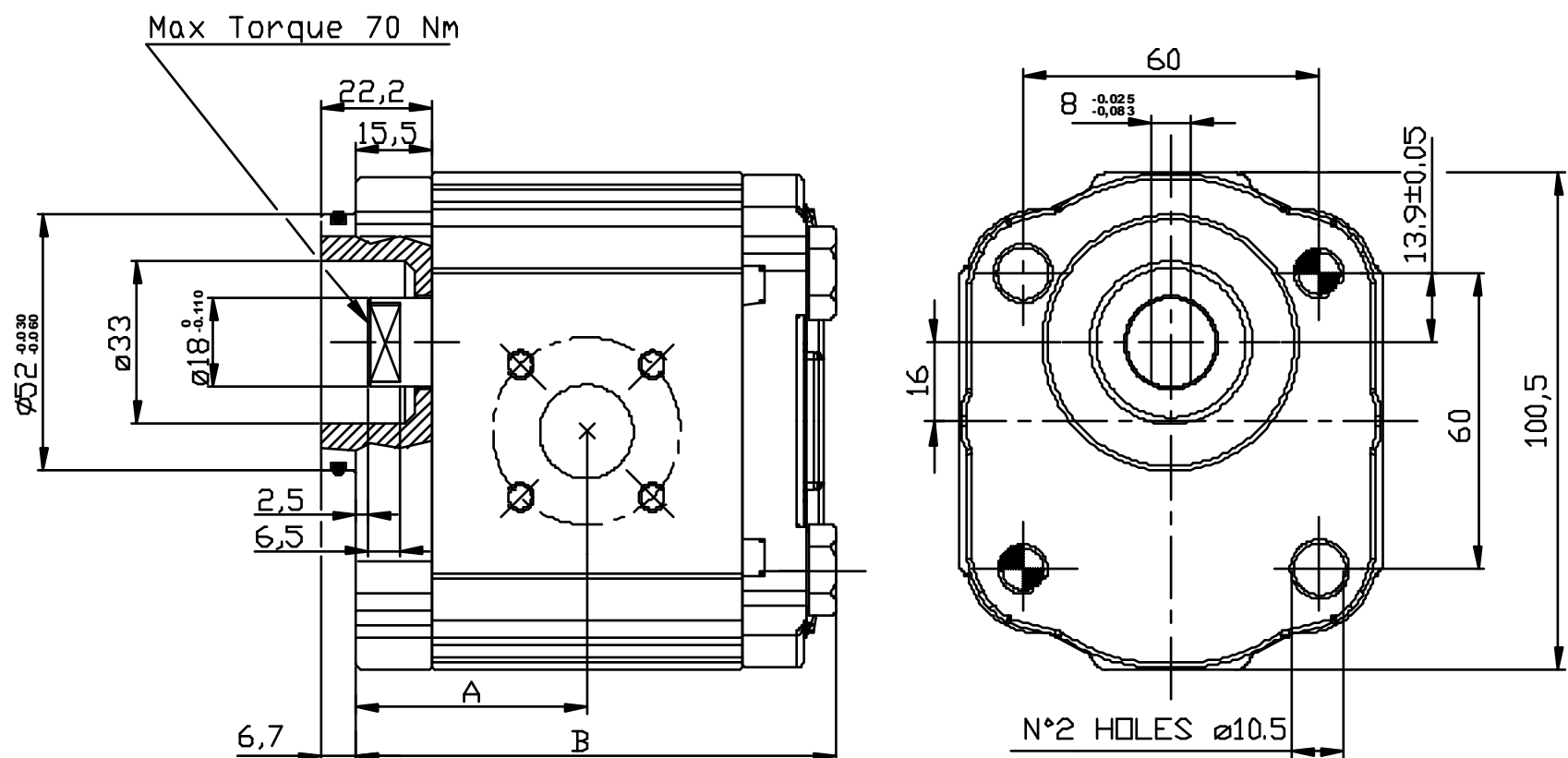
**OT200 P 08 S / B 24 B7**

Serie	P	08	S	/	B	24	B7	Flangia standard Tedesca
Pompa								Albero a penna
Cilindrata ( vedere tabella )								Corpo con bocche a flangia
Rotazione								
S	Sinistra							
D	Destra							

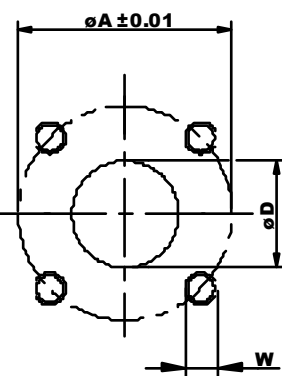
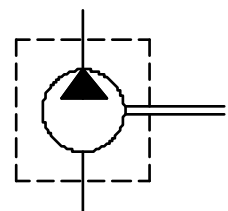


## GROUP 2 PUMPS- GERMAN STANDARD

**VERSION: B24 B7**



Type	Displacement ( cc/rev )	Max working pressure P1 ( bar )	Peak pressure P3 ( bar )	Max speed ( r.p.m )	Dimension		Inlet port			Outlet port		
					A	B	ØD	ØA	W	ØD	ØA	W
OT 200 P04	04,10	250	300	4000	39.50	83,00	20	40	M6	15	35	M6
OT 200 P06	06,20	250	300	3500	41.00	86,00	20	40	M6	15	35	M6
OT 200 P08	08,20	250	300	3500	42.50	89,00	20	40	M6	15	35	M6
OT 200 P11	11,20	250	300	3500	45.65	93.30	20	40	M6	15	35	M6
OT 200 P14	14,00	240	300	3000	46.65	97.30	20	40	M6	15	35	M6
OT 200 P16	16,00	240	300	3000	48.10	100.2	20	40	M6	15	35	M6
OT 200 P20	20,00	200	240	3000	51.00	103,5	20	40	M6	15	35	M6
OT 200 P22	22,50	170	210	2500	56.85	117.7	20	40	M6	15	35	M6
OT 200 P25	25,10	170	210	2500	58.75	121.5	20	40	M6	15	35	M6
OT 200 P28	28,00	140	180	2500	60.85	125.7	20	40	M6	15	35	M6
OT 200 P30	30,00	130	170	2000	62.25	128.5	20	40	M6	15	35	M6



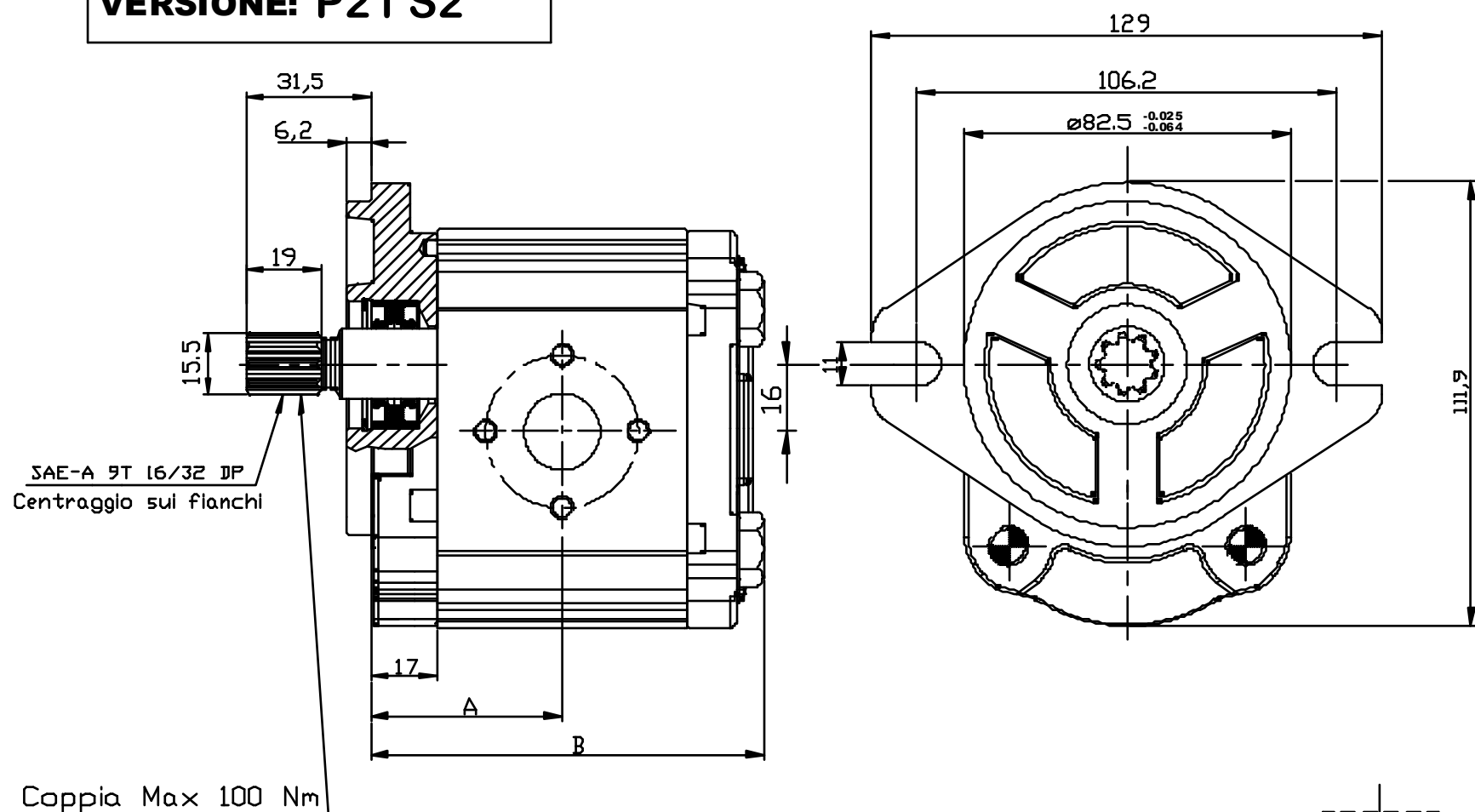
### EXAMPLE OF ORDERING CODE

**OT200 P 08 S / B 24 B7**

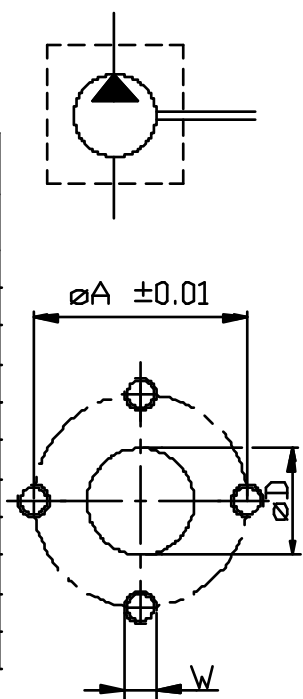
Series	OT200	Pump	P	Displacement ( see above table )	08	Rotation	S	Body for German flanges	B	Tang shaft	24	German standard flange	B7
							D						

## POMPE GRUPPO 2- UNIFICAZIONE SAE " A"

**VERSIONE: P21 S2**



Tipo	Cilindrata	Pressione massima continua P1	Pressione di punta P3	Velocita' massima	Dimensione		Bocca di aspirazione			Bocca di mandata		
					A	B	ØD	ØA	W	ØD	ØA	W
	( cc/giro )	( bar )	( bar )	( giri/min. )	( mm )							
OT 200 P04	04,10	250	300	4000	41,00	84,50	13	30	M6	13	30	M6
OT 200 P06	06,20	250	300	3500	42,50	87,50	13	30	M6	13	30	M6
OT 200 P08	08,20	250	300	3500	44,00	90,50	13	30	M6	13	30	M6
OT 200 P11	11,20	250	300	3500	46,15	94,80	13	30	M6	13	30	M6
OT 200 P14	14,00	240	300	3000	48,15	98,80	20	40	M8	13	30	M6
OT 200 P16	16,00	240	300	3000	49,60	101,7	20	40	M8	13	30	M6
OT 200 P20	20,00	200	240	3000	52,50	107,5	20	40	M8	13	30	M6
OT 200 P22	22,50	170	210	2500	58,35	119,2	20	40	M8	13	30	M6
OT 200 P25	25,10	170	210	2500	60,25	123,0	20	40	M8	13	30	M6
OT 200 P28	28,00	140	180	2500	62,35	127,2	20	40	M8	13	30	M6
OT 200 P30	30,00	130	170	2000	63,75	130,0	20	40	M8	13	30	M6



## ESEMPIO DI CODICE D'ORDINAZIONE

**OT200 P 08 S / P 21 S2**

Serie

Pompa

Cilindrata ( vedere tabella )

Rotazione  
S Sinistra  
D Destra

Flangia SAE A

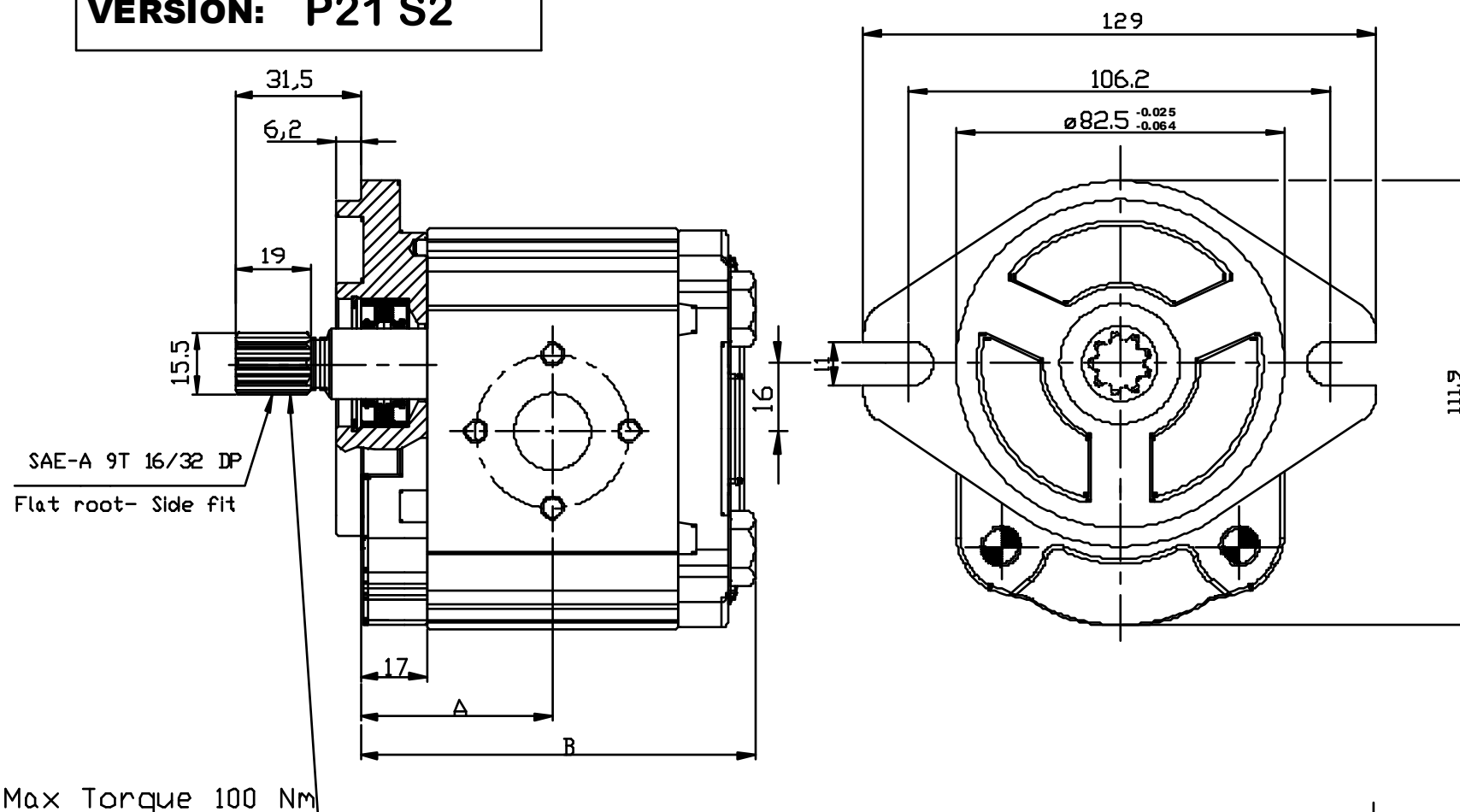
Albero SAE-A 9T 16/32 DP

Corpo con bocche a flangia

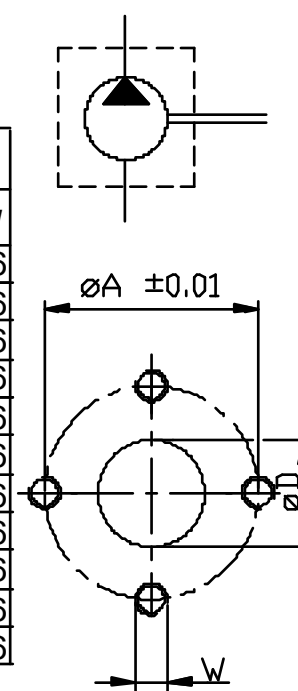


## GROUP 2 PUMPS- SAE "A" STANDARD

**VERSION: P21 S2**



Type	Displacement  ( cc/rev )	Max working pressure P1 ( bar )	Peak pressure P3 ( bar )	Max speed ( r.p.m)	Dimension		Inlet port			Outlet port		
					A	B	ØD	ØA	W	ØD	ØA	W
					( mm )							
OT 200 P04	04,10	250	300	4000	41,00	84,50	13	30	M6	13	30	M6
OT 200 P06	06,20	250	300	3500	42,50	87,50	13	30	M6	13	30	M6
OT 200 P08	08,20	250	300	3500	44,00	90,50	13	30	M6	13	30	M6
OT 200 P11	11,20	250	300	3500	46,15	94,80	13	30	M6	13	30	M6
OT 200 P14	14,00	240	300	3000	48,15	98,80	20	40	M8	13	30	M6
OT 200 P16	16,00	240	300	3000	49,60	101,7	20	40	M8	13	30	M6
OT 200 P20	20,00	200	240	3000	52,50	107,5	20	40	M8	13	30	M6
OT 200 P22	22,50	170	210	2500	58,35	119,2	20	40	M8	13	30	M6
OT 200 P25	25,10	170	210	2500	60,25	123,0	20	40	M8	13	30	M6
OT 200 P28	28,00	140	180	2500	62,35	127,2	20	40	M8	13	30	M6
OT 200 P30	30,00	130	170	2000	63,75	130,0	20	40	M8	13	30	M6



## EXAMPLE OF ORDERING CODE

**OT200 P 08 S / P 21 S2**

Series

Pump

Displacement ( see above table )

Rotation

S Anti-clockwise  
D Clockwise

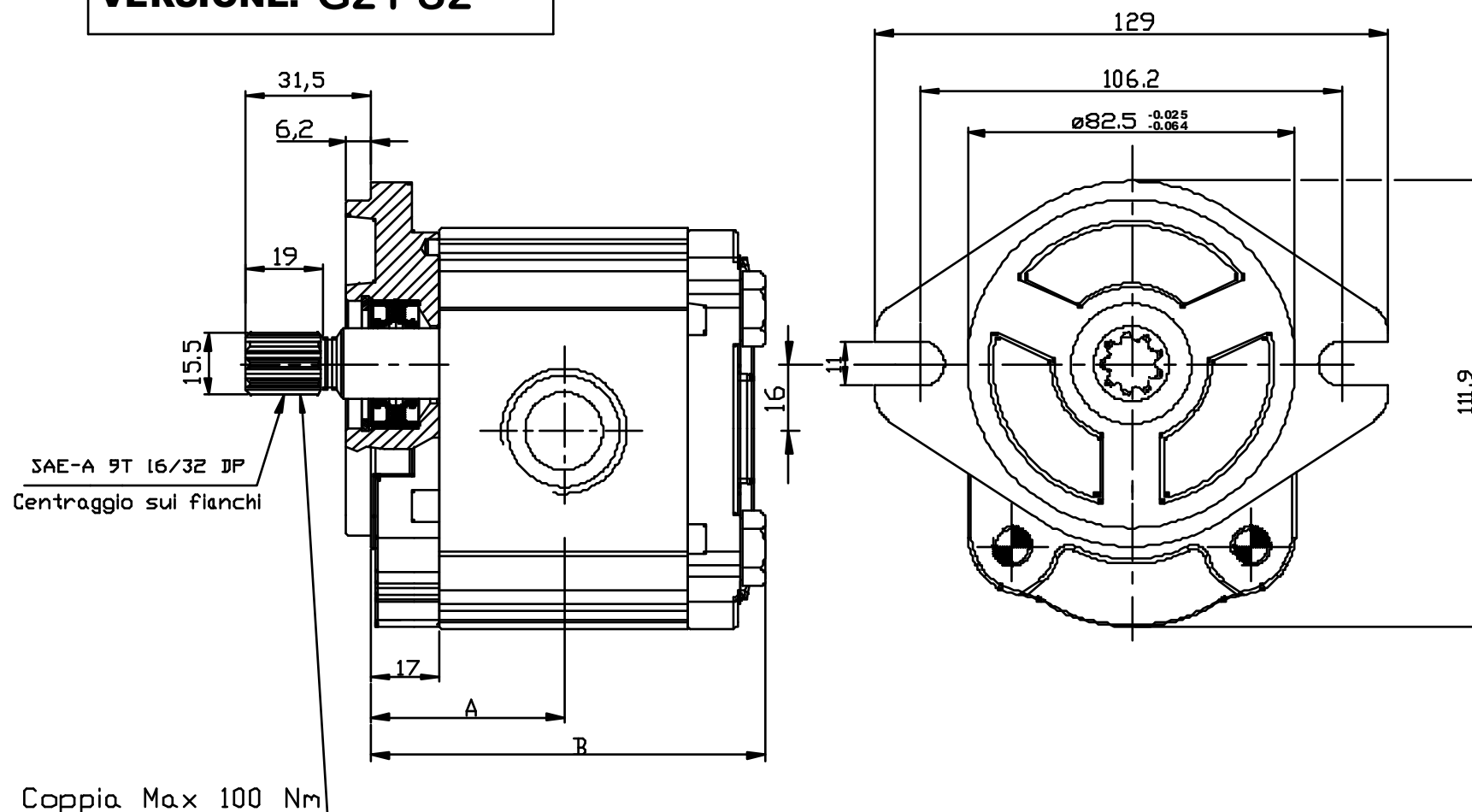
SAE- A flange

SAE A -9T 16/32 DP shaft

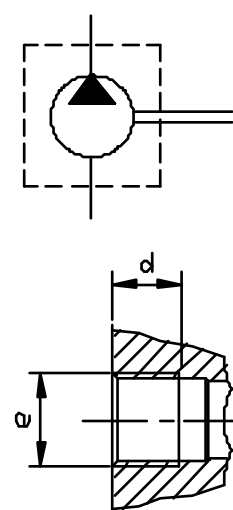
Body for European flanges

## POMPE GRUPPO 2- UNIFICAZIONE SAE " A"

**VERSIONE: G21 S2**



Tipo	Cilindrata ( cc/ giro )	Pressione massima continua P1 ( bar )	Pressione di punta P3 ( bar )	Velocita' massima ( giri/min. )	Dimensione		Bocca di aspirazione		Bocca di mandata	
					A	B	e	d	e	d
					( mm )					
<b>OT 200 P04</b>	04,10	250	300	4000	41,00	84,50	G1/2	14	G1/2	14
<b>OT 200 P06</b>	06,20	250	300	3500	42,50	87,50	G1/2	14	G1/2	14
<b>OT 200 P08</b>	08,20	250	300	3500	44,00	90,50	G1/2	14	G1/2	14
<b>OT 200 P11</b>	11,20	250	300	3500	46,15	94,80	G1/2	14	G1/2	14
<b>OT 200 P14</b>	14,00	240	300	3000	48,15	98,80	G3/4	16	G1/2	14
<b>OT 200 P16</b>	16,00	240	300	3000	49,60	101,7	G3/4	16	G1/2	14
<b>OT 200 P20</b>	20,00	200	240	3000	52,50	107,5	G3/4	16	G1/2	14
<b>OT 200 P22</b>	22,50	170	210	2500	58,35	119,2	G3/4	16	G1/2	14
<b>OT 200 P25</b>	25,10	170	210	2500	60,25	123,0	G3/4	16	G1/2	14
<b>OT 200 P28</b>	28,00	140	180	2500	62,35	127,2	G3/4	16	G1/2	14
<b>OT 200 P30</b>	30,00	130	170	2000	63,75	130,0	G3/4	16	G1/2	14



## ESEMPIO DI CODICE D'ORDINAZIONE

**OT200 P 08 S / G 21 S2**

Serie

Pompa

Cilindrata ( vedere tabella )

Rotazione	
S	Sinistra
D	Destra

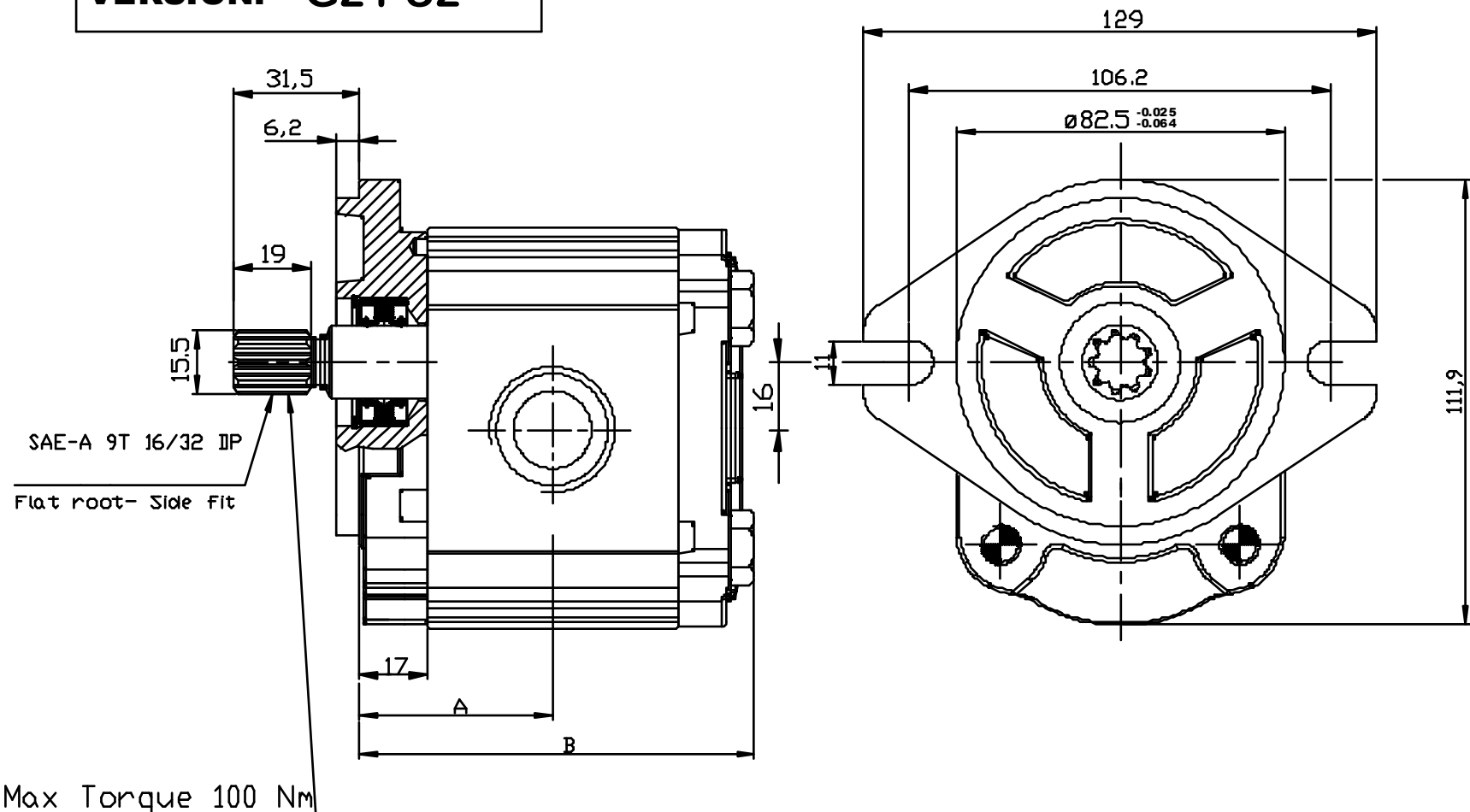
Flangia SAE A

Albero SAE-A 9T 16/32 DP

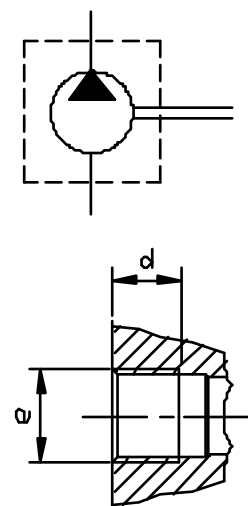
Corpo con bocche filettate ( GAS )

## GROUP 2 PUMPS- SAE "A" STANDARD

**VERSION: G21 S2**



Type	Displacement ( cc/rev )	Max working pressure P1 ( bar )	Peak pressure P3 ( bar )	Max speed ( r.p.m )	Dimension A B		Inlet port		Outlet port	
					( mm )		e	d	e	d
OT 200 P04	04,10	250	300	4000	41,00	84,50	G1/2	14	G1/2	14
OT 200 P06	06,20	250	300	3500	42,50	87,50	G1/2	14	G1/2	14
OT 200 P08	08,20	250	300	3500	44,00	90,50	G1/2	14	G1/2	14
OT 200 P11	11,20	250	300	3500	46,15	94,80	G1/2	14	G1/2	14
OT 200 P14	14,00	240	300	3000	48,15	98,80	G3/4	16	G1/2	14
OT 200 P16	16,00	240	300	3000	49,60	101,7	G3/4	16	G1/2	14
OT 200 P20	20,00	200	240	3000	52,50	107,5	G3/4	16	G1/2	14
OT 200 P22	22,50	170	210	2500	58,35	119,2	G3/4	16	G1/2	14
OT 200 P25	25,10	170	210	2500	60,25	123,0	G3/4	16	G1/2	14
OT 200 P28	28,00	140	180	2500	62,35	127,2	G3/4	16	G1/2	14
OT 200 P30	30,00	130	170	2000	63,75	130,0	G3/4	16	G1/2	14



## EXAMPLE OF ORDERING CODE

**OT200 P 08 S / G 21 S2**

Series

Pump

Displacement ( see above table )

Rotation

S Anti-clockwise  
D Clockwise

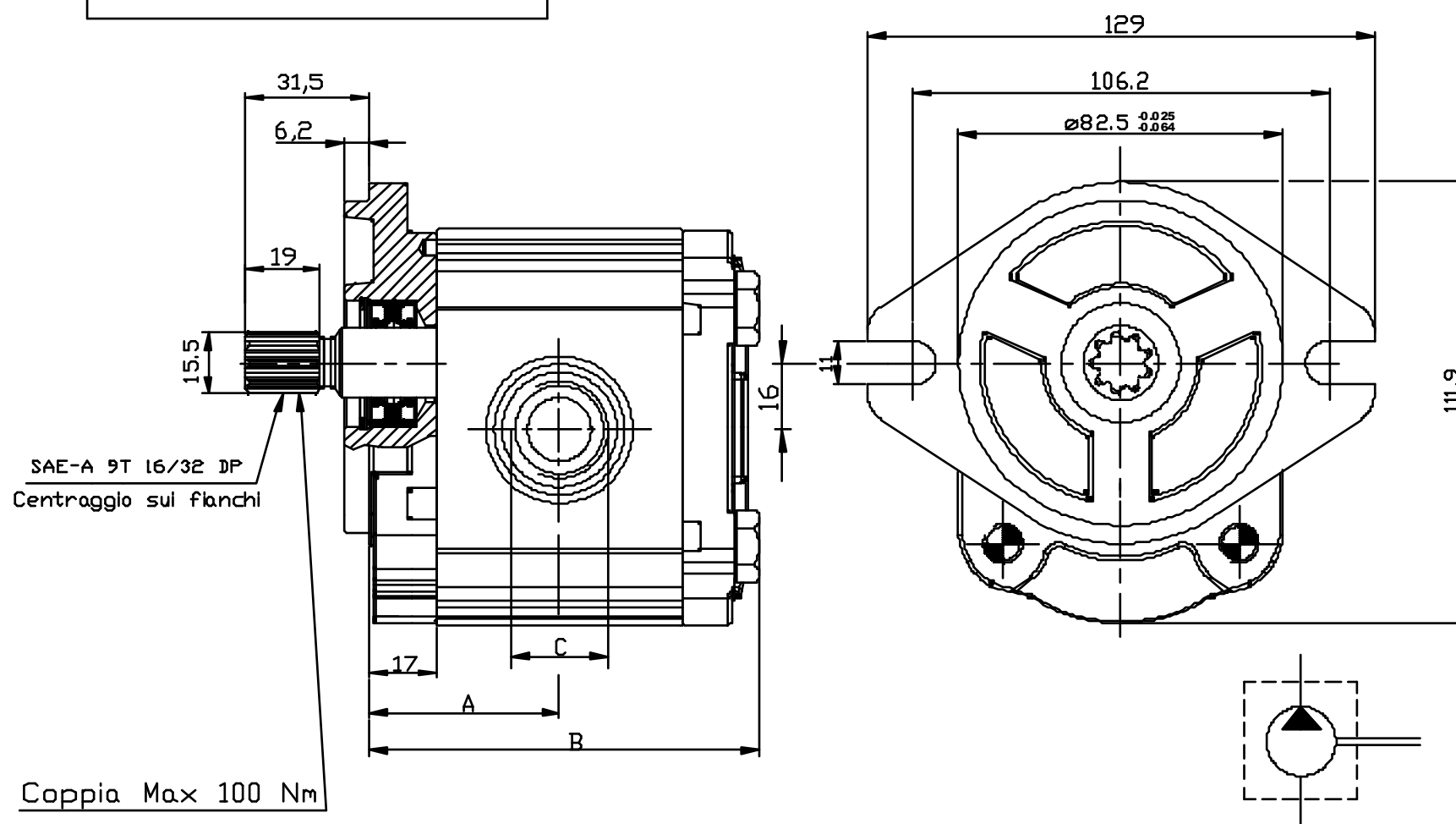
SAE- A flange

SAE A -9T 16/32 DP shaft

Body with threaded ports ( BSP )

## POMPE GRUPPO 2- UNIFICAZIONE SAE " A"

**VERSIONE: R21 S2**



Tipo	Cilindrata  ( cc/giro )	Pressione massima continua P1 ( bar )	Pressione di punta P3 ( bar )	Velocita' massima ( giri/min. )	Dimensione		Bocca di aspirazione  C	Bocca di mandata  C
					A	B		
					( mm )			
OT 200 P04	04,10	250	300	4000	41,00	84,50	7/8-14UNF-2B	7/8-14UNF-2B
OT 200 P06	06,20	250	300	3500	42,50	87,50		
OT 200 P08	08,20	250	300	3500	44,00	90,50		
OT 200 P11	11,20	250	300	3500	46,15	94,80		
OT 200 P14	14,00	240	300	3000	48,15	98,80	1-1/16-12UN-2B	
OT 200 P16	16,00	240	300	3000	49,60	101,7		
OT 200 P20	20,00	200	240	3000	52,50	107,5		
OT 200 P22	22,50	170	210	2500	58,35	119,2		
OT 200 P25	25,10	170	210	2500	60,25	123,0		
OT 200 P28	28,00	140	180	2500	62,35	127,2		
OT 200 P30	30,00	130	170	2000	63,75	130,0		

## ESEMPIO DI CODICE D'ORDINAZIONE

**OT200 P 08 S / R 21 S2**

Serie

Pompa

Cilindrata ( vedere tabella )

Rotazione  
S Sinistra  
D Destra

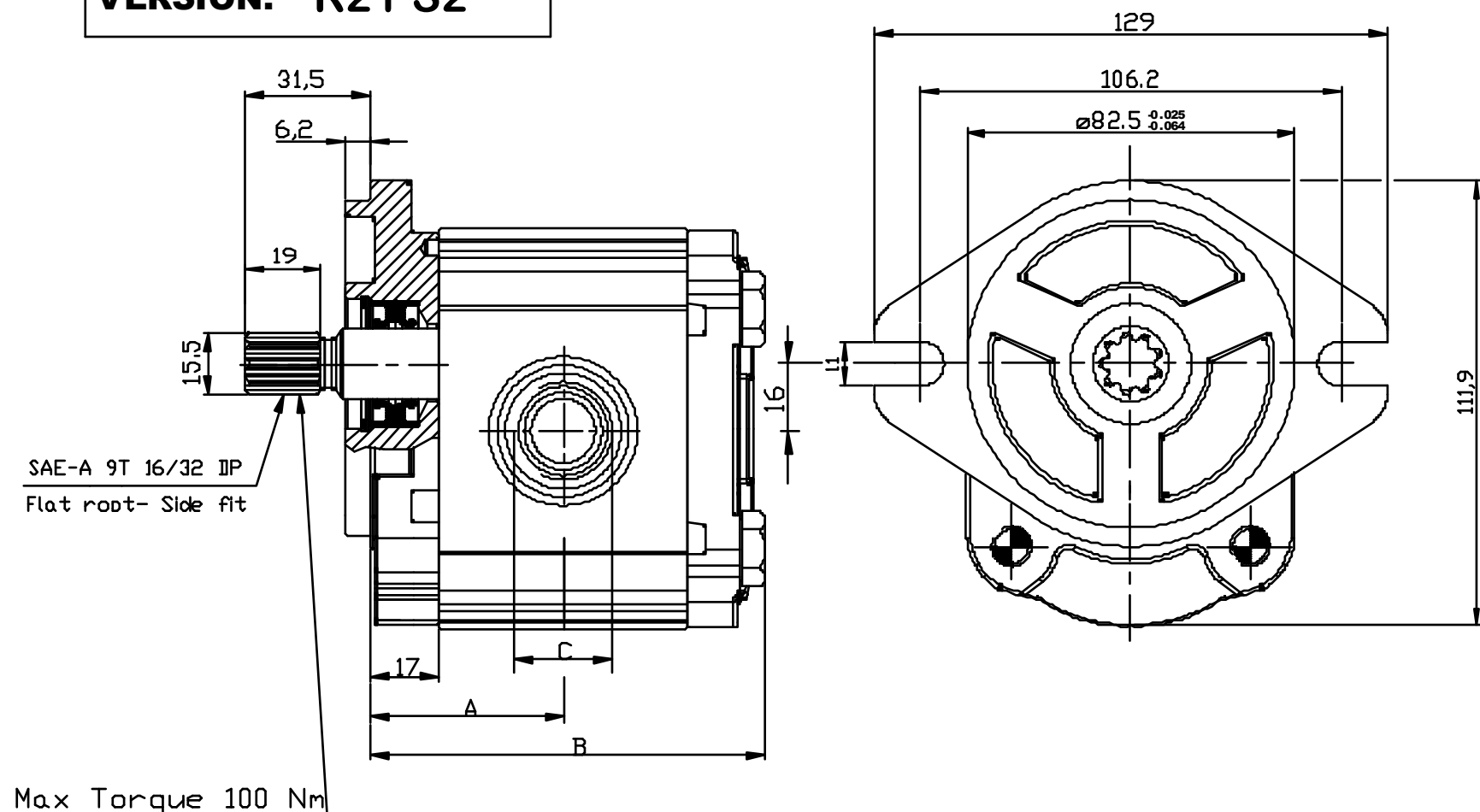
Flangia SAE A

Albero SAE-A 9T 16/32 DP

Corpo con bocche O-ring boss

## GROUP 2 PUMPS- SAE "A" STANDARD

**VERSION: R21 S2**



Type	Displacement  ( cc/rev )	Max working pressure P1 ( bar )	Peak pressure P3 ( bar )	Max speed  ( r.p.m)	Dimension		Inlet port  C	Outlet port  C
					A	B		
					( mm )			
<b>OT 200 P04</b>	04,10	250	300	4000	41,00	84,50	7/8-14UNF-2B	7/8-14UNF-2B
<b>OT 200 P06</b>	06,20	250	300	3500	42,50	87,50		
<b>OT 200 P08</b>	08,20	250	300	3500	44,00	90,50		
<b>OT 200 P11</b>	11,20	250	300	3500	46,15	94,80		
<b>OT 200 P14</b>	14,00	240	300	3000	48,15	98,80	1-1/16-12UN-2B	
<b>OT 200 P16</b>	16,00	240	300	3000	49,60	101,7		
<b>OT 200 P20</b>	20,00	200	240	3000	52,50	107,5		
<b>OT 200 P22</b>	22,50	170	210	2500	58,35	119,2		
<b>OT 200 P25</b>	25,10	170	210	2500	60,25	123,0		
<b>OT 200 P28</b>	28,00	140	180	2500	62,35	127,2		
<b>OT 200 P30</b>	30,00	130	170	2000	63,75	130,0		

### EXAMPLE OF ORDERING CODE

**OT200 P 08 S / R 21 S2**

Series

Pump

Displacement ( see above table )

Rotation

S Anti-clockwise  
D Clockwise

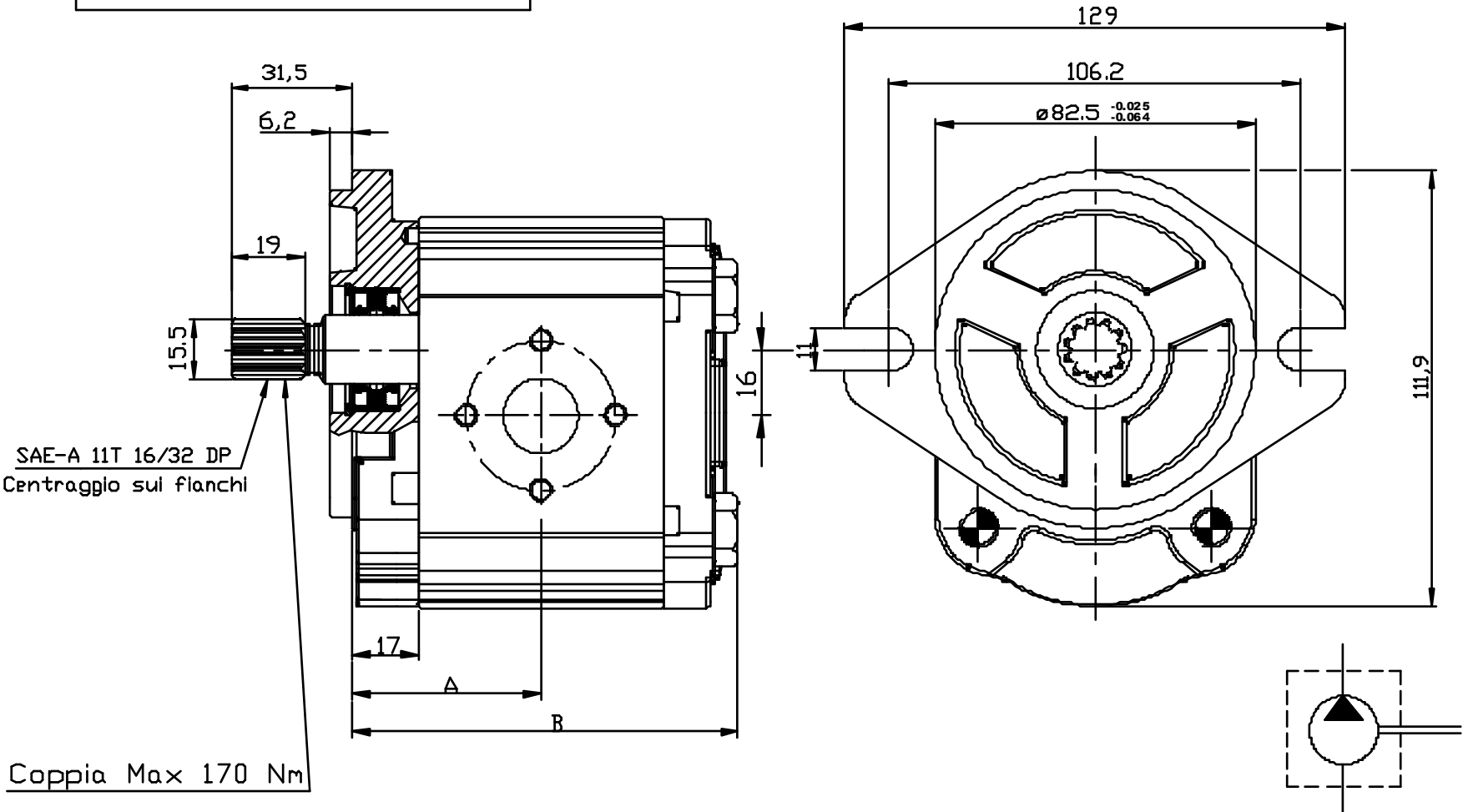
SAE- A flange

SAE A -9T 16/32 DP shaft

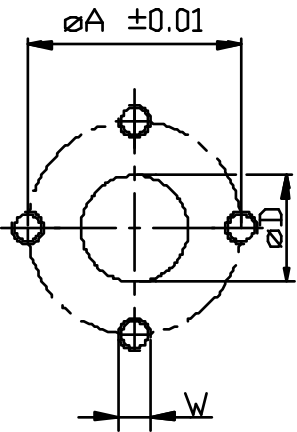
Body with O-ring boss ports

**POMPE GRUPPO 2- UNIFICAZIONE SAE " A"**

**VERSIONE: P20 S2**

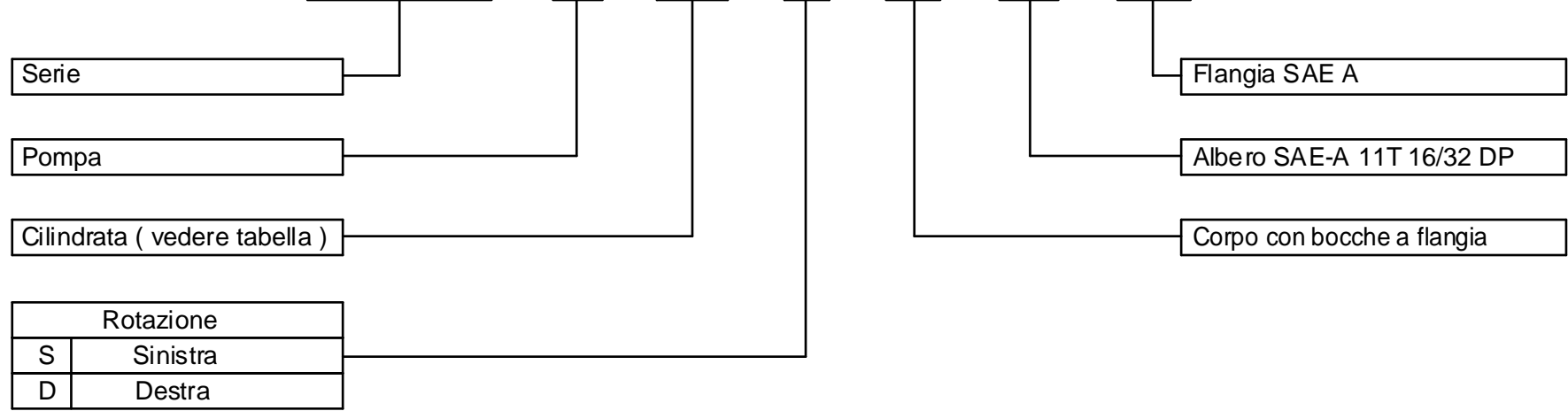


Tipo	Cilindrata	Pressione massima continua P1 ( bar )	Pressione di punta P3 ( bar )	Velocita' massima ( giri/min. )	Dimensione		Bocca di aspirazione			Bocca di mandata		
	( cc/giro )				A	B	ØD	ØA	W	ØD	ØA	W
					( mm )							
OT 200 P04	04,10	250	300	4000	41,00	84,50	13	30	M6	13	30	M6
OT 200 P06	06,20	250	300	3500	42,50	87,50	13	30	M6	13	30	M6
OT 200 P08	08,20	250	300	3500	44,00	90,50	13	30	M6	13	30	M6
OT 200 P11	11,20	250	300	3500	46,15	94,80	13	30	M6	13	30	M6
OT 200 P14	14,00	240	300	3000	48,15	98,80	20	40	M8	13	30	M6
OT 200 P16	16,00	240	300	3000	49,60	101,7	20	40	M8	13	30	M6
OT 200 P20	20,00	200	240	3000	52,50	107,5	20	40	M8	13	30	M6
OT 200 P22	22,50	170	210	2500	58,35	119,2	20	40	M8	13	30	M6
OT 200 P25	25,10	170	210	2500	60,25	123,0	20	40	M8	13	30	M6
OT 200 P28	28,00	140	180	2500	62,35	127,2	20	40	M8	13	30	M6
OT 200 P30	30,00	130	170	2000	63,75	130,0	20	40	M8	13	30	M6



**ESEMPIO DI CODICE D'ORDINAZIONE**

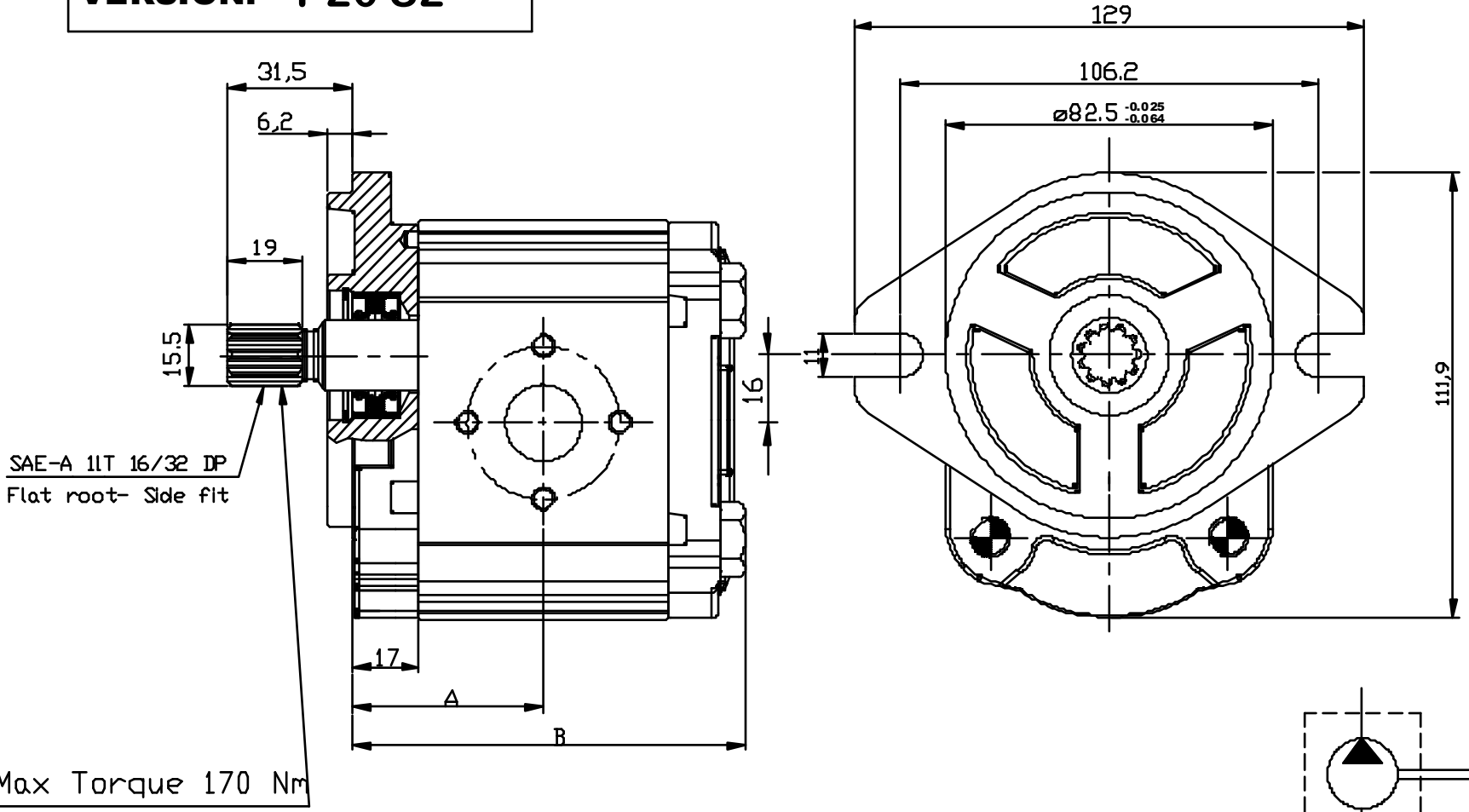
**OT200 P 08 S / P 20 S2**



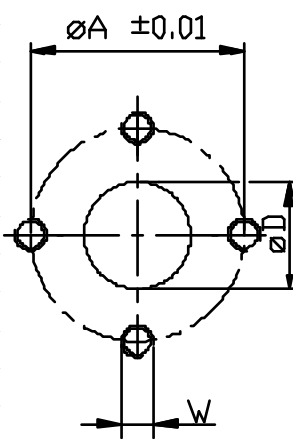


**GROUP 2 PUMPS- SAE "A" STANDARD**

**VERSION: P20 S2**



Type	Displacement  ( cc/rev )	Max working pressure P1 ( bar )	Peak pressure P3 ( bar )	Max speed  ( r.p.m)	Dimension		Inlet port			Outlet port		
					A	B						
					( mm )		ØD	ØA	W	ØD	ØA	W
OT 200 P04	04,10	250	300	4000	41,00	84,50	13	30	M6	13	30	M6
OT 200 P06	06,20	250	300	3500	42,50	87,50	13	30	M6	13	30	M6
OT 200 P08	08,20	250	300	3500	44,00	90,50	13	30	M6	13	30	M6
OT 200 P11	11,20	250	300	3500	46,15	94,80	13	30	M6	13	30	M6
OT 200 P14	14,00	240	300	3000	48,15	98,80	20	40	M8	13	30	M6
OT 200 P16	16,00	240	300	3000	49,60	101,7	20	40	M8	13	30	M6
OT 200 P20	20,00	200	240	3000	52,50	107,5	20	40	M8	13	30	M6
OT 200 P22	22,50	170	210	2500	58,35	119,2	20	40	M8	13	30	M6
OT 200 P25	25,10	170	210	2500	60,25	123,0	20	40	M8	13	30	M6
OT 200 P28	28,00	140	180	2500	62,35	127,2	20	40	M8	13	30	M6
OT 200 P30	30,00	130	170	2000	63,75	130,0	20	40	M8	13	30	M6



**EXAMPLE OF ORDERING CODE**

**OT200 P 08 S / P 20 S2**

Series

Pump

Displacement ( see above table )

Rotation	
S	Anti-clockwise
D	Clockwise

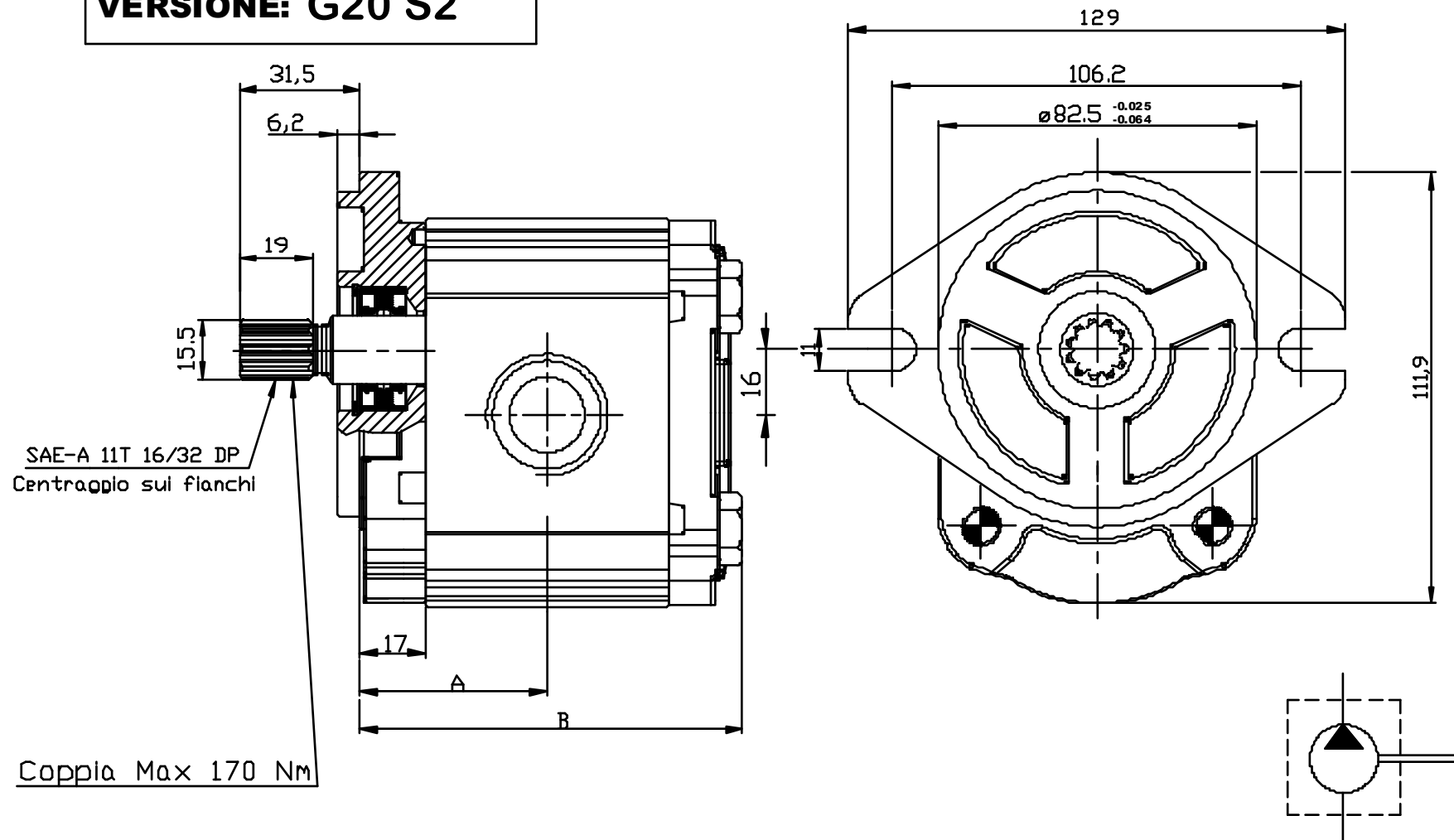
SAE- A flange

SAE A -11T 16/32 DP shaft

Body for European flanges

## POMPE GRUPPO 2- UNIFICAZIONE SAE " A"

**VERSIONE: G20 S2**



Tipo	Cilindrata ( cc/ giro )	Pressione massima continua P1 ( bar )	Pressione di punta P3 ( bar )	Velocita' massima ( giri/min. )	Dimensione		Bocca di aspirazione		Bocca di mandata	
					A	B	e	d	e	d
					( mm )					
<b>OT 200 P04</b>	04,10	250	300	4000	41,00	84,50	G1/2	14	G1/2	14
<b>OT 200 P06</b>	06,20	250	300	3500	42,50	87,50	G1/2	14	G1/2	14
<b>OT 200 P08</b>	08,20	250	300	3500	44,00	90,50	G1/2	14	G1/2	14
<b>OT 200 P11</b>	11,20	250	300	3500	46,15	94,80	G1/2	14	G1/2	14
<b>OT 200 P14</b>	14,00	240	300	3000	48,15	98,80	G3/4	16	G1/2	14
<b>OT 200 P16</b>	16,00	240	300	3000	49,60	101,7	G3/4	16	G1/2	14
<b>OT 200 P20</b>	20,00	200	240	3000	52,50	107,5	G3/4	16	G1/2	14
<b>OT 200 P22</b>	22,50	170	210	2500	58,35	119,2	G3/4	16	G1/2	14
<b>OT 200 P25</b>	25,10	170	210	2500	60,25	123,0	G3/4	16	G1/2	14
<b>OT 200 P28</b>	28,00	140	180	2500	62,35	127,2	G3/4	16	G1/2	14
<b>OT 200 P30</b>	30,00	130	170	2000	63,75	130,0	G3/4	16	G1/2	14

