



POMPE GRUPPO 3

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 3 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 3

INDICE GENERALE

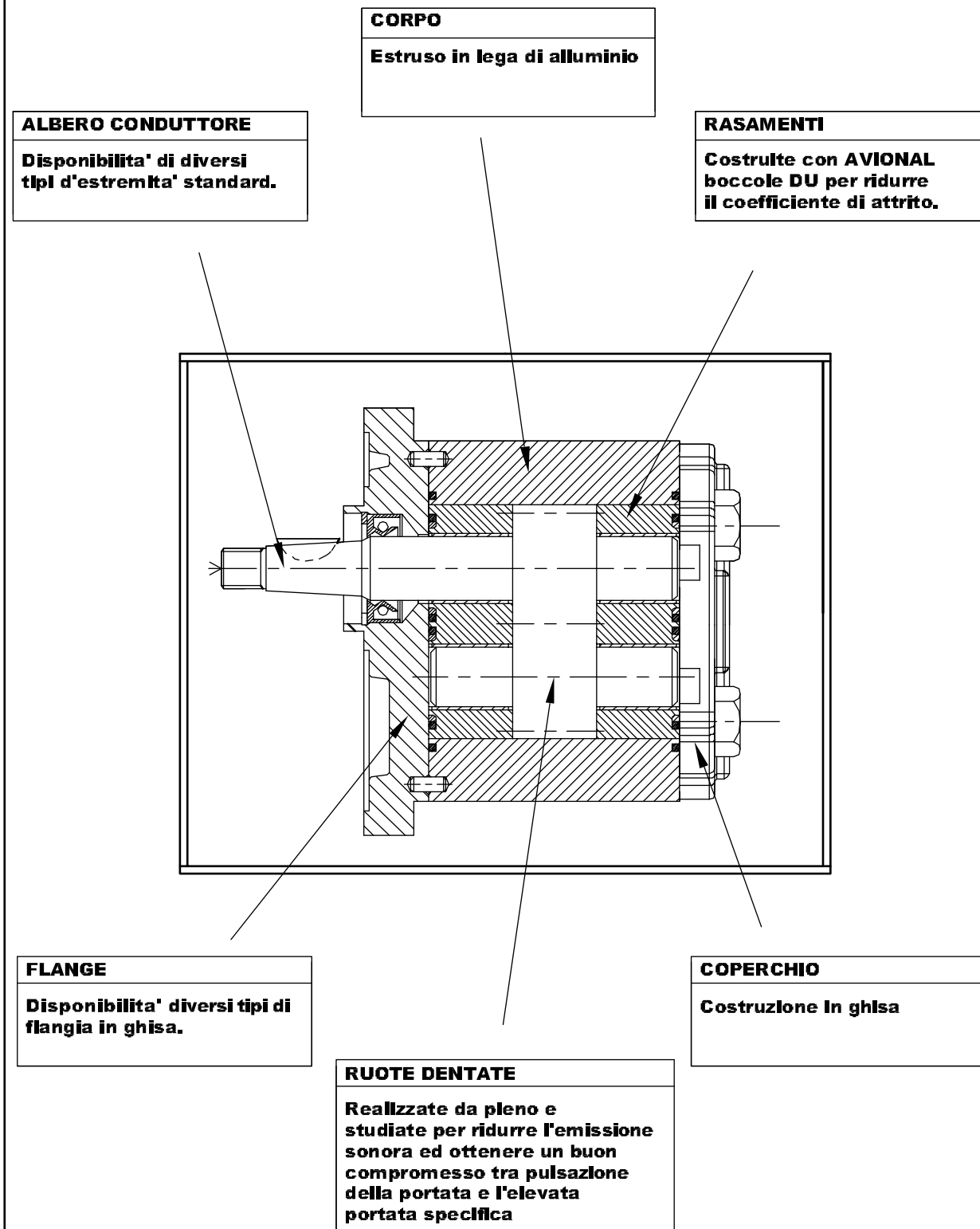
- Caratteristiche costruttive, generali e di impiego	Pag. 4 - 6 - 8 - 10
- Curve caratteristiche - determinazione di una pompa	Pag. 12 - 14
- Pompe standard Europeo	Pag. 16 - 18
- Pompe standard Americano SAE "B"	Pag. 20 - 22 - 24 - 26- 28 - 30
- Pompe tandem OT300-OT300	Pag. 32 - 34 - 36 - 38 - 40
- Pompe tandem OT300-OT200	Pag. 42 - 44 - 46 - 48 - 50
- Pompe intermedie	Pag. 52 - 54
- Pompe reversibili	Pag. 56 - 58
- Motori unidirezionali	Pag. 60
- Motori : curve caratteristiche	Pag. 62 - 64
- Motori reversibili	Pag. 66 - 68

GROUP 3 PUMPS