## ESEMPIO DI CODICE D'ORDINAZIONE

**OT200 P 08 S / G 20 S2**

Serie

Pompa

Cilindrata ( vedere tabella )

Rotazione  
S Sinistra  
D Destra

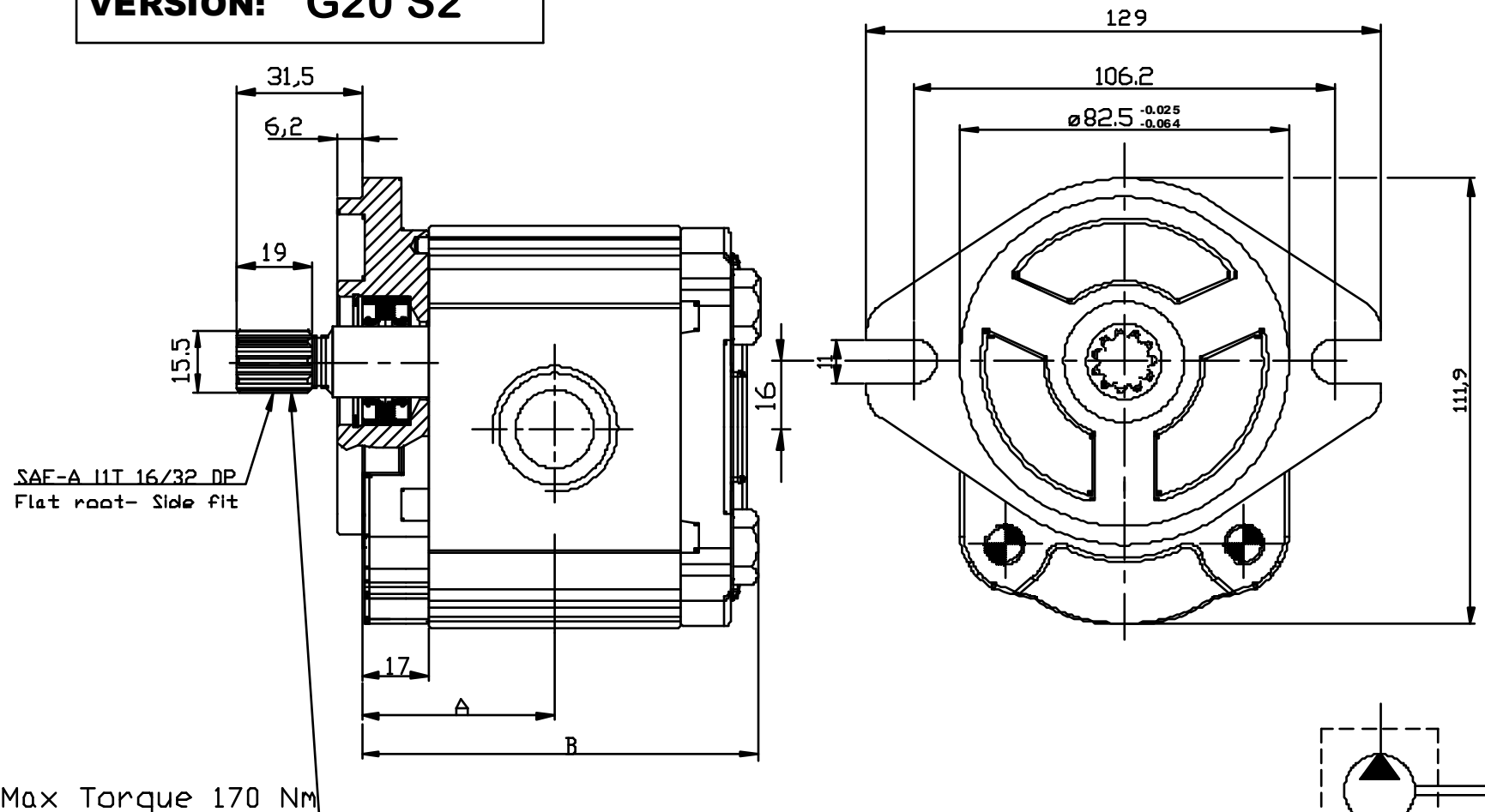
Flangia SAE A

Albero SAE-A 11T 16/32 DP

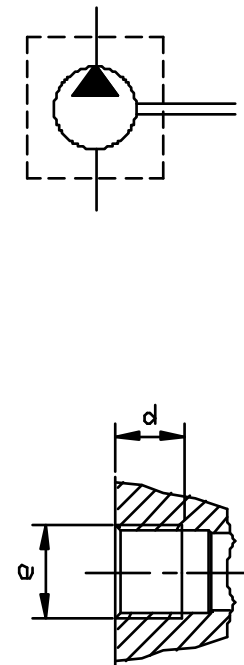
Corpo con bocche filettate (GAS)

## GROUP 2 PUMPS- SAE "A" STANDARD

**VERSION: G20 S2**



Type	Displacement  ( cc/rev )	Max working pressure P1 ( bar )	Peak pressure P3 ( bar )	Max speed  ( r.p.m)	Dimension		Inlet port		Outlet port	
					A	B	e	d	e	d
					( mm )					
OT 200 P04	04,10	250	300	4000	41,00	84,50	G1/2	14	G1/2	14
OT 200 P06	06,20	250	300	3500	42,50	87,50	G1/2	14	G1/2	14
OT 200 P08	08,20	250	300	3500	44,00	90,50	G1/2	14	G1/2	14
OT 200 P11	11,20	250	300	3500	46,15	94,80	G1/2	14	G1/2	14
OT 200 P14	14,00	240	300	3000	48,15	98,80	G3/4	16	G1/2	14
OT 200 P16	16,00	240	300	3000	49,60	101,7	G3/4	16	G1/2	14
OT 200 P20	20,00	200	240	3000	52,50	107,5	G3/4	16	G1/2	14
OT 200 P22	22,50	170	210	2500	58,35	119,2	G3/4	16	G1/2	14
OT 200 P25	25,10	170	210	2500	60,25	123,0	G3/4	16	G1/2	14
OT 200 P28	28,00	140	180	2500	62,35	127,2	G3/4	16	G1/2	14
OT 200 P30	30,00	130	170	2000	63,75	130,0	G3/4	16	G1/2	14



### EXAMPLE OF ORDERING CODE

**OT200 P 08 S / G 20 S2**

Series

Pump

Displacement ( see above table )

Rotation

S Anti-clockwise  
D Clockwise

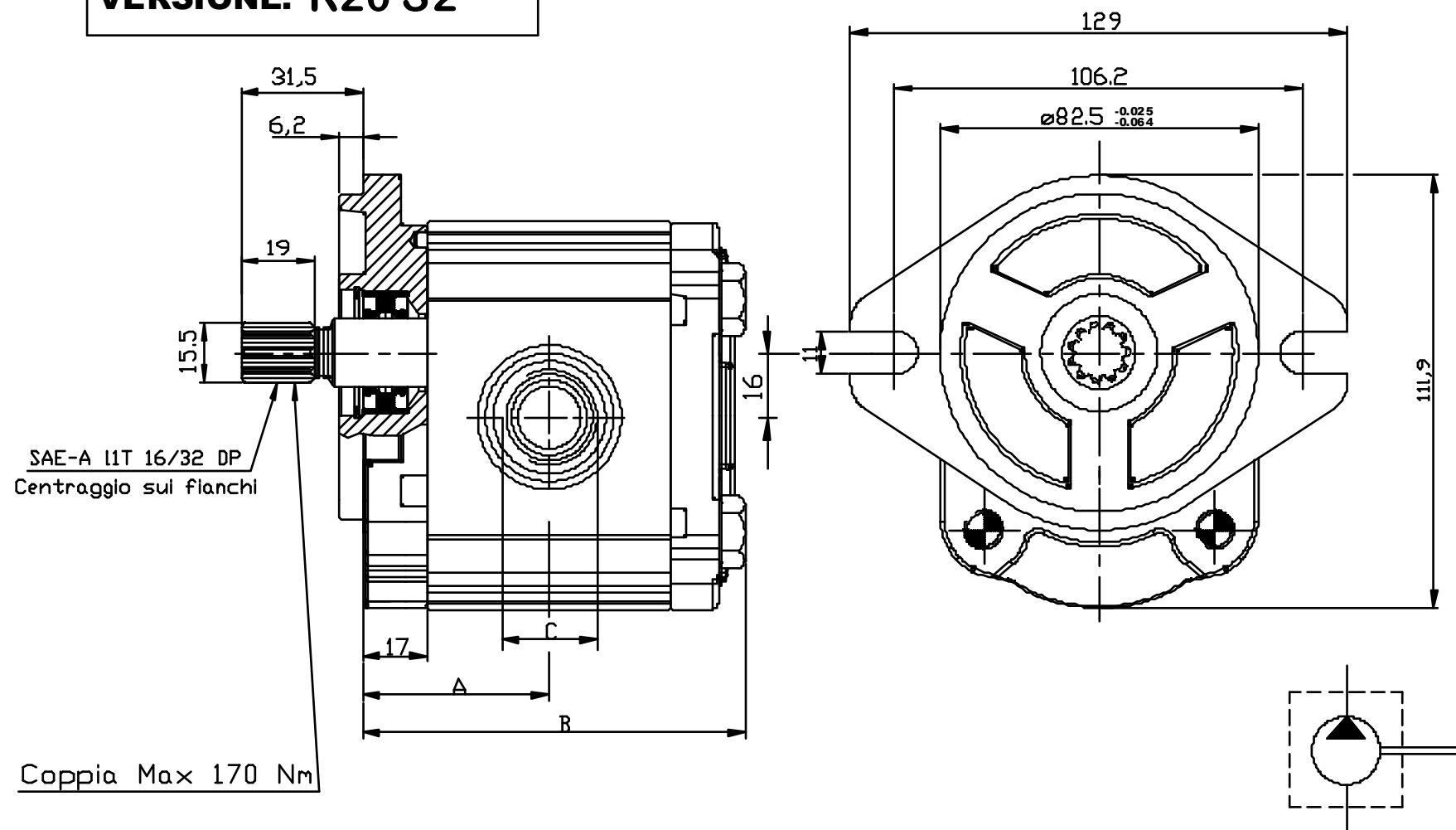
SAE- A flange

SAE A -11T 16/32 DP shaft

Body with threaded ports (BSP)

## POMPE GRUPPO 2- UNIFICAZIONE SAE " A"

**VERSIONE: R20 S2**



Tipo	Cilindrata  ( cc/giro )	Pressione massima continua P1 ( bar )	Pressione di punta P3 ( bar )	Velocita' massima ( giri/min. )	Dimensione		Bocca di aspirazione  C	Bocca di mandata  C
					A	B		
					( mm )			
OT 200 P04	04,10	250	300	4000	41,00	84,50	7/8-14UNF-2B	7/8-14UNF-2B
OT 200 P06	06,20	250	300	3500	42,50	87,50		
OT 200 P08	08,20	250	300	3500	44,00	90,50		
OT 200 P11	11,20	250	300	3500	46,15	94,80		
OT 200 P14	14,00	240	300	3000	48,15	98,80	1-1/16-12UN-2B	
OT 200 P16	16,00	240	300	3000	49,60	101,7		
OT 200 P20	20,00	200	240	3000	52,50	107,5		
OT 200 P22	22,50	170	210	2500	58,35	119,2		
OT 200 P25	25,10	170	210	2500	60,25	123,0		
OT 200 P28	28,00	140	180	2500	62,35	127,2		
OT 200 P30	30,00	130	170	2000	63,75	130,0		

## ESEMPIO DI CODICE D'ORDINAZIONE

**OT200 P 08 S / R 20 S2**

Serie

Pompa

Cilindrata ( vedere tabella )

Rotazione	
S	Sinistra
D	Destra

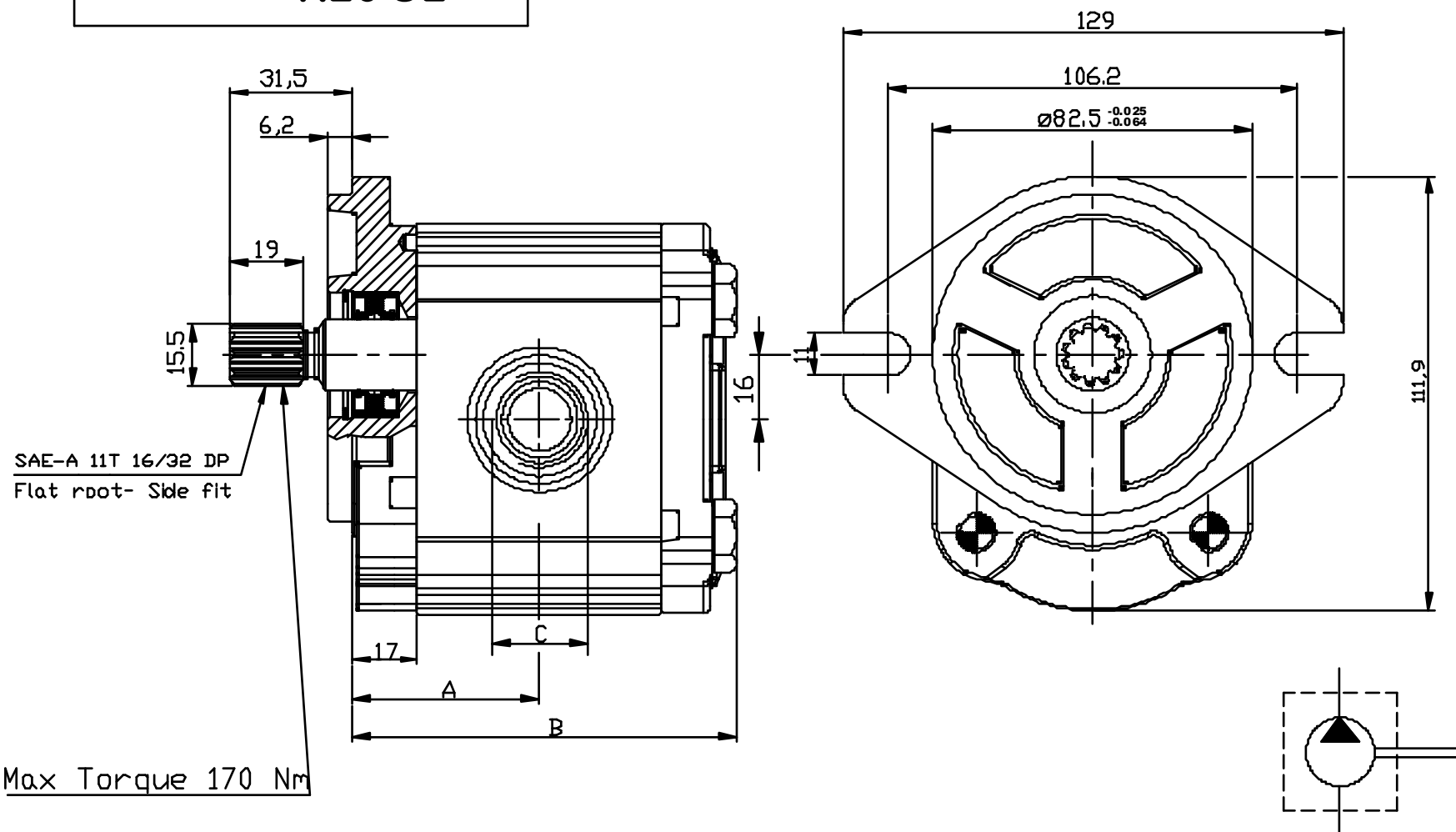
Flangia SAE A

Albero SAE-A 11T 16/32 DP

Corpo con bocche O-Ring Boss

## GROUP 2 PUMPS- SAE "A" STANDARD

**VERSION: R20 S2**



Type	Displacement  ( cc/rev )	Max working pressure P1 ( bar )	Peak pressure P3 ( bar )	Max speed  ( r.p.m)	Dimension A   B		Inlet port  C	Outlet port  C
					( mm )			
OT 200 P04	04,10	250	300	4000	41,00	84,50	7/8-14UNF-2B	7/8-14UNF-2B
OT 200 P06	06,20	250	300	3500	42,50	87,50		
OT 200 P08	08,20	250	300	3500	44,00	90,50		
OT 200 P11	11,20	250	300	3500	46,15	94,80		
OT 200 P14	14,00	240	300	3000	48,15	98,80	1-1/16-12UN-2B	
OT 200 P16	16,00	240	300	3000	49,60	101,7		
OT 200 P20	20,00	200	240	3000	52,50	107,5		
OT 200 P22	22,50	170	210	2500	58,35	119,2		
OT 200 P25	25,10	170	210	2500	60,25	123,0		
OT 200 P28	28,00	140	180	2500	62,35	127,2		
OT 200 P30	30,00	130	170	2000	63,75	130,0		

### EXAMPLE OF ORDERING CODE

**OT200 P 08 S / R 20 S2**

Series

Pump

Displacement ( see above table )

Rotation

S Anti-clockwise  
D Clockwise

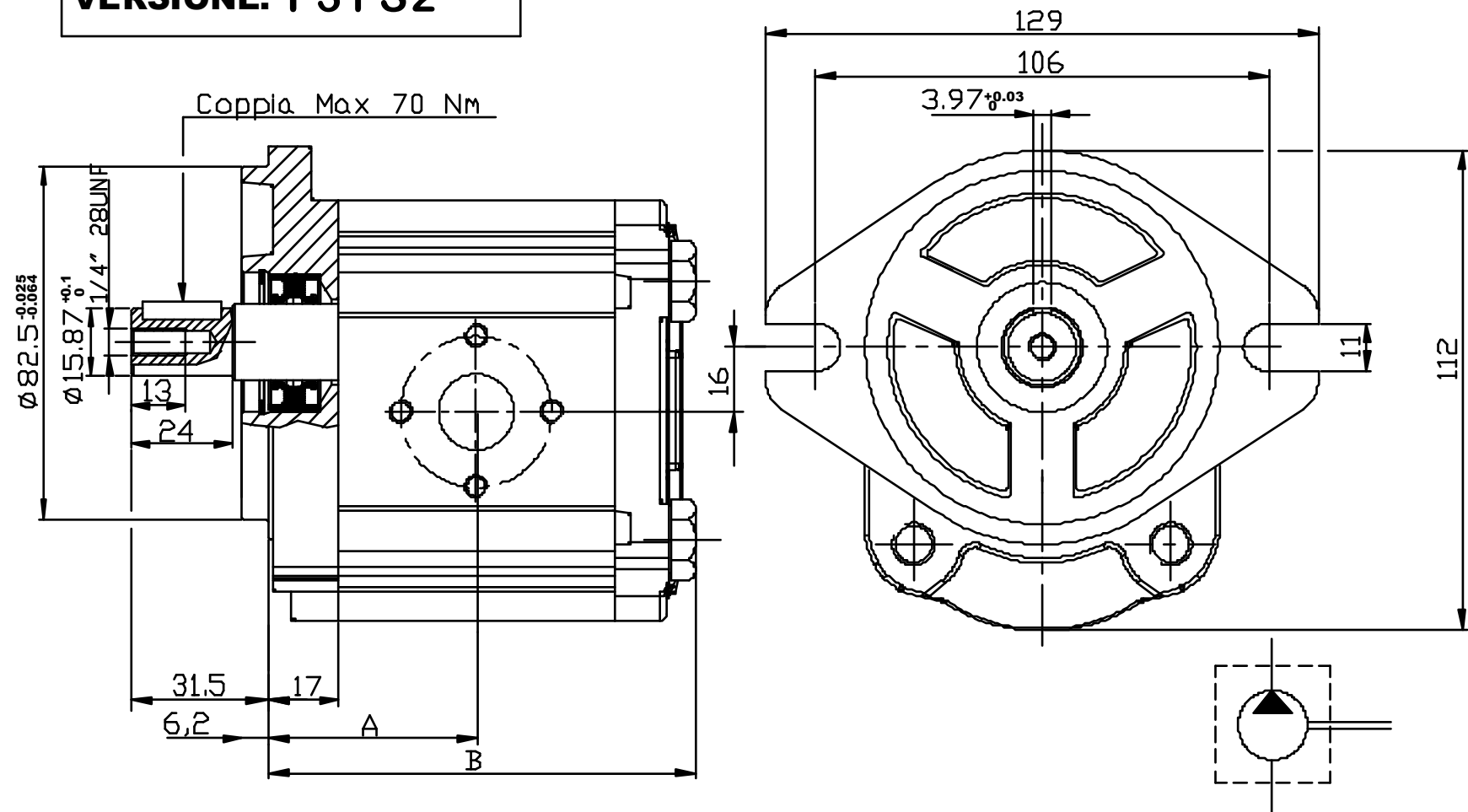
SAE- A flange

SAE A-11T 16/32 DP shaft

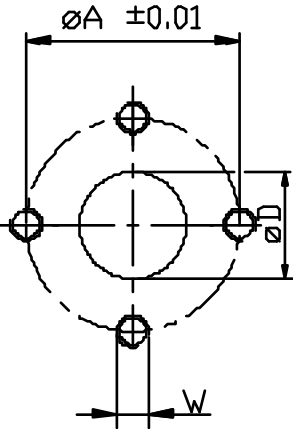
Body with O-Ring Boss ports

POMPE GRUPPO 2- UNIFICAZIONE SAE " A"

VERSIONE: P31 S2

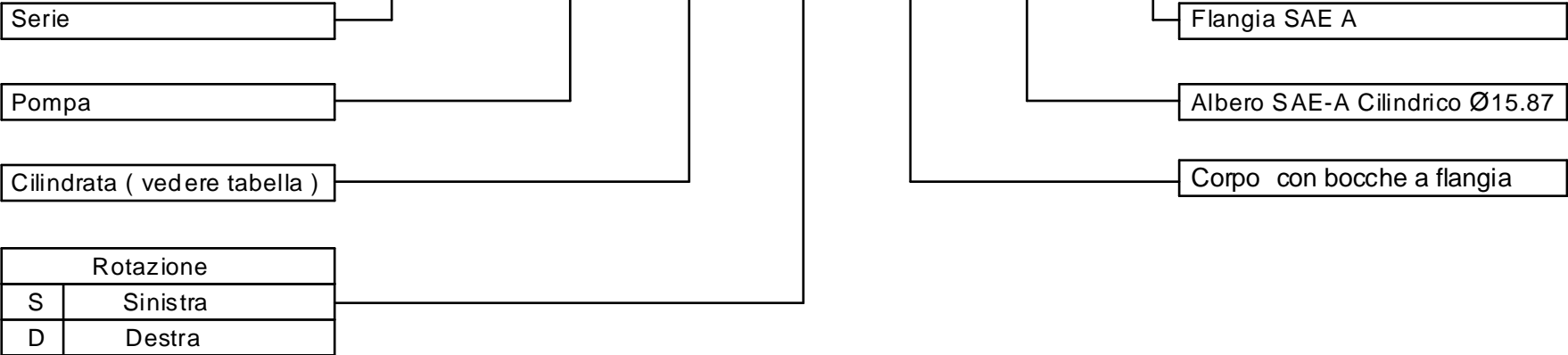


Tipo	Cilindrata	Pressione massima continua P1 ( bar )	Pressione di punta P3 ( bar )	Velocita' massima ( giri/min. )	Dimensione		Bocca di aspirazione			Bocca di mandata		
	( cc/giro )				A	B	ØD	ØA	W	ØD	ØA	W
					( mm )							
OT 200 P04	04,10	250	300	4000	41,00	84,50	13	30	M6	13	30	M6
OT 200 P06	06,20	250	300	3500	42,50	87,50	13	30	M6	13	30	M6
OT 200 P08	08,20	250	300	3500	44,00	90,50	13	30	M6	13	30	M6
OT 200 P11	11,20	250	300	3500	46,15	94,80	13	30	M6	13	30	M6
OT 200 P14	14,00	240	300	3000	48,15	98,80	20	40	M8	13	30	M6
OT 200 P16	16,00	240	300	3000	49,60	101,7	20	40	M8	13	30	M6
OT 200 P20	20,00	200	240	3000	52,50	107,5	20	40	M8	13	30	M6
OT 200 P22	22,50	170	210	2500	58,35	119,2	20	40	M8	13	30	M6
OT 200 P25	25,10	170	210	2500	60,25	123,0	20	40	M8	13	30	M6
OT 200 P28	28,00	140	180	2500	62,35	127,2	20	40	M8	13	30	M6
OT 200 P30	30,00	130	170	2000	63,75	130,0	20	40	M8	13	30	M6



ESEMPIO DI CODICE D'ORDINAZIONE

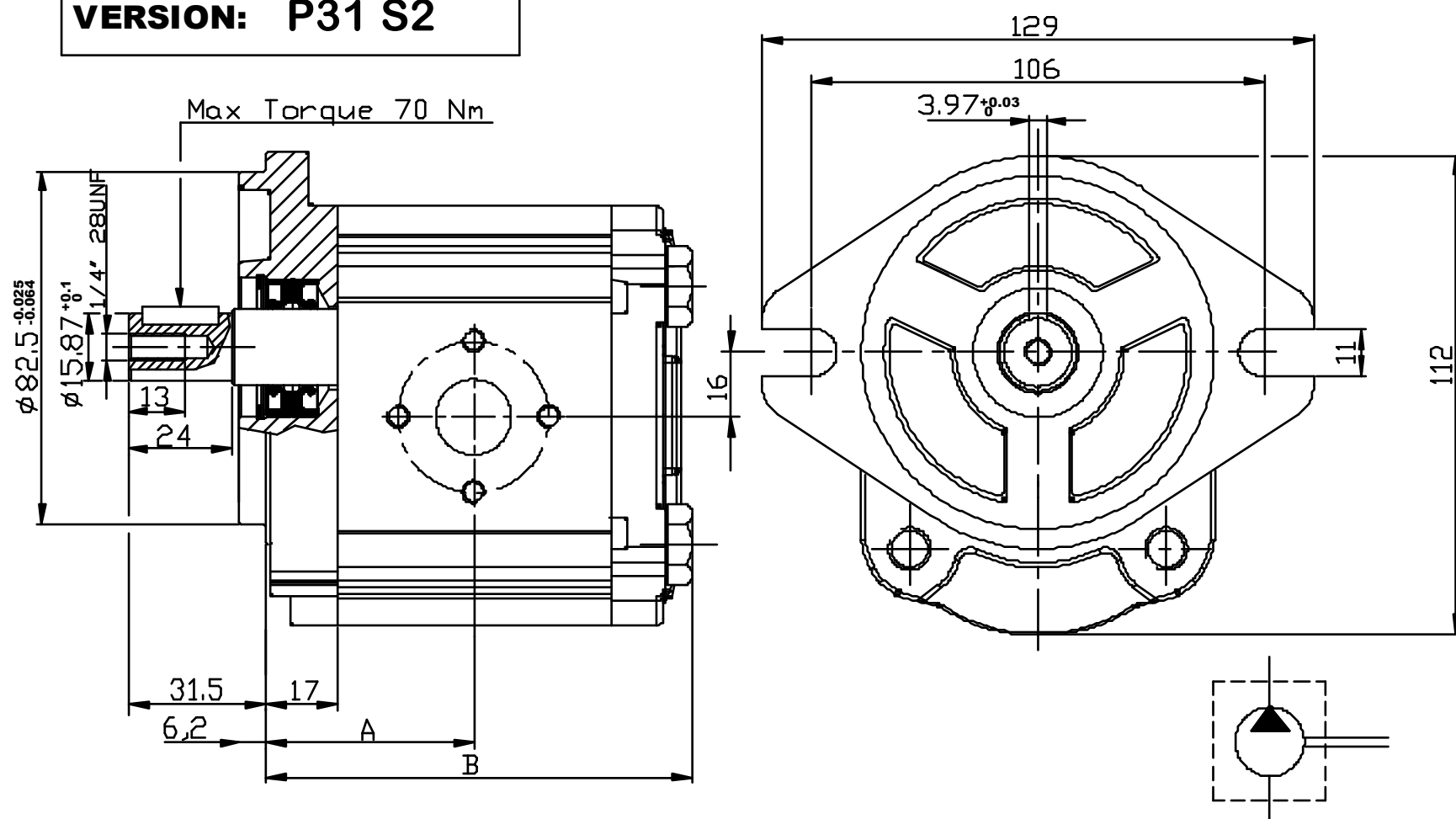
OT200 P 08 S / P 31 S2



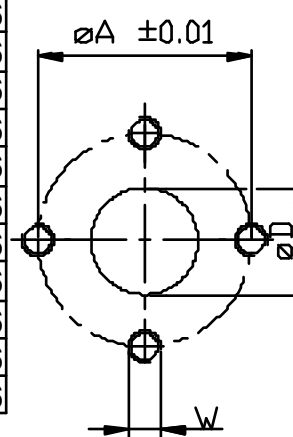


## GROUP 2 PUMPS- SAE "A" STANDARD

**VERSION: P31 S2**



Type	Displacement	Max working pressure P1	Peak pressure P3	Max speed	Dimension		Inlet port			Outlet port		
					A	B	ØD	ØA	W	ØD	ØA	W
	( cc/rev )	( bar )	( bar )	( r.p.m )	( mm )							
OT 200 P04	04,10	250	300	4000	41,00	84,50	13	30	M6	13	30	M6
OT 200 P06	06,20	250	300	3500	42,50	87,50	13	30	M6	13	30	M6
OT 200 P08	08,20	250	300	3500	44,00	90,50	13	30	M6	13	30	M6
OT 200 P11	11,20	250	300	3500	46,15	94,80	13	30	M6	13	30	M6
OT 200 P14	14,00	240	300	3000	48,15	98,80	20	40	M8	13	30	M6
OT 200 P16	16,00	240	300	3000	49,60	101,7	20	40	M8	13	30	M6
OT 200 P20	20,00	200	240	3000	52,50	107,5	20	40	M8	13	30	M6
OT 200 P22	22,50	170	210	2500	58,35	119,2	20	40	M8	13	30	M6
OT 200 P25	25,10	170	210	2500	60,25	123,0	20	40	M8	13	30	M6
OT 200 P28	28,00	140	180	2500	62,35	127,2	20	40	M8	13	30	M6
OT 200 P30	30,00	130	170	2000	63,75	130,0	20	40	M8	13	30	M6



## EXAMPLE OF ORDERING CODE

**OT200 P 08 S / P 31 S2**

Series

Pump

Displacement ( see above table )

Rotation

S Anti-clockwise  
D Clockwise

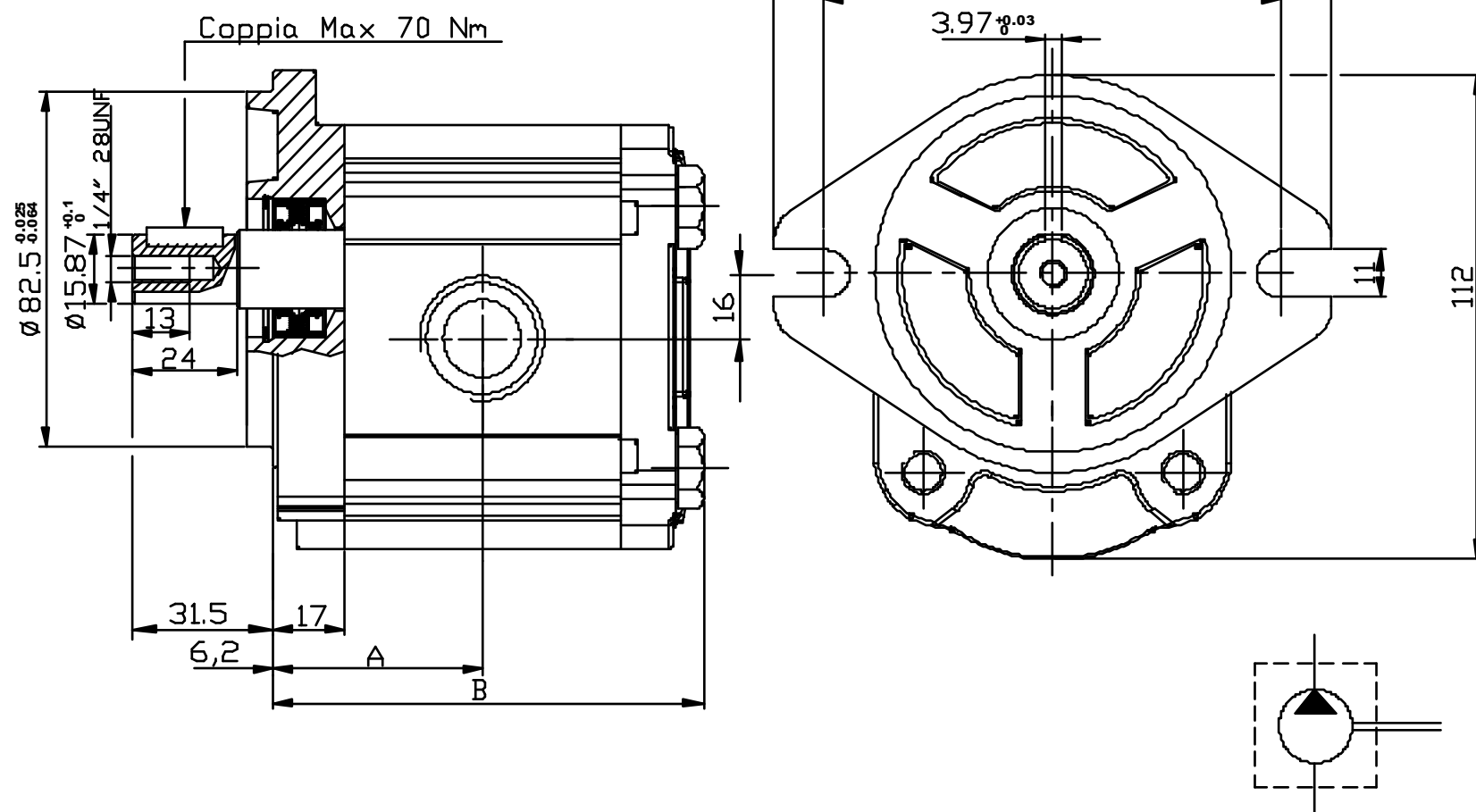
SAE- A flange

Straight shaft Ø15.87

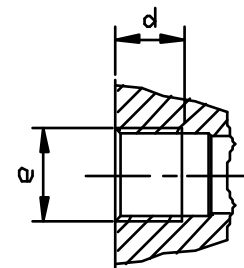
Body for European flanges

## POMPE GRUPPO 2- UNIFICAZIONE SAE " A"

**VERSIONE: G31 S2**



Tipo	Cilindrata  ( cc/giro )	Pressione massima continua P1 ( bar )	Pressione di punta P3 ( bar )	Velocita' massima ( giri/min. )	Dimensione		Bocca di aspirazione		Bocca di mandata	
					A	B	e	d	e	d
					( mm )					
OT 200 P04	04,10	250	300	4000	41,00	84,50	G1/2	14	G1/2	14
OT 200 P06	06,20	250	300	3500	42,50	87,50	G1/2	14	G1/2	14
OT 200 P08	08,20	250	300	3500	44,00	90,50	G1/2	14	G1/2	14
OT 200 P11	11,20	250	300	3500	46,15	94,80	G1/2	14	G1/2	14
OT 200 P14	14,00	240	300	3000	48,15	98,80	G3/4	16	G1/2	14
OT 200 P16	16,00	240	300	3000	49,60	101,7	G3/4	16	G1/2	14
OT 200 P20	20,00	200	240	3000	52,50	107,5	G3/4	16	G1/2	14
OT 200 P22	22,50	170	210	2500	58,35	119,2	G3/4	16	G1/2	14
OT 200 P25	25,10	170	210	2500	60,25	123,0	G3/4	16	G1/2	14
OT 200 P28	28,00	140	180	2500	62,35	127,2	G3/4	16	G1/2	14
OT 200 P30	30,00	130	170	2000	63,75	130,0	G3/4	16	G1/2	14



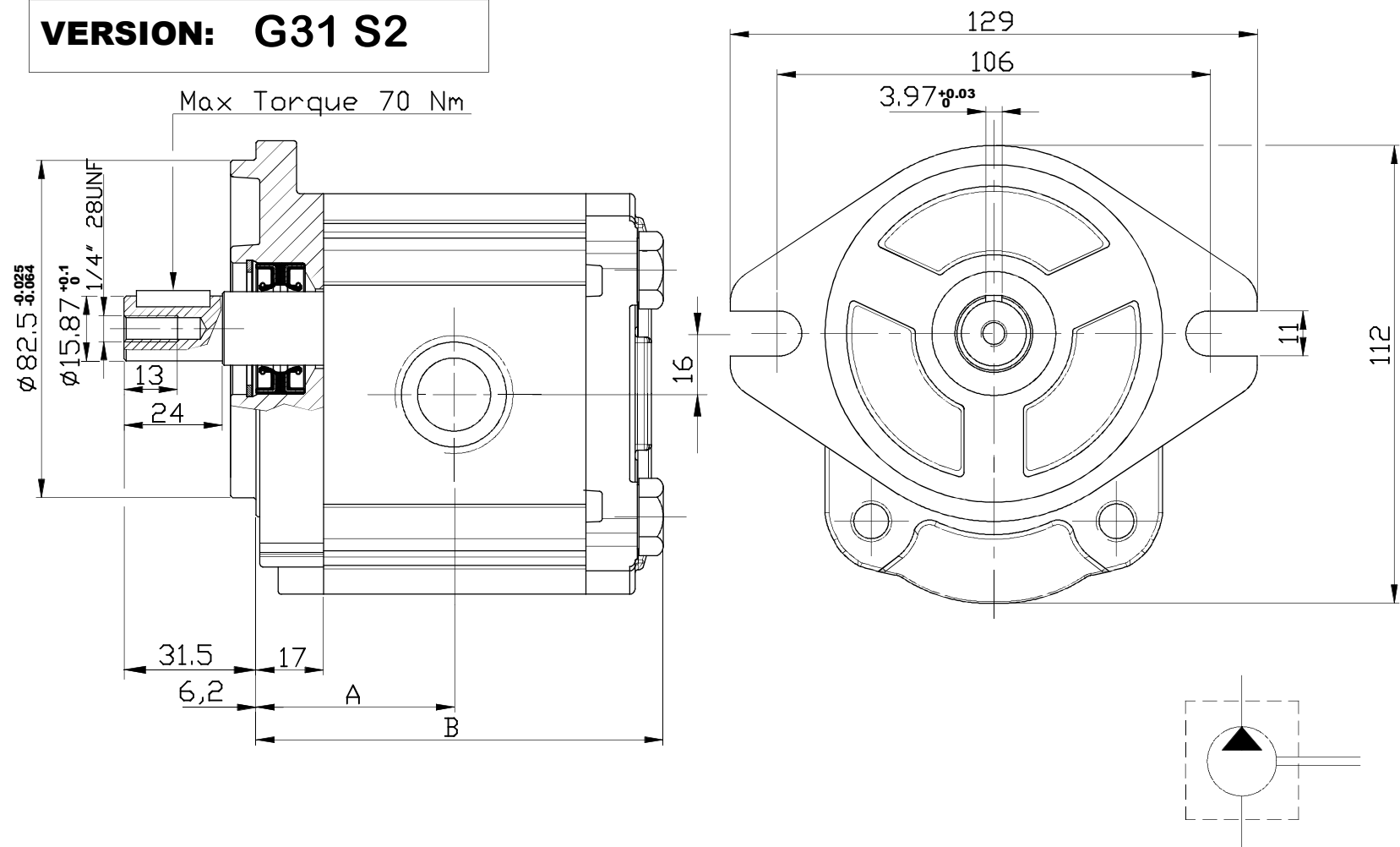
## ESEMPIO DI CODICE D'ORDINAZIONE

**OT200 P 08 S / G 31 S2**

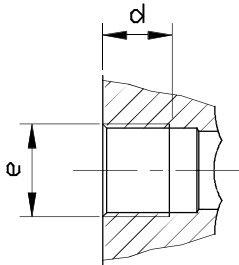
Serie	OT200	P	08	S	/	G	31	S2	Flangia SAE A
Pompa									Albero SAE-A Cilindrico Ø15.87
Cilindrata ( vedere tabella )									Corpo con bocche filettate ( GAS )
Rotazione									
S	Sinistra								
D	Destra								

**GROUP 2 PUMPS- SAE "A" STANDARD**

**VERSION: G31 S2**



Type	Displacement  ( cc/rev )	Max working pressure P1 ( bar )	Peak pressure P3 ( bar )	Max speed  ( r.p.m)	Dimension		Inlet port		Outlet port	
					A	B	e	d	e	d
					( mm )					
OT 200 P04	04,10	250	300	4000	41,00	84,50	G1/2	14	G1/2	14
OT 200 P06	06,20	250	300	3500	42,50	87,50	G1/2	14	G1/2	14
OT 200 P08	08,20	250	300	3500	44,00	90,50	G1/2	14	G1/2	14
OT 200 P11	11,20	250	300	3500	46,15	94,80	G1/2	14	G1/2	14
OT 200 P14	14,00	240	300	3000	48,15	98,80	G3/4	16	G1/2	14
OT 200 P16	16,00	240	300	3000	49,60	101,7	G3/4	16	G1/2	14
OT 200 P20	20,00	200	240	3000	52,50	107,5	G3/4	16	G1/2	14
OT 200 P22	22,50	170	210	2500	58,35	119,2	G3/4	16	G1/2	14
OT 200 P25	25,10	170	210	2500	60,25	123,0	G3/4	16	G1/2	14
OT 200 P28	28,00	140	180	2500	62,35	127,2	G3/4	16	G1/2	14
OT 200 P30	30,00	130	170	2000	63,75	130,0	G3/4	16	G1/2	14



**EXAMPLE OF ORDERING CODE**

**OT200    P    08    S / G    31    S2**

Series

Pump

Displacement ( see above table )

Rotation

S

Anti-clockwise

D

Clockwise

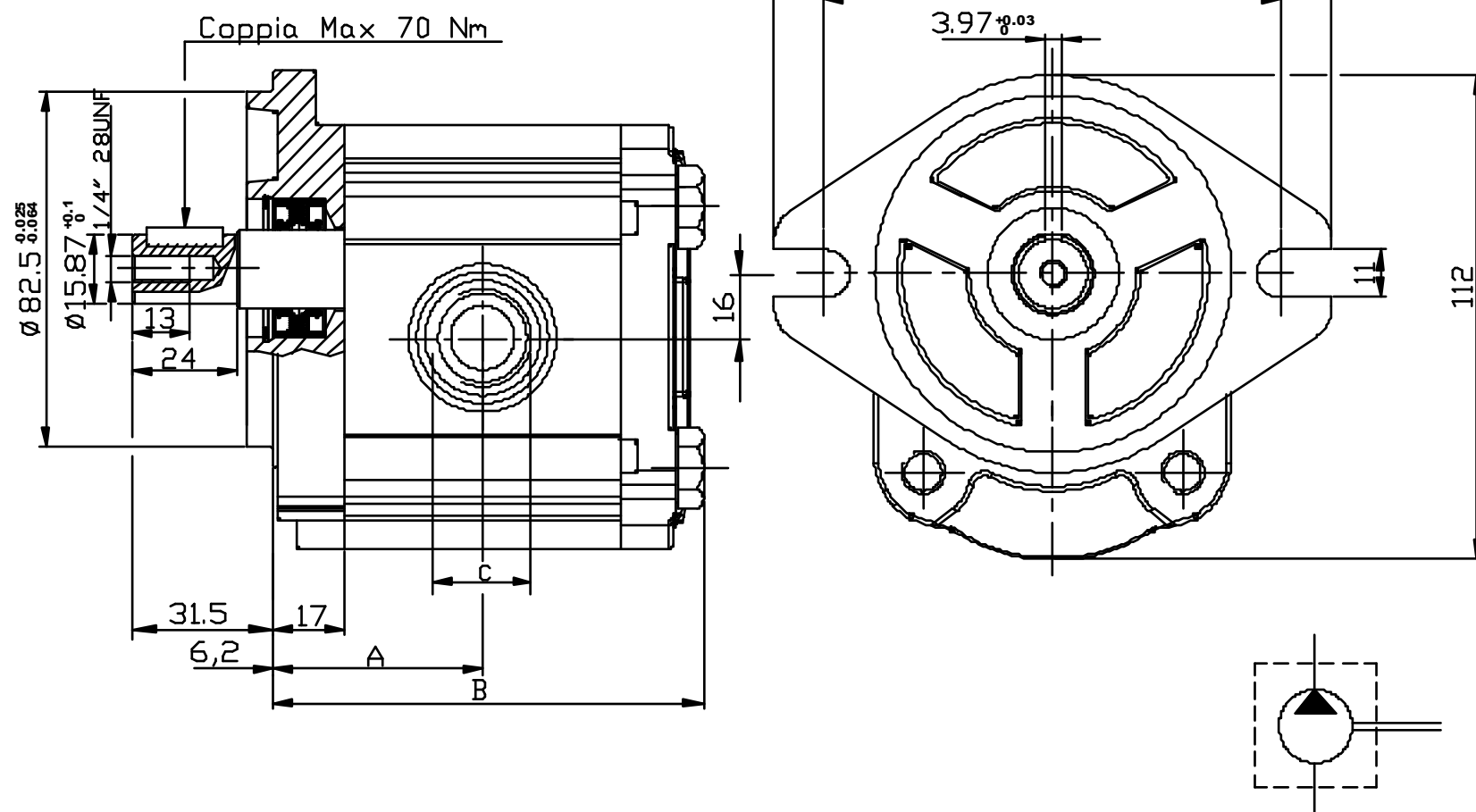
SAE- A flange

Straight shaft Ø15.87

Body with threaded ports ( BSP )

## POMPE GRUPPO 2- UNIFICAZIONE SAE " A"

**VERSIONE: R31 S2**



Tipo	Cilindrata  ( cc/giro )	Pressione massima continua P1 ( bar )	Pressione di punta P3 ( bar )	Velocita' massima ( giri/min. )	Dimensione		Bocca di aspirazione  C	Bocca di mandata  C
					A	B		
					( mm )			
<b>OT 200 P04</b>	04,10	250	300	4000	41,00	84,50	7/8-14UNF-2B	7/8-14UNF-2B
<b>OT 200 P06</b>	06,20	250	300	3500	42,50	87,50		
<b>OT 200 P08</b>	08,20	250	300	3500	44,00	90,50		
<b>OT 200 P11</b>	11,20	250	300	3500	46,15	94,80		
<b>OT 200 P14</b>	14,00	240	300	3000	48,15	98,80	1-1/16-12UN-2B	
<b>OT 200 P16</b>	16,00	240	300	3000	49,60	101,7		
<b>OT 200 P20</b>	20,00	200	240	3000	52,50	107,5		
<b>OT 200 P22</b>	22,50	170	210	2500	58,35	119,2		
<b>OT 200 P25</b>	25,10	170	210	2500	60,25	123,0		
<b>OT 200 P28</b>	28,00	140	180	2500	62,35	127,2		
<b>OT 200 P30</b>	30,00	130	170	2000	63,75	130,0		

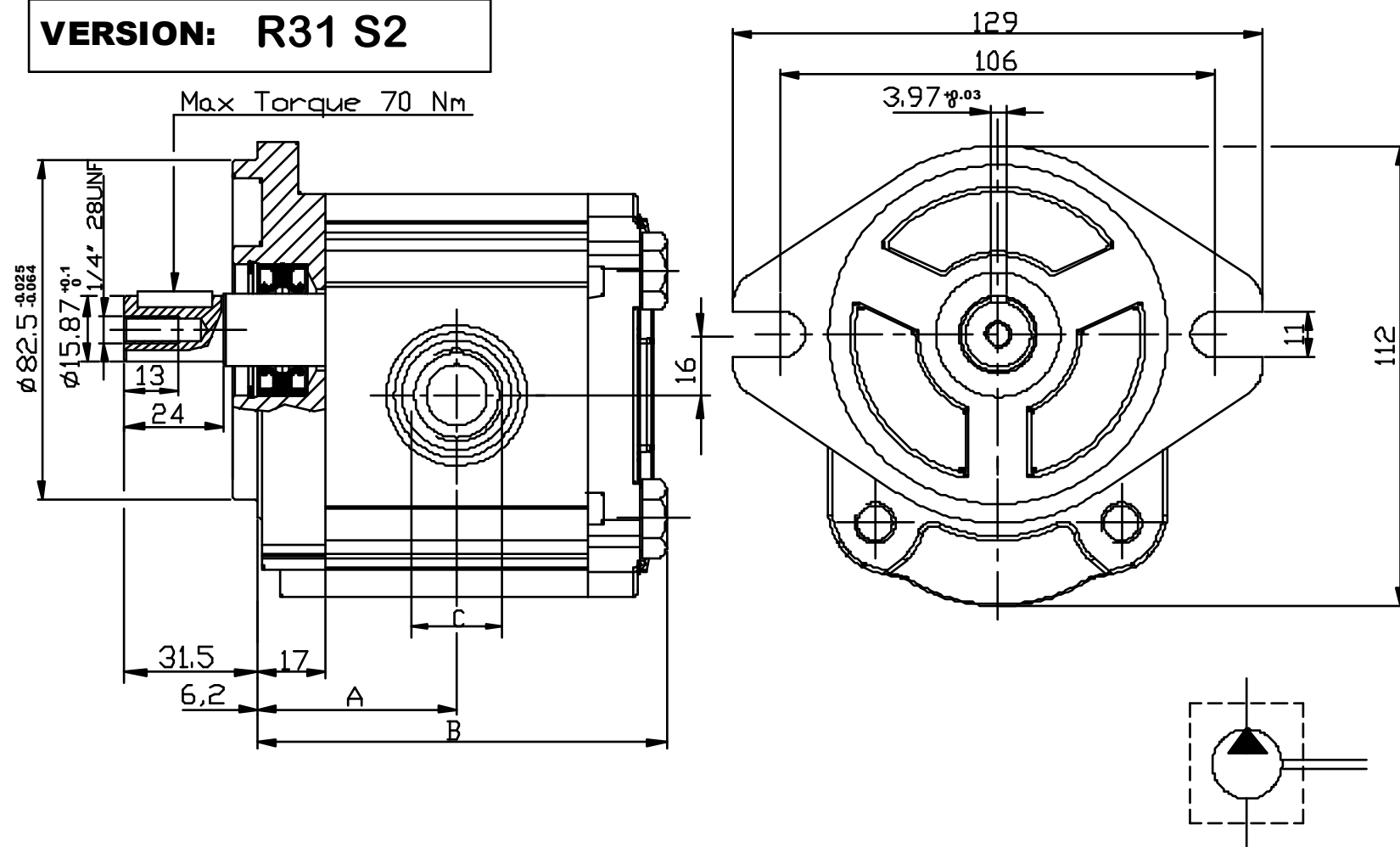
## ESEMPIO DI CODICE D'ORDINAZIONE

**OT200 P 08 S / R 31 S2**

Serie	OT200	P	08	S	/ R	31	S2	Flangia SAE A
Pompa								Albero SAE-A Cilindrico Ø15.87
Cilindrata ( vedere tabella )								Corpo con bocche O-ring boss
Rotazione								
S	Sinistra							
D	Destra							

## GROUP 2 PUMPS- SAE "A" STANDARD

**VERSION: R31 S2**



Type	Displacement  ( cc/rev )	Max working pressure P1 ( bar )	Peak pressure P3 ( bar )	Max speed  ( r.p.m)	Dimension		Inlet port	Outlet port
					A	B		
					( mm )		C	C
<b>OT 200 P04</b>	04,10	250	300	4000	41,00	84,50	7/8-14UNF-2B	7/8-14UNF-2B
<b>OT 200 P06</b>	06,20	250	300	3500	42,50	87,50		
<b>OT 200 P08</b>	08,20	250	300	3500	44,00	90,50		
<b>OT 200 P11</b>	11,20	250	300	3500	46,15	94,80		
<b>OT 200 P14</b>	14,00	240	300	3000	48,15	98,80	1-1/16-12UN-2B	
<b>OT 200 P16</b>	16,00	240	300	3000	49,60	101,7		
<b>OT 200 P20</b>	20,00	200	240	3000	52,50	107,5		
<b>OT 200 P22</b>	22,50	170	210	2500	58,35	119,2		
<b>OT 200 P25</b>	25,10	170	210	2500	60,25	123,0		
<b>OT 200 P28</b>	28,00	140	180	2500	62,35	127,2		
<b>OT 200 P30</b>	30,00	130	170	2000	63,75	130,0		

### EXAMPLE OF ORDERING CODE

**OT200 P 08 S / R 31 S2**

Series

Pump

Displacement ( see above table )

Rotation

S Anti-clockwise  
D Clockwise

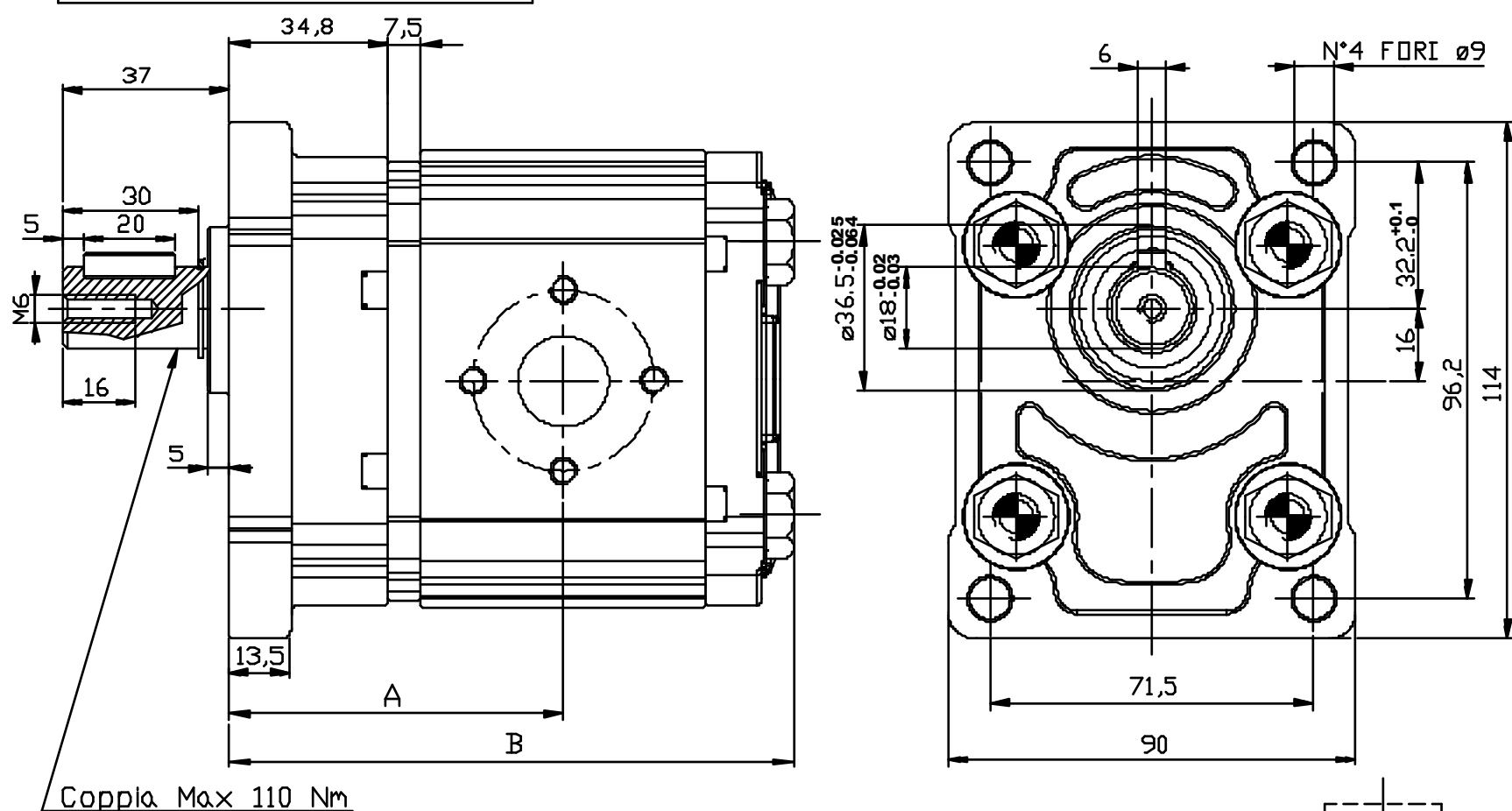
SAE- A flange

Straight shaft Ø15.87

Body with O-ring boss ports

## POMPE GRUPPO 2- CON SUPPORTO

**VERSIONE: P T 22 P2**



Tipo	Cilindrata ( cc/giro )	Pressione massima continua P1 ( bar )	Pressione di punta P3 ( bar )	Velocita' massima ( giri/min. )	Dimensione		Bocca di aspirazione			Bocca di mandata		
					A	B						
					( mm )		ØD	ØA	W	ØD	ØA	W
OT 200 P04	04,10	230	300	4000	66.30	109.80	13	30	M6	13	30	M6
OT 200 P06	06,20	250	300	3500	67.80	112.80	13	30	M6	13	30	M6
OT 200 P08	08,20	250	300	3500	69.30	115.80	13	30	M6	13	30	M6
OT 200 P11	11,20	250	300	3500	71.45	120.10	13	30	M6	13	30	M6
OT 200 P14	14,00	250	300	3000	73.45	124.10	20	40	M8	13	30	M6
OT 200 P16	16,00	250	300	3000	74.90	127.00	20	40	M8	13	30	M6
OT 200 P20	20,00	210	240	3000	77.80	132.80	20	40	M8	13	30	M6
OT 200 P22	22,50	180	210	2500	82.65	144.50	20	40	M8	13	30	M6
OT 200 P25	25,10	170	210	2500	85.55	148.30	20	40	M8	13	30	M6
OT 200 P28	28,00	140	180	2500	87.65	152.50	20	40	M8	13	30	M6
OT 200 P30	30,00	130	170	2000	89.05	155.30	20	40	M8	13	30	M6

## ESEMPIO DI CODICE D'ORDINAZIONE

**OT200 P 08 S / P / T 22 P2**

Serie

Pompa

Cilindrata ( vedere tabella )

Rotazione

S Sinistra

D Destra

Flangia standard Europeo

Albero parallelo Ø18

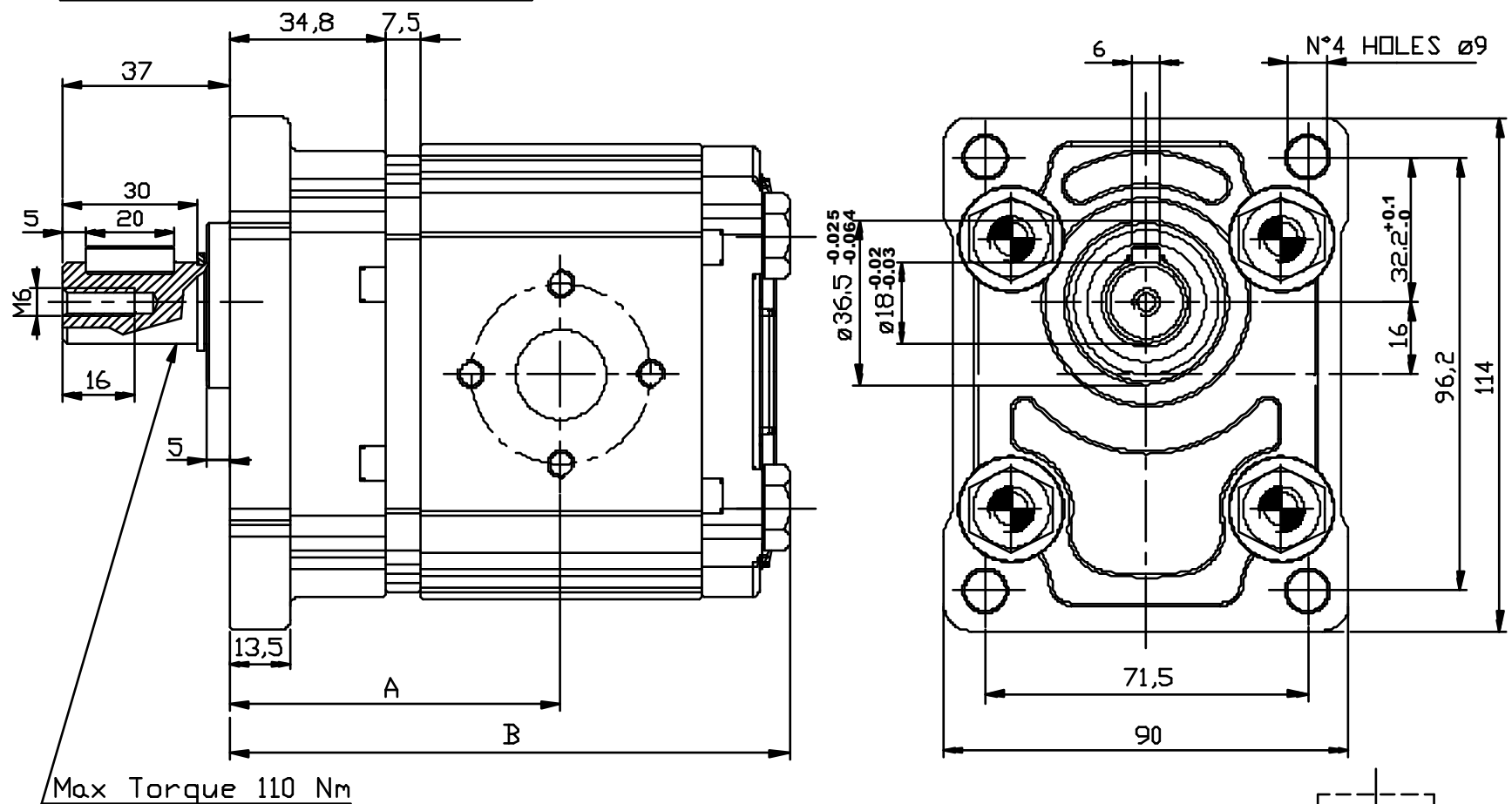
Supporto con cuscinetto

Corpo con bocche a flangia



## GROUP 2 PUMPS- WITH FRONT BEARING

**VERSION: P T 22 P2**



Type	Displacement (cc/rev)	Max working pressure P1 (bar)	Peak pressure P3 (bar)	Max speed (r.p.m)	Dimension		Inlet port			Outlet port		
					A	B	ØD	ØA	W	ØD	ØA	W
OT 200 P04	04,10	250	300	4000	66.30	109.80	13	30	M6	13	30	M6
OT 200 P06	06,20	250	300	3500	67.80	112.80	13	30	M6	13	30	M6
OT 200 P08	08,20	250	300	3500	69.30	115.80	13	30	M6	13	30	M6
OT 200 P11	11,20	250	300	3500	71.45	120.10	13	30	M6	13	30	M6
OT 200 P14	14,00	240	300	3000	73.45	124.10	20	40	M8	13	30	M6
OT 200 P16	16,00	240	300	3000	74.90	127.00	20	40	M8	13	30	M6
OT 200 P20	20,00	200	240	3000	77.80	132.80	20	40	M8	13	30	M6
OT 200 P22	22,50	170	210	2500	82.65	144.50	20	40	M8	13	30	M6
OT 200 P25	25,10	170	210	2500	85.55	148.30	20	40	M8	13	30	M6
OT 200 P28	28,00	140	180	2500	87.65	152.50	20	40	M8	13	30	M6
OT 200 P30	30,00	130	170	2000	89.05	155.30	20	40	M8	13	30	M6

## EXAMPLE OF ORDERING CODE

**OT200 P 08 S / P / T 22 P2**

Series

Pump

Displacement ( see above table )

Rotation

S Anti-clockwise  
D Clockwise

European standard flange

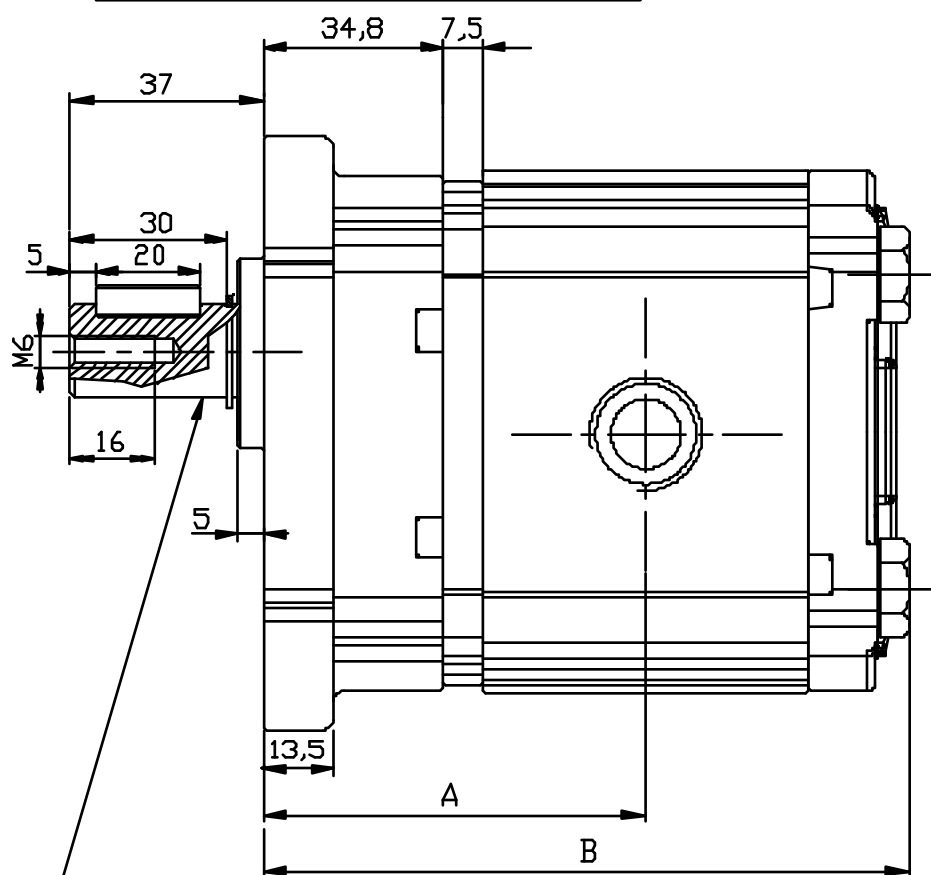
Straight shaft Ø18

Front bearing

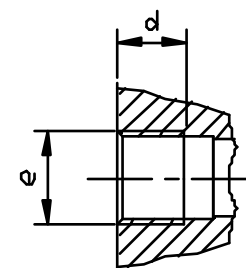
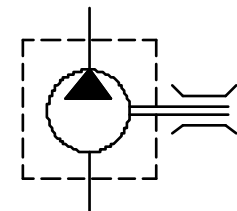
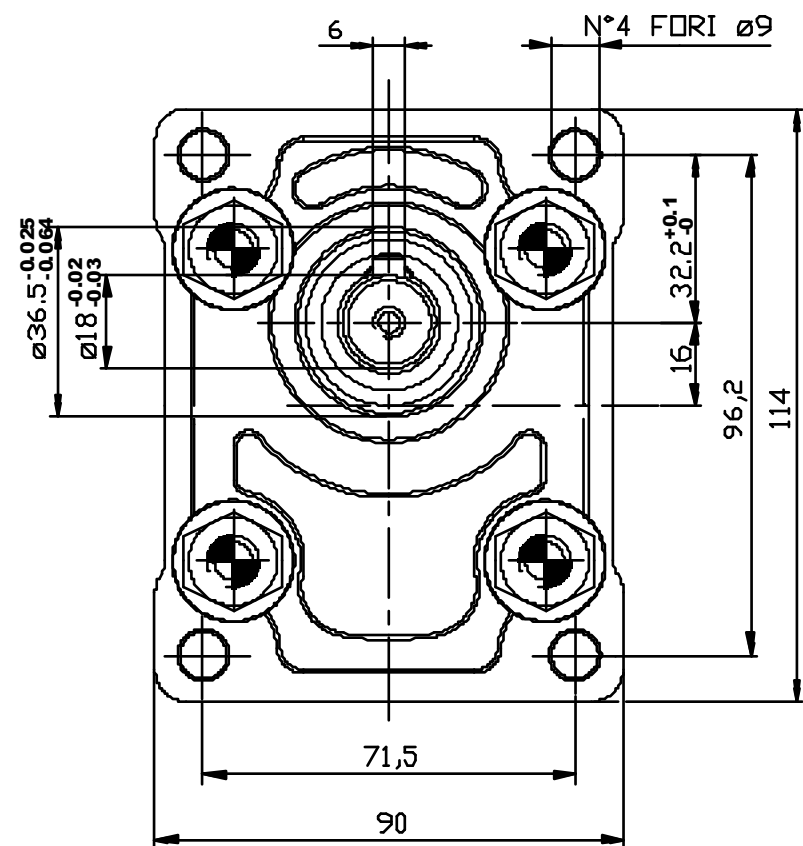
Body for European flanges

## POMPE GRUPPO 2- CON SUPPORTO

**VERSIONE: G T 22 P2**



Coppia Max 110 Nm



Tipo	Cilindrata ( cc/giro )	Pressione massima continua P1 ( bar )	Pressione di punta P3 ( bar )	Velocita' massima ( giri/min. )	Dimensione		Bocca di aspirazione		Bocca di mandata	
					A	B	e	d	e	d
OT 200 P04	04,10	250	300	4000	66.30	109.80	G1/2	14	G1/2	14
OT 200 P06	06,20	250	300	3500	67.80	112.80	G1/2	14	G1/2	14
OT 200 P08	08,20	250	300	3500	69.30	115.80	G1/2	14	G1/2	14
OT 200 P11	11,20	250	300	3500	71.45	120.10	G1/2	14	G1/2	14
OT 200 P14	14,00	240	300	3000	73.45	124.10	G3/4	16	G1/2	14
OT 200 P16	16,00	240	300	3000	74.90	127.00	G3/4	16	G1/2	14
OT 200 P20	20,00	200	240	3000	77.80	132.80	G3/4	16	G1/2	14
OT 200 P22	22,50	170	210	2500	82.65	144.50	G3/4	16	G1/2	14
OT 200 P25	25,10	170	210	2500	85.55	148.30	G3/4	16	G1/2	14
OT 200 P28	28,00	140	180	2500	87.65	152.50	G3/4	16	G1/2	14
OT 200 P30	30,00	130	170	2000	89.05	155.30	G3/4	16	G1/2	14

## ESEMPIO DI CODICE D'ORDINAZIONE

**OT200 P 08 S / G / T 22 P2**

Serie

Pompa

Cilindrata ( vedere tabella )

Rotazione

S Sinistra

D Destra

Flangia standard Europeo

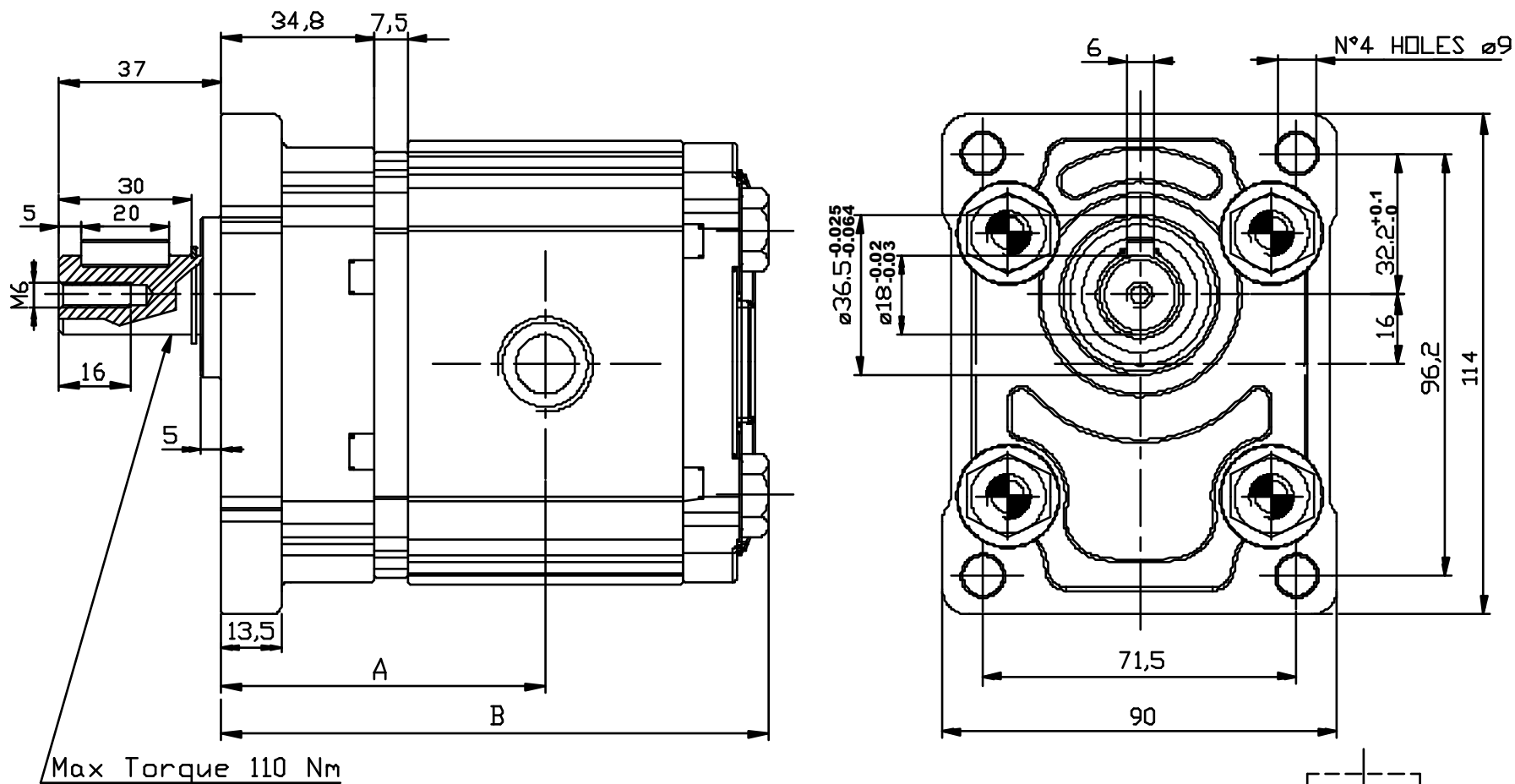
Albero parallelo Ø18

Supporto con cuscinetto

Corpo con bocche filettate ( GAS )

GROUP 2 PUMPS- WITH FRONT BEARING

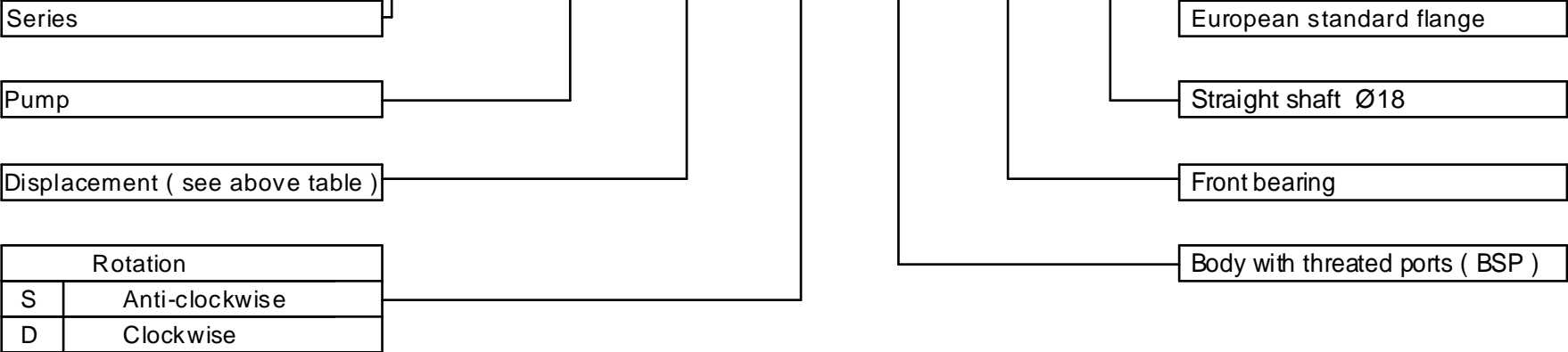
VERSION: G T 22 P2



Type	Displacement  ( cc/rev )	Max working pressure P1 ( bar )	Peak pressure P3 ( bar )	Max speed  ( r.p.m)	Dimension A   B		Inlet port		Outlet port	
					( mm )		e	d	e	d
OT 200 P04	04,10	250	300	4000	66.30	109.80	G1/2	14	G1/2	14
OT 200 P06	06,20	250	300	3500	67.80	112.80	G1/2	14	G1/2	14
OT 200 P08	08,20	250	300	3500	69.30	115.80	G1/2	14	G1/2	14
OT 200 P11	11,20	250	300	3500	71.45	120.10	G1/2	14	G1/2	14
OT 200 P14	14,00	240	300	3000	73.45	124.10	G3/4	16	G1/2	14
OT 200 P16	16,00	240	300	3000	74.90	127.00	G3/4	16	G1/2	14
OT 200 P20	20,00	200	240	3000	77.80	132.80	G3/4	16	G1/2	14
OT 200 P22	22,50	170	210	2500	82.65	144.50	G3/4	16	G1/2	14
OT 200 P25	25,10	170	210	2500	85.55	148.30	G3/4	16	G1/2	14
OT 200 P28	28,00	140	180	2500	87.65	152.50	G3/4	16	G1/2	14
OT 200 P30	30,00	130	170	2000	89.05	155.30	G3/4	16	G1/2	14

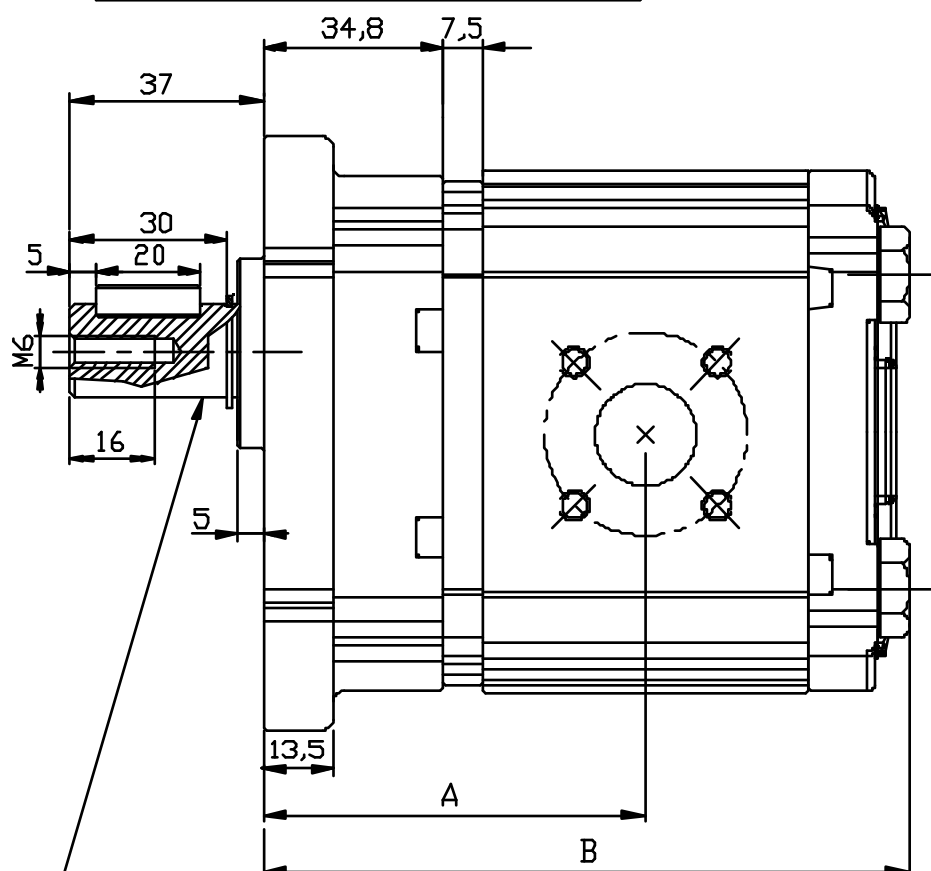
EXAMPLE OF ORDERING CODE

OT200 P 08 S / G / T 22 P2

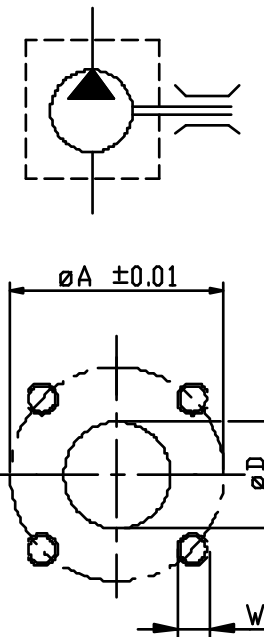
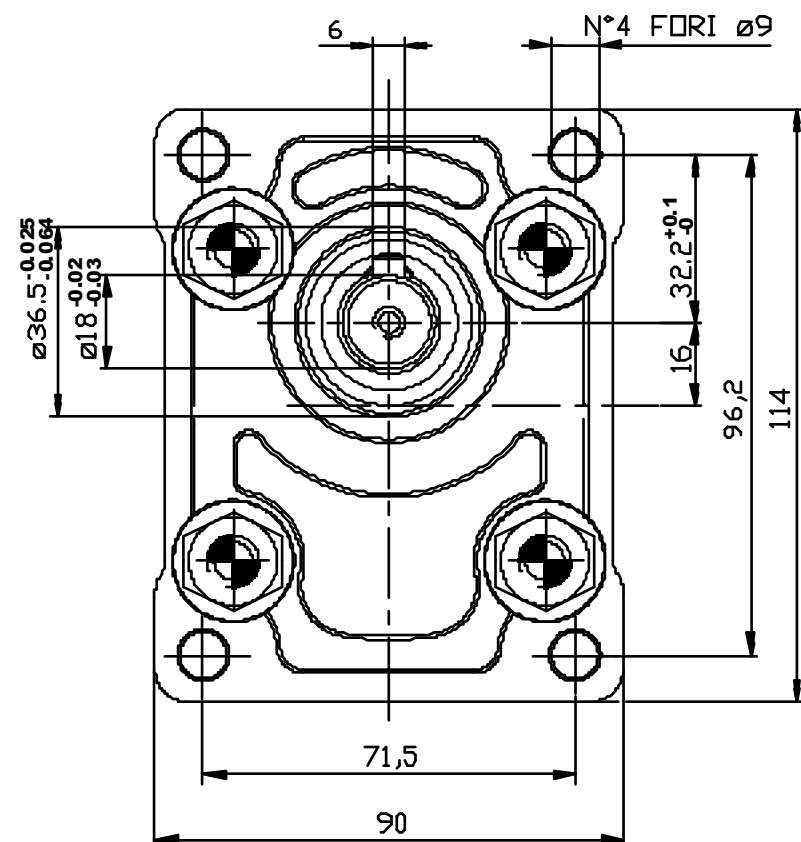


## POMPE GRUPPO 2- CON SUPPORTO

**VERSIONE: B T 22 P2**



Coppia Max 110 Nm



Tipo	Cilindrata ( cc/giro )	Pressione massima continua P1 ( bar )	Pressione di punta P3 ( bar )	Velocita' massima ( giri/min. )	Dimensione A B		Bocca di aspirazione			Bocca di mandata		
					( mm )		ØD	ØA	W	ØD	ØA	W
OT 200 P04	04,10	250	300	4000	66.30	109.80	20	40	M6	15	35	M6
OT 200 P06	06,20	250	300	3500	67.80	112.80	20	40	M6	15	35	M6
OT 200 P08	08,20	250	300	3500	69.30	115.80	20	40	M6	15	35	M6
OT 200 P11	11,20	250	300	3500	71.45	120.10	20	40	M6	15	35	M6
OT 200 P14	14,00	240	300	3000	73.45	124.10	20	40	M6	15	35	M6
OT 200 P16	16,00	240	300	3000	74.90	127.00	20	40	M6	15	35	M6
OT 200 P20	20,00	200	240	3000	77.80	132.80	20	40	M6	15	35	M6
OT 200 P22	22,50	170	210	2500	82.65	144.50	20	40	M6	15	35	M6
OT 200 P25	25,10	170	210	2500	85.55	148.30	20	40	M6	15	35	M6
OT 200 P28	28,00	140	180	2500	87.65	152.50	20	40	M6	15	35	M6
OT 200 P30	30,00	130	170	2000	89.05	155.30	20	40	M6	15	35	M6

## ESEMPIO DI CODICE D'ORDINAZIONE

**OT200 P 08 S / B / T 22 P2**

Serie

Pompa

Cilindrata ( vedere tabella )

Rotazione

S Sinistra

D Destra

Flangia standard Europeo

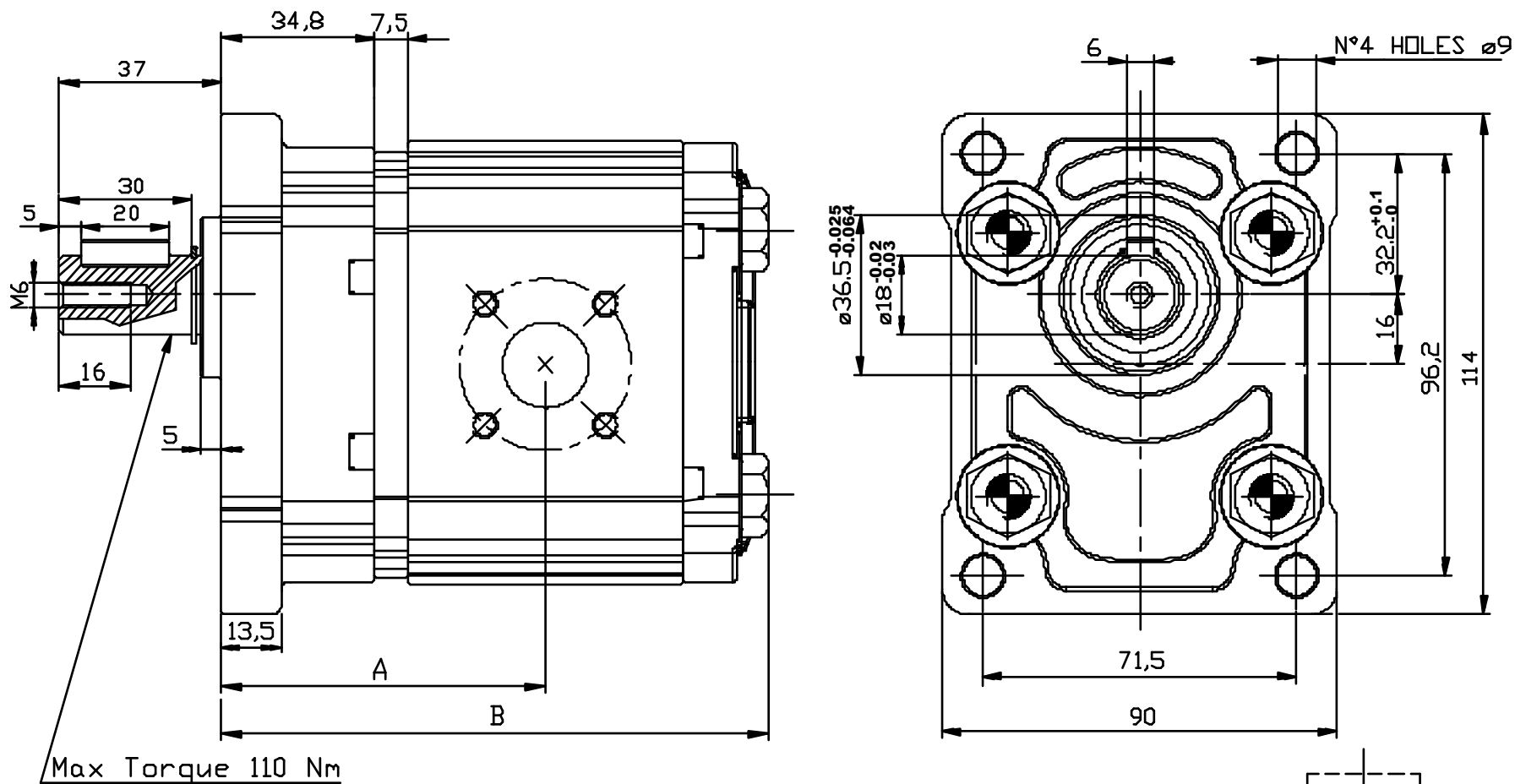
Albero parallelo Ø18

Supporto con cuscinetto

Corpo con bocche a flangia

GROUP 2 PUMPS- WITH FRONT BEARING

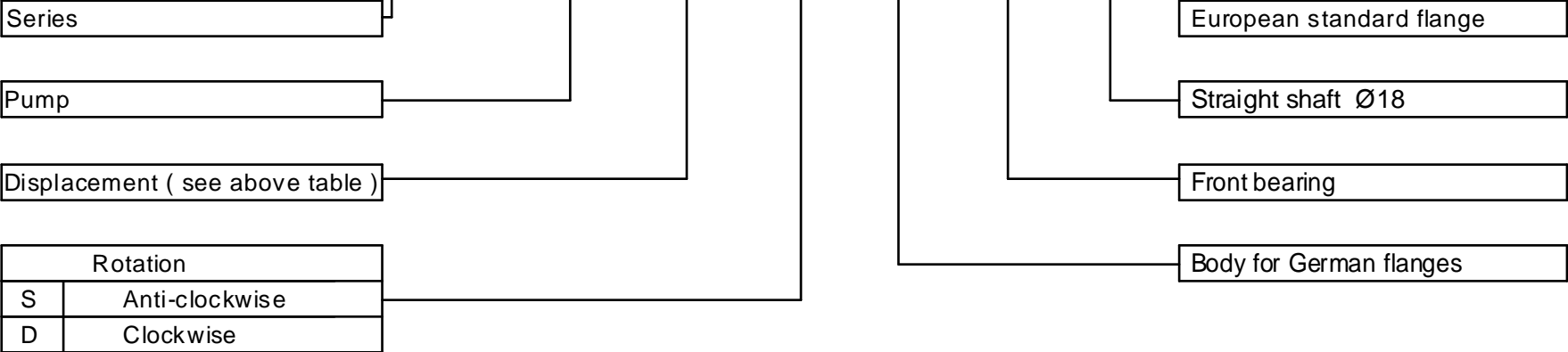
VERSION: B T 22 P2



Type	Displacement	Max working pressure P1	Peak pressure P3	Max speed	Dimension		Inlet port			Outlet port		
					A	B	ØD	ØA	W	ØD	ØA	W
	( cc/rev )	( bar )	( bar )	( r.p.m)	( mm )							
OT 200 P04	04,10	250	300	4000	66.30	109.80	20	40	M6	15	35	M6
OT 200 P06	06,20	250	300	3500	67.80	112.80	20	40	M6	15	35	M6
OT 200 P08	08,20	250	300	3500	69.30	115.80	20	40	M6	15	35	M6
OT 200 P11	11,20	250	300	3500	71.45	120.10	20	40	M6	15	35	M6
OT 200 P14	14,00	240	300	3000	73.45	124.10	20	40	M6	15	35	M6
OT 200 P16	16,00	240	300	3000	74.90	127.00	20	40	M6	15	35	M6
OT 200 P20	20,00	200	240	3000	77.80	132.80	20	40	M6	15	35	M6
OT 200 P22	22,50	170	210	2500	82.65	144.50	20	40	M6	15	35	M6
OT 200 P25	25,10	170	210	2500	85.55	148.30	20	40	M6	15	35	M6
OT 200 P28	28,00	140	180	2500	87.65	152.50	20	40	M6	15	35	M6
OT 200 P30	30,00	130	170	2000	89.05	155.30	20	40	M6	15	35	M6

EXAMPLE OF ORDERING CODE

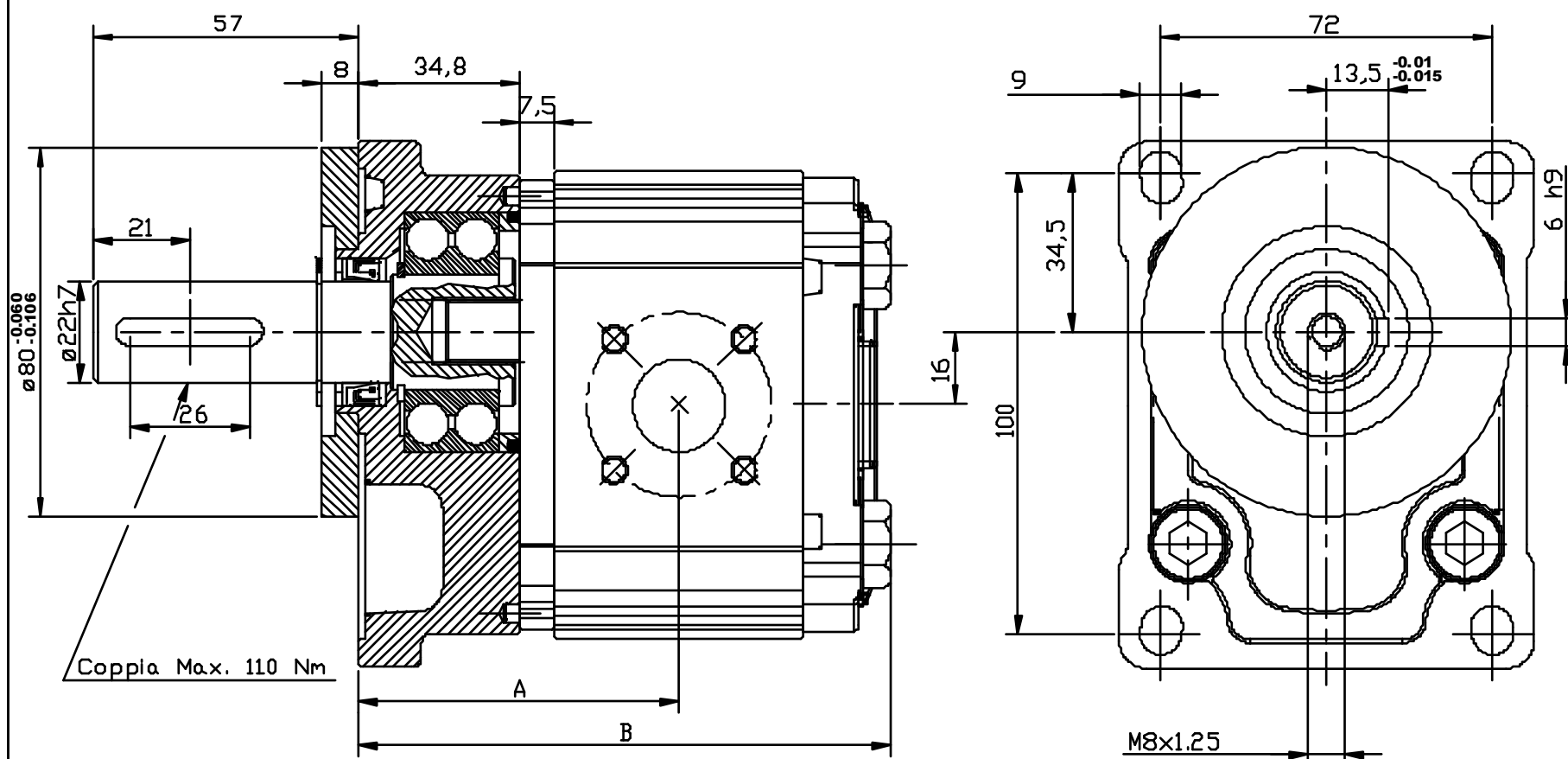
OT200 P 08 S / B / T 22 P2



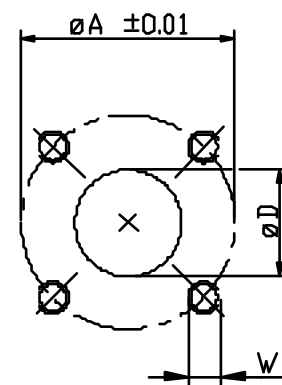


## POMPE GRUPPO 2- CON SUPPORTO

**VERSIONE: B T 29 B2**



Tipo	Cilindrata  ( cc/giro )	Pressione massima continua P1 ( bar )	Pressione di punta P3 ( bar )	Velocita' massima  ( giri/min. )	Dimensione A   B		Bocca di aspirazione			Bocca di mandata		
					( mm )		ØD	ØA	W	ØD	ØA	W
OT 200 P04	04,10	250	300	4000	66.30	109.80	20	40	M6	15	35	M6
OT 200 P06	06,20	250	300	3500	67.80	112.80	20	40	M6	15	35	M6
OT 200 P08	08,20	250	300	3500	69.30	115.80	20	40	M6	15	35	M6
OT 200 P11	11,20	250	300	3500	71.45	120.10	20	40	M6	15	35	M6
OT 200 P14	14,00	240	300	3000	73.45	124.10	20	40	M6	15	35	M6
OT 200 P16	16,00	240	300	3000	74.90	127.00	20	40	M6	15	35	M6
OT 200 P20	20,00	200	240	3000	77.80	132.80	20	40	M6	15	35	M6
OT 200 P22	22,50	170	210	2500	82.65	144.50	20	40	M6	15	35	M6
OT 200 P25	25,10	170	210	2500	85.55	148.30	20	40	M6	15	35	M6
OT 200 P28	28,00	140	180	2500	87.65	152.50	20	40	M6	15	35	M6
OT 200 P30	30,00	130	170	2000	89.05	155.30	20	40	M6	15	35	M6



## ESEMPIO DI CODICE D'ORDINAZIONE

**OT200 P 08 S / B / T 29 B2**

Serie

Pompa

Cilindrata ( vedere tabella )

Rotazione

S Sinistra

D Destra

Flangia standard Tedesco

Albero parallelo Ø22

Supporto con cuscinetto

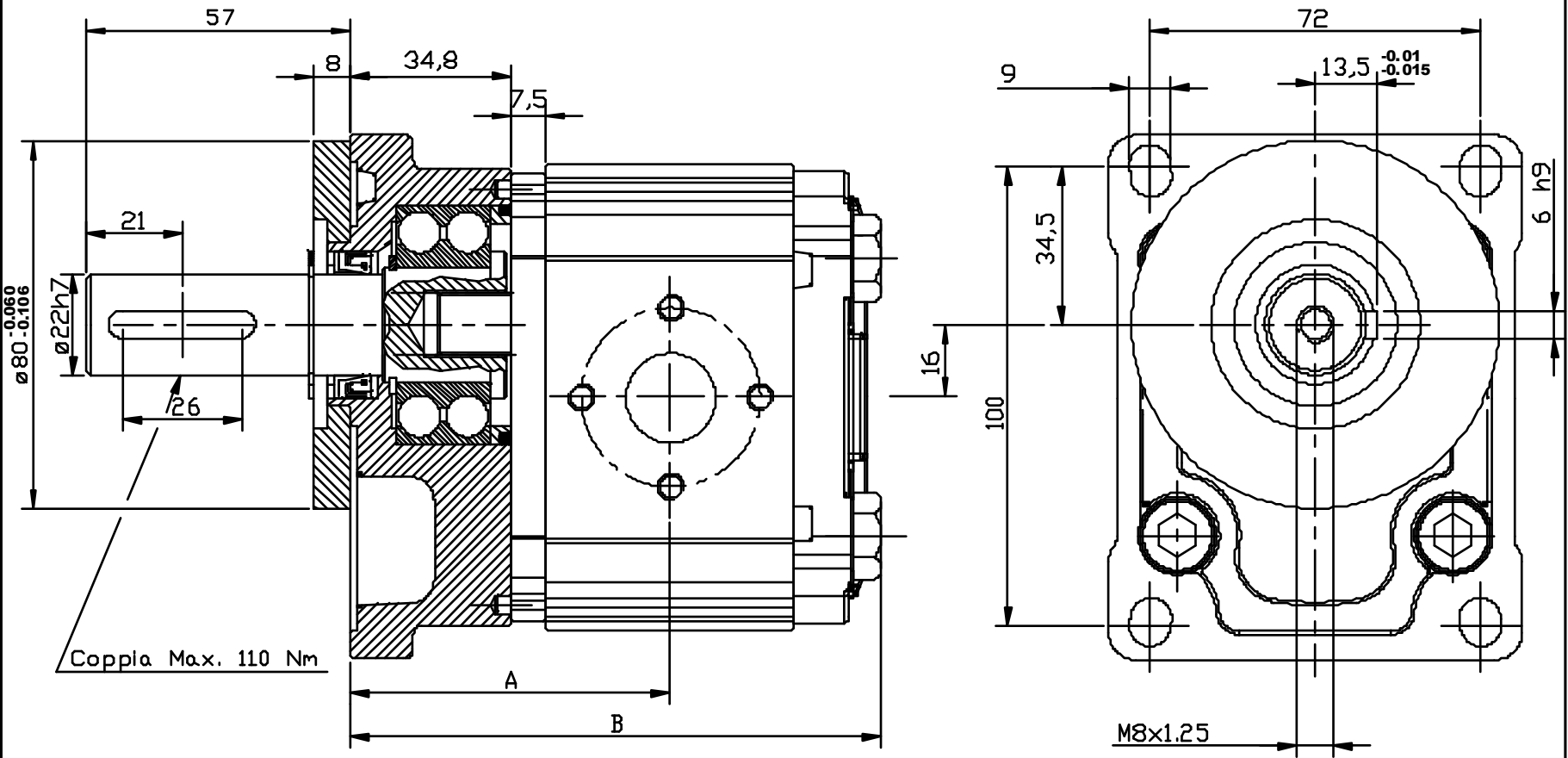
Corpo con bocche a flangia



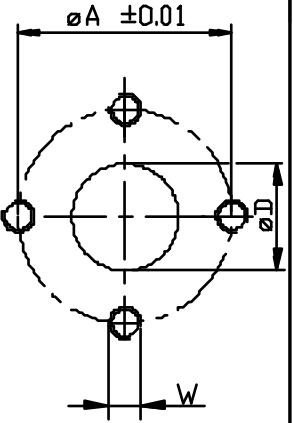


POMPE GRUPPO 2- CON SUPPORTO

VERSIONE: P T 29 B2



Tipo	Cilindrata	Pressione massima continua P1	Pressione di punta P3	Velocita' massima	Dimensione		Bocca di aspirazione			Bocca di mandata		
					A	B	ØD	ØA	W	ØD	ØA	W
	( cc/giro )	( bar )	( bar )	( giri/min. )	( mm )							
OT 200 P04	04,10	250	300	4000	66.30	109.80	20	40	M6	15	35	M6
OT 200 P06	06,20	250	300	3500	67.80	112.80	20	40	M6	15	35	M6
OT 200 P08	08,20	250	300	3500	69.30	115.80	20	40	M6	15	35	M6
OT 200 P11	11,20	250	300	3500	71.45	120.10	20	40	M6	15	35	M6
OT 200 P14	14,00	240	300	3000	73.45	124.10	20	40	M6	15	35	M6
OT 200 P16	16,00	240	300	3000	74.90	127.00	20	40	M6	15	35	M6
OT 200 P20	20,00	200	240	3000	77.80	132.80	20	40	M6	15	35	M6
OT 200 P22	22,50	170	210	2500	82.65	144.50	20	40	M6	15	35	M6
OT 200 P25	25,10	170	210	2500	85.55	148.30	20	40	M6	15	35	M6
OT 200 P28	28,00	140	180	2500	87.65	152.50	20	40	M6	15	35	M6
OT 200 P30	30,00	130	170	2000	89.05	155.30	20	40	M6	15	35	M6



ESEMPIO DI CODICE D'ORDINAZIONE

OT200 P 08 S / P / T 29 B2

Serie

Pompa

Cilindrata ( vedere tabella )

Rotazione	
S	Sinistra
D	Destra

Flangia standard Tedesca

Albero parallelo Ø22

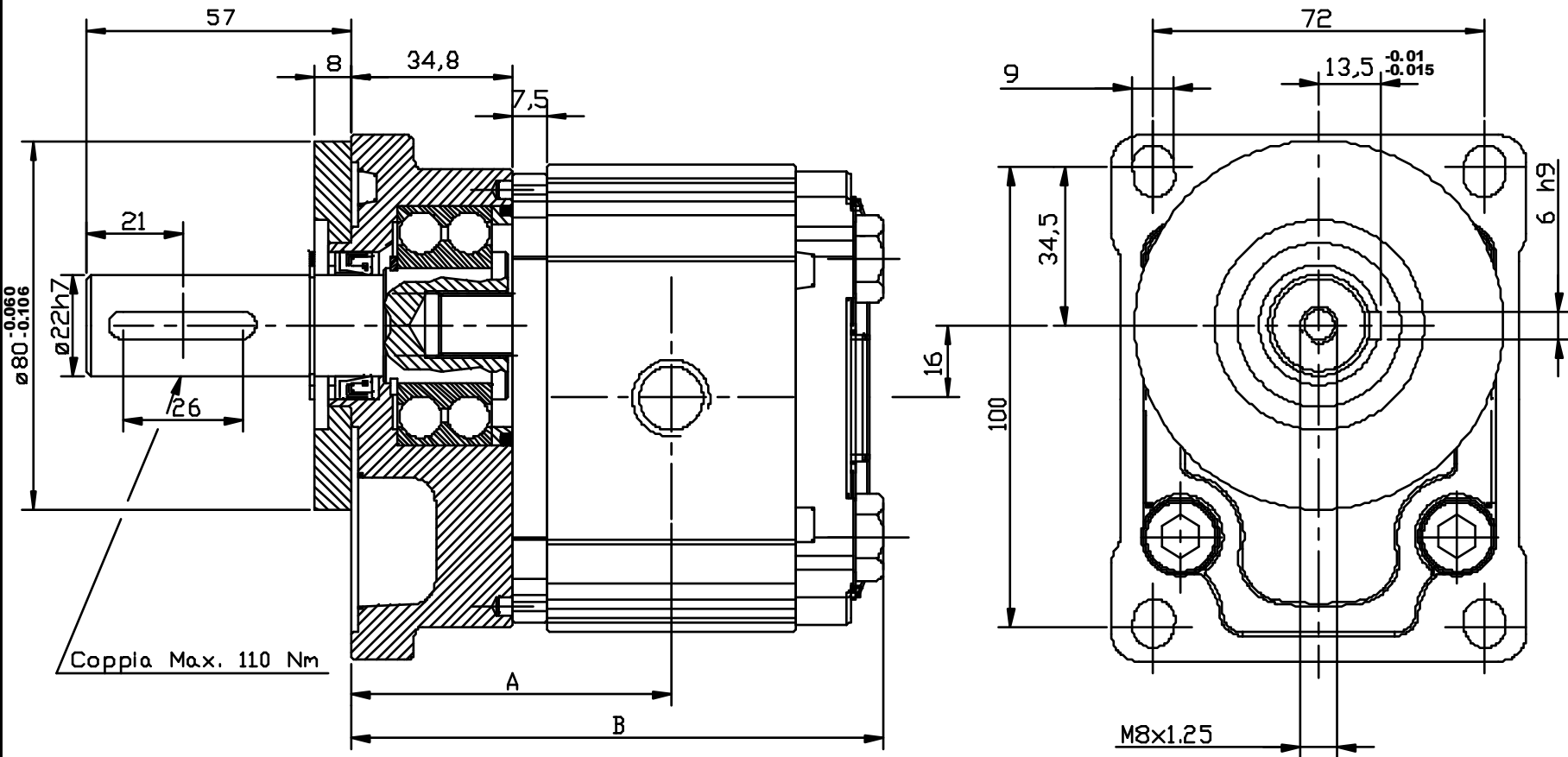
Supporto con cuscinetto

Corpo con bocche a flangia

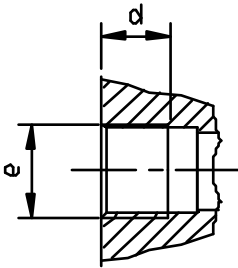


POMPE GRUPPO 2- CON SUPPORTO

VERSIONE: G T 29 B2



Tipo	Cilindrata  ( cc/giro )	Pressione massima continua P1 ( bar )	Pressione di punta P3 ( bar )	Velocita' massima  ( giri/min. )	Dimensione A   B		Bocca di aspirazione		Bocca di mandata	
					( mm )		e	d	e	d
OT 200 P04	04,10	250	300	4000	66.30	109.80	G1/2	14	G1/2	14
OT 200 P06	06,20	250	300	3500	67.80	112.80	G1/2	14	G1/2	14
OT 200 P08	08,20	250	300	3500	69.30	115.80	G1/2	14	G1/2	14
OT 200 P11	11,20	250	300	3500	71.45	120.10	G1/2	14	G1/2	14
OT 200 P14	14,00	240	300	3000	73.45	124.10	G3/4	16	G3/4	16
OT 200 P16	16,00	240	300	3000	74.90	127.00	G3/4	16	G3/4	16
OT 200 P20	20,00	200	240	3000	77.80	132.80	G3/4	16	G3/4	16
OT 200 P22	22,50	170	210	2500	82.65	144.50	G3/4	16	G3/4	16
OT 200 P25	25,10	170	210	2500	85.55	148.30	G3/4	16	G3/4	16
OT 200 P28	28,00	140	180	2500	87.65	152.50	G3/4	16	G3/4	16
OT 200 P30	30,00	130	170	2000	89.05	155.30	G3/4	16	G3/4	16



ESEMPIO DI CODICE D'ORDINAZIONE

OT200 P 08 S / G / T 29 B2

Serie

Pompa

Cilindrata ( vedere tabella )

Rotazione	
S	Sinistra
D	Destra

Flangia standard Tedesca

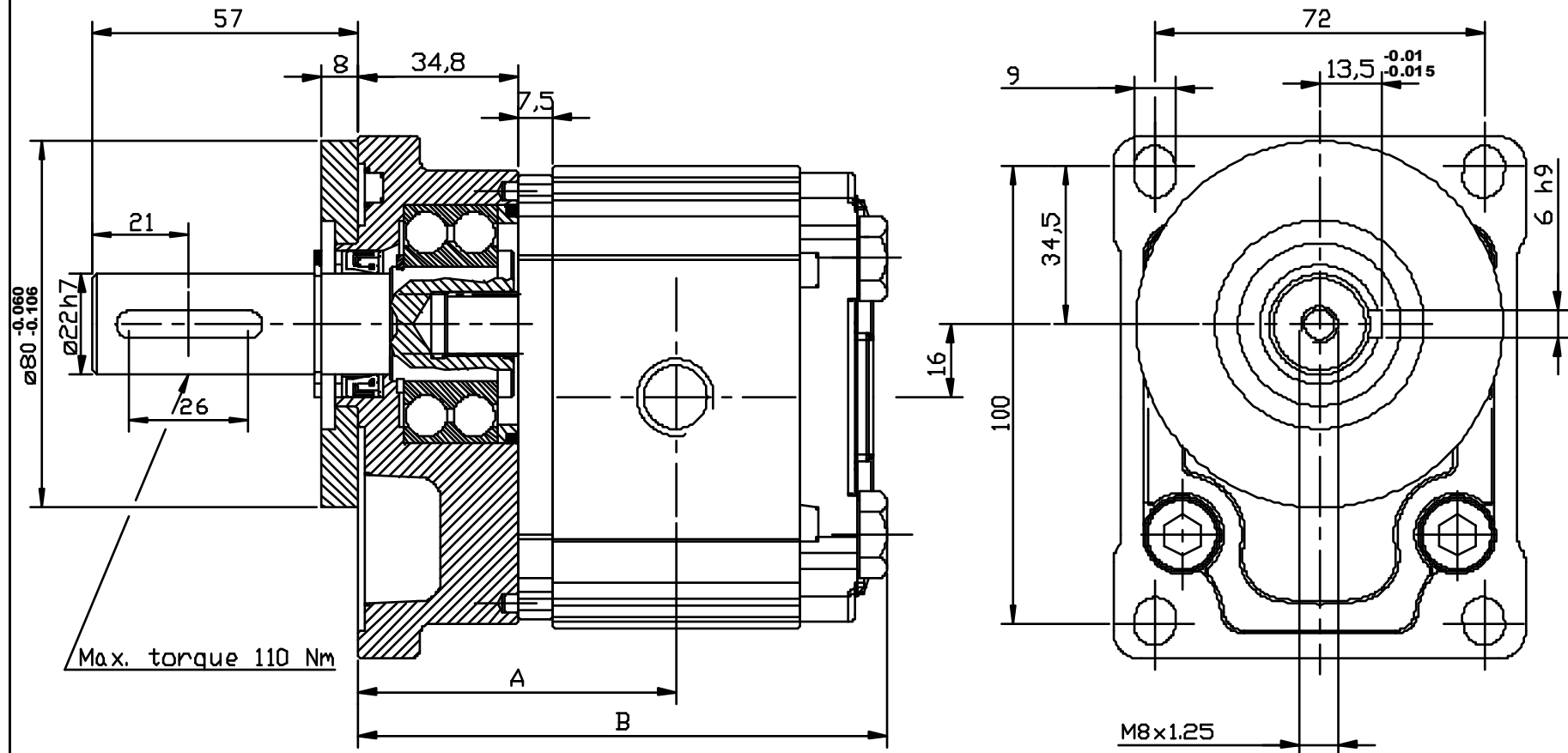
Albero parallelo Ø22

Supporto con cuscinetto

Corpo con bocche filettate ( GAS )

**GROUP 2 PUMPS- WITH FRONT BEARING**

**VERSION: G T 29 B2**



Type	Displacement ( cc/rev )	Max working pressure P1 ( bar )	Peak pressure P3 ( bar )	Max speed ( r.p.m )	Dimension		Inlet port		Outlet port	
					A	B				
					( mm )		e	d	e	d
OT 200 P04	04,10	250	300	4000	66.30	109.80	G1/2	14	G1/2	14
OT 200 P06	06,20	250	300	3500	67.80	112.80	G1/2	14	G1/2	14
OT 200 P08	08,20	250	300	3500	69.30	115.80	G1/2	14	G1/2	14
OT 200 P11	11,20	250	300	3500	71.45	120.10	G1/2	14	G1/2	14
OT 200 P14	14,00	240	300	3000	73.45	124.10	G3/4	16	G3/4	16
OT 200 P16	16,00	240	300	3000	74.90	127.00	G3/4	16	G3/4	16
OT 200 P20	20,00	200	240	3000	77.80	132.80	G3/4	16	G3/4	16
OT 200 P22	22,50	170	210	2500	82.65	144.50	G3/4	16	G3/4	16
OT 200 P25	25,10	170	210	2500	85.55	148.30	G3/4	16	G3/4	16
OT 200 P28	28,00	140	180	2500	87.65	152.50	G3/4	16	G3/4	16
OT 200 P30	30,00	130	170	2000	89.05	155.30	G3/4	16	G3/4	16

**EXAMPLE OF ORDERING CODE**

**OT200 P 08 S / G / T 29 B2**

Series

Pump

Displacement ( see above table )

Rotation

S

Anti-clockwise

D

Clockwise

German standard flange

Straight shaft Ø22

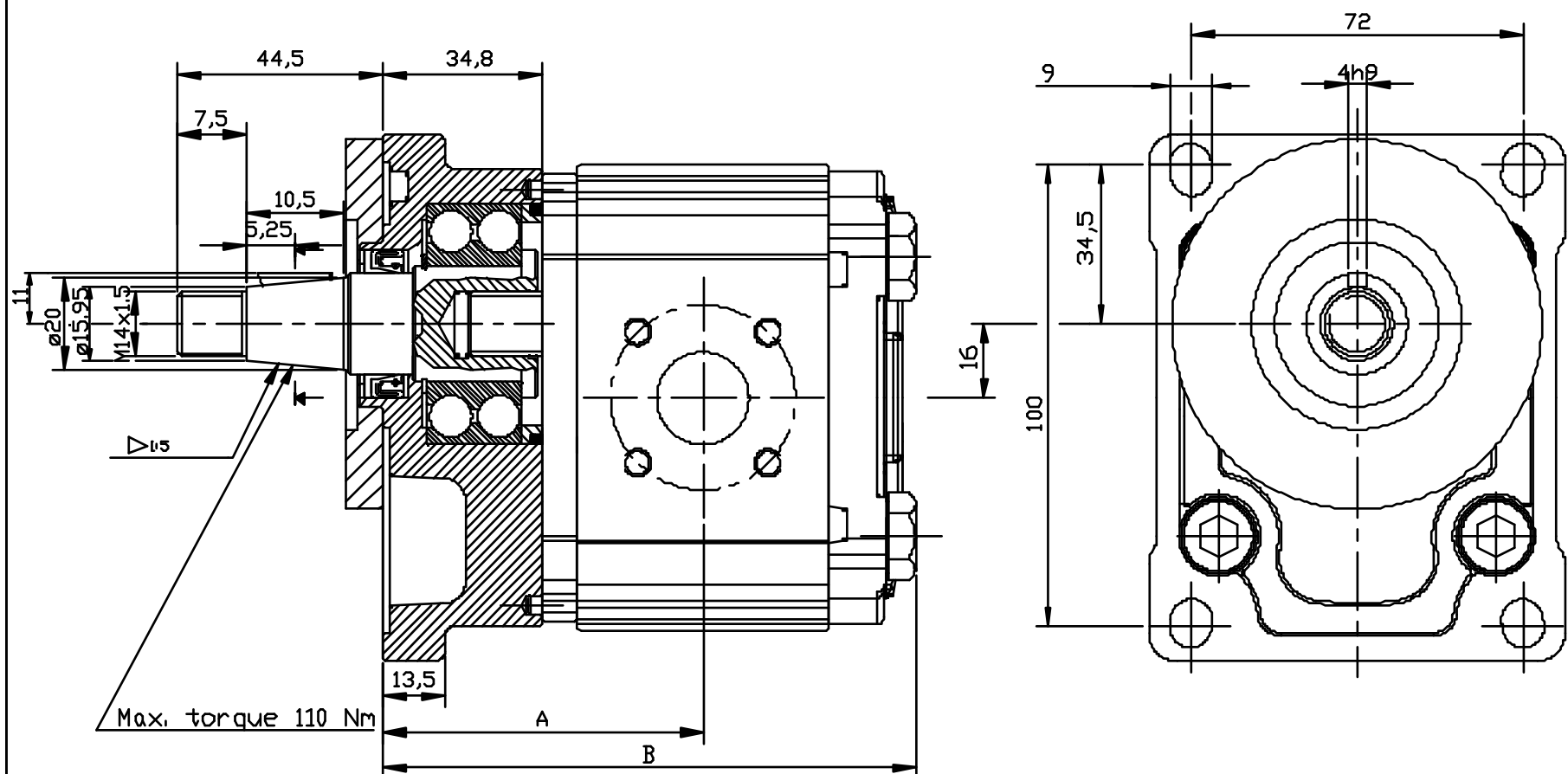
Front bearing

Body with threated ports ( BSP )

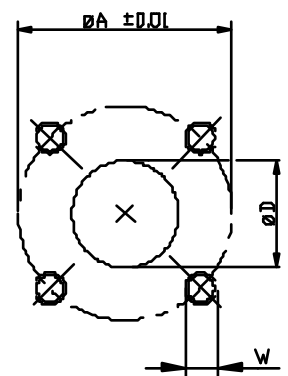


## POMPE GRUPPO 2- CON SUPPORTO

**VERSIONE: B T 27 B2**



Tipo	Cilindrata ( cc/giro )	Pressione massima continua P1 ( bar )	Pressione di punta P3 ( bar )	Velocita' massima ( giri/min. )	Dimensione		Bocca di aspirazione			Bocca di mandata		
					A	B	ØD	ØA	W	ØD	ØA	W
OT 200 P04	04,10	250	300	4000	66.30	109.80	20	40	M6	15	35	M6
OT 200 P06	06,20	250	300	3500	67.80	112.80	20	40	M6	15	35	M6
OT 200 P08	08,20	250	300	3500	69.30	115.80	20	40	M6	15	35	M6
OT 200 P11	11,20	250	300	3500	71.45	120.10	20	40	M6	15	35	M6
OT 200 P14	14,00	240	300	3000	73.45	124.10	20	40	M6	15	35	M6
OT 200 P16	16,00	240	300	3000	74.90	127.00	20	40	M6	15	35	M6
OT 200 P20	20,00	200	240	3000	77.80	132.80	20	40	M6	15	35	M6
OT 200 P22	22,50	170	210	2500	82.65	144.50	20	40	M6	15	35	M6
OT 200 P25	25,10	170	210	2500	85.55	148.30	20	40	M6	15	35	M6
OT 200 P28	28,00	140	180	2500	87.65	152.50	20	40	M6	15	35	M6
OT 200 P30	30,00	130	170	2000	89.05	155.30	20	40	M6	15	35	M6



## ESEMPIO DI CODICE D'ORDINAZIONE

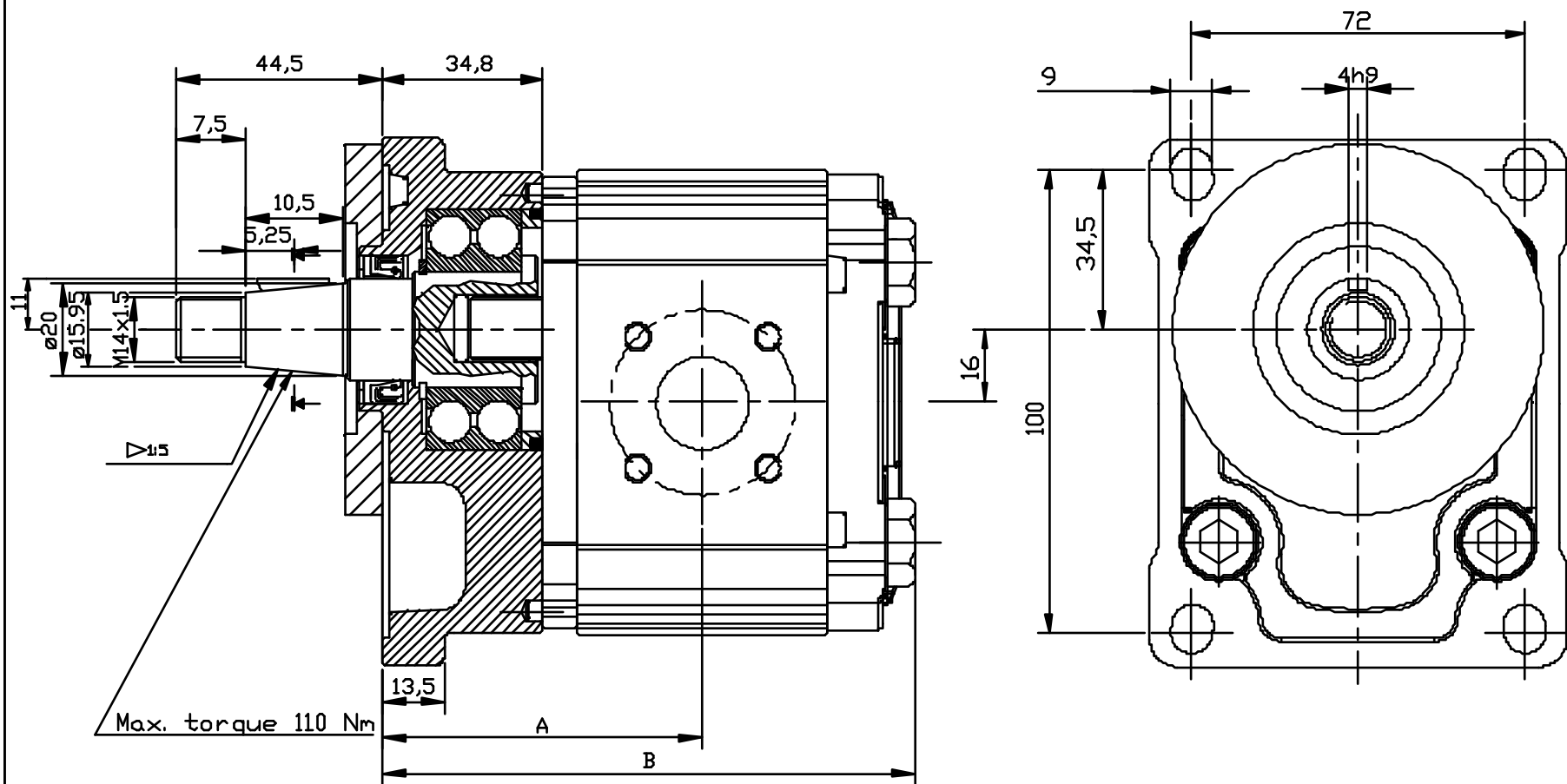
**OT200 P 08 S / B / T 27 B2**

Serie	OT200	P	08	S	/	B	/	T	27	B2	Flangia standard Tedesca
Pompa											Albero conico (1:5)
Cilindrata ( vedere tabella )											Supporto con cuscinetto
Rotazione											Corpo con bocche a flangia
S	Sinistra										
D	Destra										

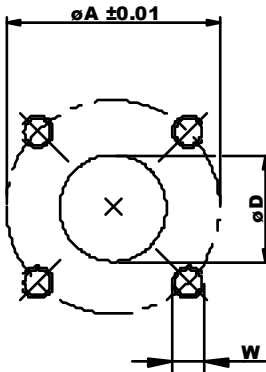


GROUP 2 PUMPS- WITH FRONT BEARING

VERSION: B T 27 B2



Type	Displacement	Max working pressure P1	Peak pressure P3	Max speed	Dimension		Inlet port			Outlet port		
					A	B	ØD	ØA	W	ØD	ØA	W
	( cc/rev )	( bar )	( bar )	( r.p.m)	( mm )							
OT 200 P04	04,10	250	300	4000	66.30	109.80	20	40	M6	15	35	M6
OT 200 P06	06,20	250	300	3500	67.80	112.80	20	40	M6	15	35	M6
OT 200 P08	08,20	250	300	3500	69.30	115.80	20	40	M6	15	35	M6
OT 200 P11	11,20	250	300	3500	71.45	120.10	20	40	M6	15	35	M6
OT 200 P14	14,00	240	300	3000	73.45	124.10	20	40	M6	15	35	M6
OT 200 P16	16,00	240	300	3000	74.90	127.00	20	40	M6	15	35	M6
OT 200 P20	20,00	200	240	3000	77.80	132.80	20	40	M6	15	35	M6
OT 200 P22	22,50	170	210	2500	82.65	144.50	20	40	M6	15	35	M6
OT 200 P25	25,10	170	210	2500	85.55	148.30	20	40	M6	15	35	M6
OT 200 P28	28,00	140	180	2500	87.65	152.50	20	40	M6	15	35	M6
OT 200 P30	30,00	130	170	2000	89.05	155.30	20	40	M6	15	35	M6



EXAMPLE OF ORDERING CODE

OT200 P 08 S / B / T 27 B2

Series

Pump

Displacement ( see above table )

Rotation

S

Anti-clockwise

D

Clockwise

German standard flange

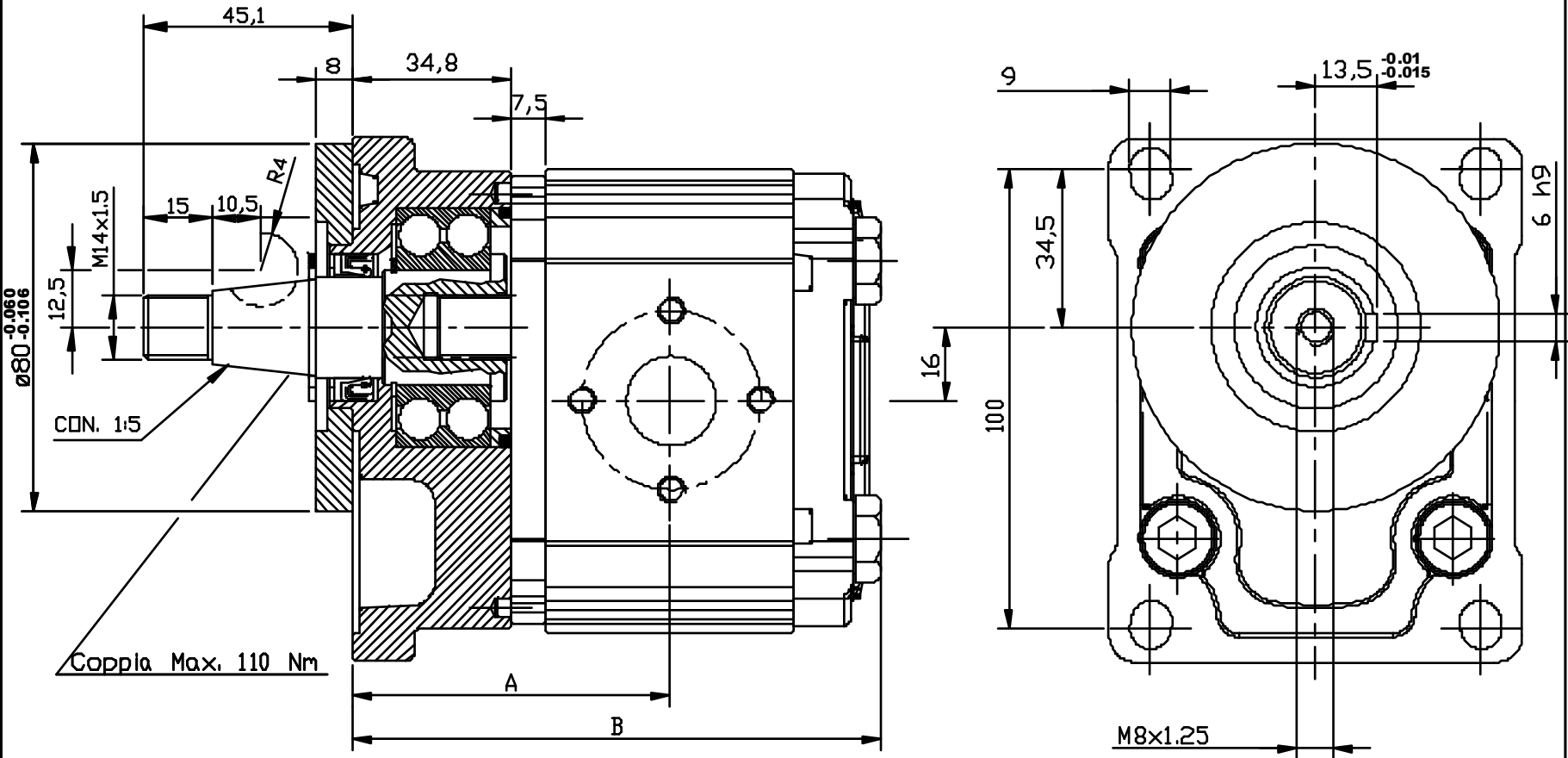
Taper shaft (1:5)

Front bearing

Body for German flanges

POMPE GRUPPO 2- CON SUPPORTO

VERSIONE: P T 27 B2



Tipo	Cilindrata	Pressione massima continua P1	Pressione di punta P3	Velocita' massima	Dimensione		Bocca di aspirazione			Bocca di mandata		
					A	B	ØD	ØA	W	ØD	ØA	W
	( cc/giro )	( bar )	( bar )	( giri/min. )	( mm )							
OT 200 P04	04,10	250	300	4000	66.30	109.80	20	40	M6	15	35	M6
OT 200 P06	06,20	250	300	3500	67.80	112.80	20	40	M6	15	35	M6
OT 200 P08	08,20	250	300	3500	69.30	115.80	20	40	M6	15	35	M6
OT 200 P11	11,20	250	300	3500	71.45	120.10	20	40	M6	15	35	M6
OT 200 P14	14,00	240	300	3000	73.45	124.10	20	40	M6	15	35	M6
OT 200 P16	16,00	240	300	3000	74.90	127.00	20	40	M6	15	35	M6
OT 200 P20	20,00	200	240	3000	77.80	132.80	20	40	M6	15	35	M6
OT 200 P22	22,50	170	210	2500	82.65	144.50	20	40	M6	15	35	M6
OT 200 P25	25,10	170	210	2500	85.55	148.30	20	40	M6	15	35	M6
OT 200 P28	28,00	140	180	2500	87.65	152.50	20	40	M6	15	35	M6
OT 200 P30	30,00	130	170	2000	89.05	155.30	20	40	M6	15	35	M6

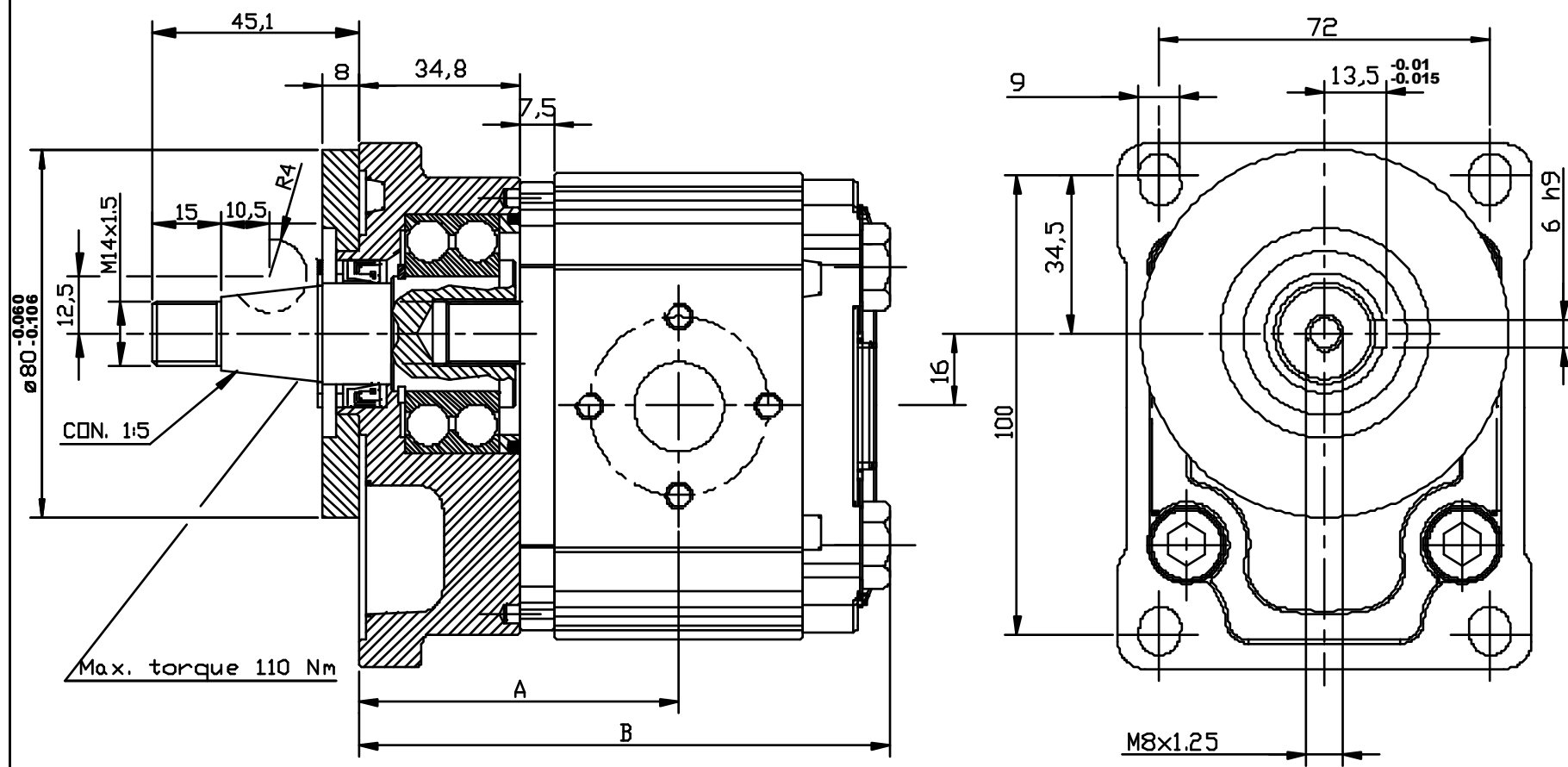
ESEMPIO DI CODICE D'ORDINAZIONE

OT200 P 08 S / P / T 27 B2

Serie		Pompa		Cilindrata ( vedere tabella )		Rotazione		Flangia standard Tedesca		Albero conico (1:5)		Supporto con cuscinetto		Corpo con bocche a flangia	
S		Sinistra		D		Destra									

**GROUP 2 PUMPS- WITH FRONT BEARING**

**VERSION: P T 27 B2**



Type	Displacement	Max working pressure P1 ( bar )	Peak pressure P3 ( bar )	Max speed ( r.p.m)	Dimension		Inlet port			Outlet port		
					A	B	ØD	ØA	W	ØD	ØA	W
	( mm )											
OT 200 P04	04,10	250	300	4000	66.30	109.80	20	40	M6	15	35	M6
OT 200 P06	06,20	250	300	3500	67.80	112.80	20	40	M6	15	35	M6
OT 200 P08	08,20	250	300	3500	69.30	115.80	20	40	M6	15	35	M6
OT 200 P11	11,20	250	300	3500	71.45	120.10	20	40	M6	15	35	M6
OT 200 P14	14,00	240	300	3000	73.45	124.10	20	40	M6	15	35	M6
OT 200 P16	16,00	240	300	3000	74.90	127.00	20	40	M6	15	35	M6
OT 200 P20	20,00	200	240	3000	77.80	132.80	20	40	M6	15	35	M6
OT 200 P22	22,50	170	210	2500	82.65	144.50	20	40	M6	15	35	M6
OT 200 P25	25,10	170	210	2500	85.55	148.30	20	40	M6	15	35	M6
OT 200 P28	28,00	140	180	2500	87.65	152.50	20	40	M6	15	35	M6
OT 200 P30	30,00	130	170	2000	89.05	155.30	20	40	M6	15	35	M6

**EXAMPLE OF ORDERING CODE**

**OT200    P    08    S / P / T    27    B2**

Series

Pump

Displacement ( see above table )

Rotation

S

Anti-clockwise

D

Clockwise

German standard flange

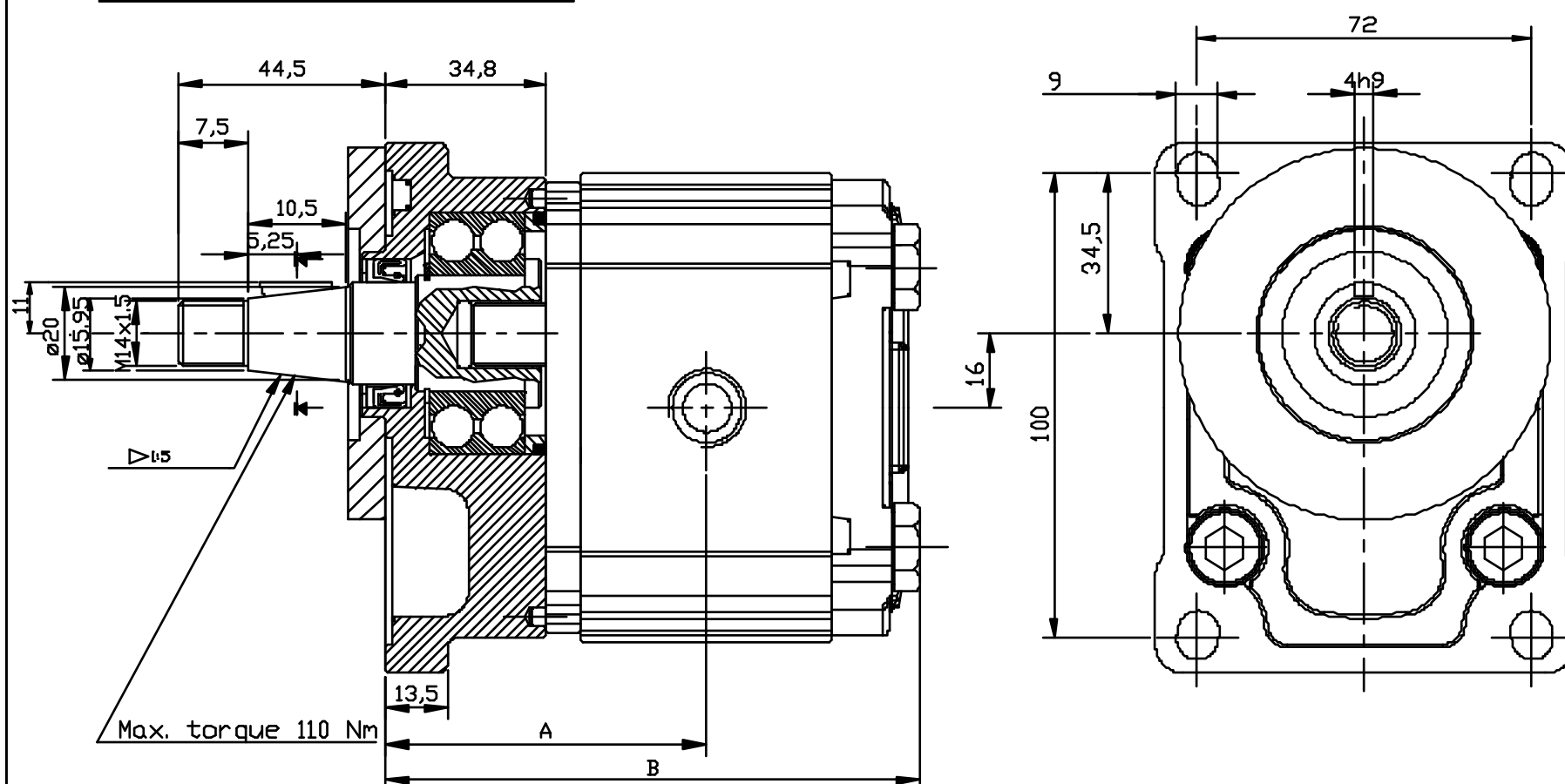
Taper shaft (1:5)

Front bearing

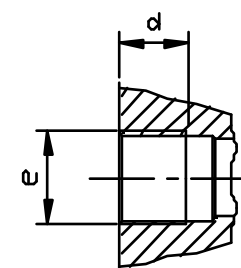
Body for European flanges

## POMPE GRUPPO 2- CON SUPPORTO

**VERSIONE: G T 27 B2**



Tipo	Cilindrata ( cc/giro )	Pressione massima continua P1 ( bar )	Pressione di punta P3 ( bar )	Velocita' massima ( giri/min. )	Dimensione		Bocca di aspirazione		Bocca di mandata	
					A	B	e	d	e	d
<b>OT 200 P04</b>	04,10	250	300	4000	66.30	109.80	G1/2	14	G1/2	14
<b>OT 200 P06</b>	06,20	250	300	3500	67.80	112.80	G1/2	14	G1/2	14
<b>OT 200 P08</b>	08,20	250	300	3500	69.30	115.80	G1/2	14	G1/2	14
<b>OT 200 P11</b>	11,20	250	300	3500	71.45	120.10	G1/2	14	G1/2	14
<b>OT 200 P14</b>	14,00	240	300	3000	73.45	124.10	G3/4	16	G1/2	14
<b>OT 200 P16</b>	16,00	240	300	3000	74.90	127.00	G3/4	16	G1/2	14
<b>OT 200 P20</b>	20,00	200	240	3000	77.80	132.80	G3/4	16	G1/2	14
<b>OT 200 P22</b>	22,50	170	210	2500	82.65	144.50	G3/4	16	G1/2	14
<b>OT 200 P25</b>	25,10	170	210	2500	85.55	148.30	G3/4	16	G1/2	14
<b>OT 200 P28</b>	28,00	140	180	2500	87.65	152.50	G3/4	16	G1/2	14
<b>OT 200 P30</b>	30,00	130	170	2000	89.05	155.30	G3/4	16	G1/2	16



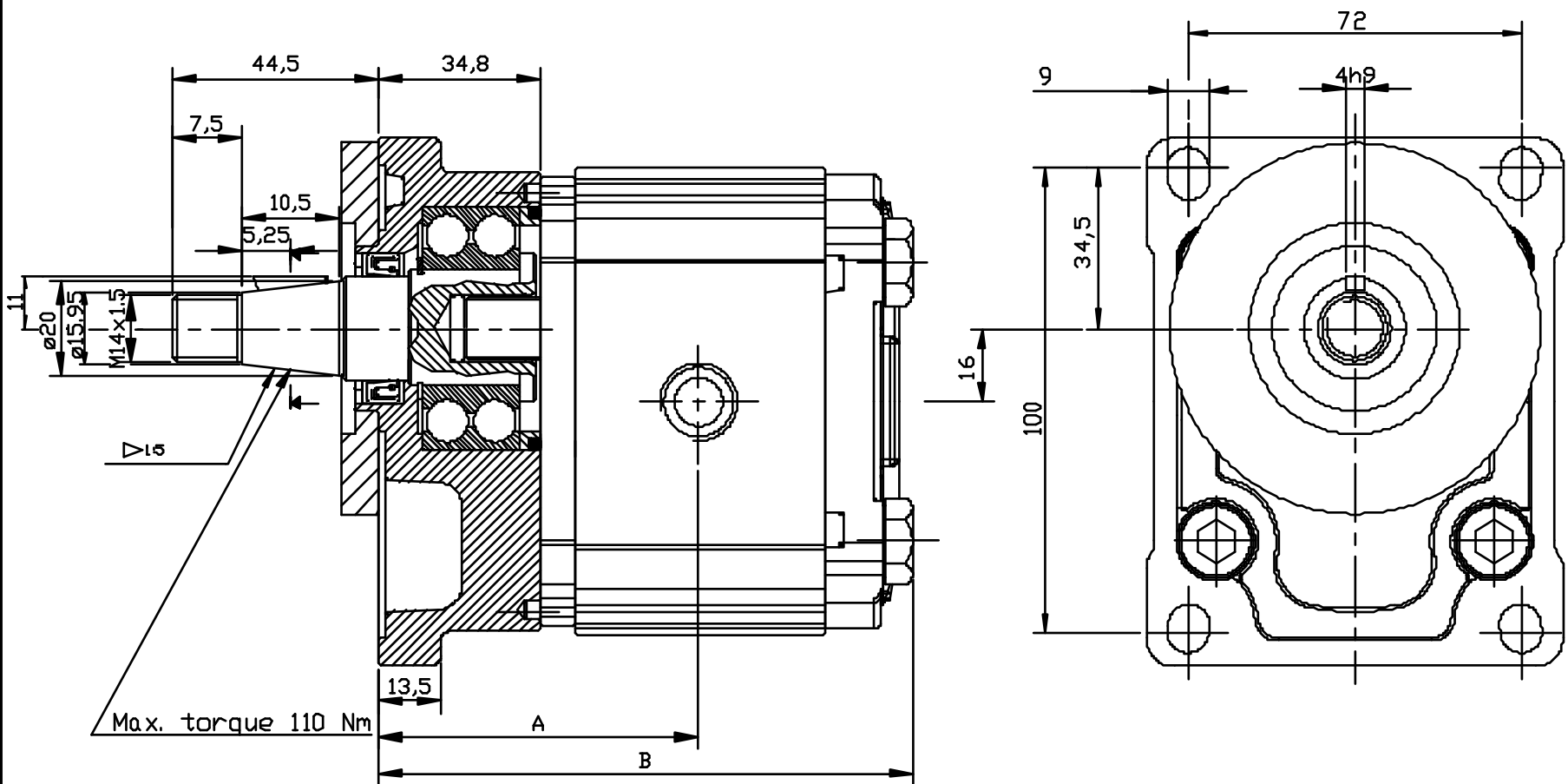
## ESEMPIO DI CODICE D'ORDINAZIONE

**OT200 P 08 S / G / T 27 B2**

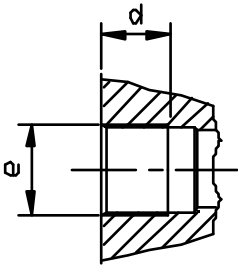
Serie	P	08	S	/	G	/	T	27	B2	Flangia standard Tedesca
Pompa										Albero conico (1:5)
Cilindrata ( vedere tabella )										Supporto con cuscinetto
Rotazione										Corpo con bocche filettate ( GAS )
S Sinistra										
D Destra										

**GROUP 2 PUMPS- WITH FRONT BEARING**

**VERSION: G T 27 B2**



Type	Displacement  ( cc/rev )	Max working pressure P1 ( bar )	Peak pressure P3 ( bar )	Max speed  ( r.p.m)	Dimension		Inlet port		Outlet port	
					A	B				
					( mm )		e	d	e	d
OT 200 P04	04,10	250	300	4000	66.30	109.80	G1/2	14	G1/2	14
OT 200 P06	06,20	250	300	3500	67.80	112.80	G1/2	14	G1/2	14
OT 200 P08	08,20	250	300	3500	69.30	115.80	G1/2	14	G1/2	14
OT 200 P11	11,20	250	300	3500	71.45	120.10	G1/2	14	G1/2	14
OT 200 P14	14,00	240	300	3000	73.45	124.10	G3/4	16	G1/2	14
OT 200 P16	16,00	240	300	3000	74.90	127.00	G3/4	16	G1/2	14
OT 200 P20	20,00	200	240	3000	77.80	132.80	G3/4	16	G1/2	14
OT 200 P22	22,50	170	210	2500	82.65	144.50	G3/4	16	G1/2	14
OT 200 P25	25,10	170	210	2500	85.55	148.30	G3/4	16	G1/2	14
OT 200 P28	28,00	140	180	2500	87.65	152.50	G3/4	16	G1/2	14
OT 200 P30	30,00	130	170	2000	89.05	155.30	G3/4	16	G1/2	14



**EXAMPLE OF ORDERING CODE**

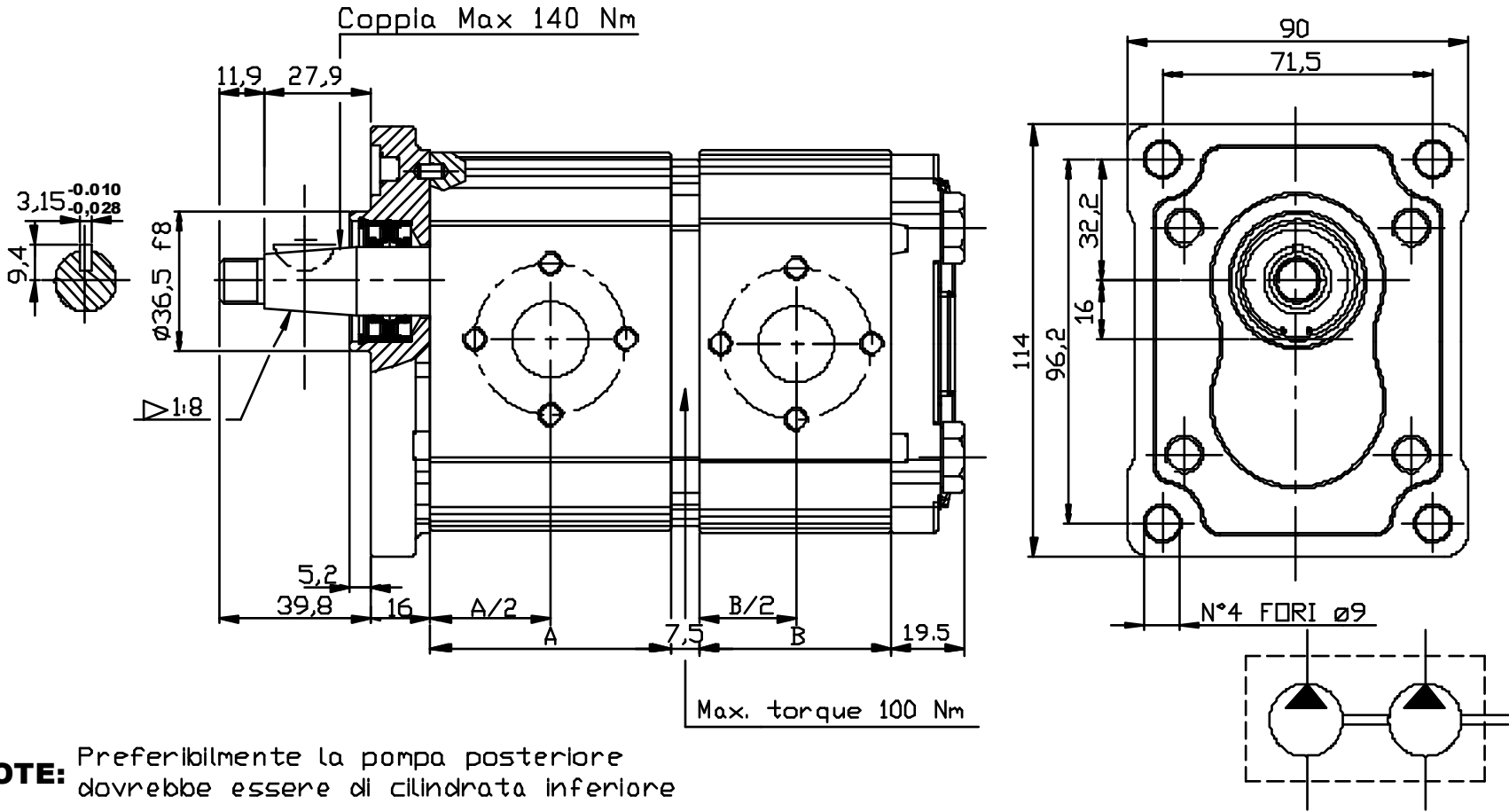
**OT200 P 08 S / G / T 27 B2**

Series	Pump	Displacement ( see above table )	Rotation	German standard flange	Taper shaft (1:5)	Front bearing	Body for European flanges
S	Anti-clockwise		D	Clockwise			

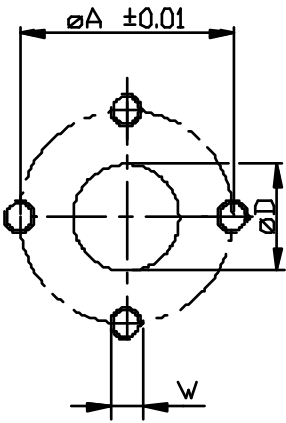


POMPE GRUPPO 2- TANDEM

VERSIONE: P28 P2

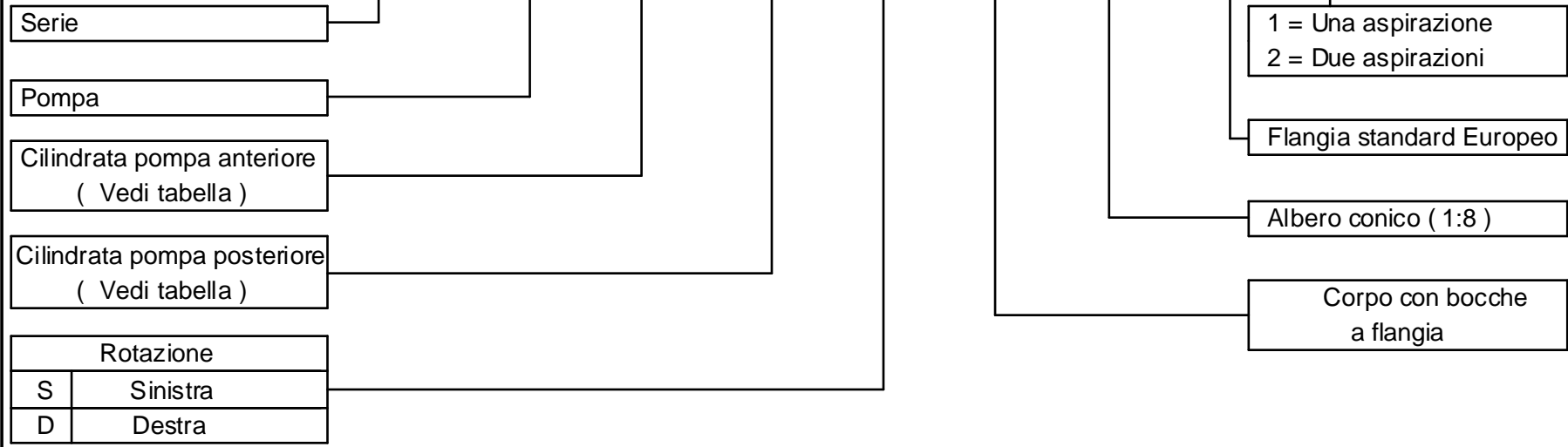


Tipo	Cilindrata ( cc/giro )	Pressione massima continua P1 ( bar )	Pressione di punta P3 ( bar )	Velocita' massima ( giri/min. )	Dimensione		Bocca di aspirazione			Bocca di mandata		
					A	B	ØD	ØA	W	ØD	ØA	W
OT 200 P04	04,10	250	300	4000	48.00	48.00	13	30	M6	13	30	M6
OT 200 P06	06,20	250	300	3500	51.00	51.00	13	30	M6	13	30	M6
OT 200 P08	08,20	250	300	3500	54.00	54.00	13	30	M6	13	30	M6
OT 200 P11	11,20	250	300	3500	58.30	58.30	13	30	M6	13	30	M6
OT 200 P14	14,00	240	300	3000	62.30	62.30	20	40	M8	13	30	M6
OT 200 P16	16,00	240	300	3000	65.20	65.20	20	40	M8	13	30	M6
OT 200 P20	20,00	200	240	3000	71.00	71.00	20	40	M8	13	30	M6
OT 200 P22	22,50	170	210	2500	82.70	82.70	20	40	M8	13	30	M6
OT 200 P25	25,10	170	210	2500	86.50	86.50	20	40	M8	13	30	M6
OT 200 P28	28,00	140	180	2500	90.70	90.70	20	40	M8	13	30	M6
OT 200 P30	30,00	130	170	2000	93.50	93.50	20	40	M8	13	30	M6



ESEMPIO DI CODICE D'ORDINAZIONE

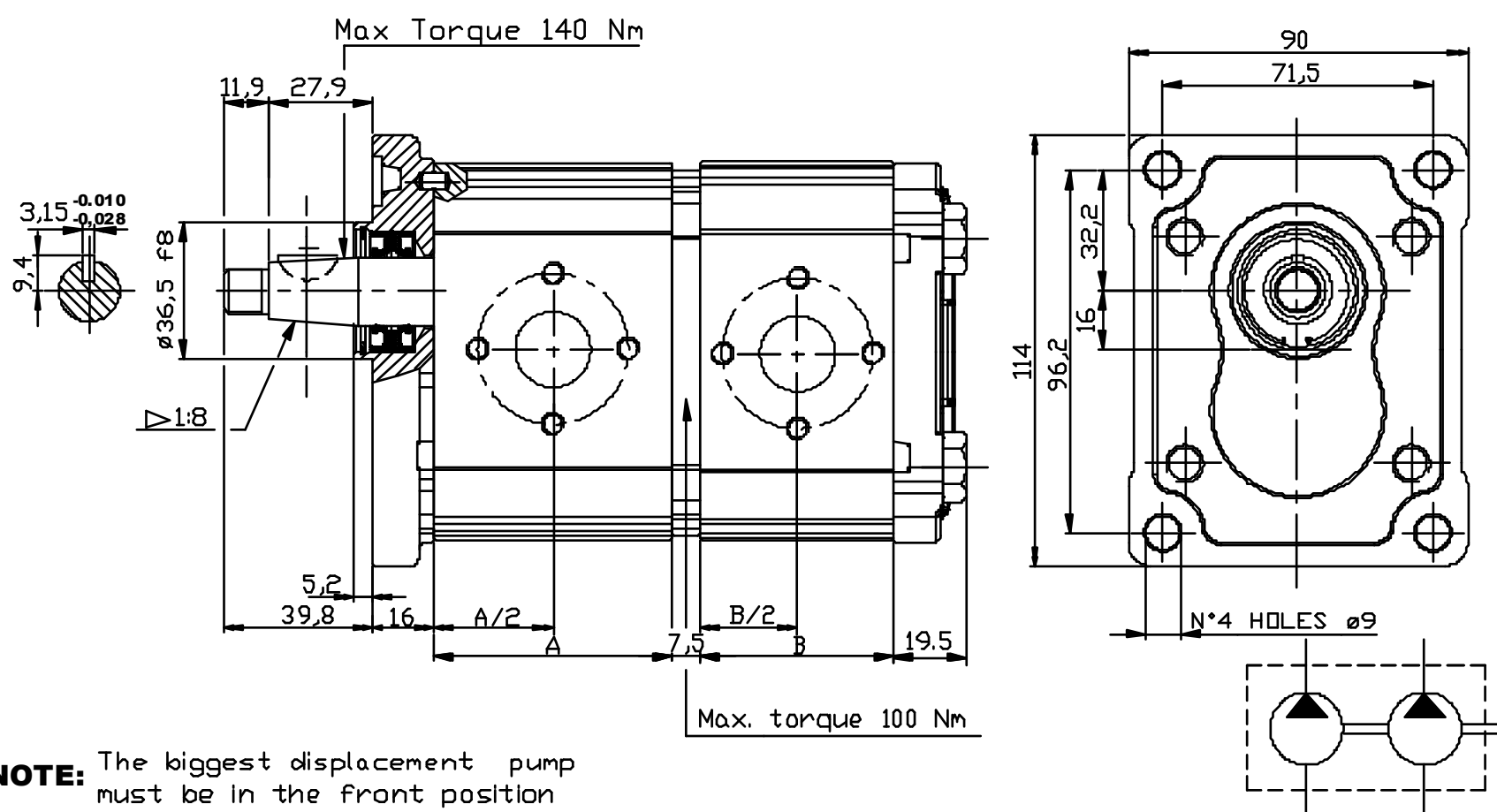
OT200 P 16 / 06 S / P 28 P2 / 2



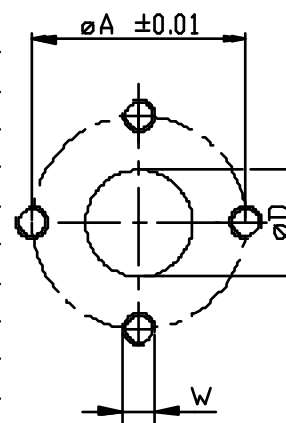


## GROUP 2 PUMPS- TANDEM

**VERSION: P28 P2**



Type	Displacement (cc/rev)	Max working pressure P1 (bar)	Peak pressure P3 (bar)	Max speed (r.p.m)	Dimension		Inlet port			Outlet port		
					A	B	ØD	ØA	W	ØD	ØA	W
					(mm)							
OT 200 P04	04,10	250	300	4000	48.00	48.00	13	30	M6	13	30	M6
OT 200 P06	06,20	250	300	3500	51.00	51.00	13	30	M6	13	30	M6
OT 200 P08	08,20	250	300	3500	54.00	54.00	13	30	M6	13	30	M6
OT 200 P11	11,20	250	300	3500	58.30	58.30	13	30	M6	13	30	M6
OT 200 P14	14,00	240	300	3000	62.30	62.30	20	40	M8	13	30	M6
OT 200 P16	16,00	240	300	3000	65.20	65.20	20	40	M8	13	30	M6
OT 200 P20	20,00	200	240	3000	71.00	71.00	20	40	M8	13	30	M6
OT 200 P22	22,50	170	210	2500	82.70	82.70	20	40	M8	13	30	M6
OT 200 P25	25,10	170	210	2500	86.50	86.50	20	40	M8	13	30	M6
OT 200 P28	28,00	140	180	2500	90.70	90.70	20	40	M8	13	30	M6
OT 200 P30	30,00	130	170	2000	93.50	93.50	20	40	M8	13	30	M6



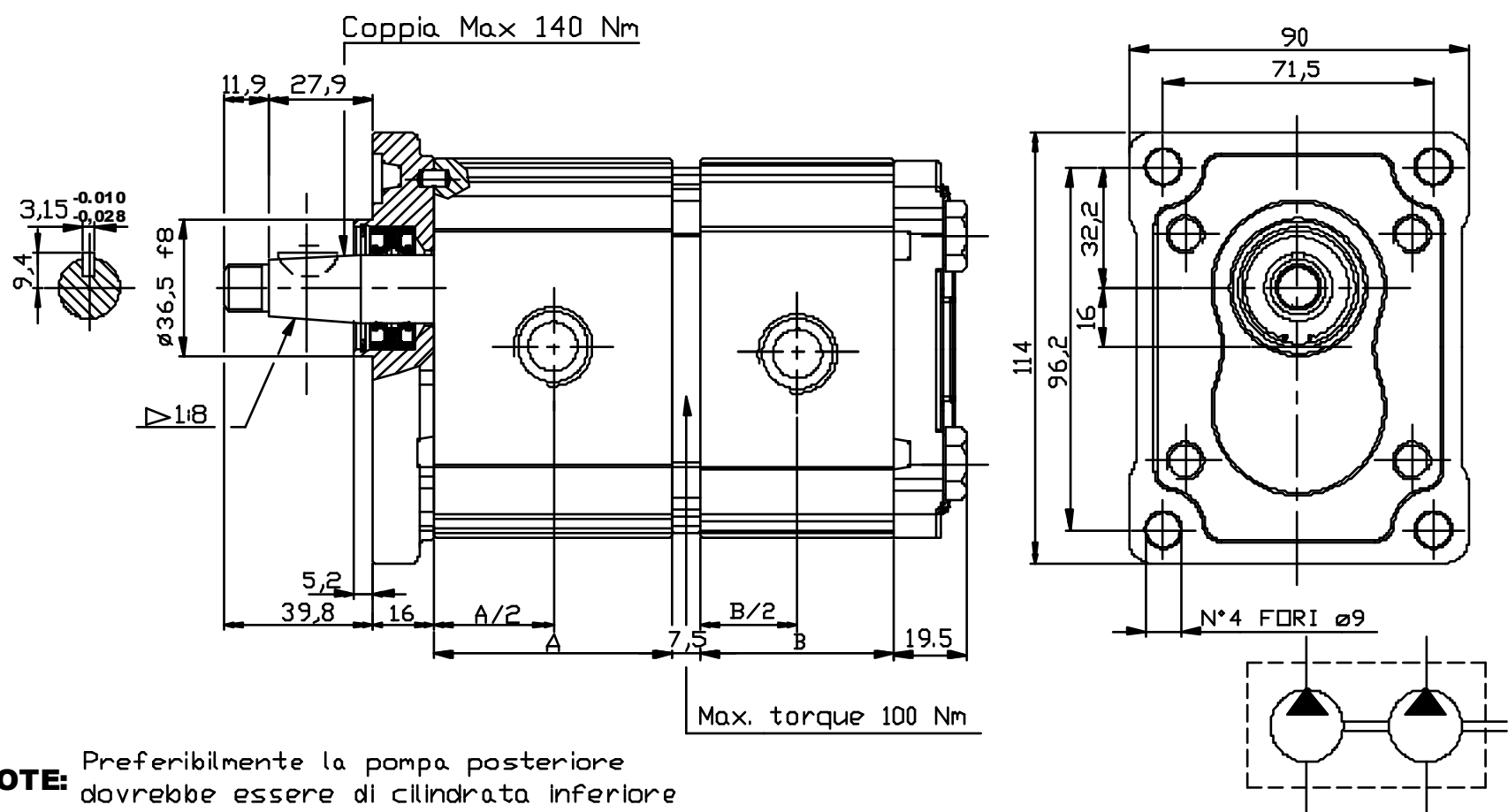
## EXAMPLE OF ORDERING CODE

**OT200 P 16 / 06 S / P 28 P2 / 2**

Series	OT200	Pump	P	Front pump displacement ( see above table)	16	Second pump displacement ( see above table)	06	Rotation	S	Body for European flanges	28	European standard flange	P2	1 = One inlet port 2 = Two inlet ports	2
								Anti-clockwise							
								Clockwise							

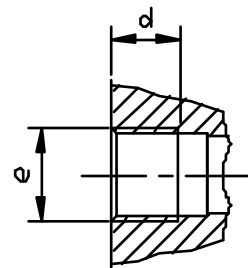
## POMPE GRUPPO 2- TANDEM

**VERSIONE: G28 P2**



**NOTE:** Preferibilmente la pompa posteriore dovrebbe essere di cilindrata inferiore

Tipo	Cilindrata ( cc/giro )	Pressione massima continua P1 ( bar )	Pressione di punta P3 ( bar )	Velocita' massima ( giri/min. )	Dimensione		Bocca di aspirazione		Bocca di mandata	
					A	B	e	d	e	d
OT 200 P04	04,10	250	300	4000	48.00	48.00	G1/2	14	G1/2	14
OT 200 P06	06,20	250	300	3500	51.00	51.00	G1/2	14	G1/2	14
OT 200 P08	08,20	250	300	3500	54.00	54.00	G1/2	14	G1/2	14
OT 200 P11	11,20	250	300	3500	58.30	58.30	G1/2	14	G1/2	14
OT 200 P14	14,00	240	300	3000	62.30	62.30	G3/4	16	G1/2	14
OT 200 P16	16,00	240	300	3000	65.20	65.20	G3/4	16	G1/2	14
OT 200 P20	20,00	200	240	3000	71.00	71.00	G3/4	16	G1/2	14
OT 200 P22	22,50	170	210	2500	82.70	82.70	G3/4	16	G1/2	14
OT 200 P25	25,10	170	210	2500	86.50	86.50	G3/4	16	G1/2	14
OT 200 P28	28,00	140	180	2500	90.70	90.70	G3/4	16	G1/2	14
OT 200 P30	30,00	130	170	2000	93.50	93.50	G3/4	16	G1/2	16



## ESEMPIO DI CODICE D'ORDINAZIONE

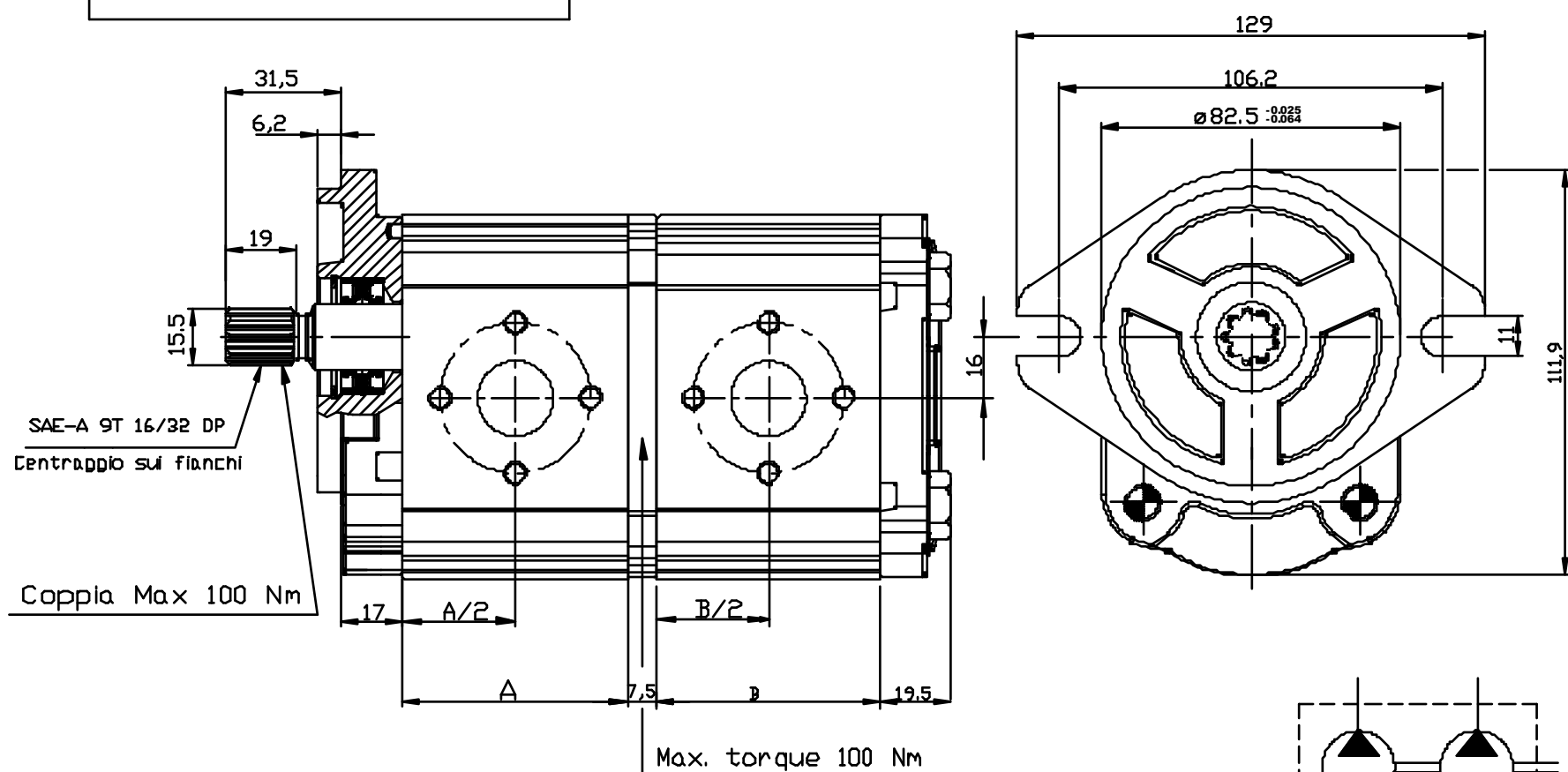
**OT200 P 16 / 06 S / G 28 P2 / 2**

Serie	P	16	/	06	S	/	G	28	P2	/	2	1 = Una aspirazione 2 = Due aspirazioni
Pompa												Flangia standard Europeo
Cilindrata pompa anteriore ( Vedi tabella )												Albero conico ( 1:8 )
Cilindrata pompa posteriore ( Vedi tabella )												Corpo con bocche filettate ( GAS )
Rotazione												
S Sinistra												
D Destra												



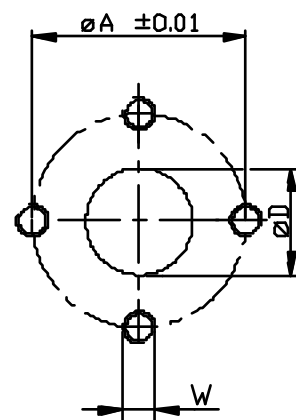
## POMPE GRUPPO 2- SAE "A" TANDEM

**VERSIONE: P21 S2**



**NOTE:** Preferibilmente la pompa posteriore dovrebbe essere di cilindrata inferiore

Tipo	Cilindrata  ( cc/giro )	Pressione massima continua P1 ( bar )	Pressione di punta P3 ( bar )	Velocita' massima ( giri/min. )	Dimensione A    B		Bocca di aspirazione			Bocca di mandata		
					( mm )		ØD	ØA	W	ØD	ØA	W
OT 200 P04	04,10	250	300	4000	48.00	48.00	13	30	M6	13	30	M6
OT 200 P06	06,20	250	300	3500	51.00	51.00	13	30	M6	13	30	M6
OT 200 P08	08,20	250	300	3500	54.00	54.00	13	30	M6	13	30	M6
OT 200 P11	11,20	250	300	3500	58.30	58.30	13	30	M6	13	30	M6
OT 200 P14	14,00	240	300	3000	62.30	62.30	20	40	M8	13	30	M6
OT 200 P16	16,00	240	300	3000	65.20	65.20	20	40	M8	13	30	M6
OT 200 P20	20,00	200	240	3000	71.00	71.00	20	40	M8	13	30	M6
OT 200 P22	22,50	170	210	2500	82.70	82.70	20	40	M8	13	30	M6
OT 200 P25	25,10	170	210	2500	86.50	86.50	20	40	M8	13	30	M6
OT 200 P28	28,00	140	180	2500	90.70	90.70	20	40	M8	13	30	M6
OT 200 P30	30,00	130	170	2000	93.50	93.50	20	40	M8	13	30	M6



## ESEMPIO DI CODICE D'ORDINAZIONE

**OT200 P 16 / 06 S / P 21 S2 / 2**

Serie	P	16	/	06	S	/	P	21	S2	/	2
Pompa											
Cilindrata pompa anteriore ( Vedi tabella )											
Cilindrata pompa posteriore ( Vedi tabella )											
Rotazione											
S Sinistra											
D Destra											

1 = Una aspirazione  
2 = Due aspirazioni

Flangia SAE A

Albero SAE-A 9T 16/32 DP

Corpo con bocche  
a flangia

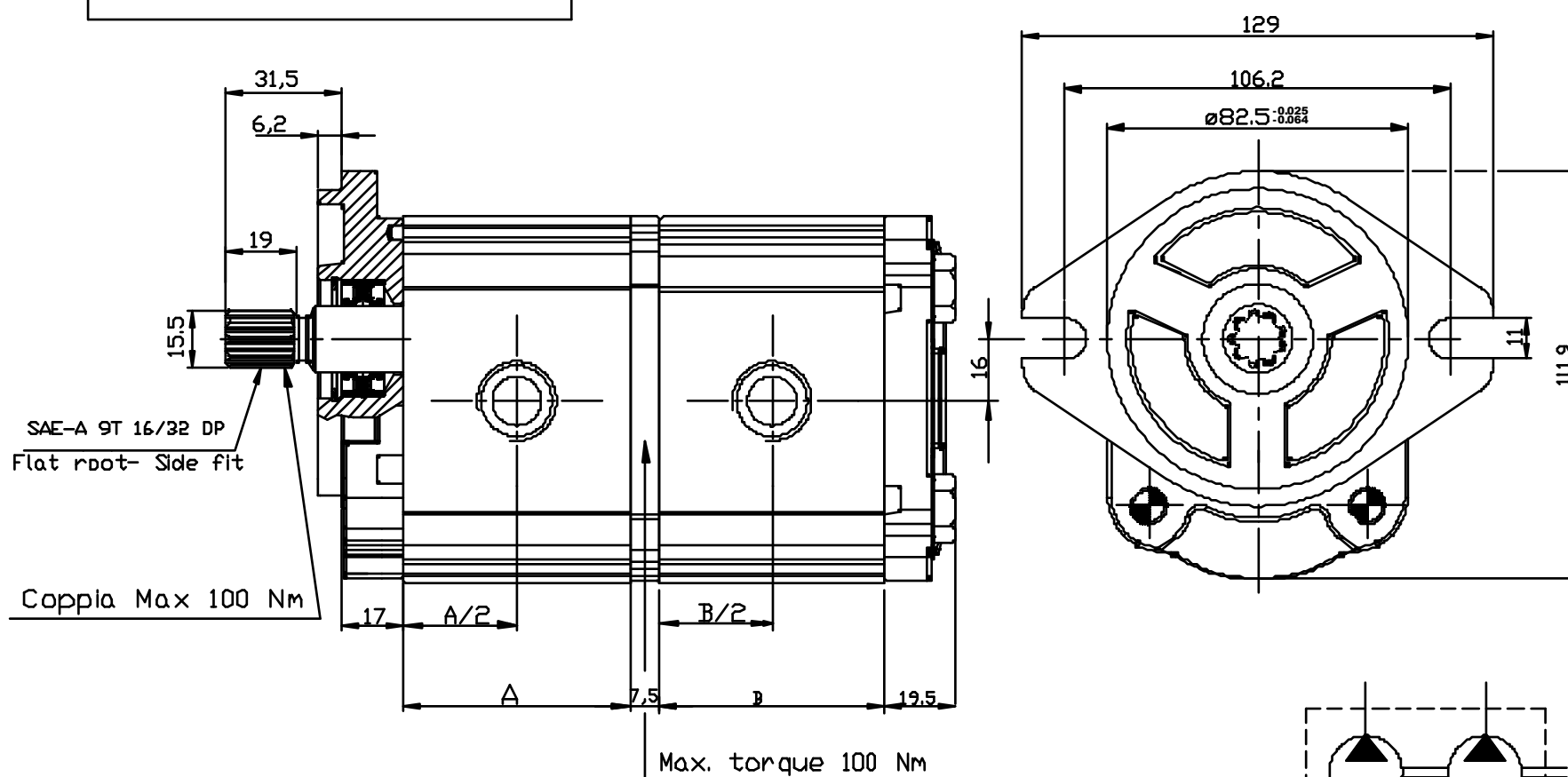






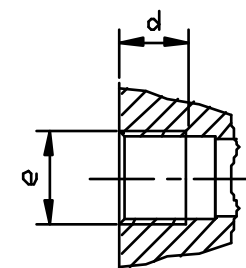
## GROUP 2 PUMPS- TANDEM SAE "A" STANDARD

**VERSION: G21 S2**



**NOTE:** Preferibilmente la pompa posteriore dovrebbe essere di cilindrata inferiore

Type	Displacement  ( cc/rev )	Max working pressure P1 ( bar )	Peak pressure P3 ( bar )	Max speed  ( r.p.m)	Dimension		Inlet port		Outlet port	
					A	B			e	d
					( mm )					
OT 200 P04	04,10	250	300	4000	48.00	48.00	G1/2	14	G1/2	14
OT 200 P06	06,20	250	300	3500	51.00	51.00	G1/2	14	G1/2	14
OT 200 P08	08,20	250	300	3500	54.00	54.00	G1/2	14	G1/2	14
OT 200 P11	11,20	250	300	3500	58.30	58.30	G1/2	14	G1/2	14
OT 200 P14	14,00	240	300	3000	62.30	62.30	G3/4	16	G1/2	14
OT 200 P16	16,00	240	300	3000	65.20	65.20	G3/4	16	G1/2	14
OT 200 P20	20,00	200	240	3000	71.00	71.00	G3/4	16	G1/2	14
OT 200 P22	22,50	170	210	2500	82.70	82.70	G3/4	16	G1/2	14
OT 200 P25	25,10	170	210	2500	86.50	86.50	G3/4	16	G1/2	14
OT 200 P28	28,00	140	180	2500	90.70	90.70	G3/4	16	G1/2	14
OT 200 P30	30,00	130	170	2000	93.50	93.50	G3/4	16	G1/2	14



### EXAMPLE OF ORDERING CODE

**OT200 P 16 / 06 S / G 21 S2 / 2**

Series	OT200									
Pump	P									
Front pump displacement ( see above table )		16	/	06						
Second pump displacement ( see above table )					S	/	G			
Rotation								21	S2	/
S	Anti-clockwise									2
D	Clockwise									

1 = One inlet port  
2 = Two inlet ports

SAE- A flange

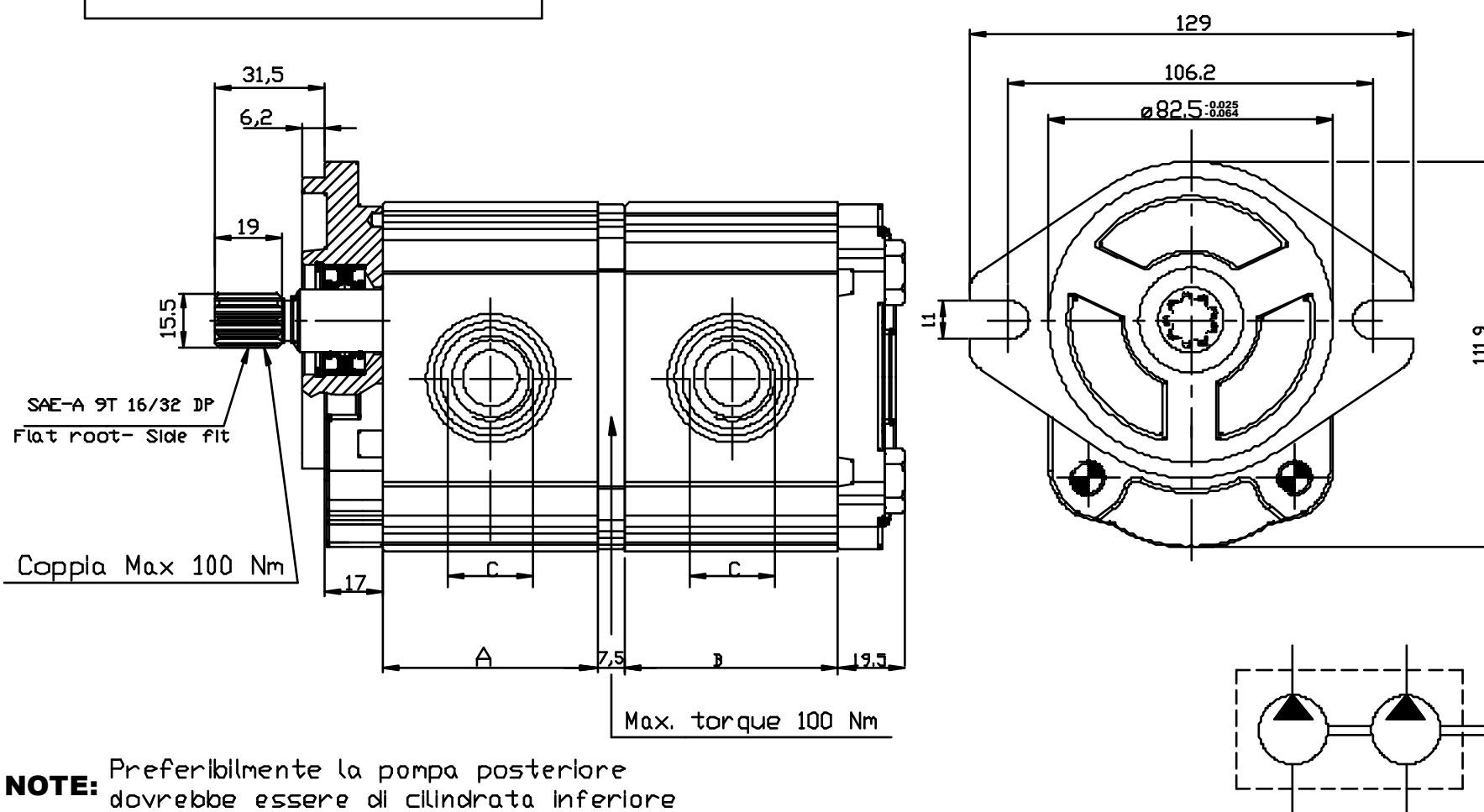
SAE A -9T 16/32 DP shaft

Body with threaded ports (BSP)



## GROUP 2 PUMPS- TANDEM SAE "A" STANDARD

**VERSION: R21 S2**



Type	Displacement  ( cc/rev )	Max working pressure P1 ( bar )	Peak pressure P3 ( bar )	Max speed ( r.p.m)	Dimension		Inlet port  C	Outlet port  C
					A	B		
					( mm )			
<b>OT 200 P04</b>	04,10	250	300	4000	48.00	48.00	7/8-14UNF-2B	7/8-14UNF-2B
<b>OT 200 P06</b>	06,20	250	300	3500	51.00	51.00		
<b>OT 200 P08</b>	08,20	250	300	3500	54.00	54.00		
<b>OT 200 P11</b>	11,20	250	300	3500	58.30	58.30		
<b>OT 200 P14</b>	14,00	240	300	3000	62.30	62.30	1-1/16-12UN-2B	
<b>OT 200 P16</b>	16,00	240	300	3000	65.20	65.20		
<b>OT 200 P20</b>	20,00	200	240	3000	71.00	71.00		
<b>OT 200 P22</b>	22,50	170	210	2500	82.70	82.70		
<b>OT 200 P25</b>	25,10	170	210	2500	86.50	86.50		
<b>OT 200 P28</b>	28,00	140	180	2500	90.70	90.70		
<b>OT 200 P30</b>	30,00	130	170	2000	93.50	93.50		

### EXAMPLE OF ORDERING CODE

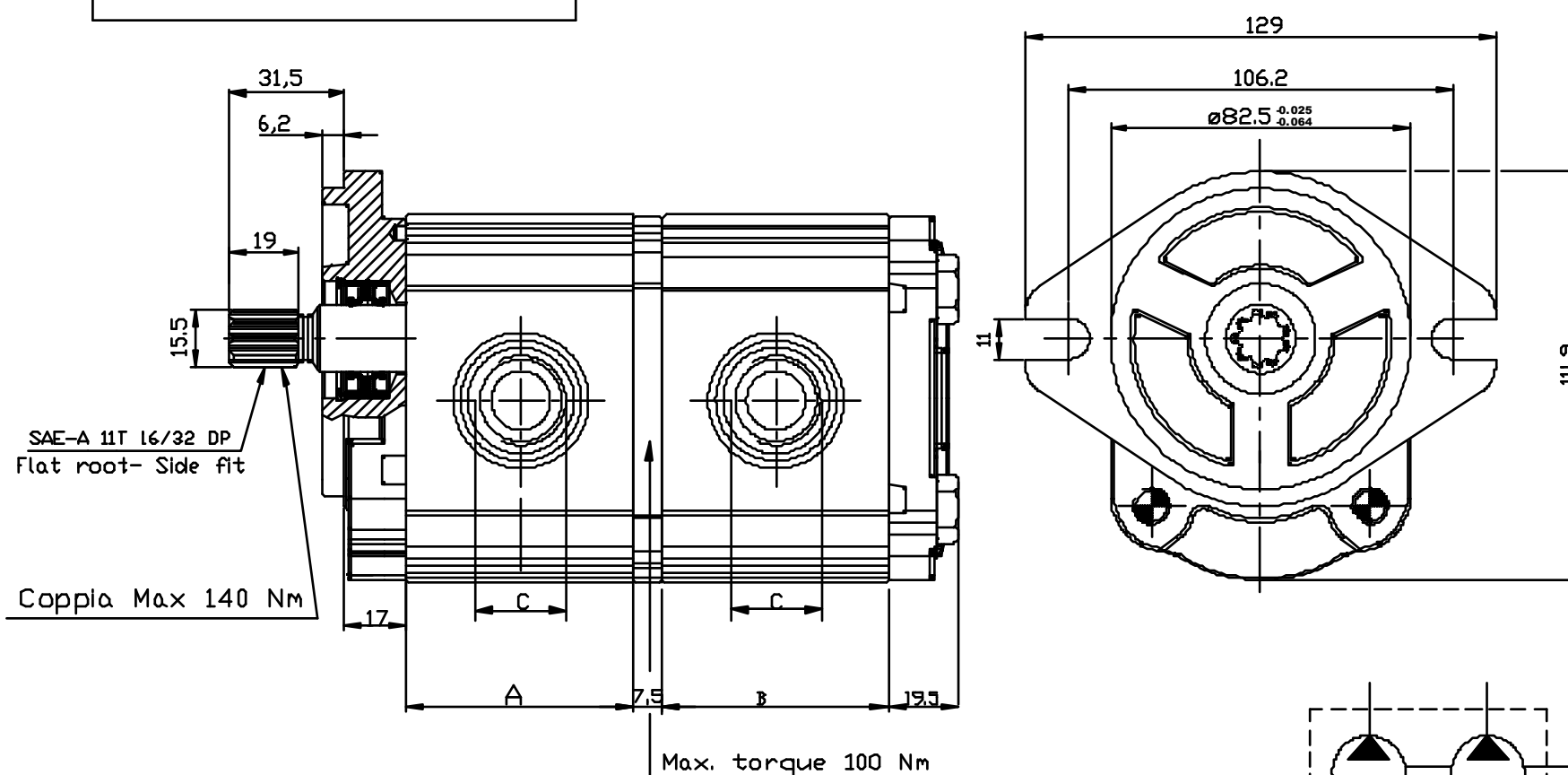
**OT200 P 16 / 06 S / R 21 S2 / 2**

Series	OT200
Pump	P
Front pump displacement ( see above table )	16
Second pump displacement ( see above table )	06
Rotation	S / R
SAE- A flange	21
SAE A -9T 16/32 DP shaft	S2
Body with O-ring boss ports	2



## GROUP 2 PUMPS- TANDEM SAE "A" STANDARD

**VERSION: R20 S2**



**NOTE:** Preferibilmente la pompa posteriore dovrebbe essere di cilindrata inferiore

Type	Displacement  ( cc/rev )	Max working pressure P1 ( bar )	Peak pressure P3 ( bar )	Max speed  ( r.p.m)	Dimension A    B		Inlet port  C	Outlet port  C
					( mm )			
OT 200 P04	04,10	250	300	4000	48.00	48.00	7/8-14UNF-2B	7/8-14UNF-2B
OT 200 P06	06,20	250	300	3500	51.00	51.00		
OT 200 P08	08,20	250	300	3500	54.00	54.00		
OT 200 P11	11,20	250	300	3500	58.30	58.30		
OT 200 P14	14,00	240	300	3000	62.30	62.30	1-1/16-12UN-2B	
OT 200 P16	16,00	240	300	3000	65.20	65.20		
OT 200 P20	20,00	200	240	3000	71.00	71.00		
OT 200 P22	22,50	170	210	2500	82.70	82.70		
OT 200 P25	25,10	170	210	2500	86.50	86.50		
OT 200 P28	28,00	140	180	2500	90.70	90.70		
OT 200 P30	30,00	130	170	2000	93.50	93.50		

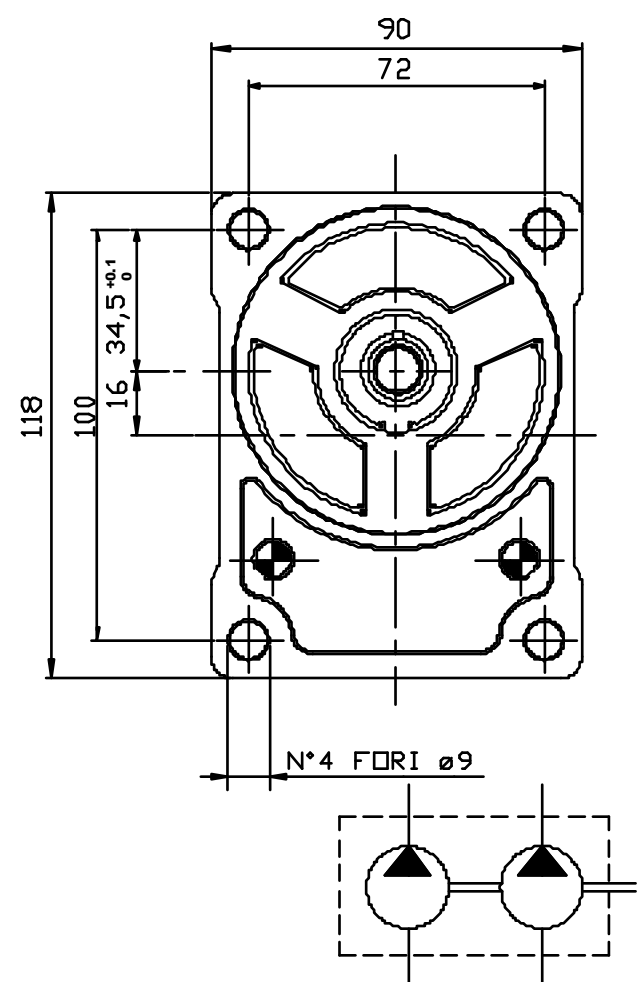
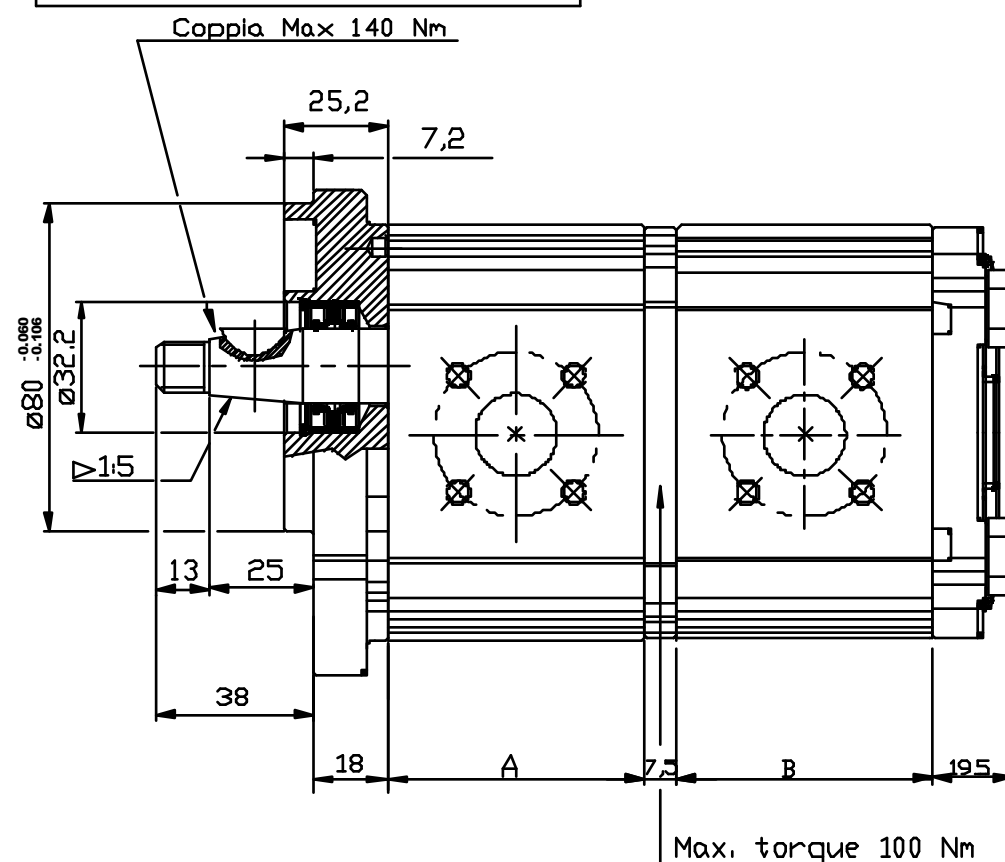
### EXAMPLE OF ORDERING CODE

**OT200 P 16 / 06 S / R 20 S2 / 2**

Series	OT200
Pump	P
Front pump displacement ( see above table )	16
Second pump displacement ( see above table )	06
Rotation	S / R
SAE A flange	20
SAE A -11T 16/32 DP shaft	S2
Body with O-ring boss ports	2

## POMPE GRUPPO 2- TANDEM STANDARD TEDESCO

**VERSIONE: B25 B2**



**NOTE:** Preferibilmente la pompa posteriore dovrebbe essere di cilindrata inferiore

Tipo	Cilindrata ( cc/giro )	Pressione massima continua P1 ( bar )	Pressione di punta P3 ( bar )	Velocità massima ( giri/min. )	Dimensione		Inlet port			Outlet port		
					A	B	ØD	ØA	W	ØD	ØA	W
OT 200 P04	04,10	250	300	4000	48.00	48.00	20	40	M6	15	35	M6
OT 200 P06	06,20	250	300	3500	51.00	51.00	20	40	M6	15	35	M6
OT 200 P08	08,20	250	300	3500	54.00	54.00	20	40	M6	15	35	M6
OT 200 P11	11,20	250	300	3500	58.30	58.30	20	40	M6	15	35	M6
OT 200 P14	14,00	240	300	3000	62.30	62.30	20	40	M6	15	35	M6
OT 200 P16	16,00	240	300	3000	65.20	65.20	20	40	M6	15	35	M6
OT 200 P20	20,00	200	240	3000	71.00	71.00	20	40	M6	15	35	M6
OT 200 P22	22,50	170	210	2500	82.70	82.70	20	40	M6	15	35	M6
OT 200 P25	25,10	170	210	2500	86.50	86.50	20	40	M6	15	35	M6
OT 200 P28	28,00	140	180	2500	90.70	90.70	20	40	M6	15	35	M6
OT 200 P30	30,00	130	170	2000	93.50	93.50	20	40	M6	15	35	M6

## ESEMPIO DI CODICE D'ORDINAZIONE

**OT200 P 16 / 06 S / B 25 B2 / 2**

Serie	P	16	/	06	S	/	B	25	B2	/	2	1 = Una aspirazione 2 = Due aspirazioni
Pompa												Flangia Standard Tedesco
Cilindrata pompa anteriore ( Vedi tabella )												Albero conico 1:5
Cilindrata pompa posteriore ( Vedi tabella )												Corpo con bocche a flangia
Rotazione												
S Sinistra												
D Destra												

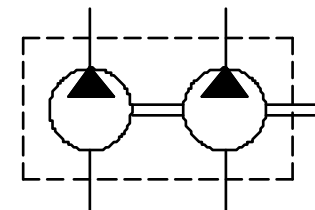
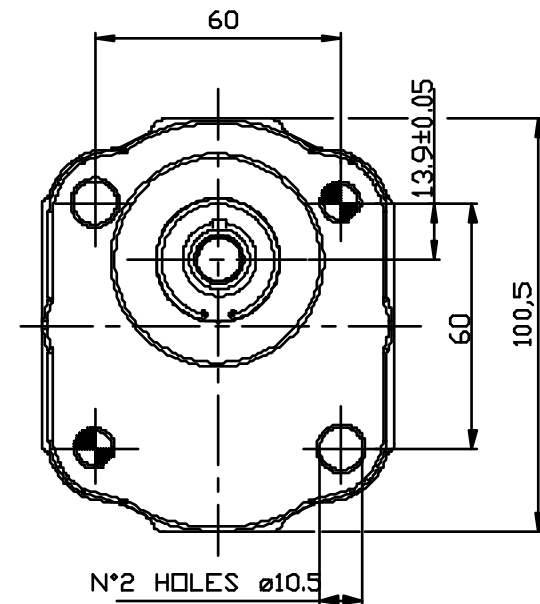
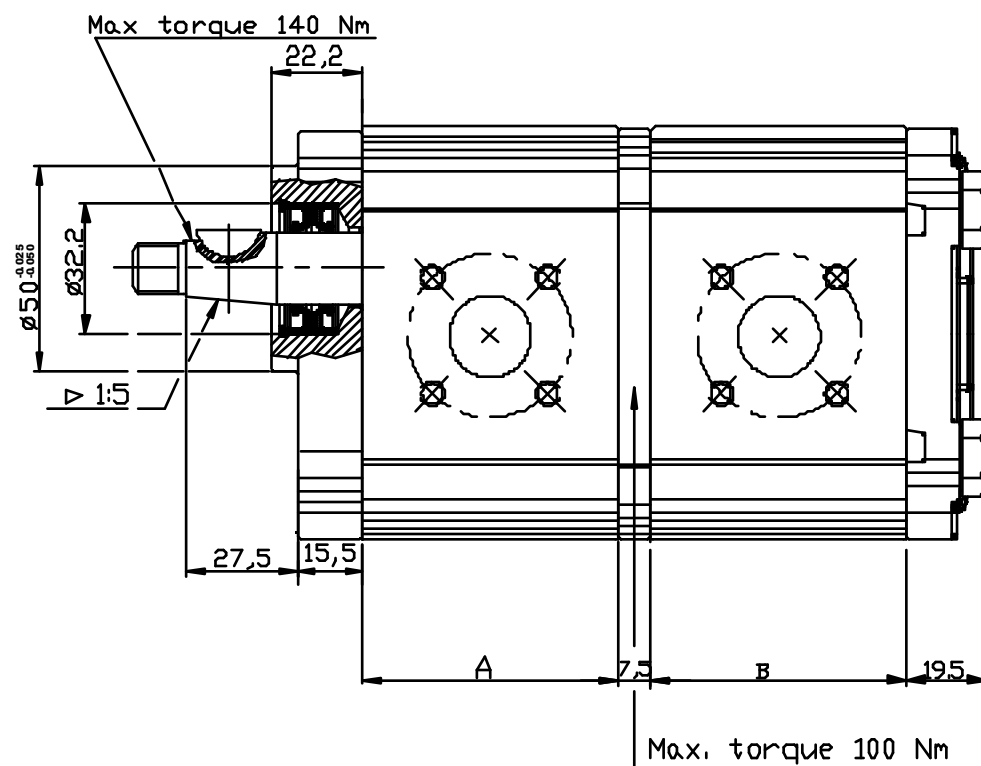






## GROUP 2 PUMPS- TANDEM GERMAN STANDARD

**VERSION: B25 B5**



**NOTE:** Preferibilmente la pompa posteriore dovrebbe essere di cilindrata inferiore

Type	Displacement  ( cc/rev )	Max working pressure P1 ( bar )	Peak pressure P3 ( bar )	Max speed ( r.p.m)	Dimension		Inlet port			Outlet port		
					A	B	ØD	ØA	W	ØD	ØA	W
					( mm )							
OT 200 P04	04,10	250	300	4000	48.00	48.00	20	40	M6	15	35	M6
OT 200 P06	06,20	250	300	3500	51.00	51.00	20	40	M6	15	35	M6
OT 200 P08	08,20	250	300	3500	54.00	54.00	20	40	M6	15	35	M6
OT 200 P11	11,20	250	300	3500	58.30	58.30	20	40	M6	15	35	M6
OT 200 P14	14,00	240	300	3000	62.30	62.30	20	40	M6	15	35	M6
OT 200 P16	16,00	240	300	3000	65.20	65.20	20	40	M6	15	35	M6
OT 200 P20	20,00	200	240	3000	71.00	71.00	20	40	M6	15	35	M6
OT 200 P22	22,50	170	210	2500	82.70	82.70	20	40	M6	15	35	M6
OT 200 P25	25,10	170	210	2500	86.50	86.50	20	40	M6	15	35	M6
OT 200 P28	28,00	140	180	2500	90.70	90.70	20	40	M6	15	35	M6
OT 200 P30	30,00	130	170	2000	93.50	93.50	20	40	M6	15	35	M6

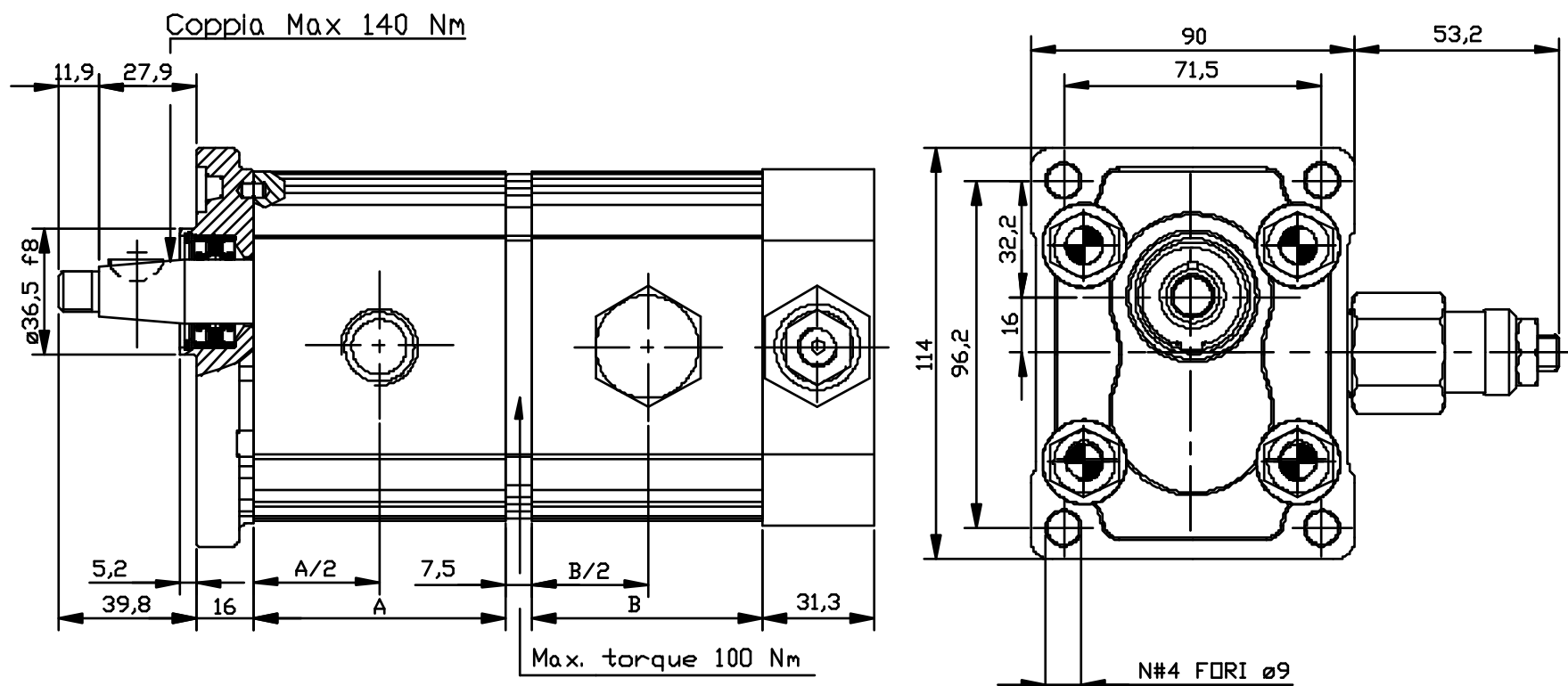
### EXAMPLE OF ORDERING CODE

**OT200 P 16 / 06 S / B 25 B5 / 2**

Series	OT200
Pump	P
Front pump displacement ( see above table )	16
Second pump displacement ( see above table )	06
Rotation	S
Body for German flanges	B
Taper shaft (1:5)	25
German standard flanges	B5
1 = One inlet port 2 = Two inlet ports	2

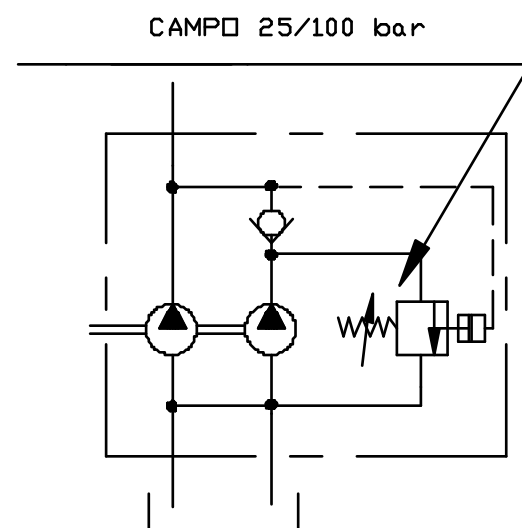
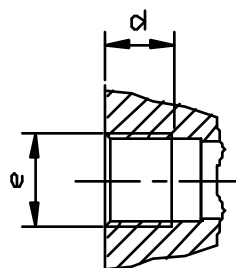
## POMPE GRUPPO 2- TANDEM CON SEQUENZA

### VERSIONE: G28 P2-SV



POMPA FRONTALE					POMPA POSTERIORE				
TIPO	P1	P3	A	Cy	TIPO	P1	P3	B	Cy
QT 200 P04	250	300	48.00	4.10	QT 200 P06	250	300	51.00	6.20
QT 200 P06	250	300	51.00	6.20	QT 200 P08	250	300	54.00	8.20
QT 200 P08	250	300	54.00	8.20	QT 200 P11	250	300	58.30	11.20
QT 200 P11	250	300	58.30	11.20	QT 200 P14	240	300	62.30	14.00
QT 200 P14	240	300	62.30	14.00	QT 200 P16	240	300	65.20	16.00
QT 200 P16	240	300	65.20	16.00	QT 200 P20	200	240	71.00	20.00
QT 200 P20	200	240	71.00	20.00	QT 200 P22	170	210	82.70	22.50
QT 200 P22	170	210	82.70	22.50	QT 200 P25	170	210	86.50	25.10
QT 200 P25	170	210	86.50	25.10					

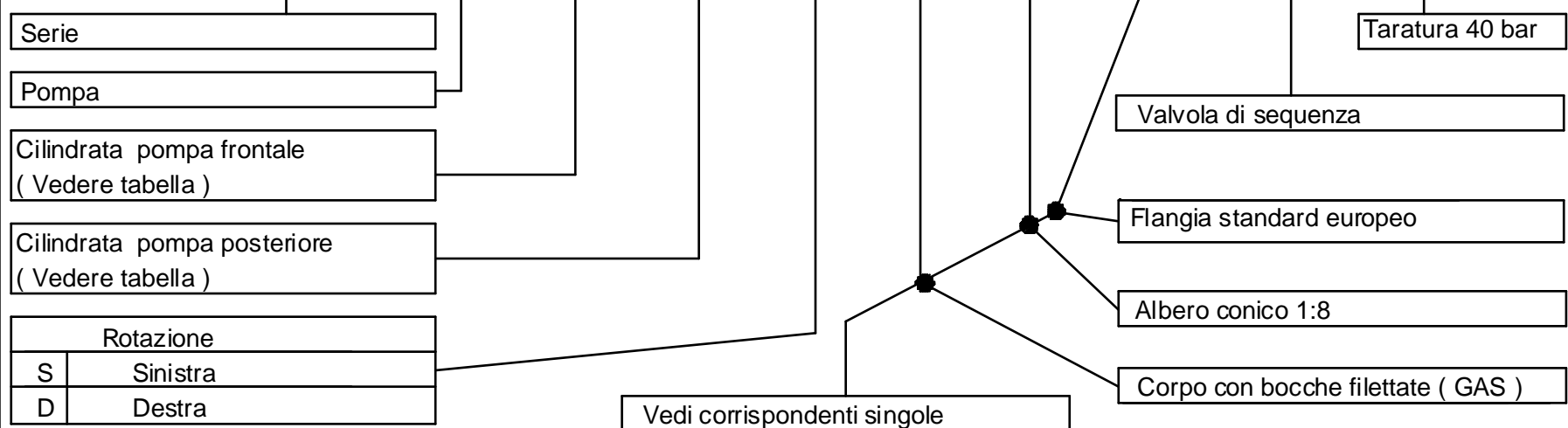
	Bocca di aspirazione		Bocca di mandata	
	e	d	e	d
da P04 a P11	G1/2	14	G1/2	14
da P14 a P25	G3/4	16		



P1 = PRESSIONE DI LAVORO (bar)  
P3 = PRESSIONE DI PICCO (bar)  
Cy = CILINDRATA (cc/giro)

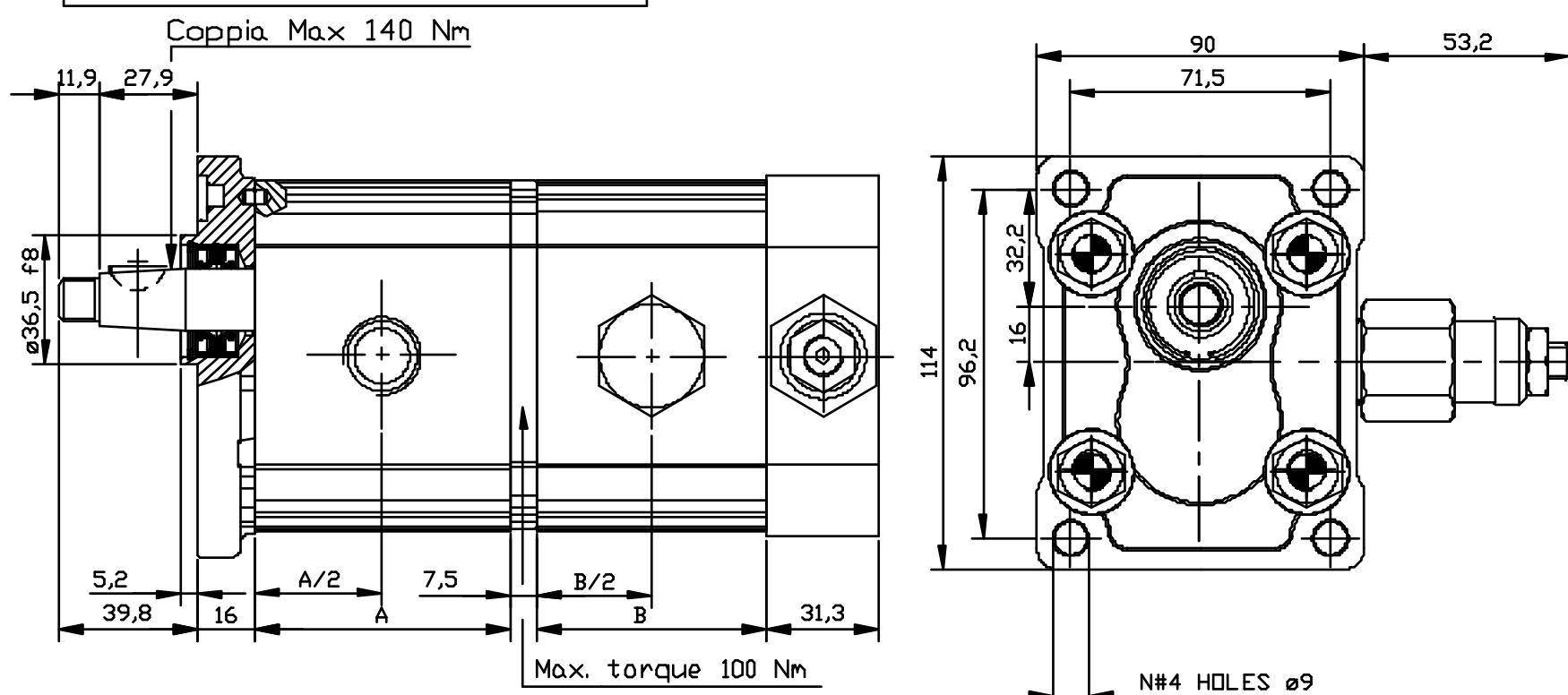
## ESEMPIO DI CODICE D'ORDINAZIONE

**OT200 P 11 / 08 S / G 28 P2 - SV 40**



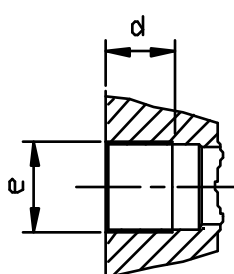
## GROUP 2 PUMPS- TANDEM WITH SEQUENCE VALVE HI-LOW

**VERSION: G28 P2-SV**

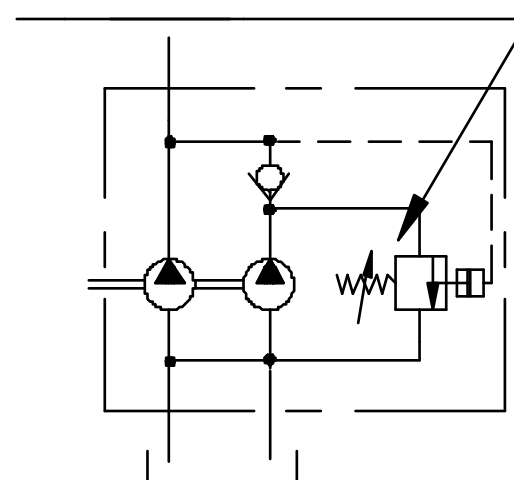


FIRST PUMP					SECOND PUMP				
TYPE	P1	P3	A	Cy	TYPE	P1	P3	B	Cy
OT 200 P04	250	300	48.00	4.10	OT 200 P06	250	300	51.00	6.20
OT 200 P06	250	300	51.00	6.20	OT 200 P08	250	300	54.00	8.20
OT 200 P08	250	300	54.00	8.20	OT 200 P11	250	300	58.30	11.20
OT 200 P11	250	300	58.30	11.20	OT 200 P14	240	300	62.30	14.00
OT 200 P14	240	300	62.30	14.00	OT 200 P16	240	300	65.20	16.00
OT 200 P16	240	300	65.20	16.00	OT 200 P20	200	240	71.00	20.00
OT 200 P20	200	240	71.00	20.00	OT 200 P22	170	210	82.70	22.50
OT 200 P22	170	210	82.70	22.50	OT 200 P25	170	210	86.50	25.10
OT 200 P25	170	210	86.50	25.10					

	Inlet port		Outlet port	
	e	d	e	d
P04 to P11	G1/2	14	G1/2	14
P14 to P25	G3/4	16	G1/2	14



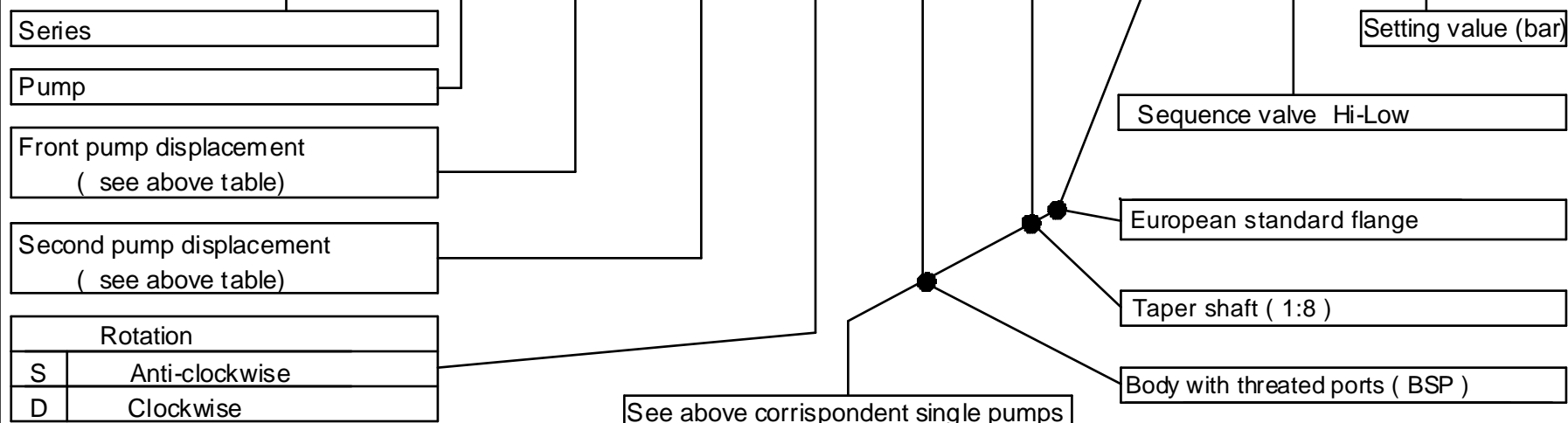
RANGE 25/100 bar



P1 = WORKING PRESSURE (bar)  
P3 = PEAK PRESSURE (bar)  
Cy = DISPLACEMENT (cc/rev)

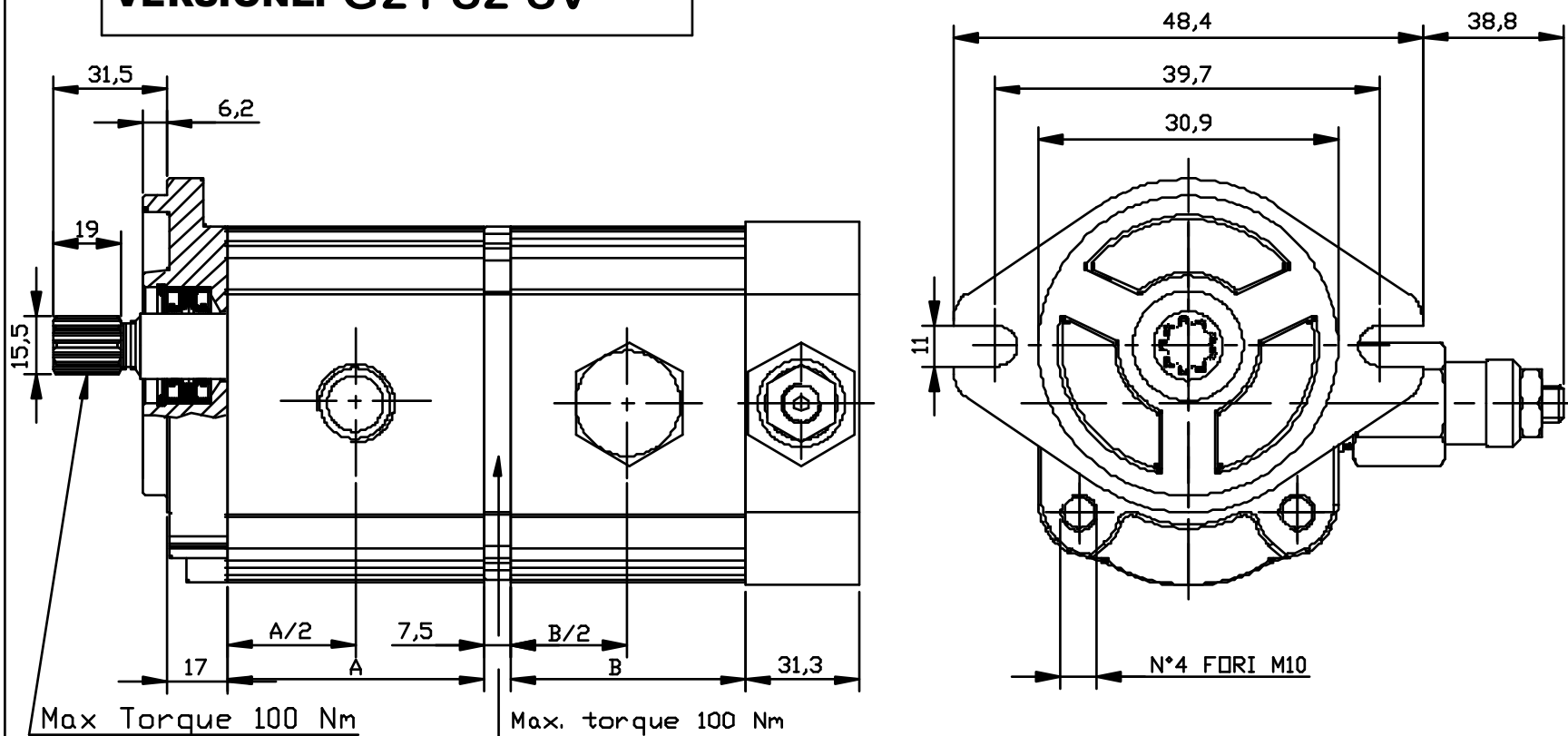
### EXAMPLE OF ORDERING CODE

**OT200 P 11 / 08 S / G 28 P2 - SV 40**



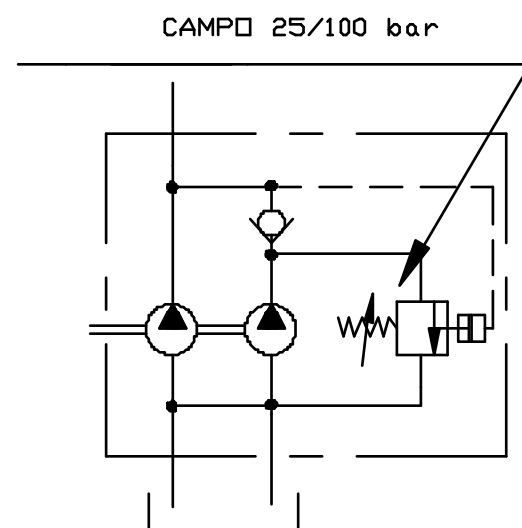
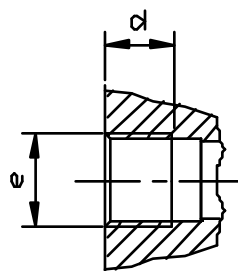
## POMPE GRUPPO 2- TANDEM CON SEQUENZA

**VERSIONE: G21 S2-SV**



POMPA FRONTALE					POMPA POSTERIORE				
TIPO	P1	P3	A	Cy	TIPO	P1	P3	B	Cy
OT 200 P04	250	300	48.00	4.10	OT 200 P06	250	300	51.00	6.20
OT 200 P06	250	300	51.00	6.20	OT 200 P08	250	300	54.00	8.20
OT 200 P08	250	300	54.00	8.20	OT 200 P11	250	300	58.30	11.20
OT 200 P11	250	300	58.30	11.20	OT 200 P14	240	300	62.30	14.00
OT 200 P14	240	300	62.30	14.00	OT 200 P16	240	300	65.20	16.00
OT 200 P16	240	300	65.20	16.00	OT 200 P20	200	240	71.00	20.00
OT 200 P20	200	240	71.00	20.00	OT 200 P22	170	210	82.70	22.50
OT 200 P22	170	210	82.70	22.50	OT 200 P25	170	210	86.50	25.10
OT 200 P25	170	210	86.50	25.10					

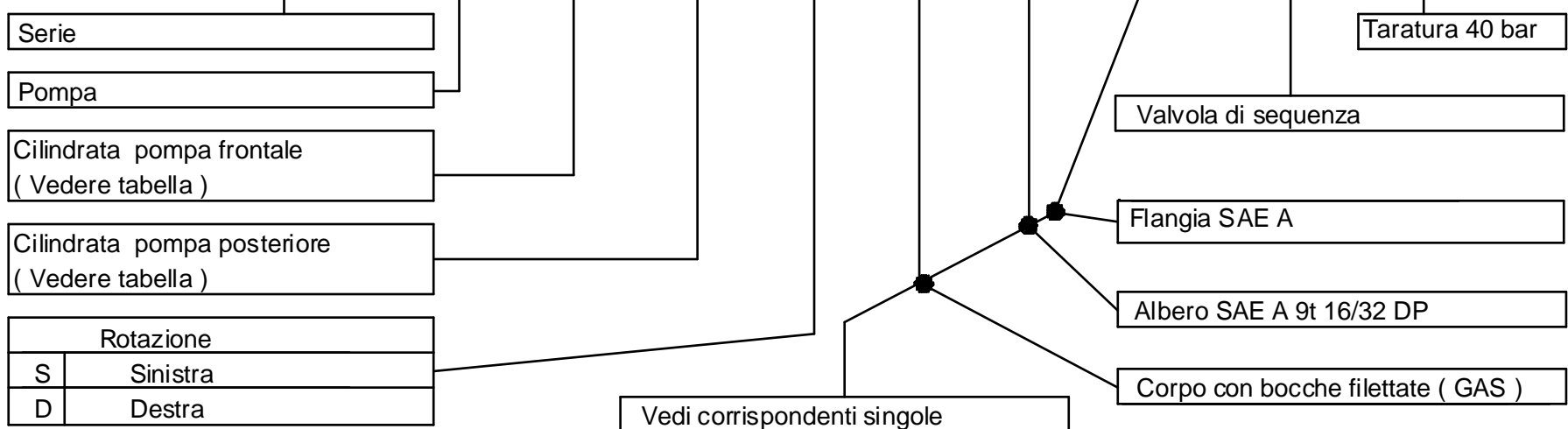
	Bocca di aspirazione		Bocca di mandata	
	e	d	e	d
da P04 a P11	G1/2	14	G1/2	14
da P14 a P25	G3/4	16		



P1 = PRESSIONE DI LAVORO (bar)  
P3 = PRESSIONE DI PICCO (bar)  
Cy = CILINDRATA (cc/giro)

## ESEMPIO DI CODICE D'ORDINAZIONE

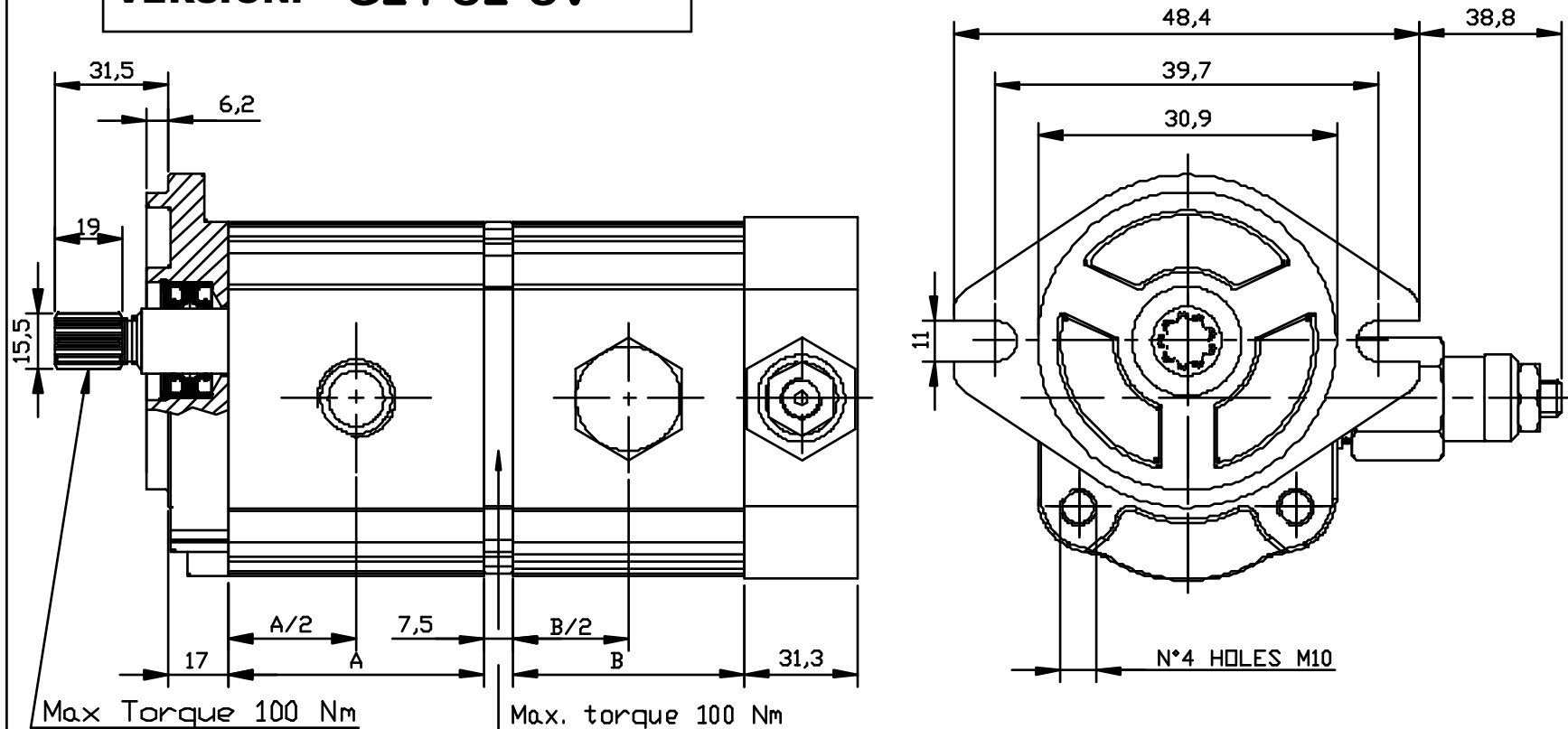
**OT200 P 11 / 08 S / G 21 S2 - SV 40**





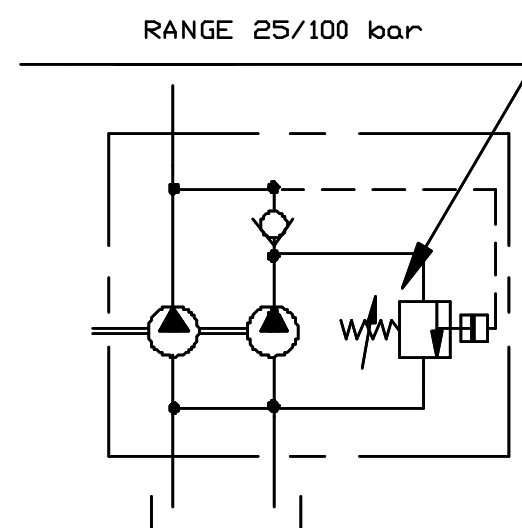
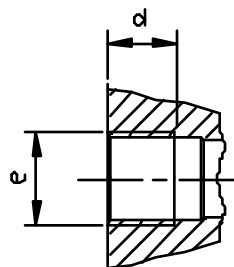
## GROUP 2 PUMPS- TANDEM WITH SEQUENCE VALVE HI-LOW

**VERSION: G21 S2-SV**



FIRST PUMP					SECOND PUMP				
TYPE	P1	P3	A	Cy	TYPE	P1	P3	B	Cy
OT 200 P04	250	300	48.00	4.10	OT 200 P06	250	300	51.00	6.20
OT 200 P06	250	300	51.00	6.20	OT 200 P08	250	300	54.00	8.20
OT 200 P08	250	300	54.00	8.20	OT 200 P11	250	300	58.30	11.20
OT 200 P11	250	300	58.30	11.20	OT 200 P14	240	300	62.30	14.00
OT 200 P14	240	300	62.30	14.00	OT 200 P16	240	300	65.20	16.00
OT 200 P16	240	300	65.20	16.00	OT 200 P20	200	240	71.00	20.00
OT 200 P20	200	240	71.00	20.00	OT 200 P22	170	210	82.70	22.50
OT 200 P22	170	210	82.70	22.50	OT 200 P25	170	210	86.50	25.10
OT 200 P25	170	210	86.50	25.10					

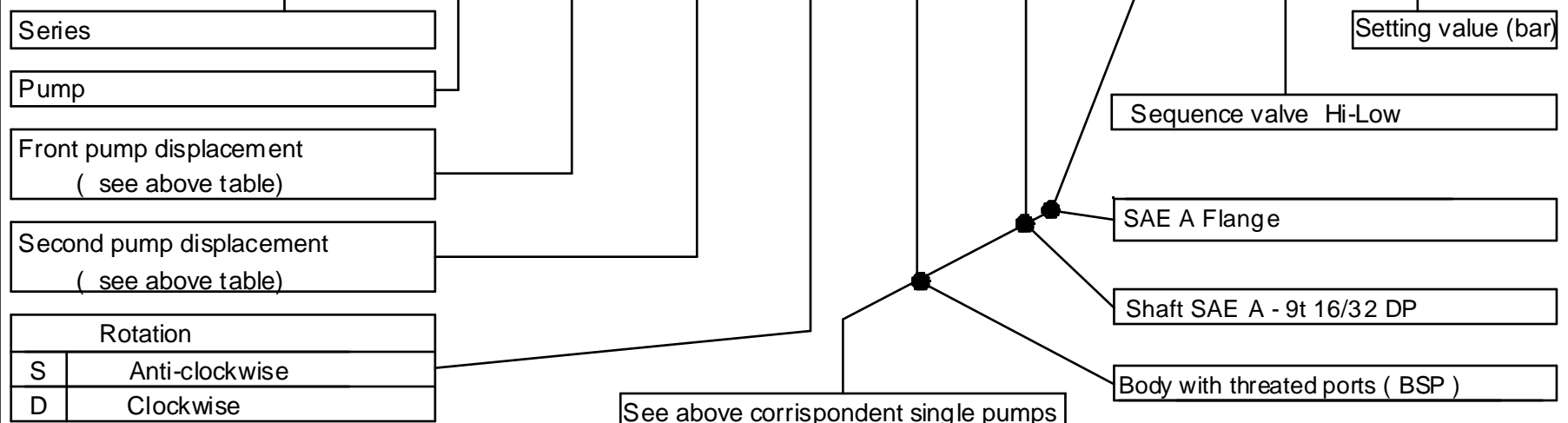
	e	d	e	d
P04 to P11	G1/2	14	G1/2	14
P14 to P25	G3/4	16	G1/2	14



P1 = WORKING PRESSURE (bar)  
P3 = PEAK PRESSURE (bar)  
Cy = DISPLACEMENT (cc/rev)

### EXAMPLE OF ORDERING CODE

**OT200 P 11 / 08 S / G 21 S2 - SV 40**







POMPE TANDEM - OT200 + OT100

VERSIONE: G28 P2

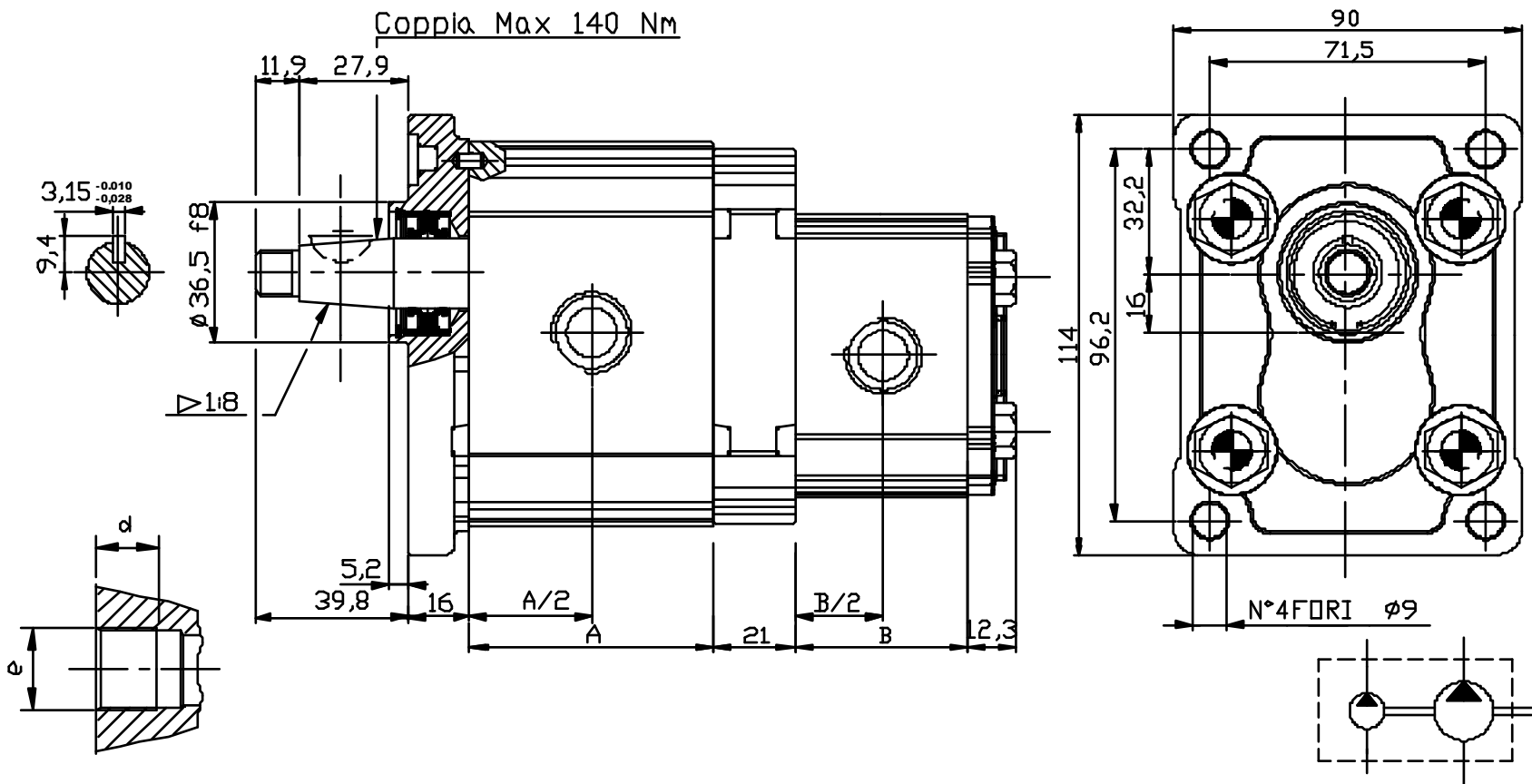


TABELLA OT200

Tipo	Cilindrata ( cc/giro )	Dim. A ( mm )	Bocca di aspirazione		Bocca di mandata	
			e	d	e	d
OT 200 P04	04,10	48.00	G1/2	14	G1/2	14
OT 200 P06	06,20	51.00	G1/2	14	G1/2	14
OT 200 P08	08,20	54.00	G1/2	14	G1/2	14
OT 200 P11	11,20	58.30	G1/2	14	G1/2	14
OT 200 P14	14,00	62.30	G3/4	16	G1/2	14
OT 200 P16	16,00	65.20	G3/4	16	G1/2	14
OT 200 P20	20,00	71.00	G3/4	16	G1/2	14
OT 200 P22	22,50	82.70	G3/4	16	G1/2	14
OT 200 P25	25,10	86.50	G3/4	16	G1/2	14
OT 200 P28	28,00	90.70	G3/4	16	G1/2	14
OT 200 P30	30,00	93.50	G3/4	16	G1/2	16

TABELLA OT100

Tipo	Cilindrata ( cc/giro )	Dim. B ( mm )	Bocca di aspirazione		Bocca di mandata	
			e	d	e	d
OT 100 P07	0.73	36.7	G3/8	14	G3/8	14
OT 100 P11	1.05	37.8	G3/8	14	G3/8	14
OT 100 P16	1.55	39.5	G3/8	14	G3/8	14
OT 100 P20	1.90	40.9	G3/8	14	G3/8	14
OT 100 P25	2.50	43.0	G3/8	14	G3/8	14
OT 100 P32	3.10	45.0	G3/8	14	G3/8	14
OT 100 P40	3.80	47.8	G3/8	14	G3/8	14
OT 100 P49	4.70	50.9	G3/8	14	G3/8	14
OT 100 P58	5.55	54.0	G1/2	14	G3/8	14
OT 100 P65	6.25	56.5	G1/2	14	G3/8	14
OT 100 P79	7.60	61.2	G1/2	14	G3/8	14

NOTE: Per definire le relative pressioni di funzionamento consultare i fogli delle corrispondenti pompe singole.

ESEMPIO DI CODICE D'ORDINAZIONE

OT200/100 P 16 / 32 S / G 28 P2 / 2

Serie	
Pompa	
Cilindrata pompa anteriore ( Vedi tabella 1- OT200 )	
Cilindrata pompa posteriore ( Vedi tabella 2- OT100 )	
Rotazione	
S	Sinistra
D	Destra

Due aspirazioni
Flangia standard Europeo
Albero conico 1:8
Corpo con bocche filettate ( GAS )

TANDEM PUMPS- OT200+ OT100

VERSION: G28 P2

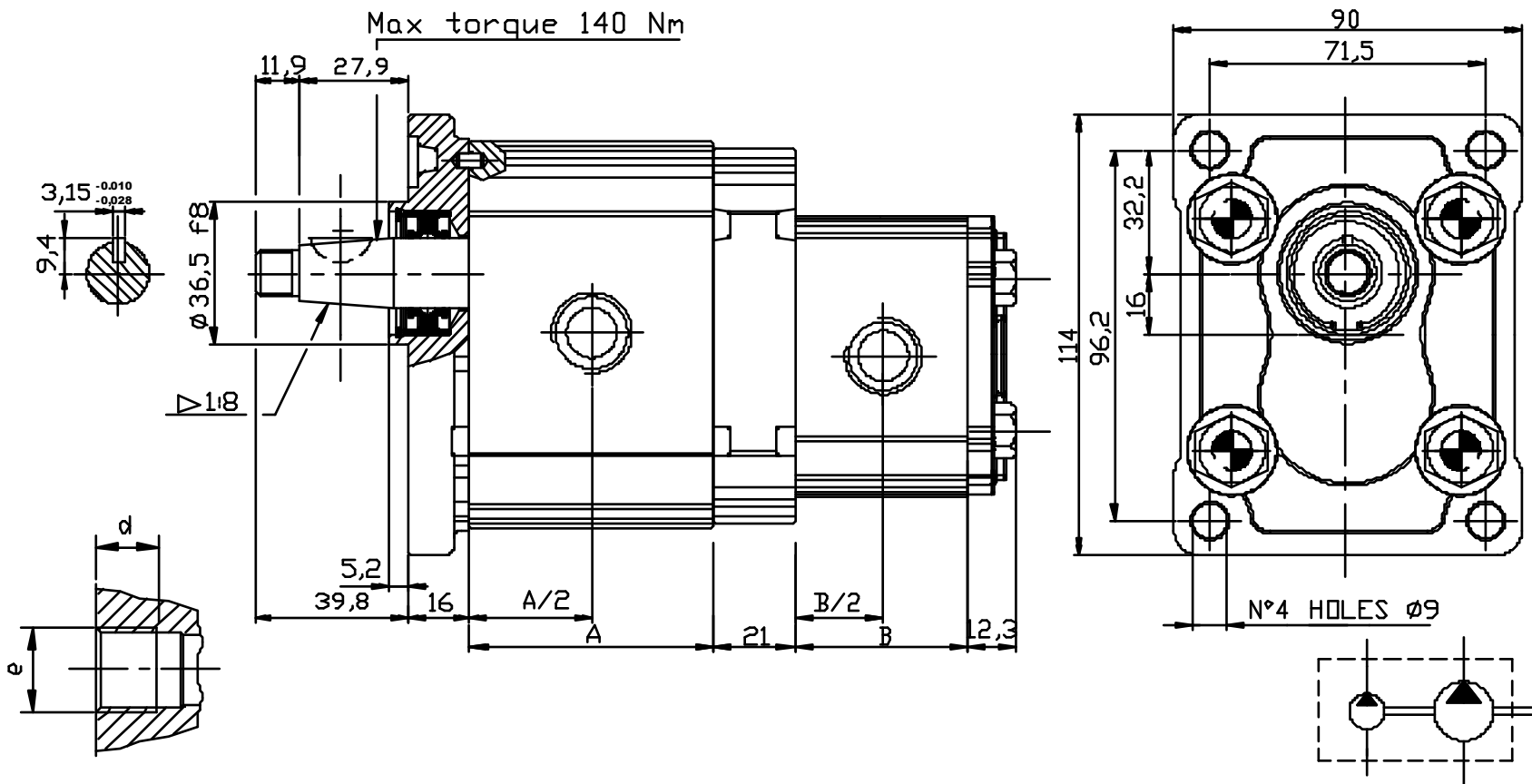


TABLE OT200

Type	Displacement ( cc/rev )	Dim. A ( mm )	Inlet port		Outlet port	
			e	d	e	d
OT 200 P04	04,10	48.00	G1/2	14	G1/2	14
OT 200 P06	06,20	51.00	G1/2	14	G1/2	14
OT 200 P08	08,20	54.00	G1/2	14	G1/2	14
OT 200 P11	11,20	58.30	G1/2	14	G1/2	14
OT 200 P14	14,00	62.30	G3/4	16	G1/2	14
OT 200 P16	16,00	65.20	G3/4	16	G1/2	14
OT 200 P20	20,00	71.00	G3/4	16	G1/2	14
OT 200 P22	22,50	82.70	G3/4	16	G1/2	14
OT 200 P25	25,10	86.50	G3/4	16	G1/2	14
OT 200 P28	28,00	90.70	G3/4	16	G1/2	14
OT 200 P30	30,00	93.50	G3/4	16	G1/2	14

TABLE OT100

	Displacement ( cc/rev )	Dim. B ( mm )	Inlet port		Outlet port	
			e	d	e	d
OT 100 P07	0.73	36.7	G3/8	14	G3/8	14
OT 100 P11	1.05	37.8	G3/8	14	G3/8	14
OT 100 P16	1.55	39.5	G3/8	14	G3/8	14
OT 100 P20	1.90	40.9	G3/8	14	G3/8	14
OT 100 P25	2.50	43.0	G3/8	14	G3/8	14
OT 100 P32	3.10	45.0	G3/8	14	G3/8	14
OT 100 P40	3.80	47.8	G3/8	14	G3/8	14
OT 100 P49	4.70	50.9	G3/8	14	G3/8	14
OT 100 P58	5.55	54.0	G1/2	14	G3/8	14
OT 100 P65	6.25	56.5	G1/2	14	G3/8	14
OT 100 P79	7.60	61.2	G1/2	14	G3/8	14

NOTE: Define relative working and peak pressure consulting relative single pump table.

EXAMPLE OF ORDERING CODE

OT200/100 P 16 / 32 S / G 28 P2 / 2

Series

Pump

Displacement front pump  
( See table1- OT200 )

Displacement second pump  
( See table2- OT100 )

Rotation

S Anti-clockwise  
D Clockwise

Two inlet ports

European standard flange

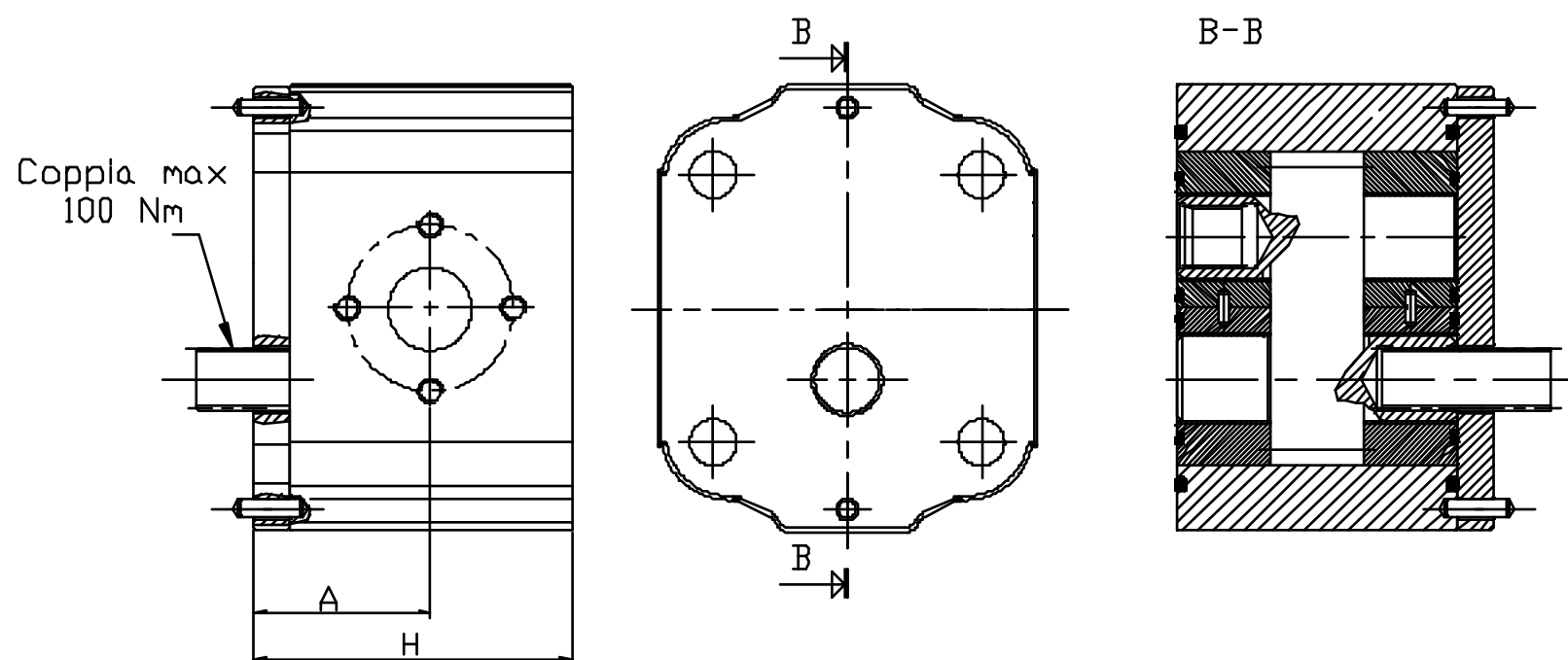
Taper shaft ( 1:8 )

Body with threaded ports  
( BSP )

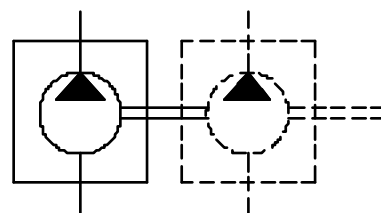


## POMPE GRUPPO 2 INTERMEDIE PER TANDEM

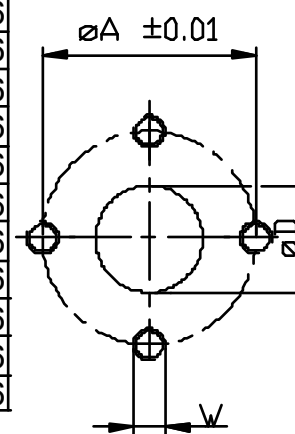
**VERSIONE: P X X INTERMEDIA**



NOTE : Coppia di serraggio viti 48 Nm



Tipo	Cilindrata ( cc/giro )	Pressione massima continua P1 ( bar )	Pressione di punta P3 ( bar )	Velocita' massima ( giri/min. )	Dimensione		Bocca di aspirazione			Bocca di mandata		
					H	A	ØD	ØA	W	ØD	ØA	W
					( mm )							
<b>OT 200 P04</b>	04,10	250	300	4000	55.50	31.50	13	30	M6	13	30	M6
<b>OT 200 P06</b>	06,20	250	300	3500	58.50	33.00	13	30	M6	13	30	M6
<b>OT 200 P08</b>	08,20	250	300	3500	61.50	34.50	13	30	M6	13	30	M6
<b>OT 200 P11</b>	11,20	250	300	3500	65.80	36.65	13	30	M6	13	30	M6
<b>OT 200 P14</b>	14,00	240	300	3000	69.80	36.65	20	40	M8	13	30	M6
<b>OT 200 P16</b>	16,00	240	300	3000	72.70	40.10	20	40	M8	13	30	M6
<b>OT 200 P20</b>	20,00	200	240	3000	78.50	43.00	20	40	M8	13	30	M6
<b>OT 200 P22</b>	22,50	170	210	2500	90.20	48.85	20	40	M8	13	30	M6
<b>OT 200 P25</b>	25,10	170	210	2500	94.00	50.75	20	40	M8	13	30	M6
<b>OT 200 P28</b>	28,00	140	180	2500	98.20	52.85	20	40	M8	13	30	M6
<b>OT 200 P30</b>	30,00	130	170	2000	101.00	54.25	20	40	M8	13	30	M6



### ESEMPIO DI CODICE D'ORDINAZIONE

**OT200 P 08 S / P X X INTERMEDIA**

Serie

Pompa

Cilindrata ( vedere tabella )

Rotazione

S Sinistra

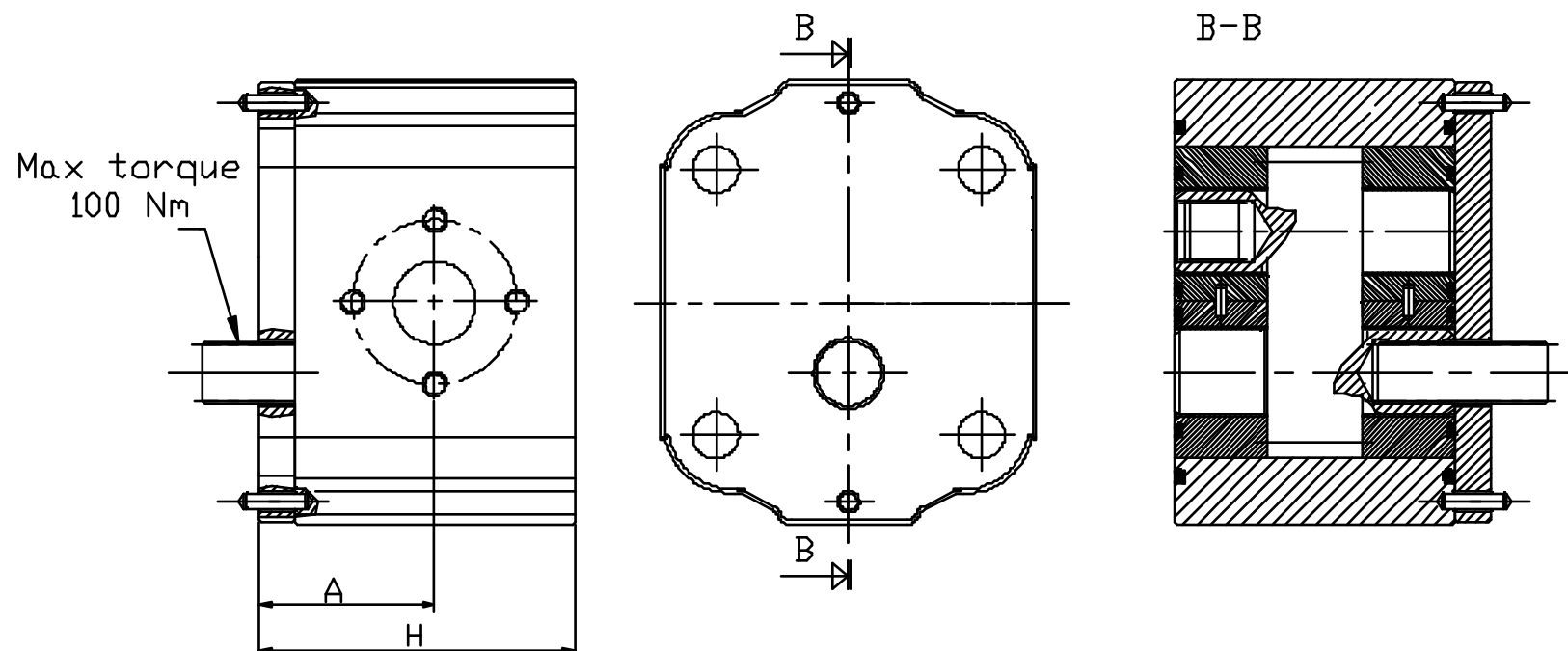
D Destra

Corpo con bocche a flangia

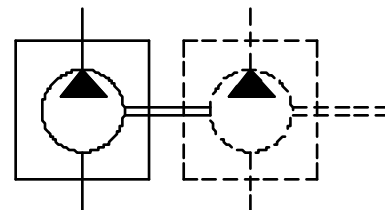


## INTERMEDIATE GROUP 2 PUMPS FOR TANDEM UNITS

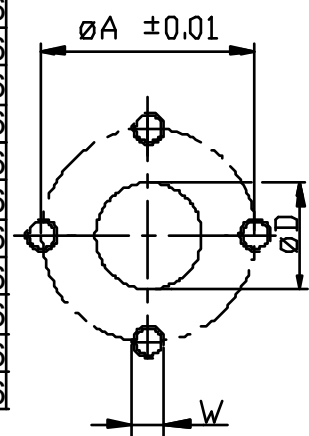
**VERSION : P X X INTERMEDIATE**



NOTE : Screw tightening torque 48 Nm



Type	Displacement ( cc/rev )	Max working pressure P1 ( bar )	Peak pressure P3 ( bar )	Max speed ( r.p.m )	Dimension		Inlet port			Outlet port		
					H	A	ØD	ØA	W	ØD	ØA	W
					( mm )							
<b>OT 200 P04</b>	04,10	250	300	4000	55.50	31.50	13	30	M6	13	30	M6
<b>OT 200 P06</b>	06,20	250	300	3500	58.50	33.00	13	30	M6	13	30	M6
<b>OT 200 P08</b>	08,20	250	300	3500	61.50	34.50	13	30	M6	13	30	M6
<b>OT 200 P11</b>	11,20	250	300	3500	65.80	36.65	13	30	M6	13	30	M6
<b>OT 200 P14</b>	14,00	240	300	3000	69.80	36.65	20	40	M8	13	30	M6
<b>OT 200 P16</b>	16,00	240	300	3000	72.70	40.10	20	40	M8	13	30	M6
<b>OT 200 P20</b>	20,00	200	240	3000	78.50	43.00	20	40	M8	13	30	M6
<b>OT 200 P22</b>	22,50	170	210	2500	90.20	48.85	20	40	M8	13	30	M6
<b>OT 200 P25</b>	25,10	170	210	2500	94.00	50.75	20	40	M8	13	30	M6
<b>OT 200 P28</b>	28,00	140	180	2500	98.20	52.85	20	40	M8	13	30	M6
<b>OT 200 P30</b>	30,00	130	170	2000	101.00	54.25	20	40	M8	13	30	M6



### EXAMPLE OF ORDERING CODE

**OT200 P 08 S / P X X INTERMEDIATE**

Series

Pump

Displacement ( see above table )

Rotation

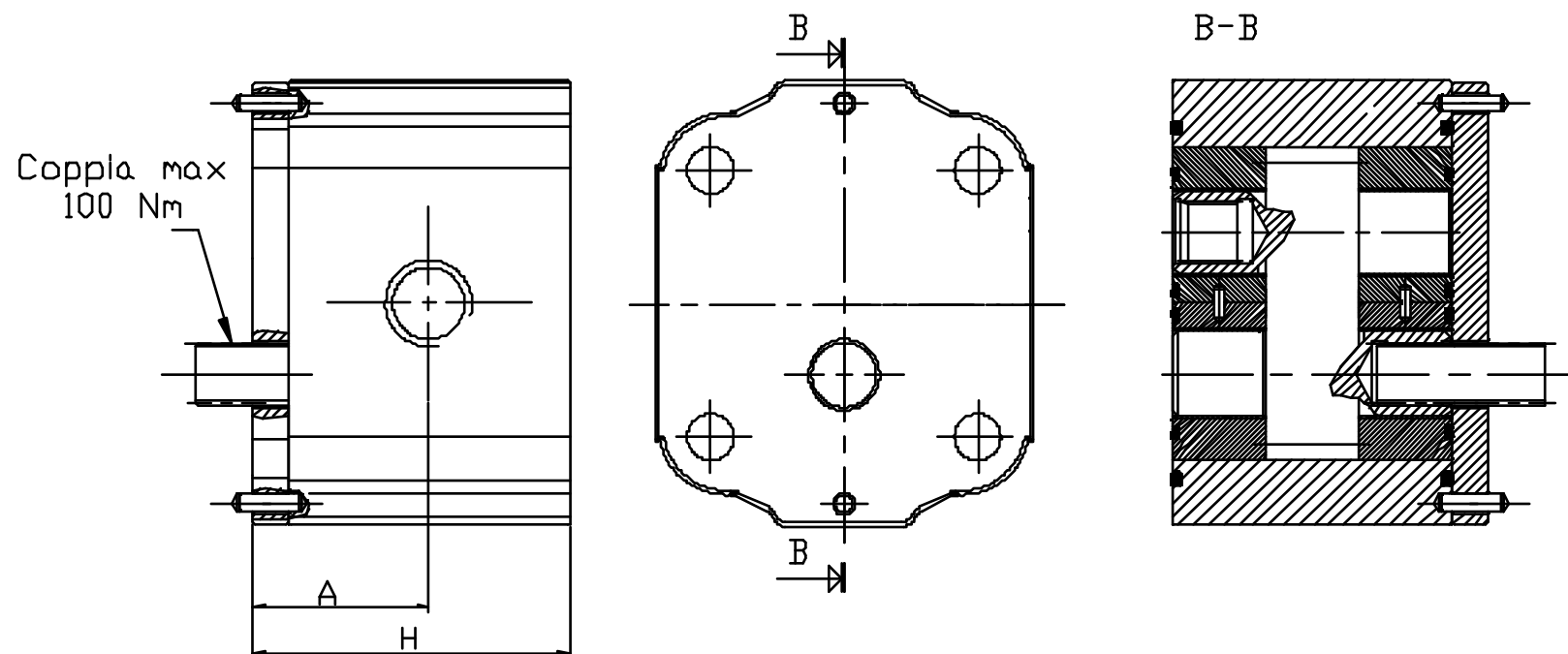
S Anti-clockwise

D Clockwise

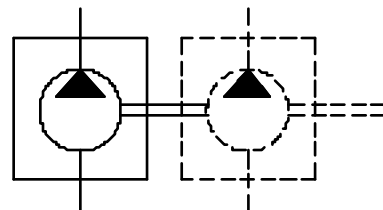
Body for European flanges

## POMPE GRUPPO 2 INTERMEDIE PER TANDEM

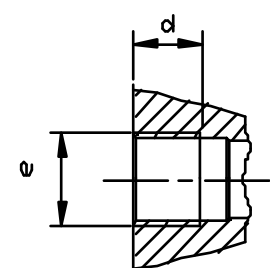
**VERSIONE: G X X INTERMEDIA**



NOTE : Coppia di serraggio viti 48 Nm



Tipo	Cilindrata  ( cc/giro )	Pressione massima continua P1  ( bar )	Pressione di punta P3  ( bar )	Velocita' massima  ( giri/min. )	Dimensione H    A		Bocca di aspirazione		Bocca di mandata	
					( mm )		e	d	e	d
OT 200 P04	04,10	250	300	4000	55.50	31.50	G1/2	14	G1/2	14
OT 200 P06	06,20	250	300	3500	58.50	33.00	G1/2	14	G1/2	14
OT 200 P08	08,20	250	300	3500	61.50	34.50	G1/2	14	G1/2	14
OT 200 P11	11,20	250	300	3500	65.80	36.65	G1/2	14	G1/2	14
OT 200 P14	14,00	240	300	3000	69.80	36.65	G3/4	16	G3/4	16
OT 200 P16	16,00	240	300	3000	72.70	40.10	G3/4	16	G3/4	16
OT 200 P20	20,00	200	240	3000	78.50	43.00	G3/4	16	G3/4	16
OT 200 P22	22,50	170	210	2500	90.20	48.85	G3/4	16	G3/4	16
OT 200 P25	25,10	170	210	2500	94.00	50.75	G3/4	16	G3/4	16
OT 200 P28	28,00	140	180	2500	98.20	52.85	G3/4	16	G3/4	16
OT 200 P30	30,00	130	170	2000	101.00	54.25	G3/4	16	G3/4	16



### ESEMPIO DI CODICE D'ORDINAZIONE

**OT200 P 08 S / G X X INTERMEDIA**

Serie

Pompa

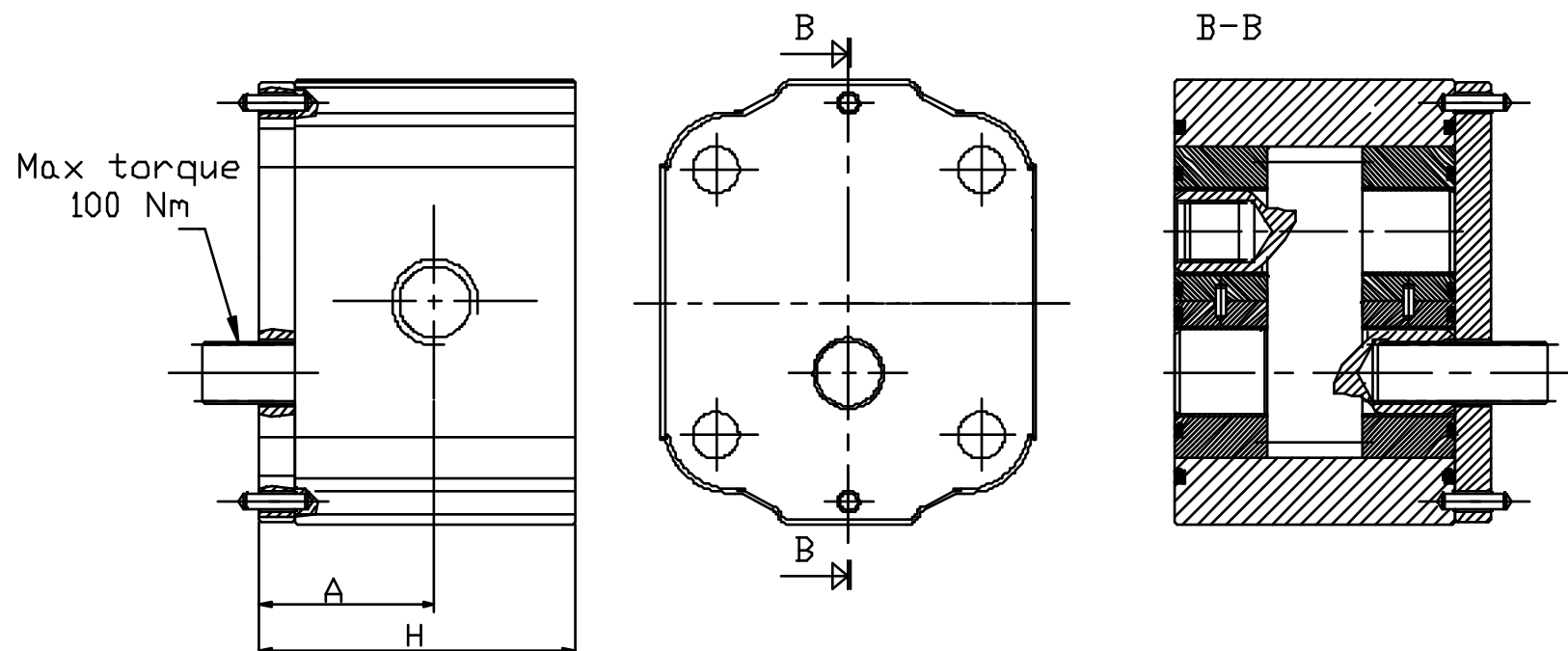
Cilindrata ( vedere tabella )

Rotazione	
S	Sinistra
D	Destra

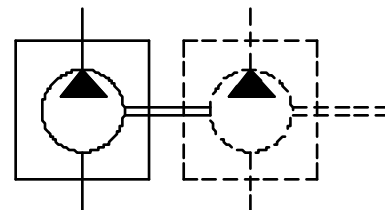
Corpo con bocche filettate (BSP)

## INTERMEDIATE GROUP 2 PUMPS FOR TANDEM UNITS

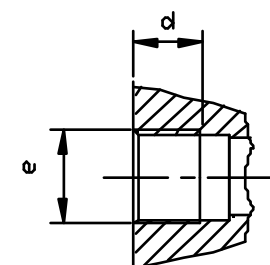
**VERSION : G X X INTERMEDIATE**



NOTE : Screw tightening torque 48 Nm



Type	Displacement ( cc/rev )	Max working pressure P1 ( bar )	Peak pressure P3 ( bar )	Max speed ( r.p.m )	Dimension		Inlet port		Outlet port	
					H	A	e	d	e	d
					( mm )					
<b>OT 200 P04</b>	04,10	250	300	4000	55.50	31.50	G1/2	14	G1/2	14
<b>OT 200 P06</b>	06,20	250	300	3500	58.50	33.00	G1/2	14	G1/2	14
<b>OT 200 P08</b>	08,20	250	300	3500	61.50	34.50	G1/2	14	G1/2	14
<b>OT 200 P11</b>	11,20	250	300	3500	65.80	36.65	G1/2	14	G1/2	14
<b>OT 200 P14</b>	14,00	240	300	3000	69.80	36.65	G3/4	16	G3/4	16
<b>OT 200 P16</b>	16,00	240	300	3000	72.70	40.10	G3/4	16	G3/4	16
<b>OT 200 P20</b>	20,00	200	240	3000	78.50	43.00	G3/4	16	G3/4	16
<b>OT 200 P22</b>	22,50	170	210	2500	90.20	48.85	G3/4	16	G3/4	16
<b>OT 200 P25</b>	25,10	170	210	2500	94.00	50.75	G3/4	16	G3/4	16
<b>OT 200 P28</b>	28,00	140	180	2500	98.20	52.85	G3/4	16	G3/4	16
<b>OT 200 P30</b>	30,00	130	170	2000	101.00	54.25	G3/4	16	G3/4	16



### EXAMPLE OF ORDERING CODE

**OT200 P 08 S / G X X INTERMEDIATE**

Series

Pump

Displacement ( see above table )

Rotation

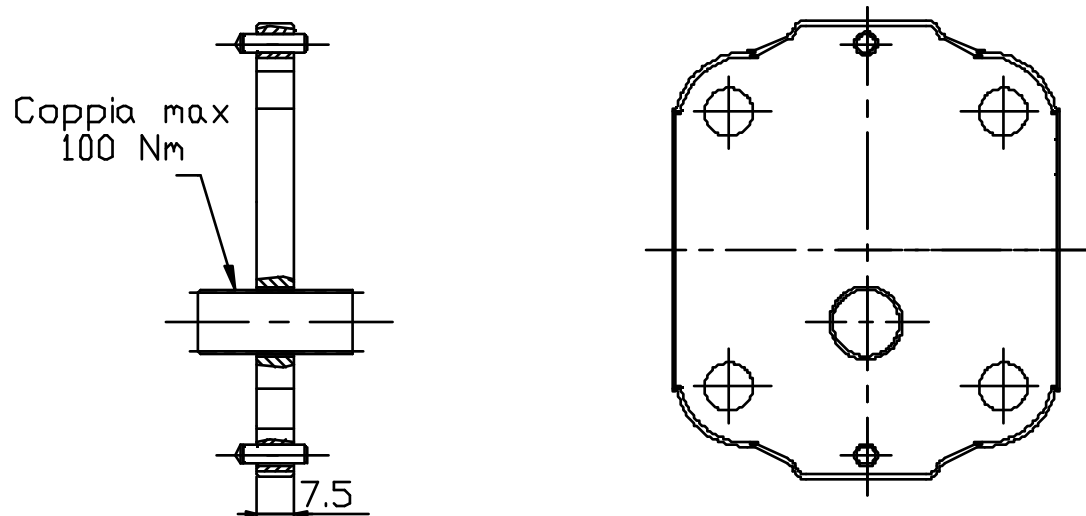
S Anti-clockwise

D Clockwise

Body with threaded ports ( BSP )

## COMPONENTI PER POMPE GRUPPO 2 TANDEM

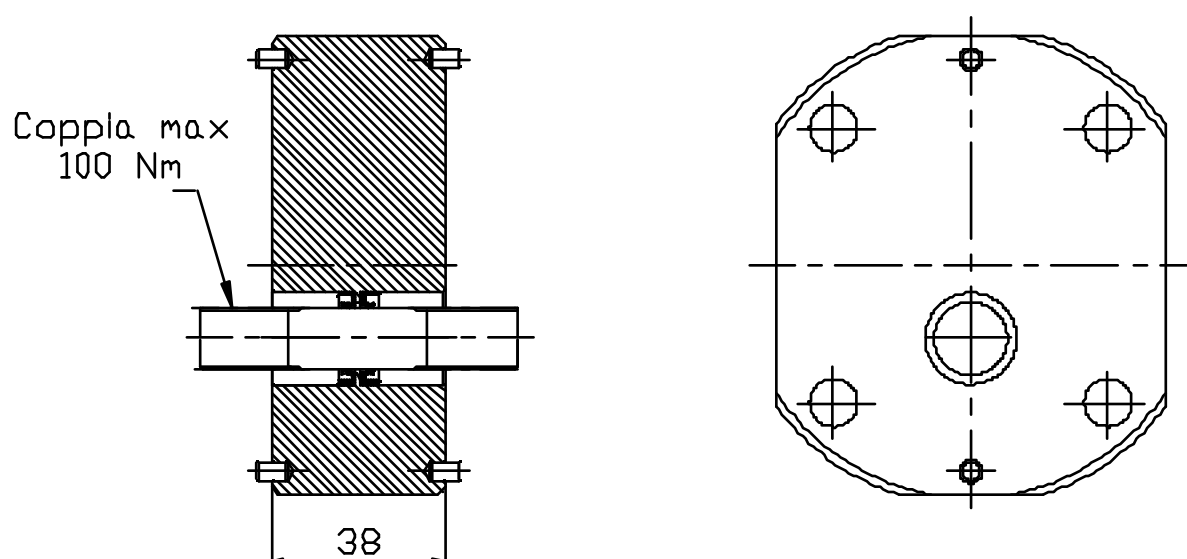
### KIT MONTAGGIO OT200+OT200



NOTE : Coppia di serraggio viti 48 Nm

**CODICE D'ORDINAZIONE: PS20370001**

### KIT MONTAGGIO OT200+OT200 PER STADI SEPARATI

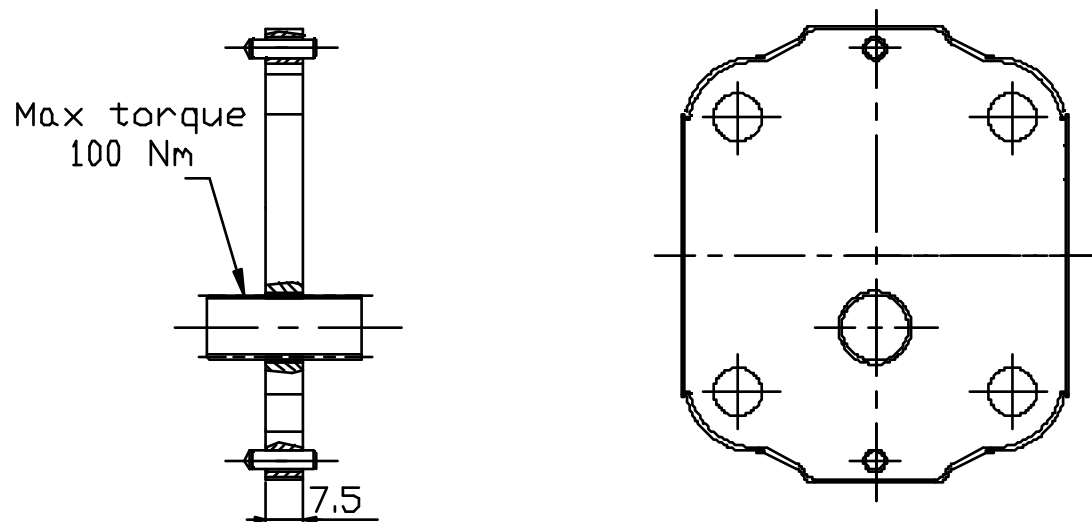


NOTE : Coppia di serraggio viti 48 Nm

**CODICE D'ORDINAZIONE: PS20370050**

## COMPONENTS FOR GROUP2 TANDEM PUMPS

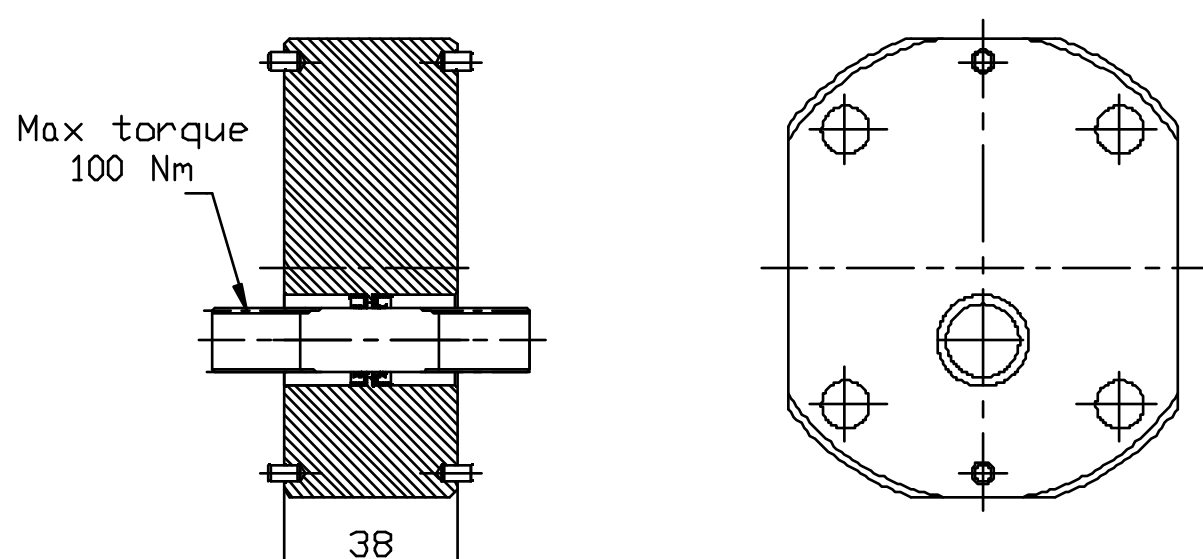
### OT 200+OT200 MOUNTING KIT



NOTE : Screw tightening torque 48 Nm

**ORDERING CODE: PS20370001**

### OT200+OT200 MOUNTING KIT FOR SEPARATE UNITS



NOTE : Screw tightening torque 48 Nm

**ORDERING CODE: PS20370050**

## MOTORI GRUPPO 2

### PARAMETRI DI FUNZIONAMENTO MOTORI UNIDIREZIONALI OT200

MOTORE TIPO	CILINDRATA	PRESSIONE MAX.			VELOCITA' MAX	VELOCITA' MIN
		P1	P2	P3		
	cm³ / giro	bar			giri/min	giri/min
OT200 M04	4.1	230	260	280	4000	600
OT200 M06	6.2	250	280	300		
OT200 M08	8.2					
OT200 M11	11.2					
OT200 M14	14.0					
OT200 M16	16.0				3000	500
OT200 M20	20.0	200	220	240		
OT200 M22	22.5	170	190	210	2500	
OT200 M25	25.1					
OT200 M28	28.0	130	150	170	2000	
OT200 M30	30.0					

P1= Pressione max. continua

P2= Pressione max. intermittente

P3= Pressione max. di punta

**PER LE DIMENSIONI GEOMETRICHE CONSULTARE  
I DATI TECNICI DELLE RISPETTIVE POMPE SINGOLE**



GROUP2 MOTORS

OT200 SINGLE ROTATION MOTORS GENERAL DATA

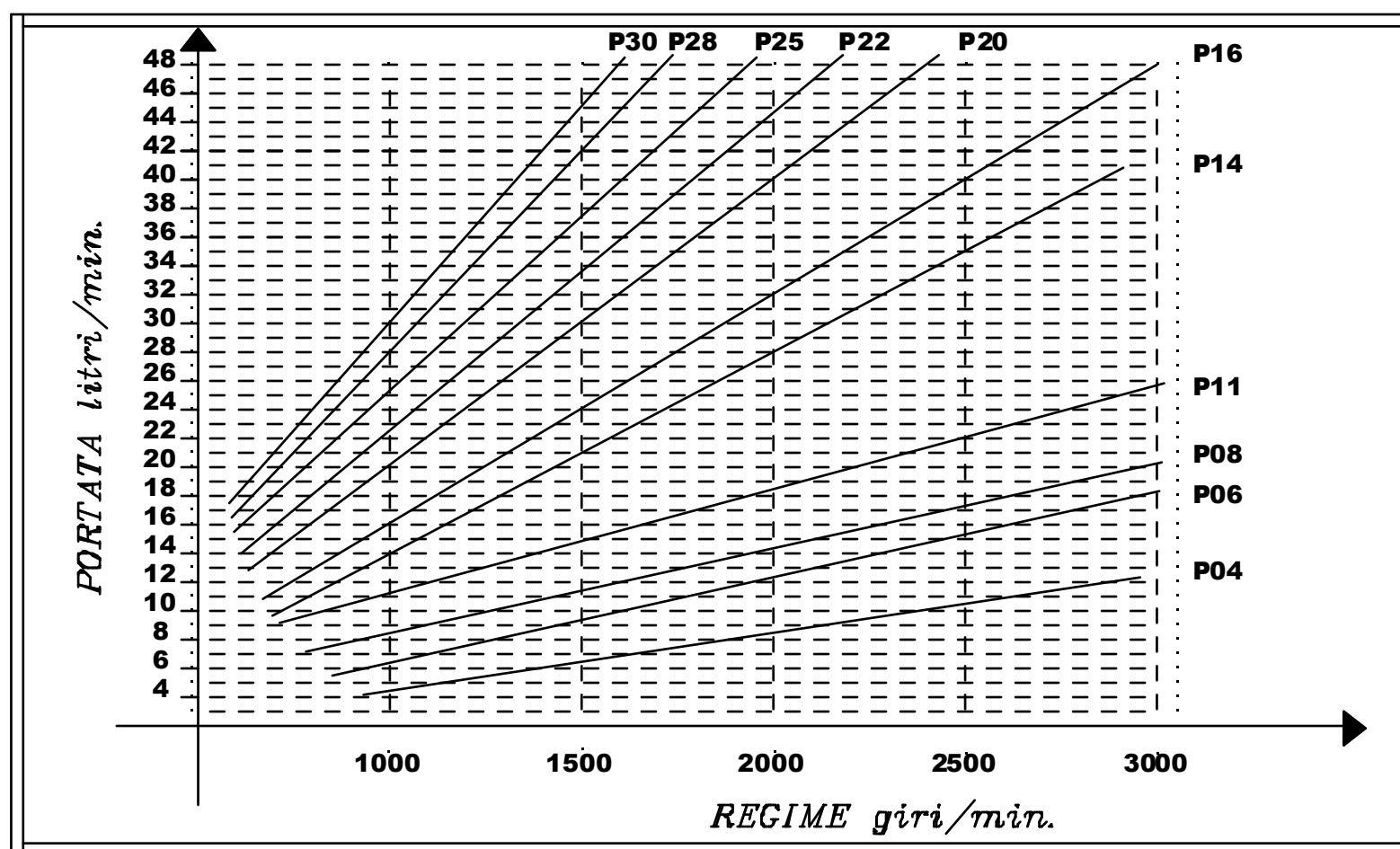
MOTOR TYPE	DISPLACEMENT	MAX. PRESSURE			MAX. SPEED	MIN. SPEED
		P1	P2	P3		
	cc / rev	bar			rpm	rpm
OT200 M04	4.1	230	260	280	4000	600
OT200 M06	6.2	250	280	300		
OT200 M08	8.2					
OT200 M11	11.2					
OT200 M14	14.0					
OT200 M16	16.0				3000	500
OT200 M20	20.0	200	220	240		
OT200 M22	22.5	170	190	210	2500	
OT200 M25	25.1					
OT200 M28	28.0	130	150	170	2000	
OT200 M30	30.0					

P1= Max. continuous pressure                      P2= Max. intermittent pressure                      P3= Max. peak pressure

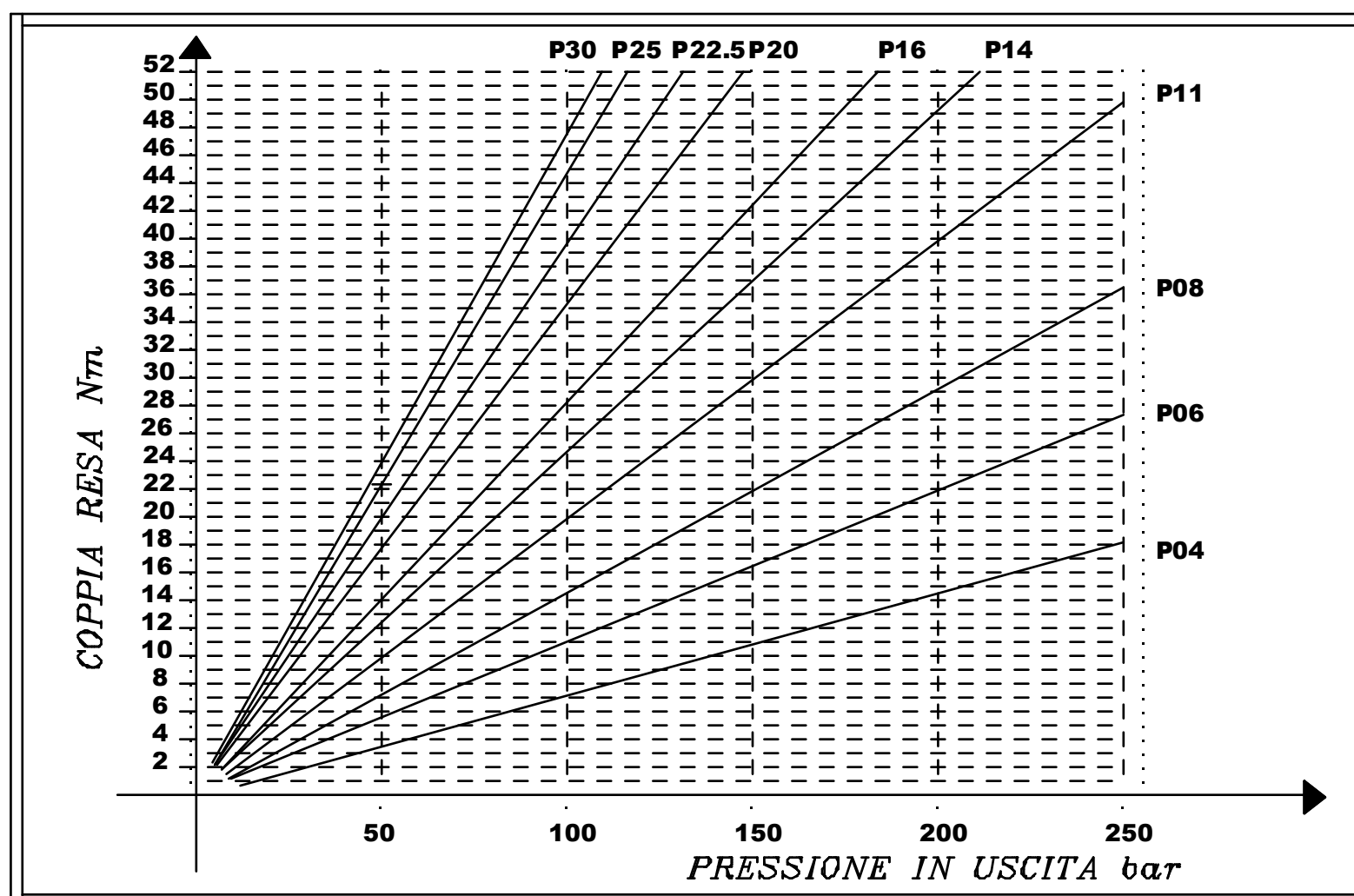
FOR DIMENSION PLEASE CHECK  
RELATIVE SINGLE PUMP TABLES

## MOTORI GRUPPO 2

### CURVE CARATTERISTICHE DI PORTATA



### COPPIA RESA

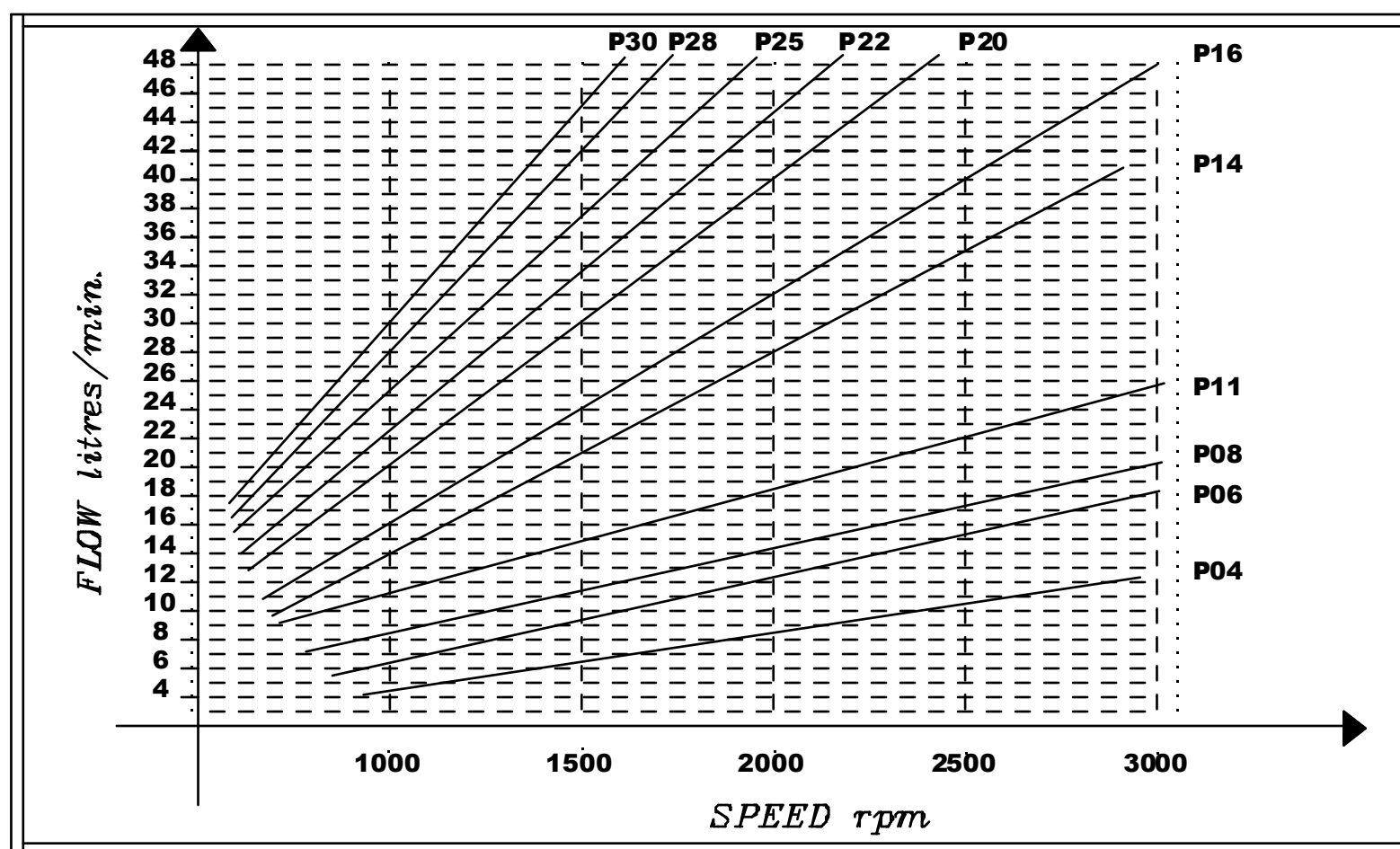


### NOTE

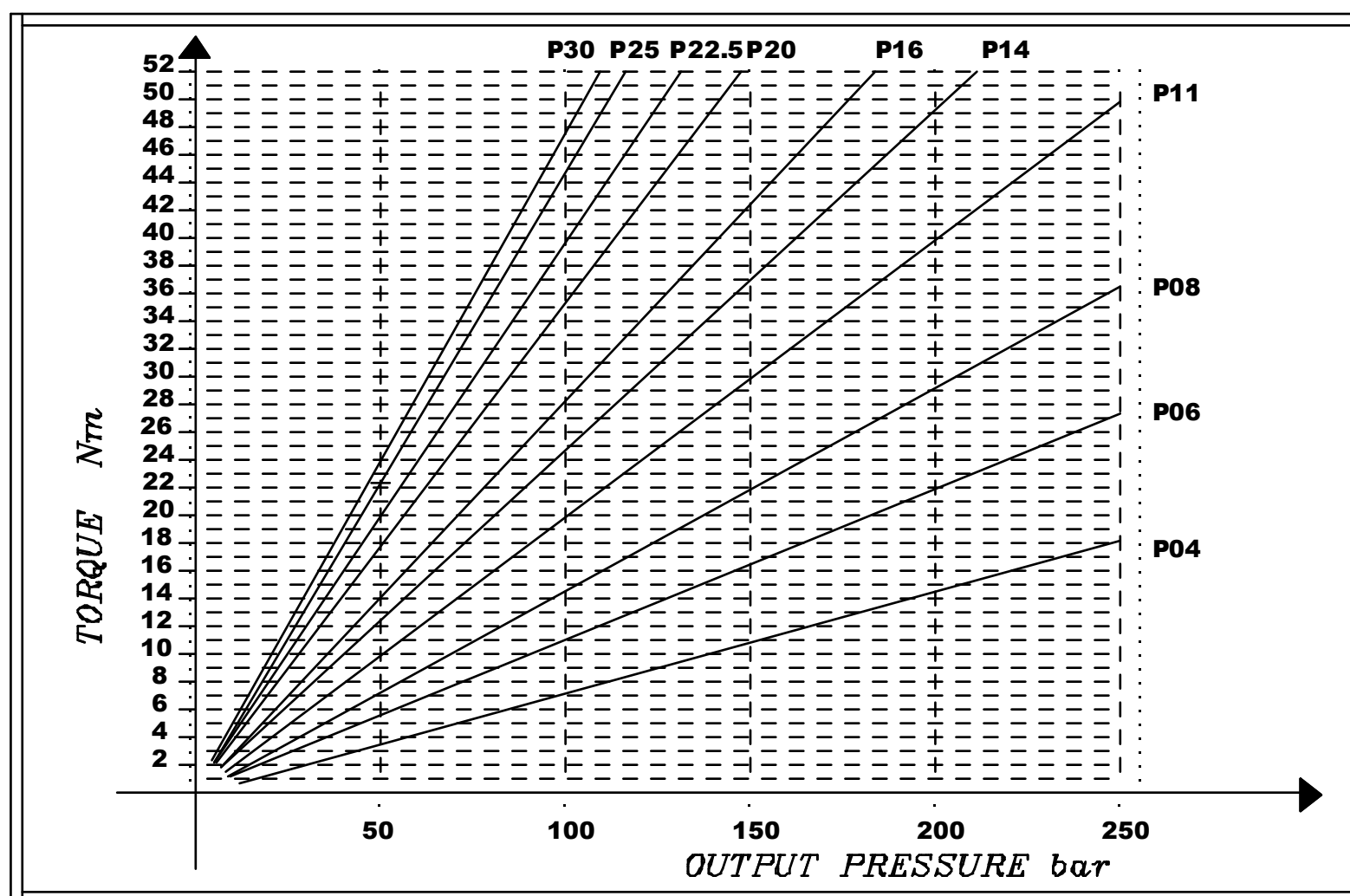
Le curve caratteristiche di portata sono state tracciate alla pressione P1

## GROUP2 MOTORS

### FLOW CHARACTERISTICS CURVES



### ABSORBED TORQUE

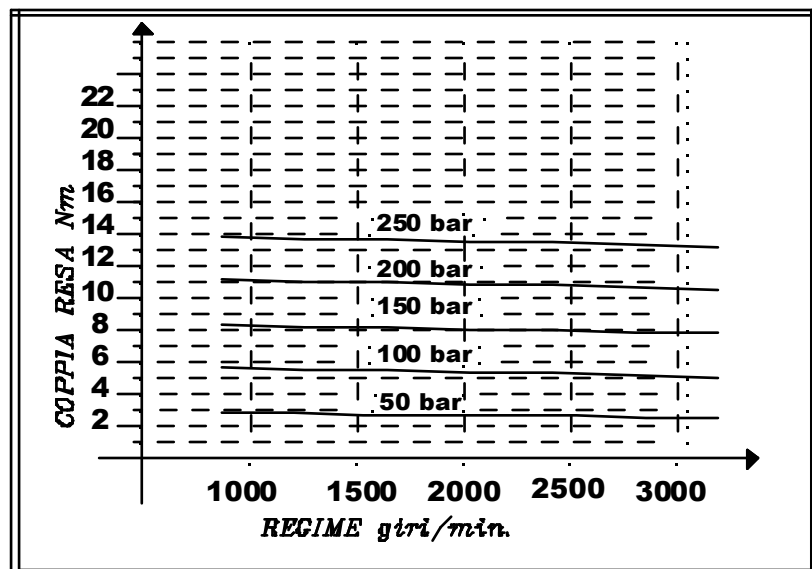


### NOTE

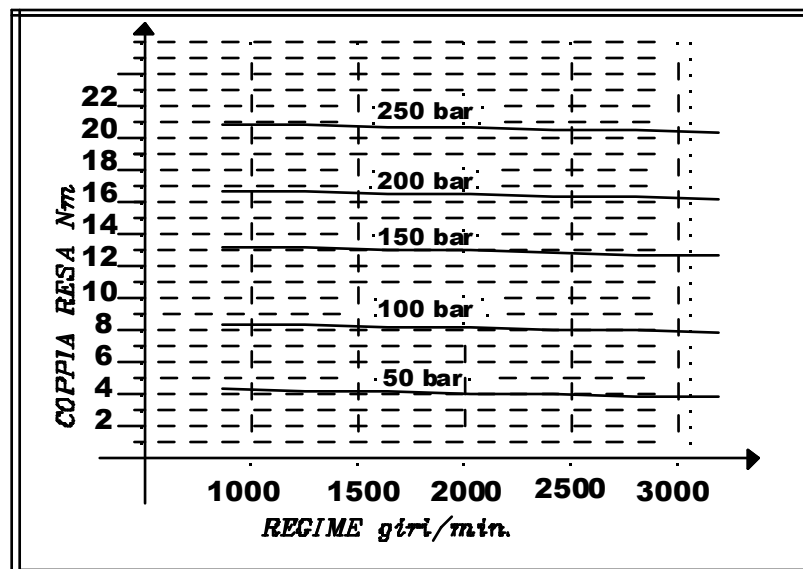
The flow characteristics curves have been made at P1 pressure.

## MOTORI GRUPPO 2 CURVE CARATTERISTICHE COPPIA

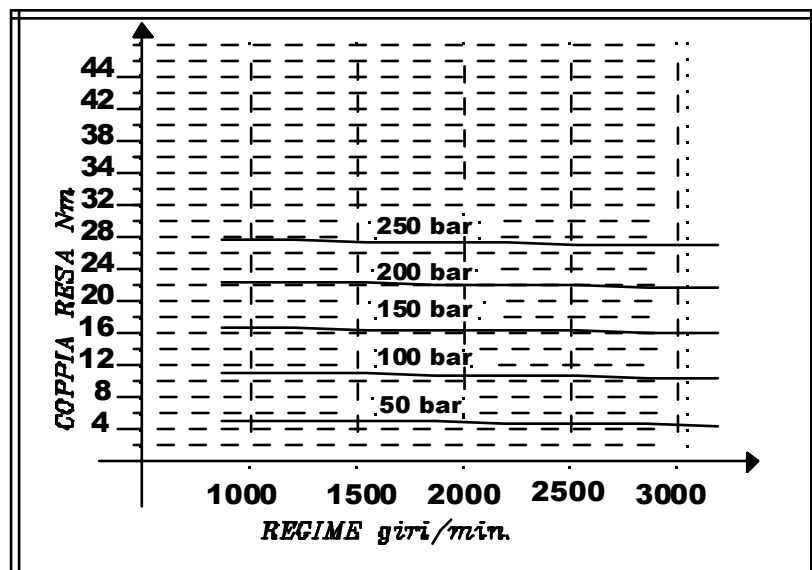
**MOTORI OT200 M04**



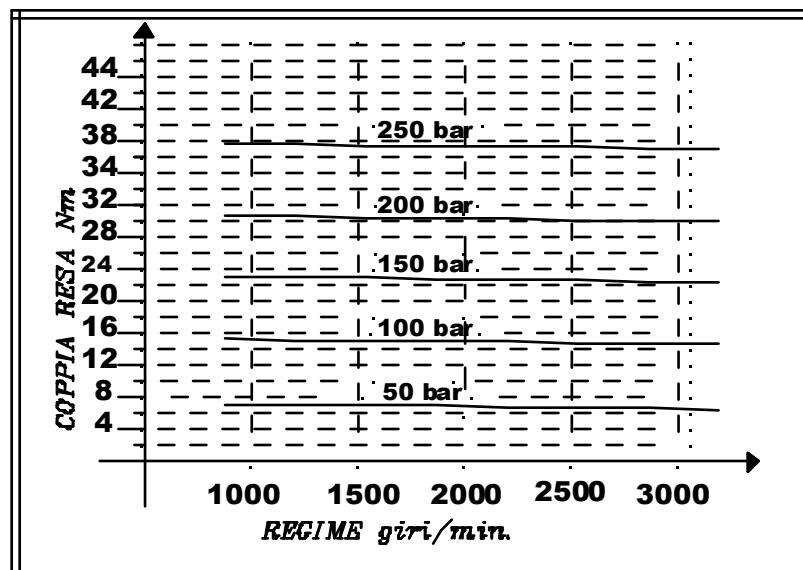
**MOTORI OT200 M06**



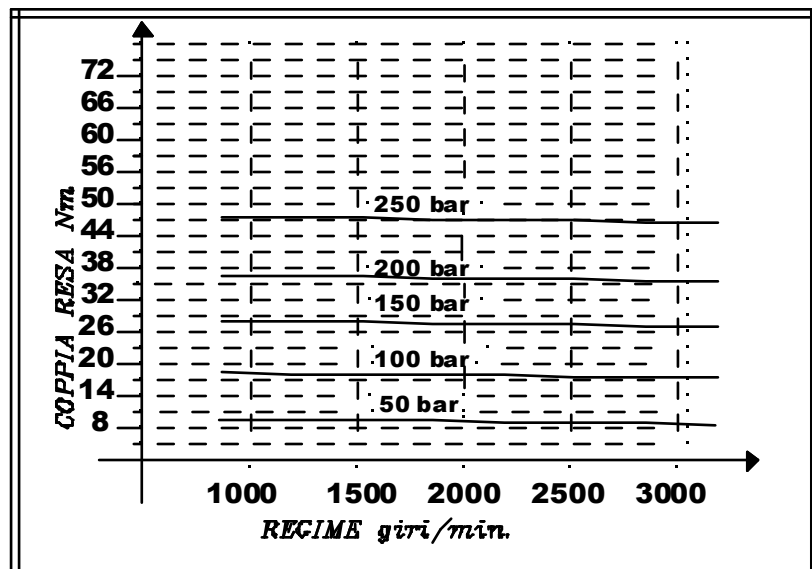
**MOTORI OT200 M08**



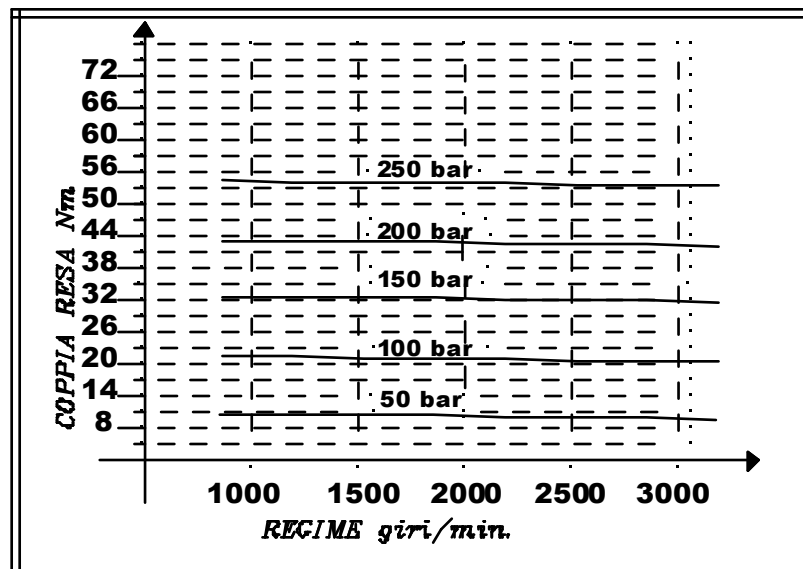
**MOTORI OT200 M11**



**MOTORI OT200 M14**

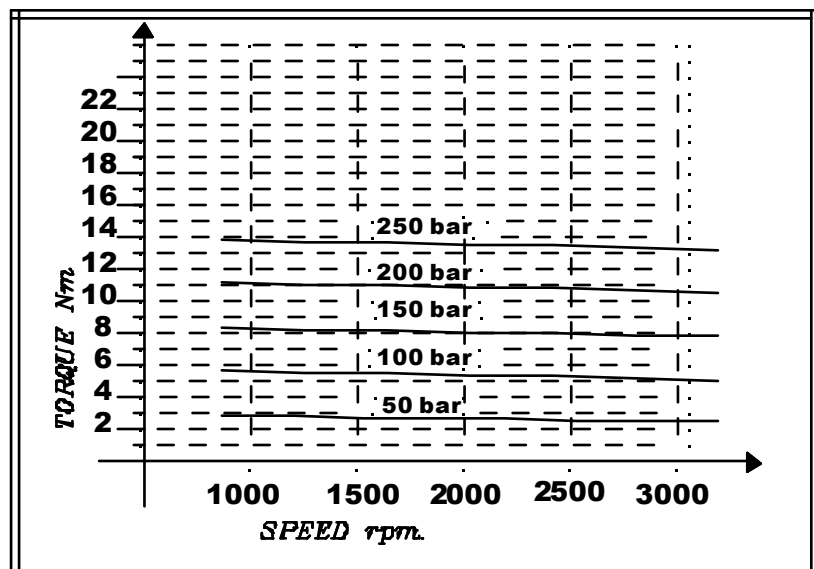


**MOTORI OT200 M16**

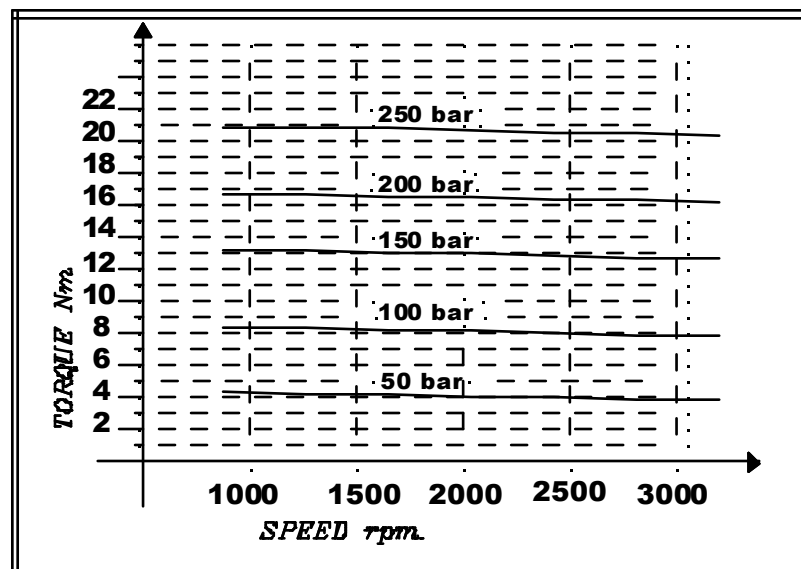


## GROUP2 MOTORS - TORQUE CHARACTERISTICS CURVES

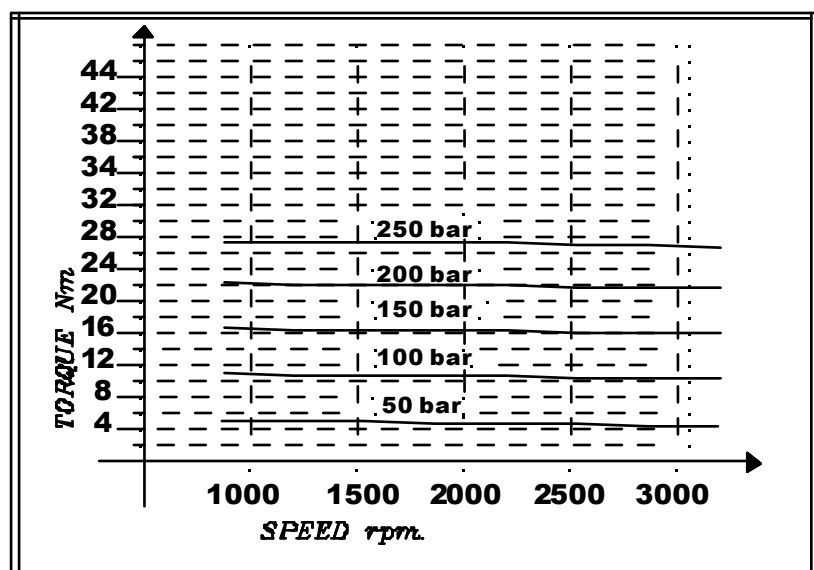
**MOTORS OT200 M04**



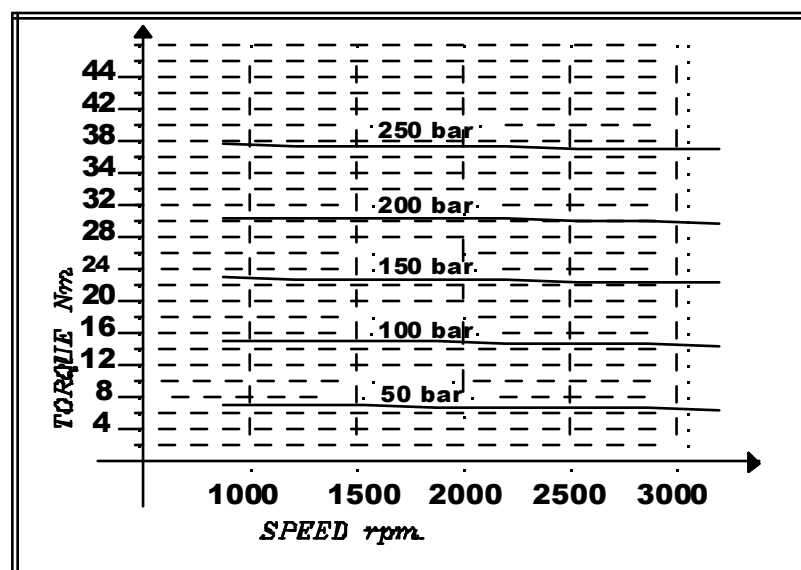
**MOTORS OT200 M06**



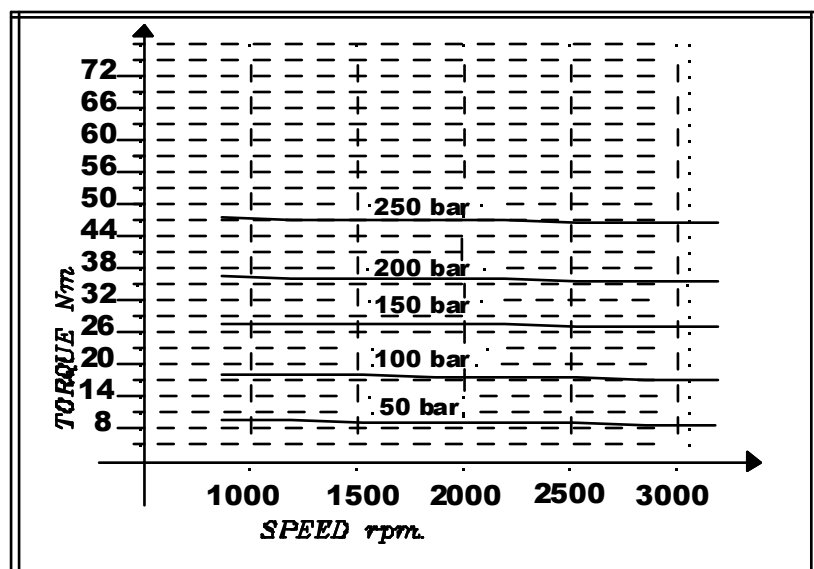
**MOTORS OT200 M08**



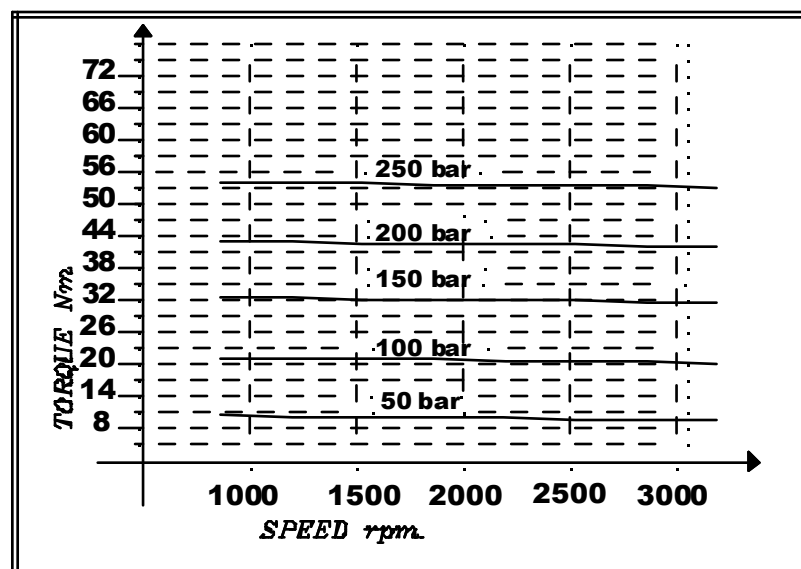
**MOTORS OT200 M11**



**MOTORS OT200 M14**

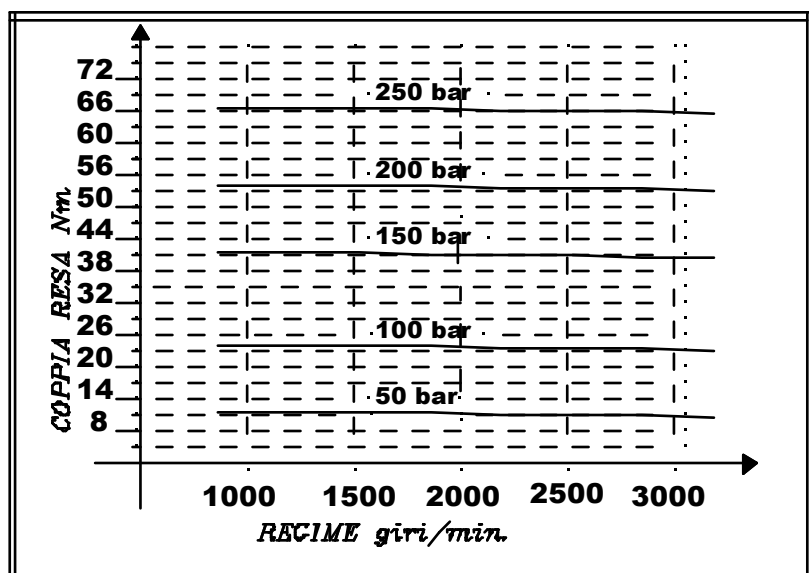


**MOTORS OT200 M16**

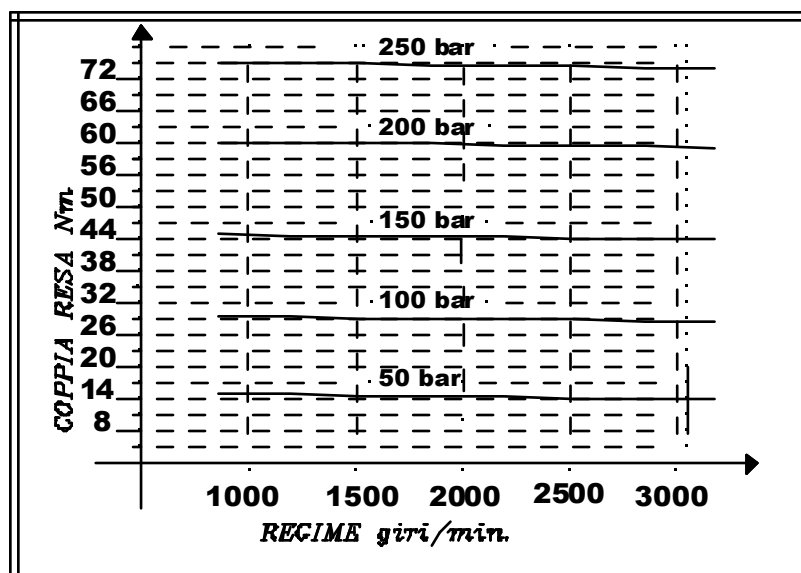


## MOTORI GRUPPO 2 CURVE CARATTERISTICHE COPPIA

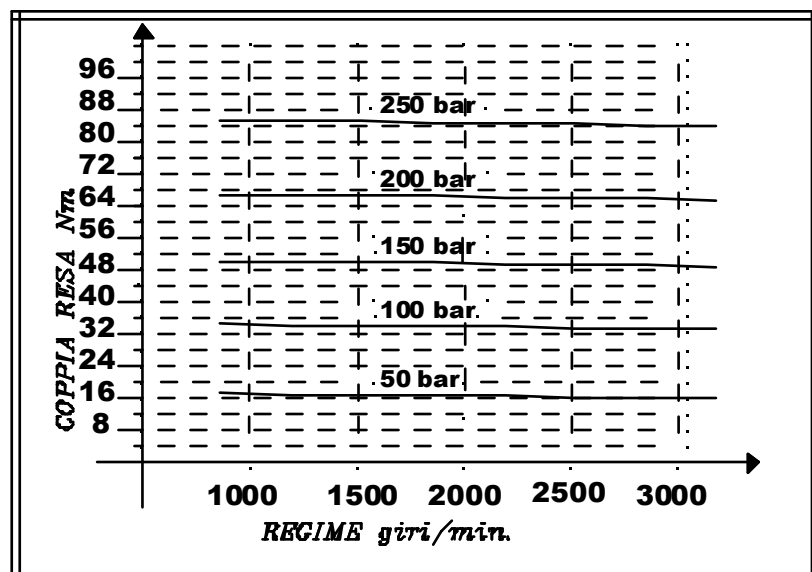
**MOTORI OT200 M20**



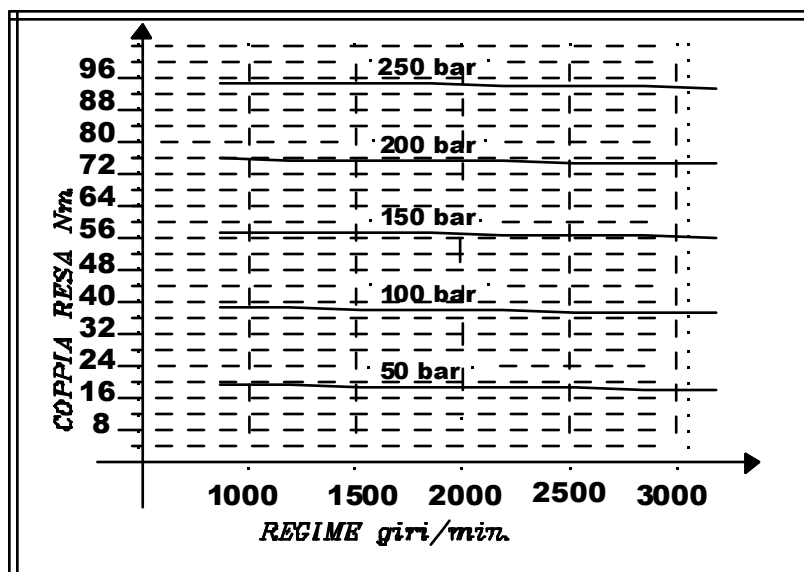
**MOTORI OT200 M22**



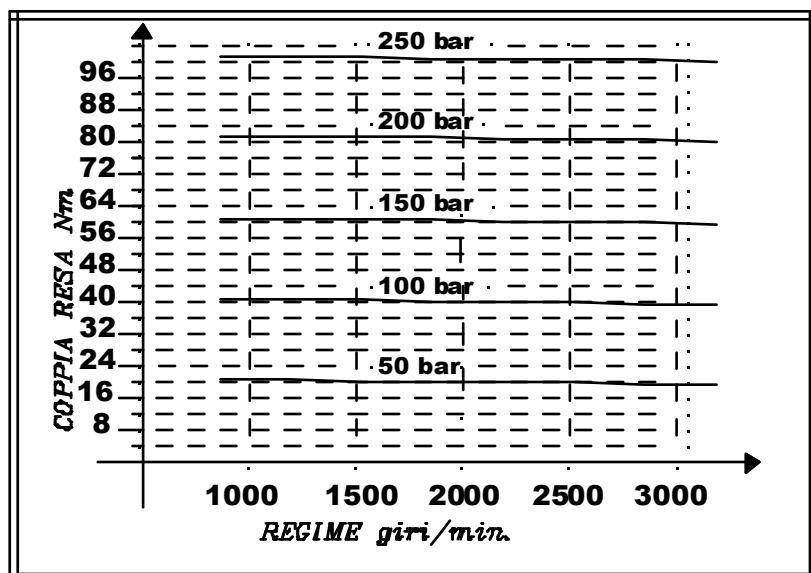
**MOTORI OT200 M25**



**MOTORI OT200 M28**



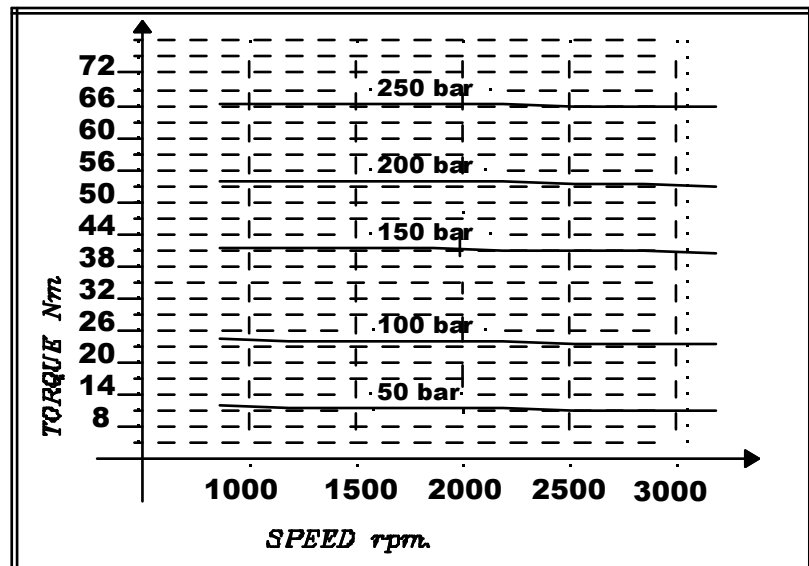
**MOTORI OT200 M30**



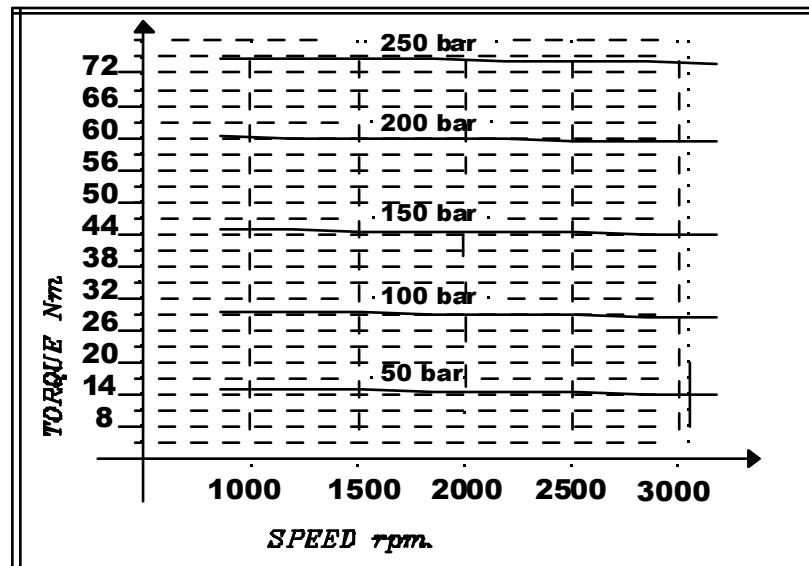


## GROUP2 MOTORS - TORQUE CHARACTERISTICS CURVE

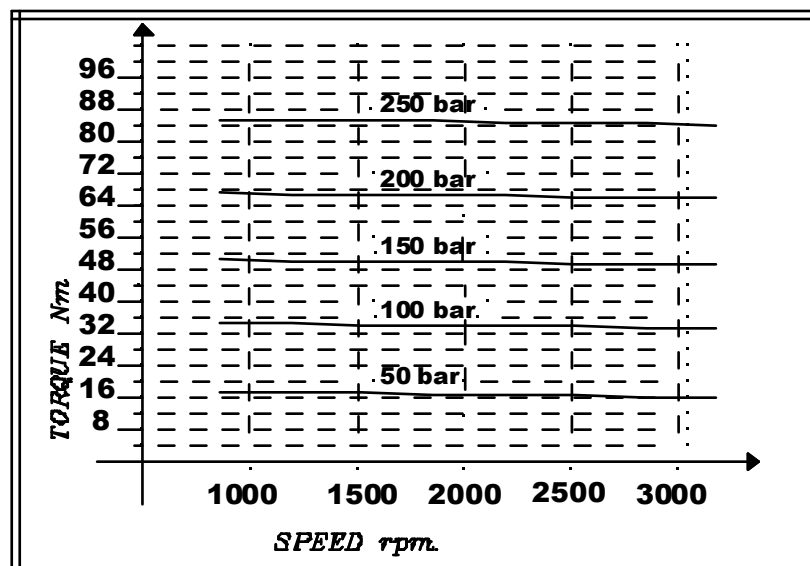
**MOTORS OT200 M20**



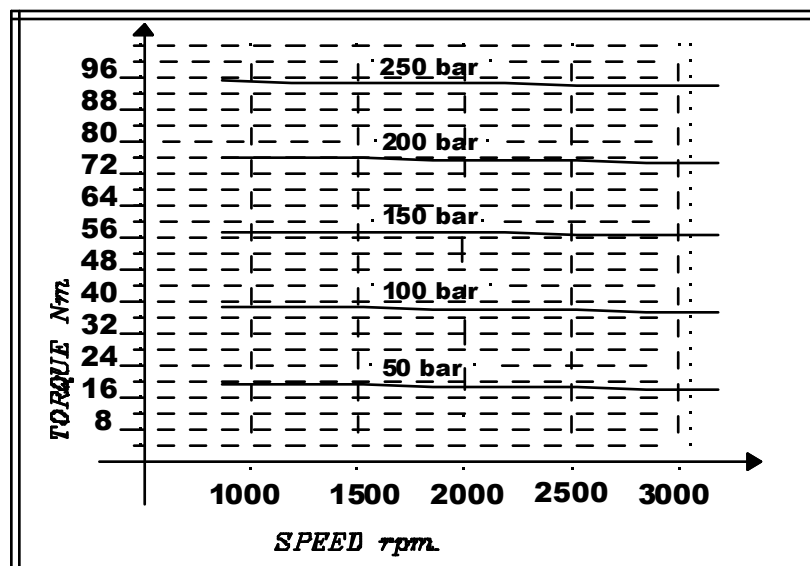
**MOTORS OT200 M22**



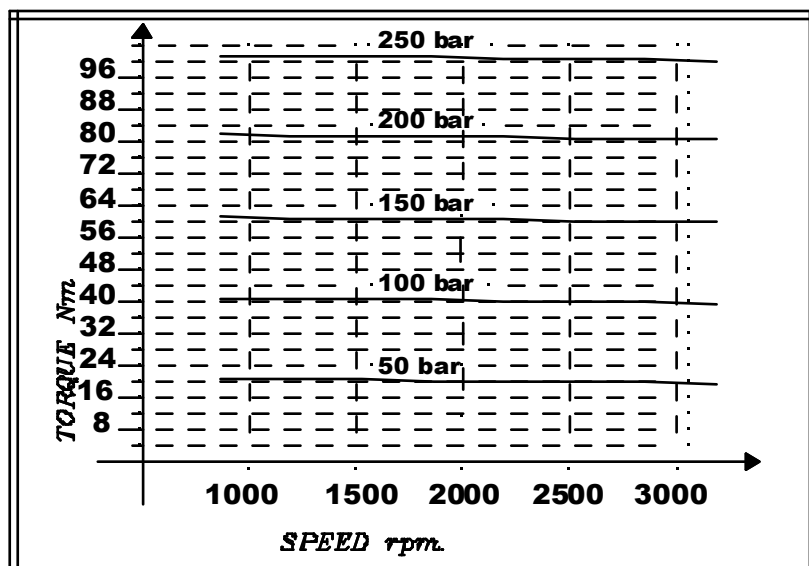
**MOTORS OT200 M25**



**MOTORS OT200 M28**



**MOTORS OT200 M30**



## POMPE E MOTORI REVERSIBILI GRUPPO 2

### DATI GENERALI

	Cilindrata ( cc/giro )	Pressione massima continua P1 ( bar )	Pressione di punta P3 ( bar )	Velocita' massima ( giri/min. )	Dimensione A   B ( mm )	
<b>OT 200 P04</b>	04,10	210	240	4000	40,00	83,50
<b>OT 200 P06</b>	06,20	220	255	3500	41,50	86,50
<b>OT 200 P08</b>	08,20	220	255	3500	43,00	89,50
<b>OT 200 P11</b>	11,20	220	255	3500	45,15	93,80
<b>OT 200 P14</b>	14,00	220	255	3000	47,15	97,80
<b>OT 200 P16</b>	16,00	220	255	3000	48,60	100,7
<b>OT 200 P20</b>	20,00	200	240	3000	51,50	106,5
<b>OT 200 P22</b>	22,50	170	210	2500	57,35	118,2
<b>OT 200 P25</b>	25,10	170	180	2500	59,25	122,0
<b>OT 200 P28</b>	28,00	140	180	2500	61,35	126,2
<b>OT 200 P30</b>	30,00	130	170	2000	62,75	129,0

### RENDIMENTI

$\eta_v = \eta_v (V, \Delta p, n)$  **Minimo rendimento volumetrico**  $\approx 0.85$

$\eta_m = \eta_m (V, \Delta p, n)$  **Rendimento meccanico**  $\approx 0.9$

$\eta_t = \eta_v \times \eta_m$  **Rendimento totale**  $\approx 0.8$

GROUP 2 REVERSIBLE PUMPS AND MOTORS

GENERAL DATA

	Displacem. ( cc/rev )	Max working pressure P1 ( bar )	Peak pressure P3 ( bar )	Max speed ( rpm )	Dimension	
					A	B
					( mm )	
OT 200 P04	04,10	210	240	4000	40,00	83,50
OT 200 P06	06,20	220	255	3500	41,50	86,50
OT 200 P08	08,20	220	255	3500	43,00	89,50
OT 200 P11	11,20	220	255	3500	45,15	93,80
OT 200 P14	14,00	220	255	3000	47,15	97,80
OT 200 P16	16,00	220	255	3000	48,60	100,7
OT 200 P20	20,00	200	240	3000	51,50	106,5
OT 200 P22	22,50	170	210	2500	57,35	118,2
OT 200 P25	25,10	170	180	2500	59,25	122,0
OT 200 P28	28,00	140	180	2500	61,35	126,2
OT 200 P30	30,00	130	170	2000	62,75	129,0

EFFICIENCIES

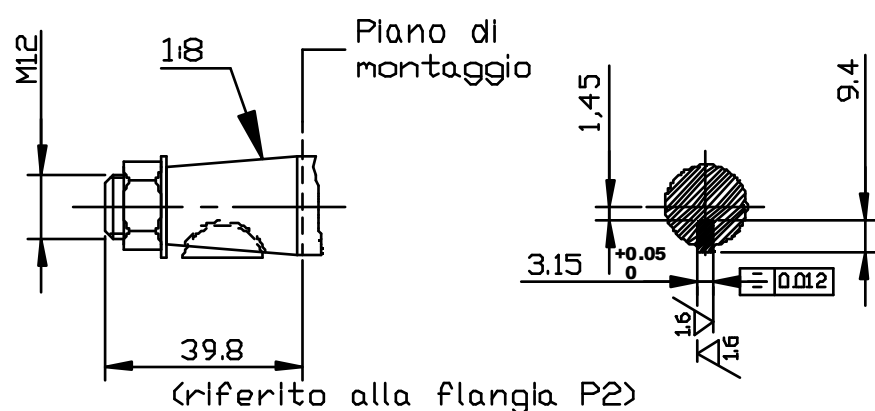
$\eta_v = \eta_v (V, \Delta p, n)$	Minimal volumetric efficiency	$\approx 0.85$
$\eta_m = \eta_m (V, \Delta p, n)$	Mechanical efficiency	$\approx 0.9$
$\eta = \eta_v \times \eta_m$	Overall efficiency	$\approx 0.8$

## POMPE E MOTORI REVERSIBILI GRUPPO 2

### ALBERI CONDUTTORI

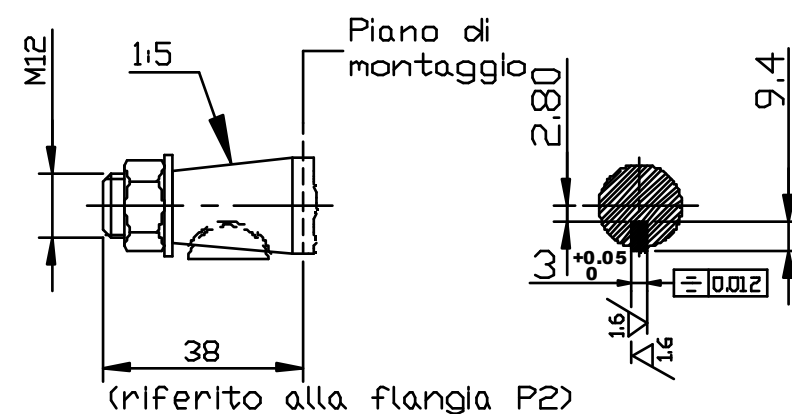
#### ALBERO COD. 28

Coppia max. 140 Nm



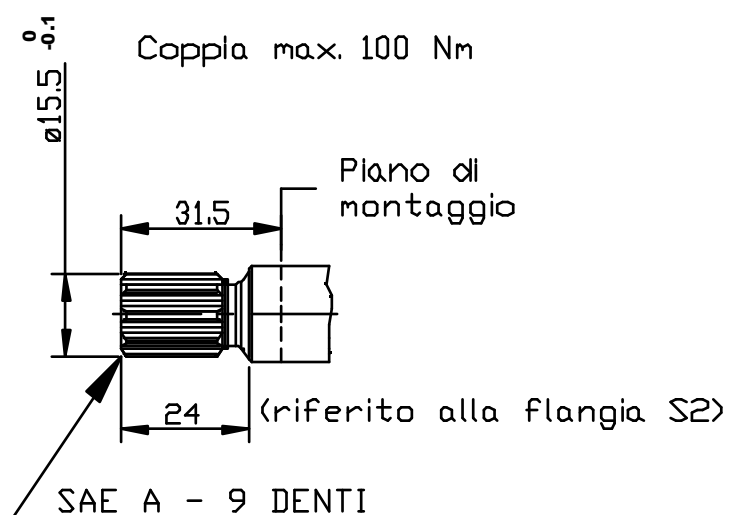
#### ALBERO COD. 25

Coppia max. 140 Nm



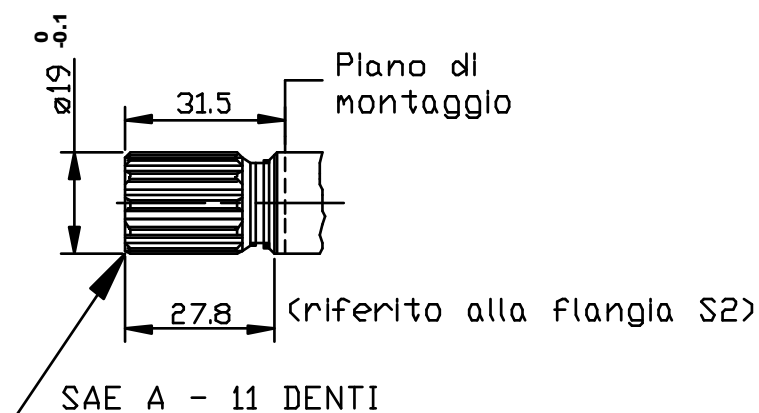
#### ALBERO COD. 21

Coppia max. 100 Nm



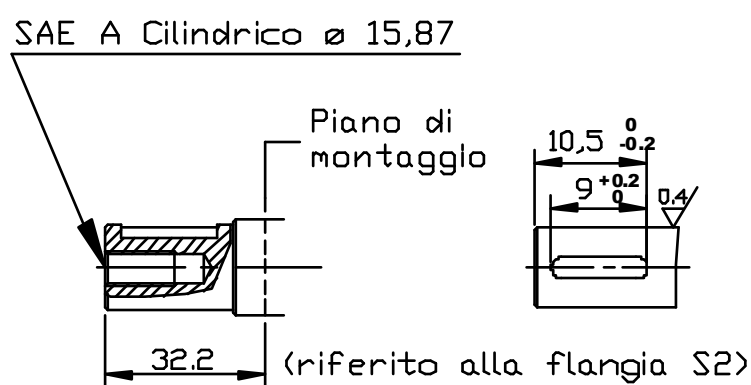
#### ALBERO COD. 20

Coppia max. 170 Nm



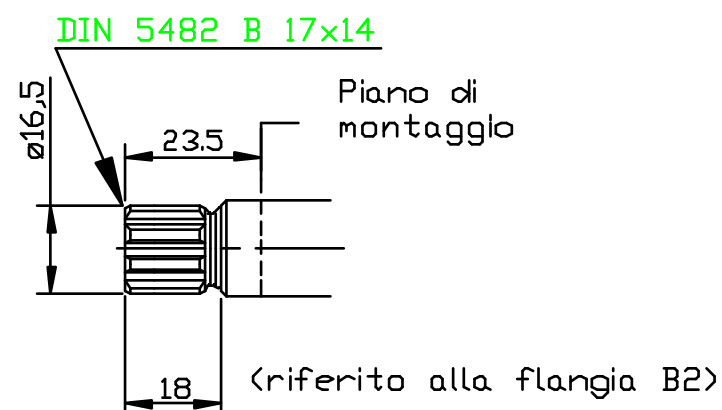
#### ALBERO COD. 31

Coppia max. 70 Nm



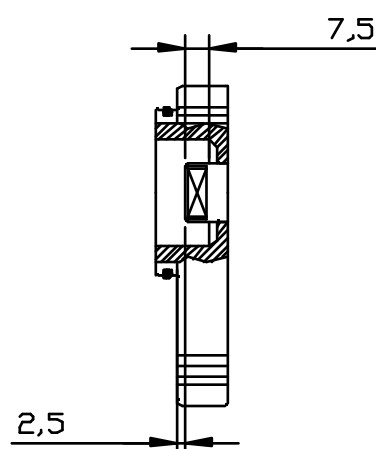
#### ALBERO COD. 23

Coppia max. 110 Nm



#### ALBERO COD. 24

Coppia max. 70 Nm

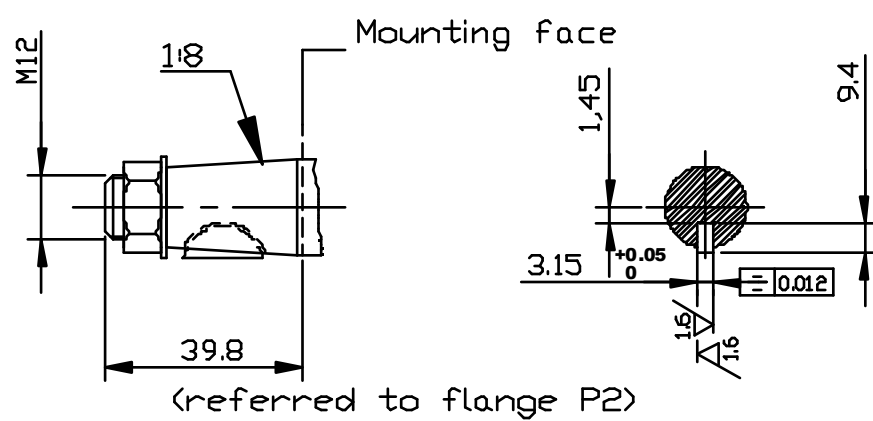


## GROUP 2 REVERSIBLE PUMPS AND MOTORS

### DRIVE SHAFTS

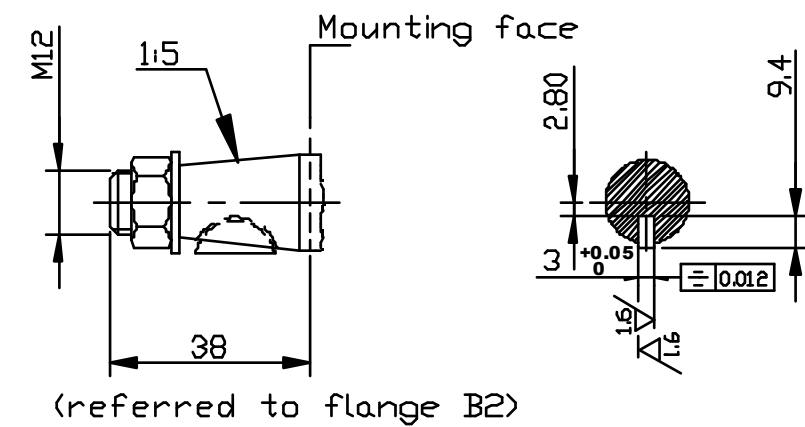
#### SHAFT CODE 28

Max torque 140 Nm



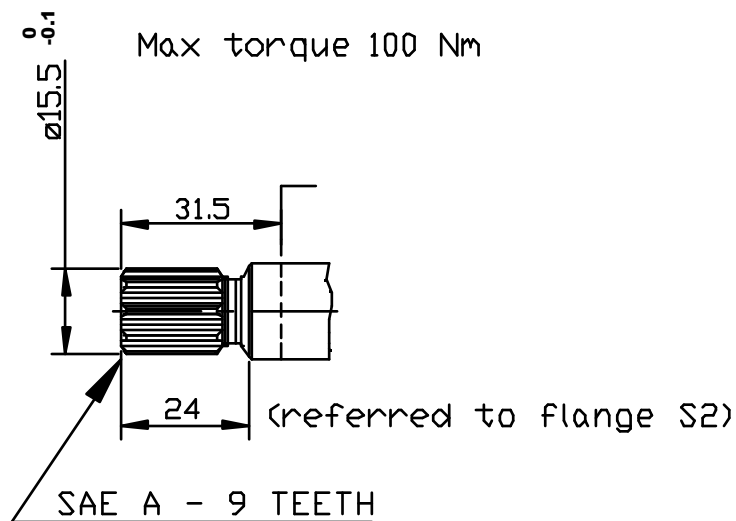
#### SHAFT CODE 25

Max torque 140 Nm



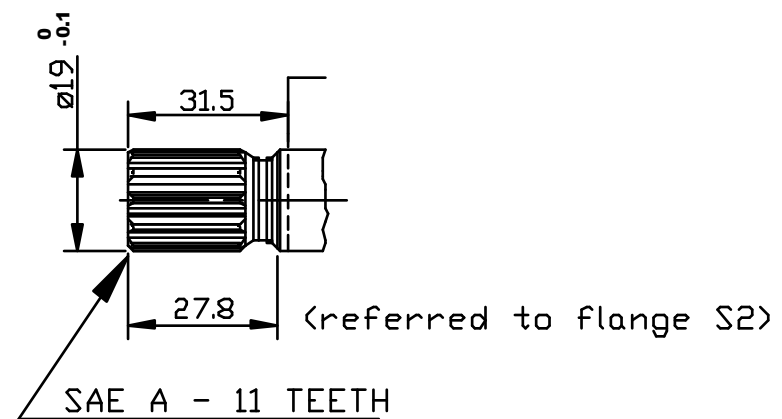
#### SHAFT CODE 21

Max torque 100 Nm



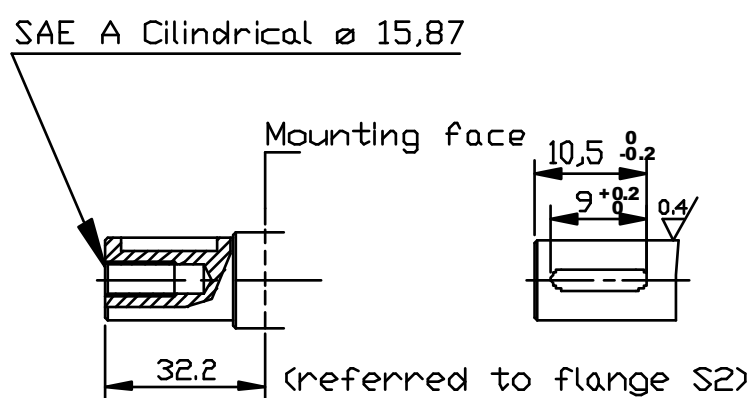
#### SHAFT CODE 20

Max torque 170 Nm



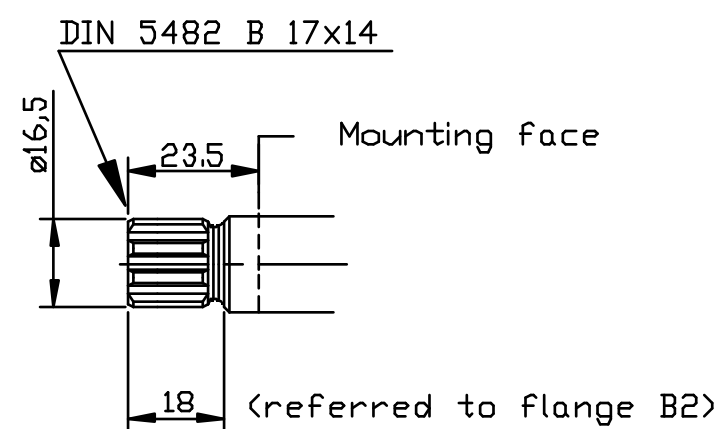
#### SHAFT CODE 31

Max torque 70 Nm



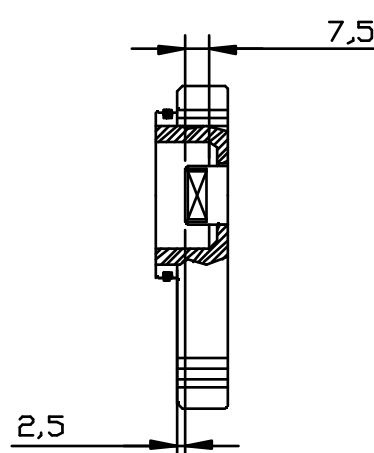
#### SHAFT CODE 23

Max Torque 110 Nm



#### SHAFT CODE 24

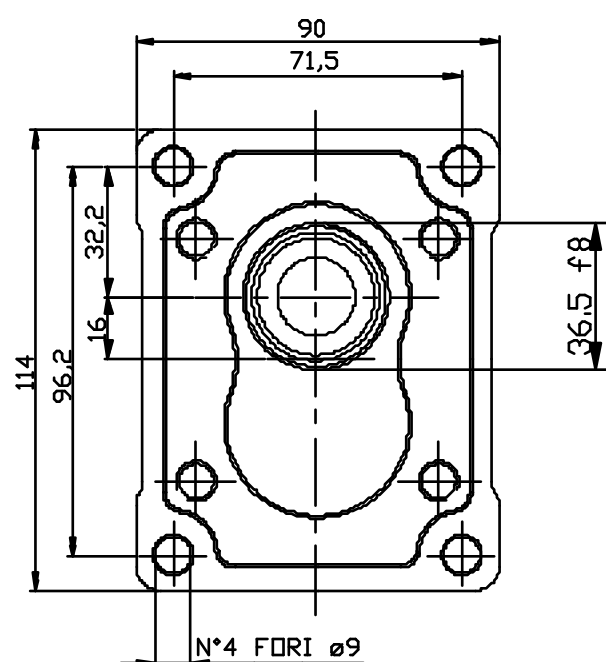
Max torque 70 Nm



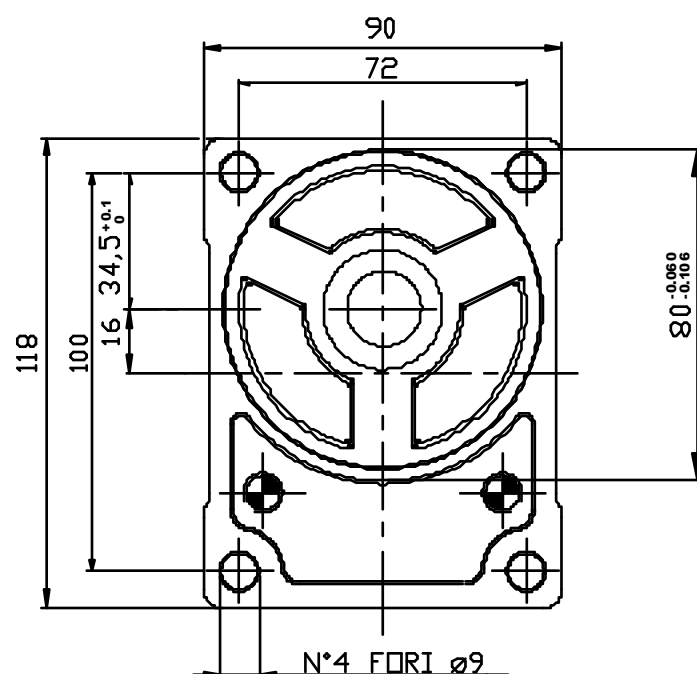
## POMPE E MOTORI REVERSIBILI GRUPPO 2

### FLANGE

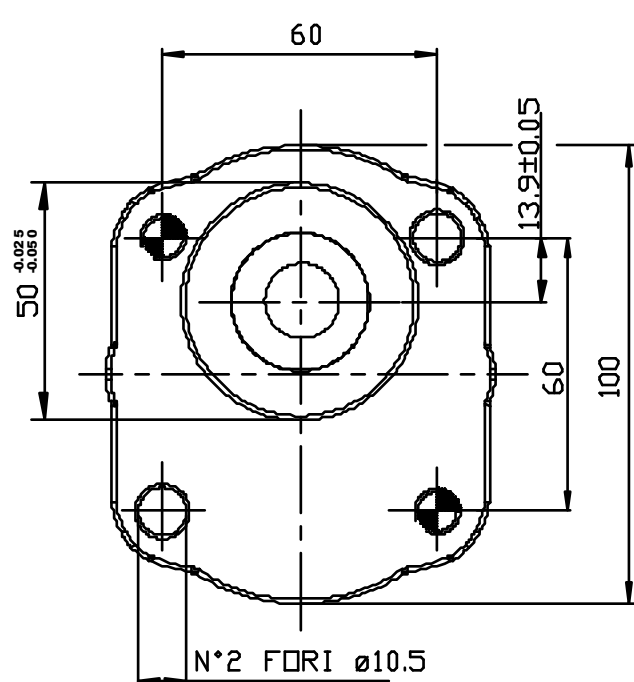
#### STANDARD EUROPEO COD. P2



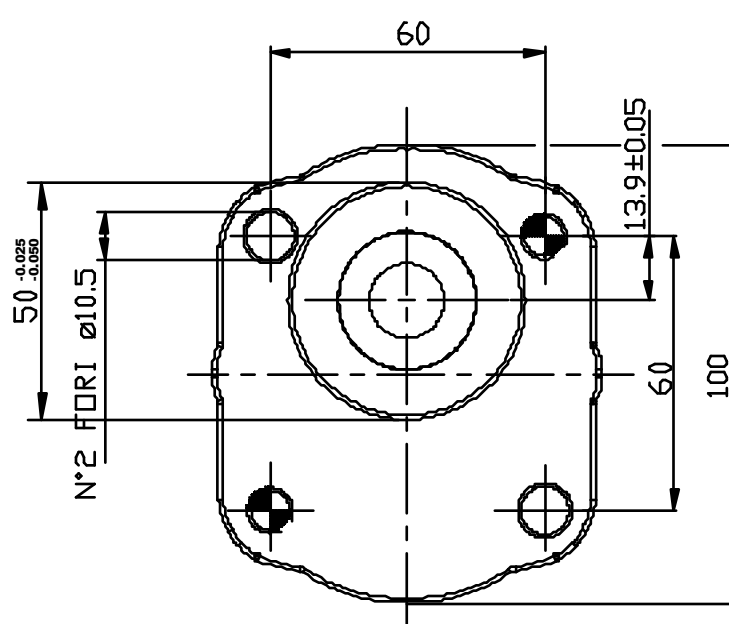
#### UNIFICAZIONE TEDESCA COD. B2



#### UNIFICAZIONE TEDESCA COD. B4



#### UNIFICAZIONE TEDESCA COD. B5

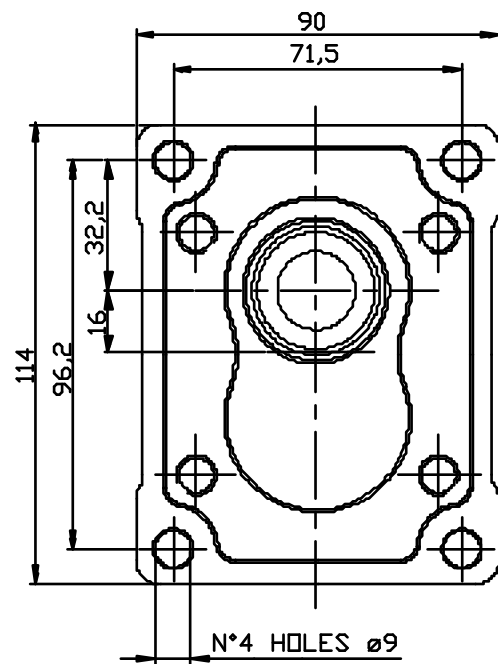




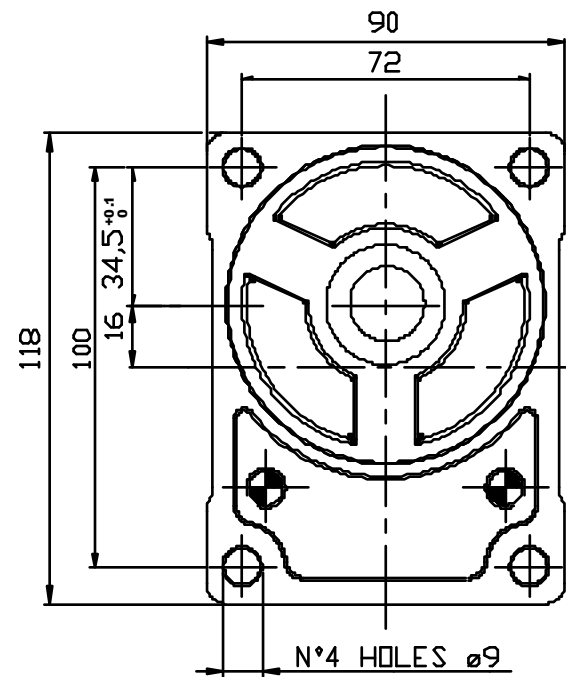
## GROUP 2 REVERSIBLE PUMPS AND MOTORS

### MOUNTING FLANGES

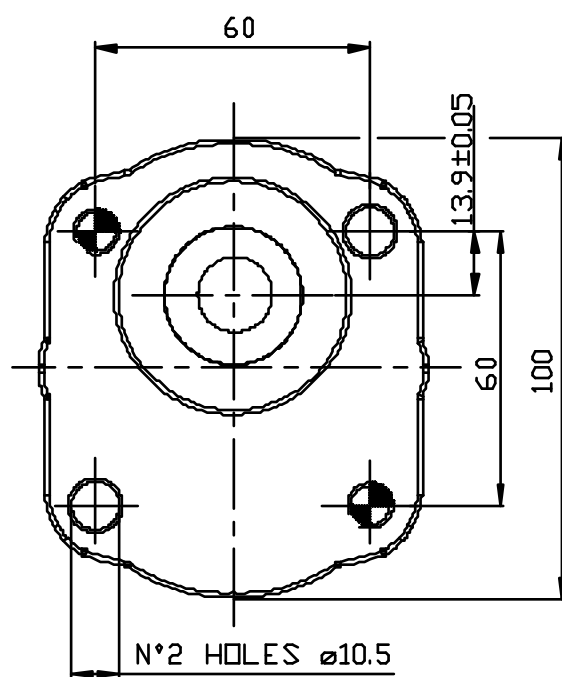
#### EUROPEAN STANDARD CODE P2



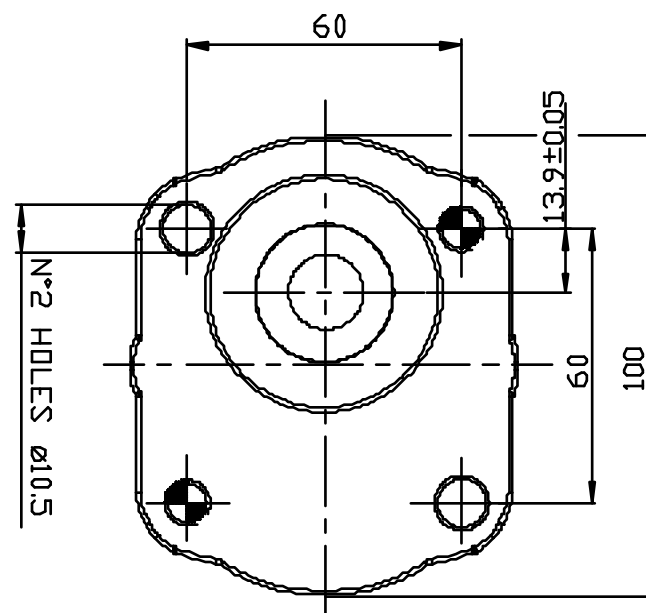
#### GERMAN STANDARD CODE B2



#### GERMAN STANDARD CODE B4



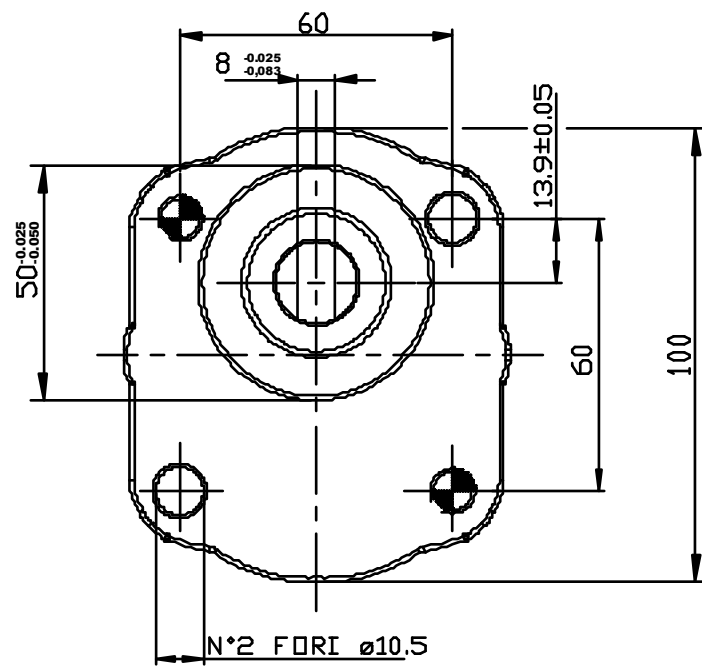
#### GERMAN STANDARD CODE B5



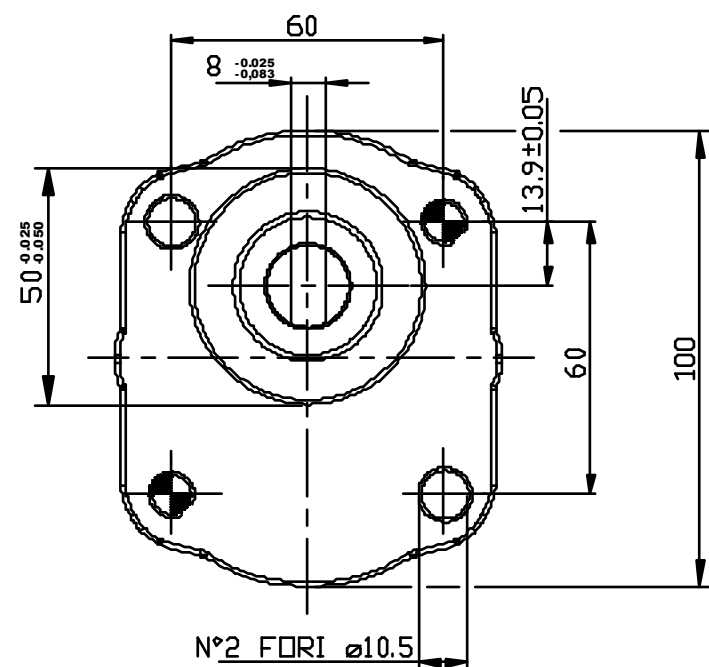
## POMPE E MOTORI REVERSIBILI GRUPPO 2

### FLANGE

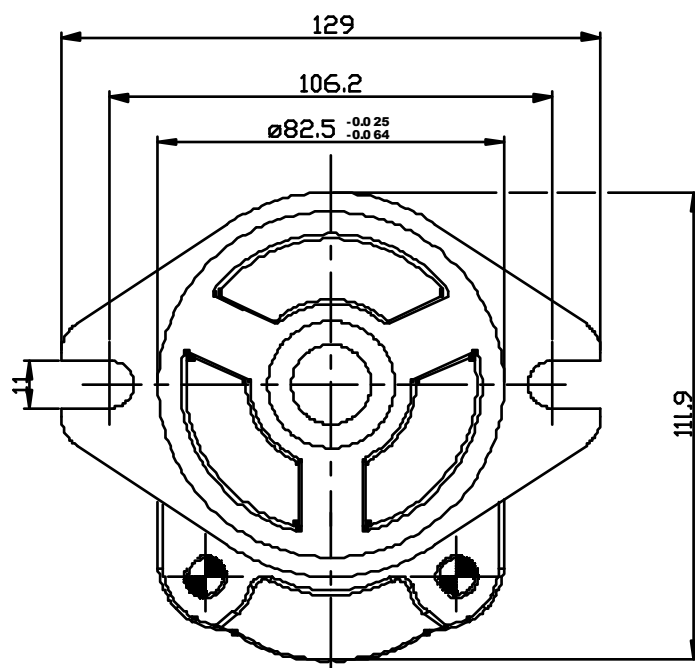
#### UNIFICAZIONE TEDESCA COD. B6



#### UNIFICAZIONE TEDESCA COD. B7



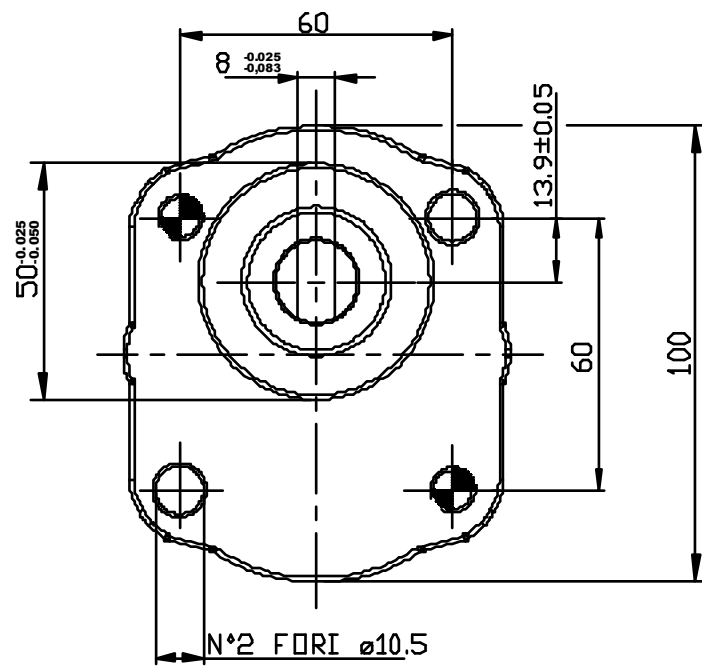
#### UNIFICAZIONE SAE A COD. S2



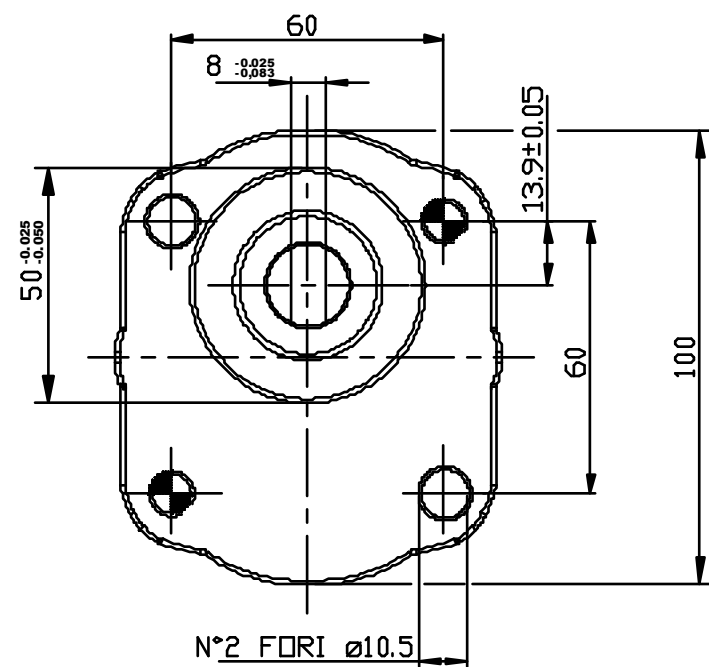
## GROUP 2 REVERSIBLE PUMPS AND MOTORS

### MOUNTING FLANGES

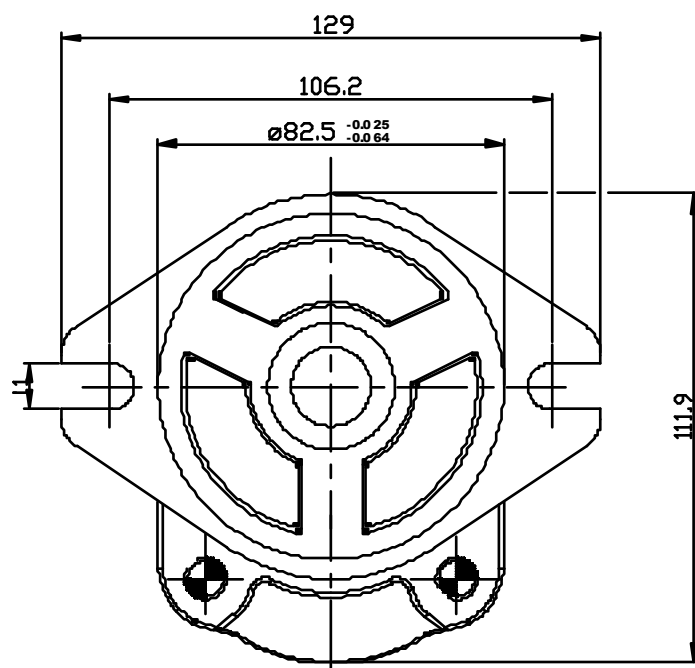
#### GERMAN STANDARD CODE B6



#### GERMAN STANDARD CODE B7



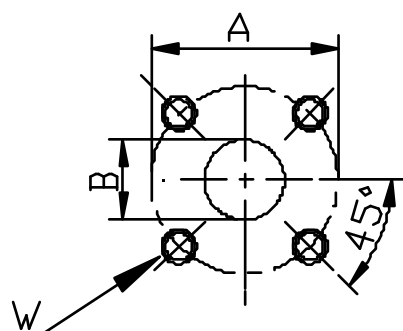
#### SAE A STANDARD CODE S2



## POMPE E MOTORI REVERSIBILI GRUPPO 2

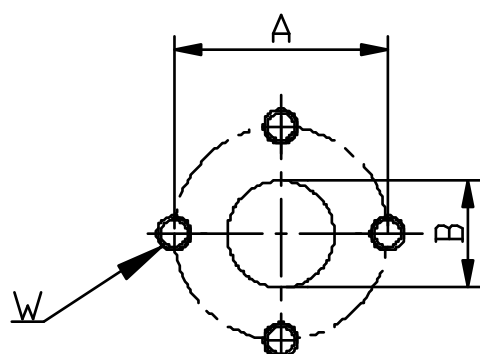
### BOCCE

#### CODICE B



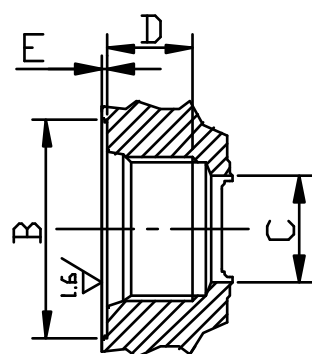
Quota	Dimensione lato sx	Dimensione parte dx
<b>A</b>	Ø40	Ø35
<b>B</b>	Ø20	
<b>W</b>	M6	

#### CODICE P



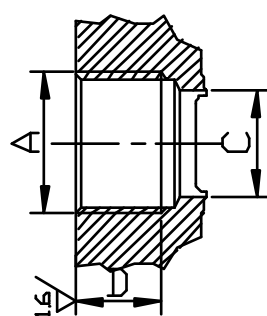
Quota	Cilindrata da 04 a 11 (mm)	Cilindrata da 14 a 30 (mm)
<b>A</b>	Ø30	Ø40
<b>B</b>	Ø13	Ø20
<b>W</b>	M6	M8

#### CODICE R



Quota	SAE 10 da 04 a 11 (mm)	SAE 12 da 14 a 30 (mm)
<b>C</b>	Ø13	Ø20
<b>E</b>	0.8	0.5
<b>D</b>	14	16
<b>B</b>	7/8-14 UNF	1-1/16 UNF

#### CODICE G

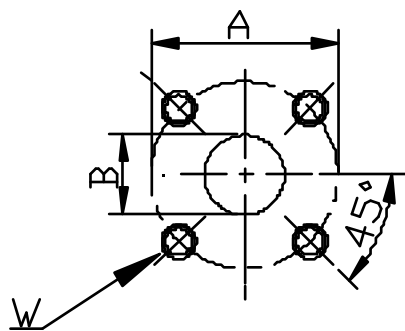


Quota	Cilindrata da 04 a 11 (mm)	Cilindrata da 14 a 30 (mm)
<b>A</b>	1/2"	3/4"
<b>C</b>	Ø13	Ø20
<b>D</b>	14	16

GROUP 2 REVERSIBLE PUMPS AND MOTORS

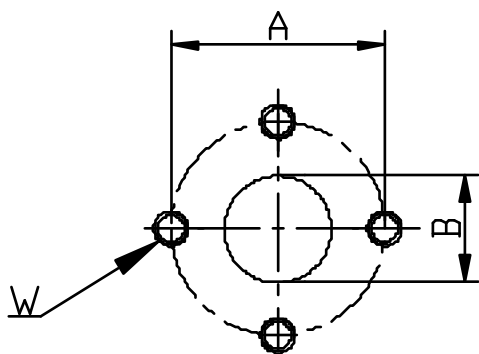
PORT SIZES

CODE B



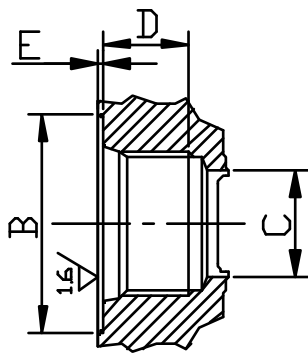
Quote	Dimension left side	Dimension right side
A	Ø40	Ø35
B	Ø20	
W	M6	

CODE P



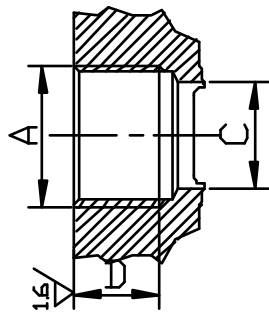
Quote	Displacement from 04 to 11 (mm)	Displacement from 14 to 30 (mm)
A	Ø30	Ø40
B	Ø13	Ø20
W	M6	M8

CODE R



Quote	SAE 10 from 04 to 11 (mm)	SAE 12 from 14 to 30 (mm)
C	Ø13	Ø20
E	0.8	0.5
D	14	16
B	7/8-14 UNF	1-1/16 UNF

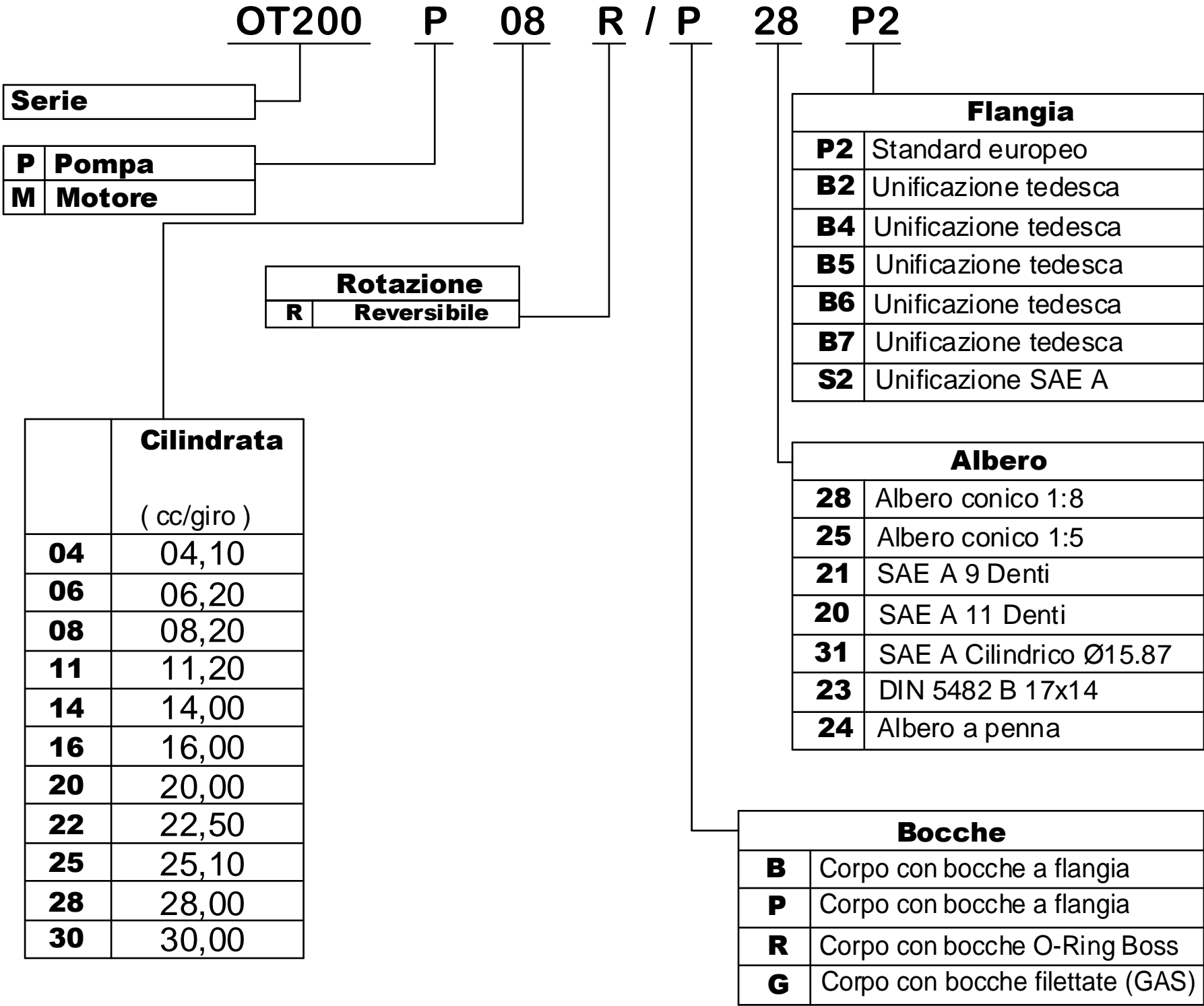
CODE G



Quote	Displacement from 04 to 11 (mm)	Displacement from 14 to 30 (mm)
A	1/2"	3/4"
C	Ø13	Ø20
D	14	16

**POMPE E MOTORI REVERSIBILI GRUPPO 2**

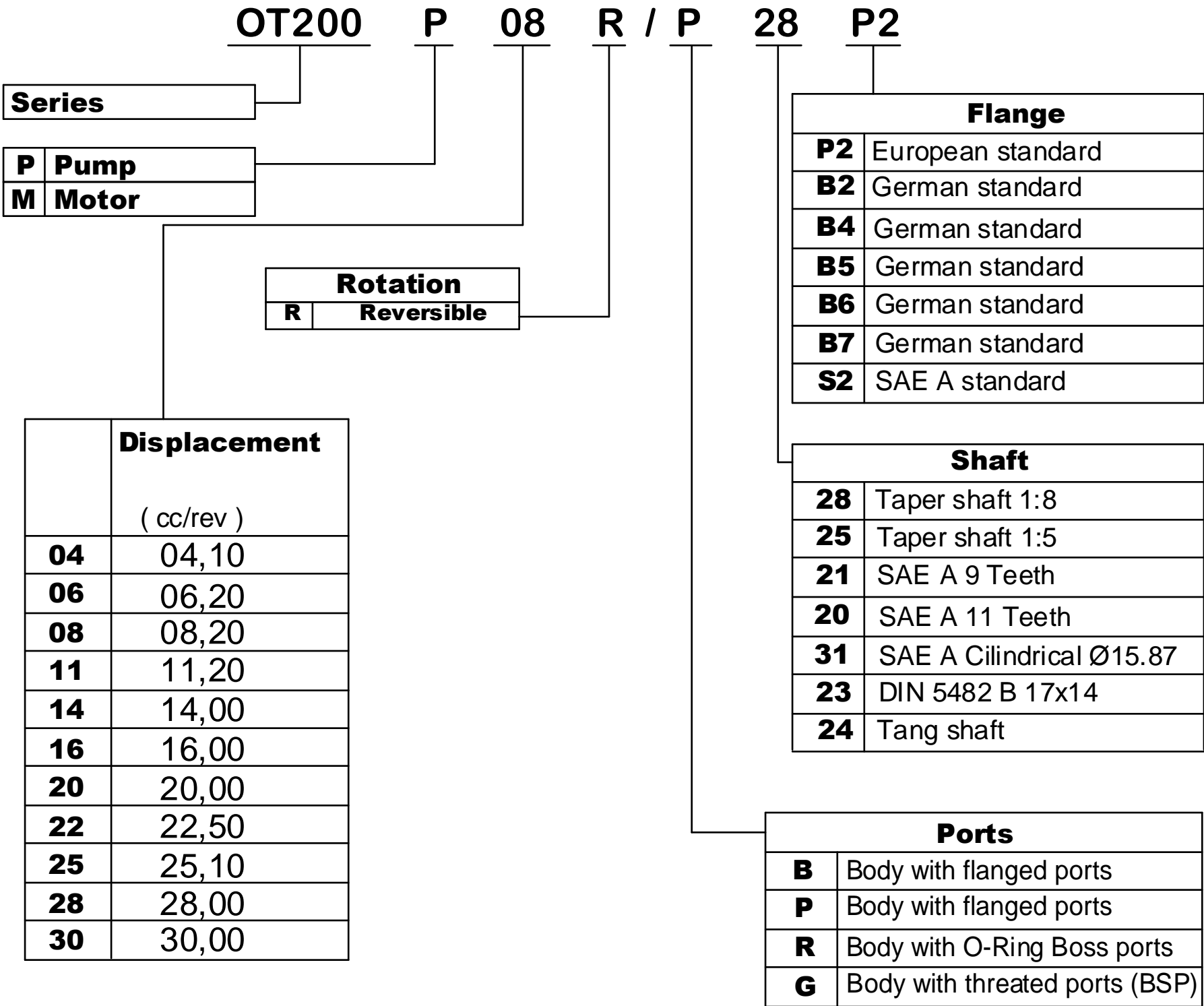
**ESEMPIO DI CODICE DI ORDINAZIONE**





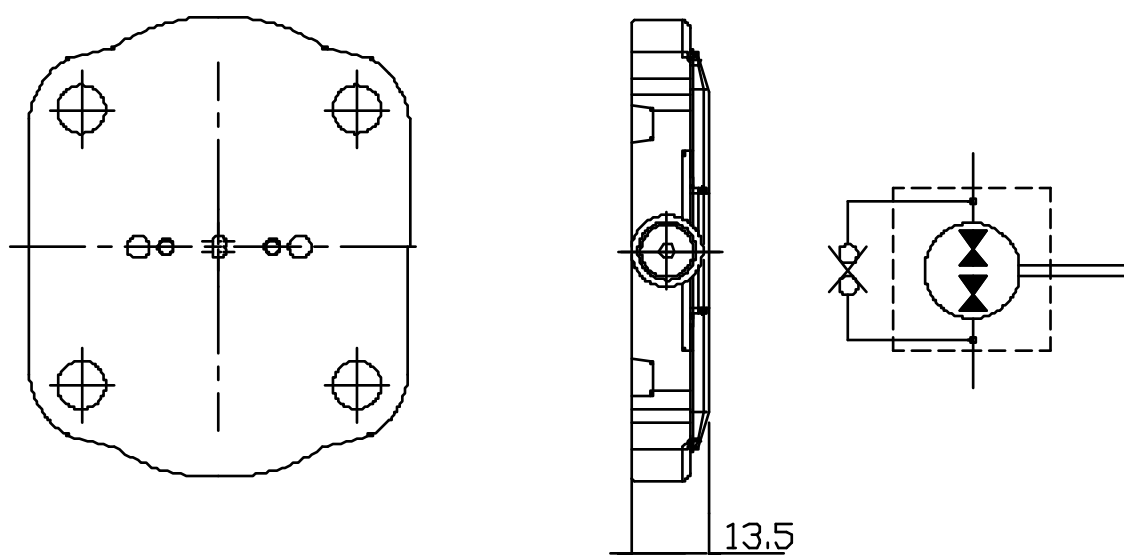
GROUP 2 REVERSIBLE PUMPS AND MOTORS

EXAMPLE OF ORDERING CODE



## COPERCHI POSTERIORI PER POMPE E MOTORI GRUPPO 2

### COPERCHIO PER POMPE E MOTORI CON DRENAGGIO INTERNO



NOTE : Massima contropressione in scarico 5 - 7 [ bar ]

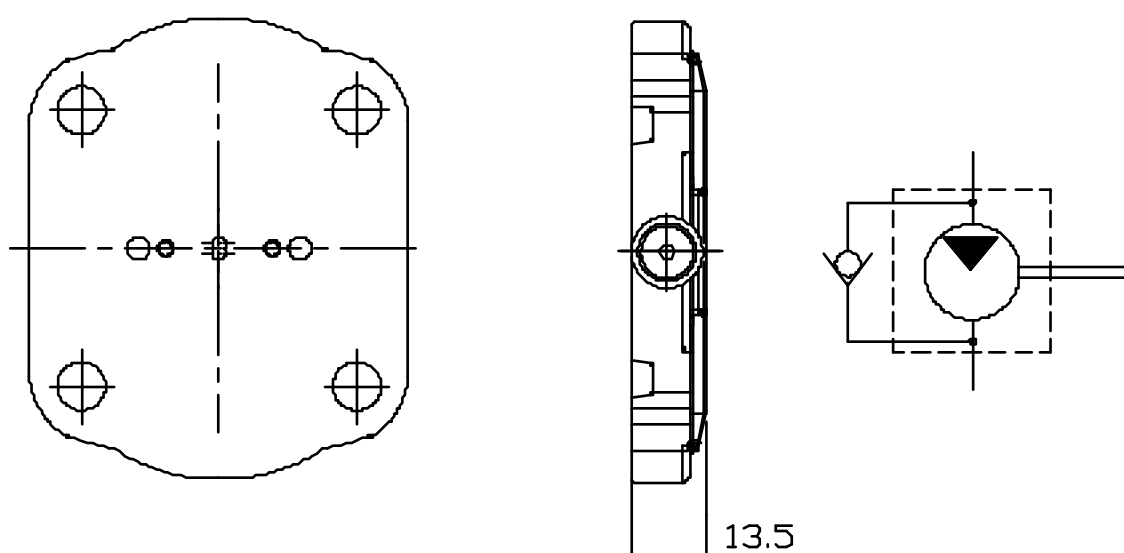
### ESEMPIO DI CODICE D'ORDINAZIONE

**OT200 M 08 R / G 28 P2 - DI**

Vedi tabelle tecniche di corrispondenti pompe o motori reversibili

Coperchio per DRENAGGIO INTERNO

### COPERCHIO CON VALVOLA ANTICAVITAZIONE



NOTE : Massima contropressione in scarico 5 - 7 [ bar ]

### ESEMPIO DI CODICE D'ORDINAZIONE

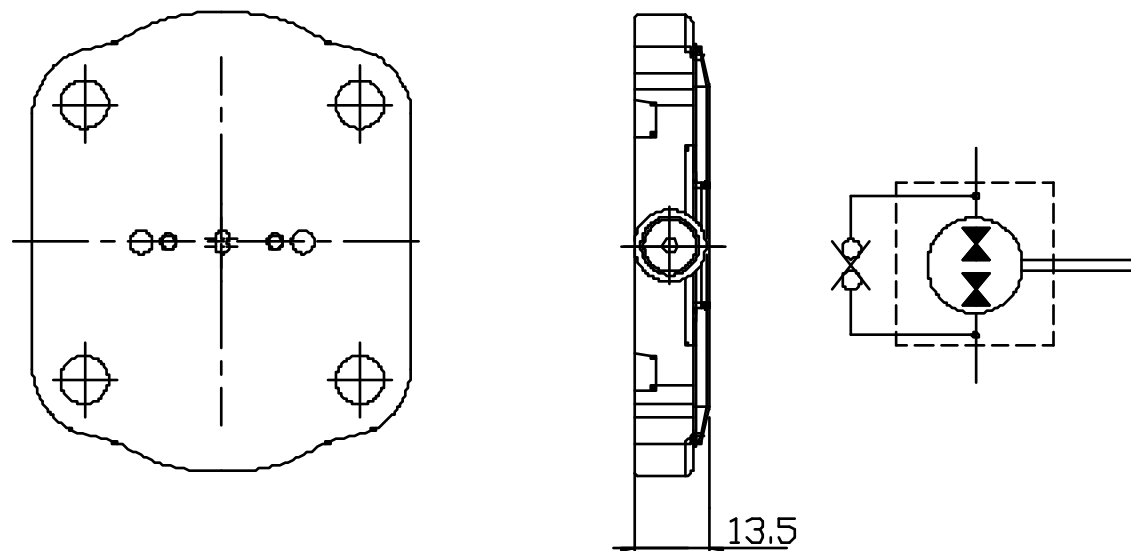
**OT200 M 08 D / G 28 P2 - VA**

Vedi tabelle tecniche di corrispondenti motori UNIDIREZIONALI

Coperchio con VALVOLA ANTICAVITAZIONE

## REAR COVERS FOR GROUP2 PUMPS AND MOTORS

### INTERNAL DRAIN REAR COVER FOR PUMPS AND MOTORS



NOTE : Max back pressure 5 - 7 [ bar ]

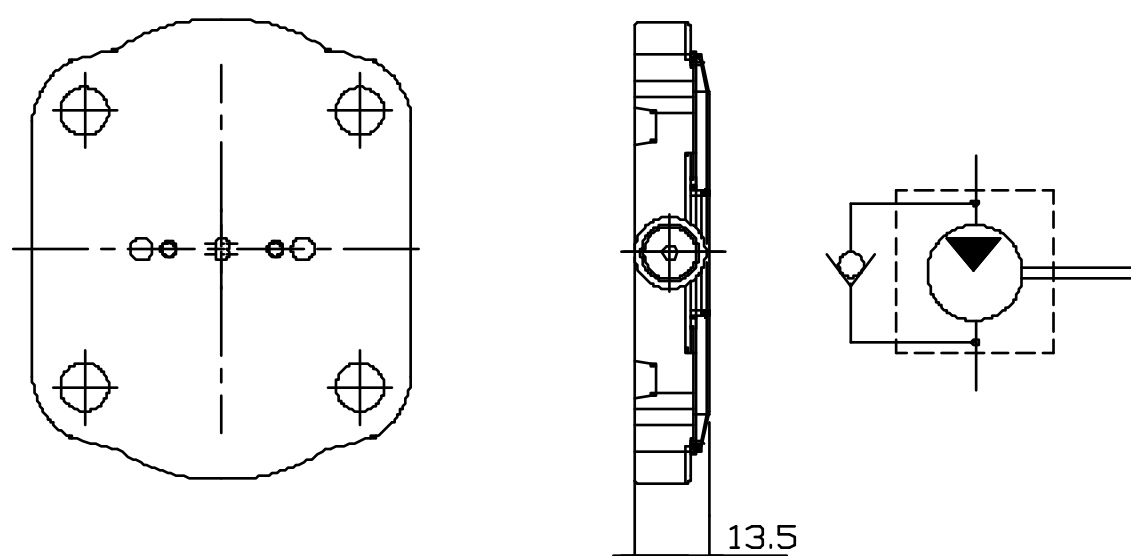
### EXAMPLE OF ORDERING CODE

**OT200 M 08 R / G 28 P2 - DI**

See correspondent reversible motors and pumps tables

Cover for INTERNAL DRAIN

### REAR COVER WITH ANTICAVITATION VALVE



NOTE : Max back pressure 5 - 7 [ bar ]

### EXAMPLE OF ORDERING CODE

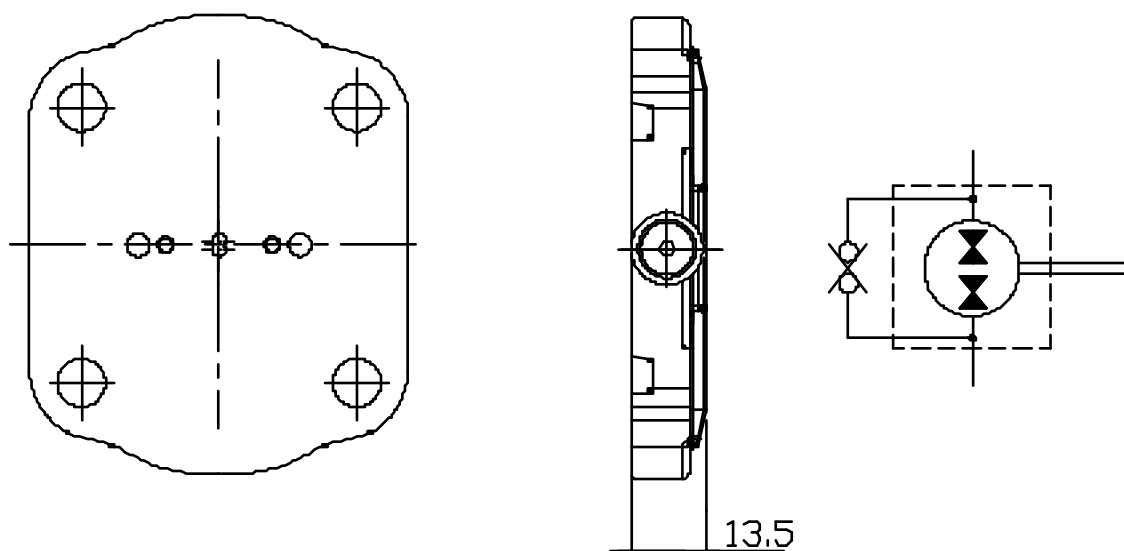
**OT200 M 08 D / G 28 P2 - VA**

See correspondent UNIDIRECTIONAL motor tables

Rear cover with ANTICAVITATION VALVE

## REAR COVERS FOR GROUP2 PUMPS AND MOTORS

### INTERNAL DRAIN REAR COVER FOR PUMPS AND MOTORS



NOTE : Max back pressure 5 - 7 [ bar ]

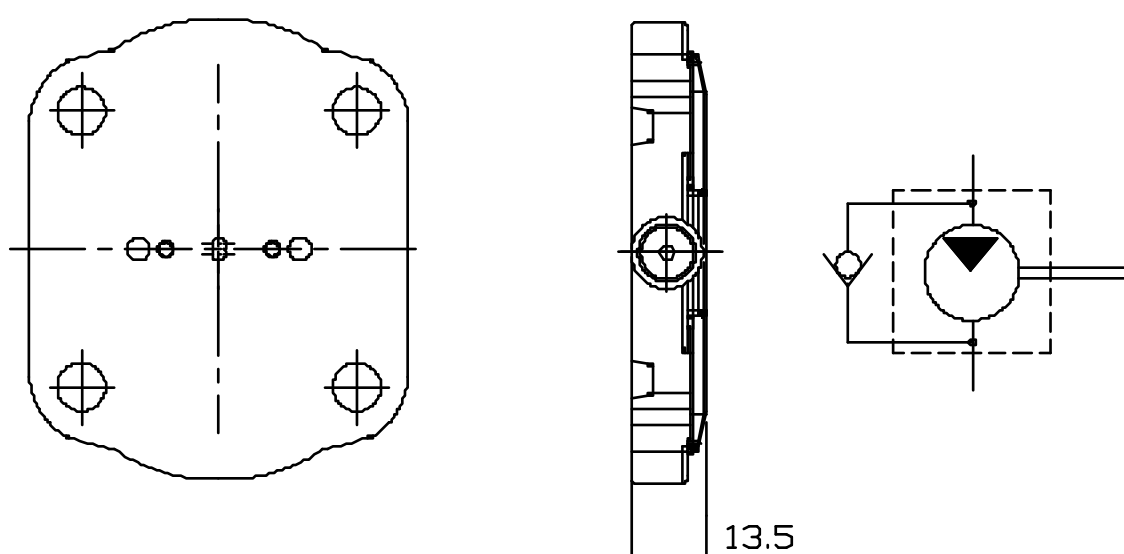
#### EXAMPLE OF ORDERING CODE

**OT200 M 08 R / G 28 P2 - DI**

See correspondent reversible motors and pumps tables

Cover for INTERNAL DRAIN

### REAR COVER WITH ANTICAVITATION VALVE



NOTE : Max back pressure 5 - 7 [ bar ]

#### EXAMPLE OF ORDERING CODE

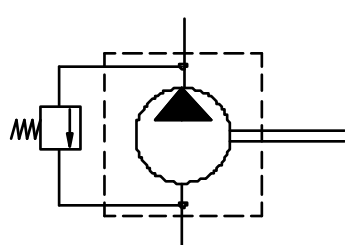
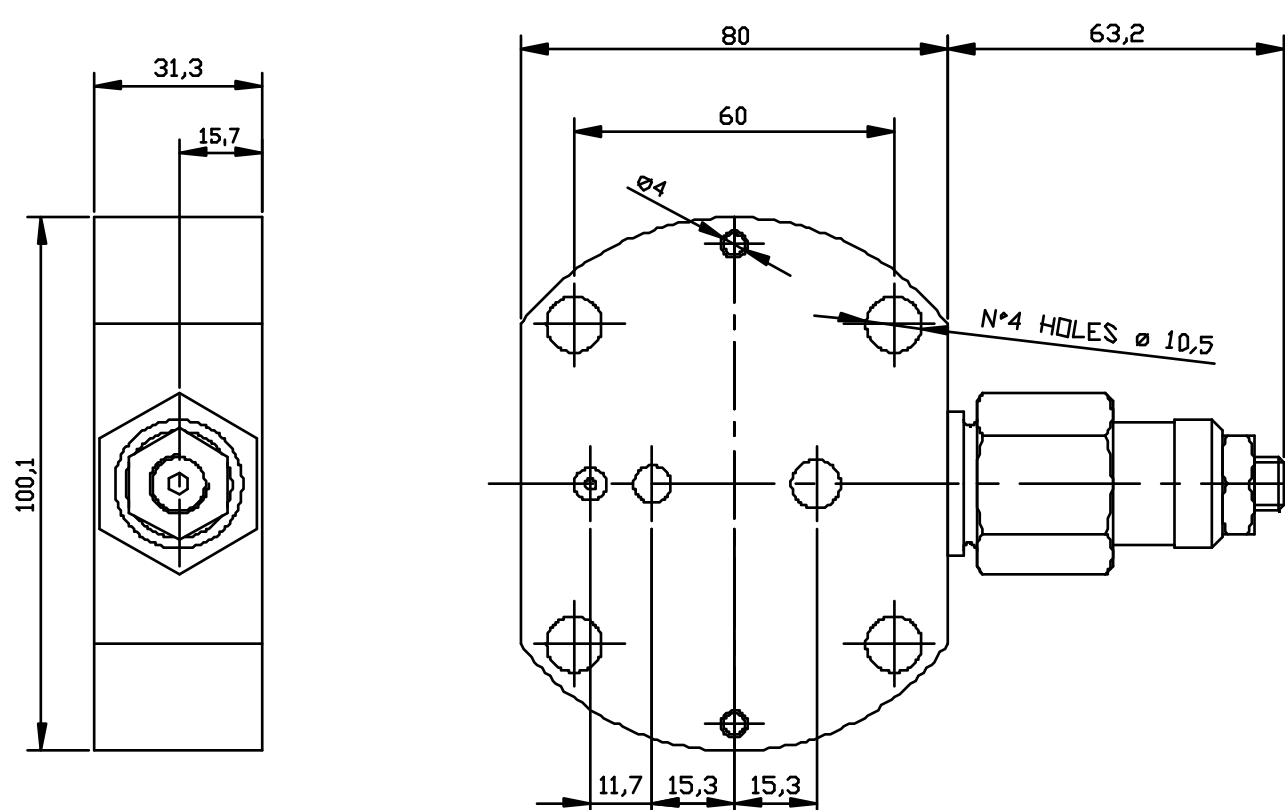
**OT200 M 08 D / G 28 P2 - VA**

See correspondent UNIDIRECTIONAL motor tables

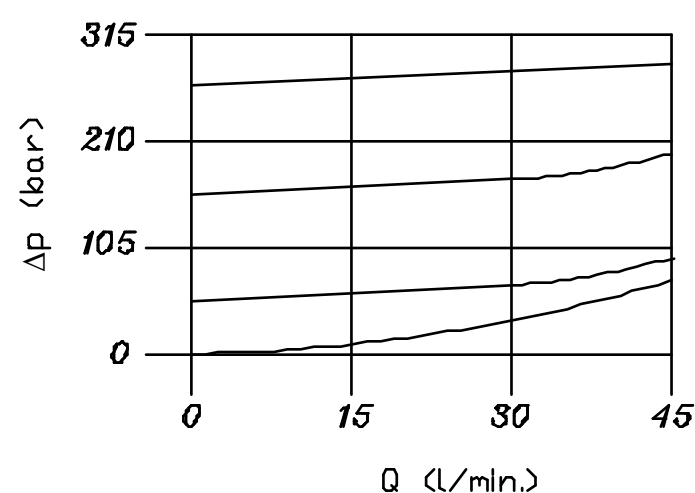
Rear cover with ANTICAVITATION VALVE

## REAR COVERS FOR GROUP2 PUMPS AND MOTORS

### REAR COVER WITH MAX. PRESSURE VALVE



**NOTE:** Max Flow 50 (l/min)  
 Valve opening pressure 95% of calibration value  
 Valve closing pressure 75% of calibration value



### EXAMPLE OF ORDERING CODE

**OT200 P 08 D / G 28 P2 - VMI - 180**

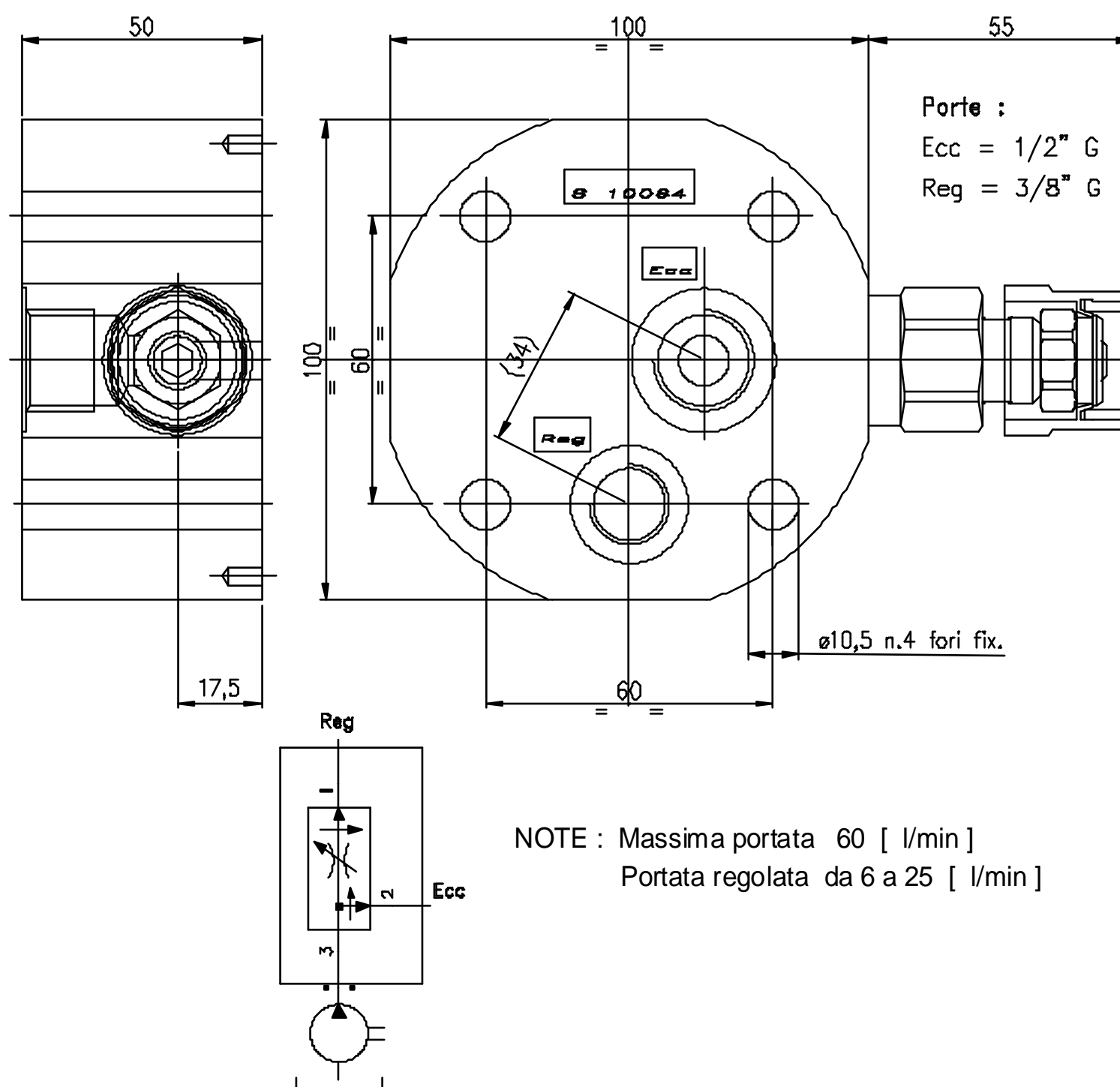
See correspondent UNIDIRECTIONAL pumps tables

Rear cover with max. press. valve

**Adjustable  
setting  
PRESSURE**

## COPERCHI POSTERIORI PER POMPE E MOTORI GRUPPO 2

### COPERCHIO PER POMPE CON VALVOLA PRIORITARIA



### ESEMPIO DI CODICE D'ORDINAZIONE

OT200 P 08 D / G 28 P2 - VP6

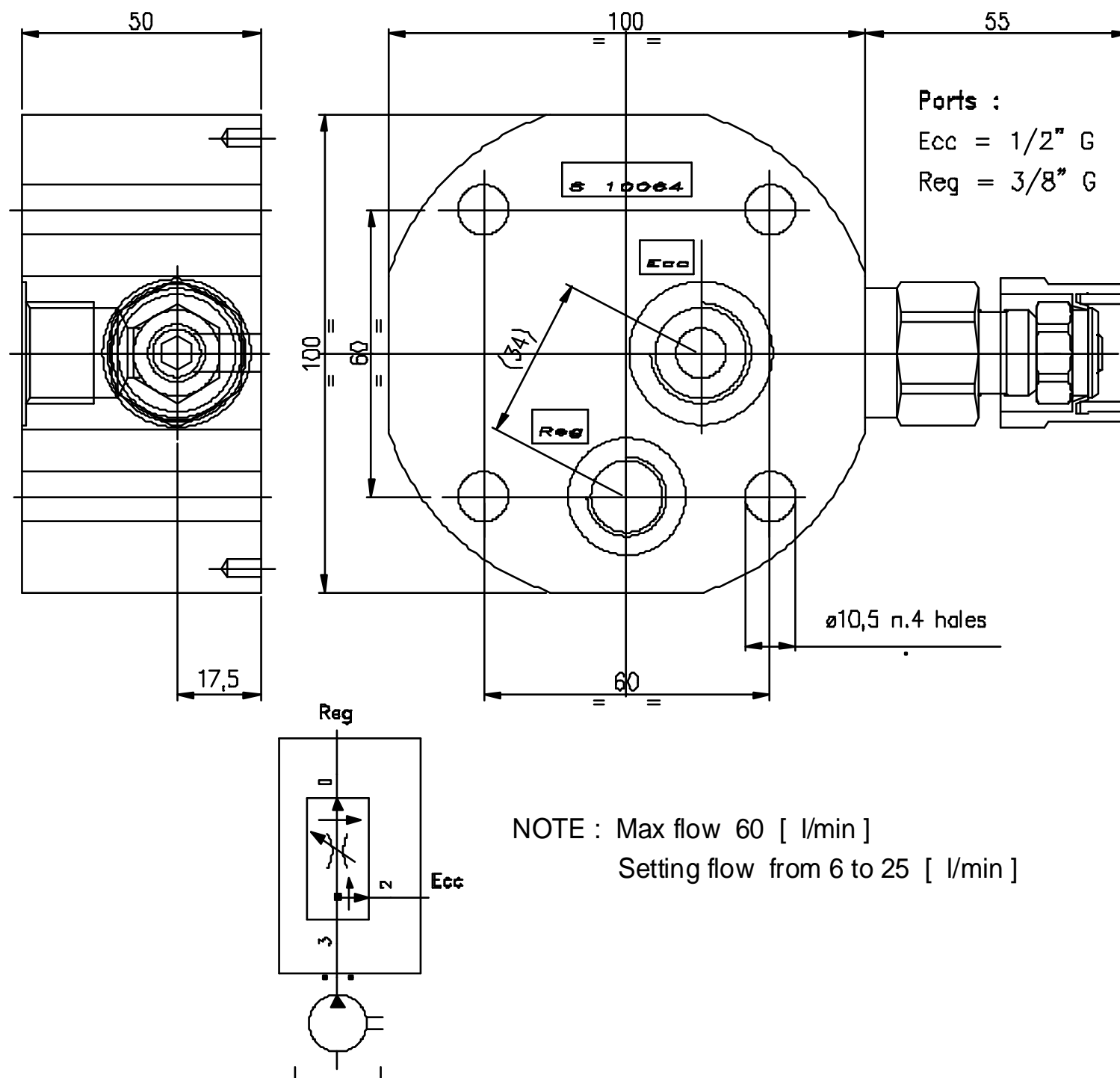
Vedi tabelle tecniche di corrispondenti pompe unidirezionali

Coperchio con VALVOLA PRIORITARIA



## REAR COVERS FOR GROUP2 PUMPS AND MOTORS

### REAR COVER WITH PRIORITY VALVE



### EXAMPLE OF ORDERING CODE

OT200 P 08 D / G 28 P2 - VP6

See correspondent UNIDIRECTIONAL pumps tables

Rear cover with PRIORITY valve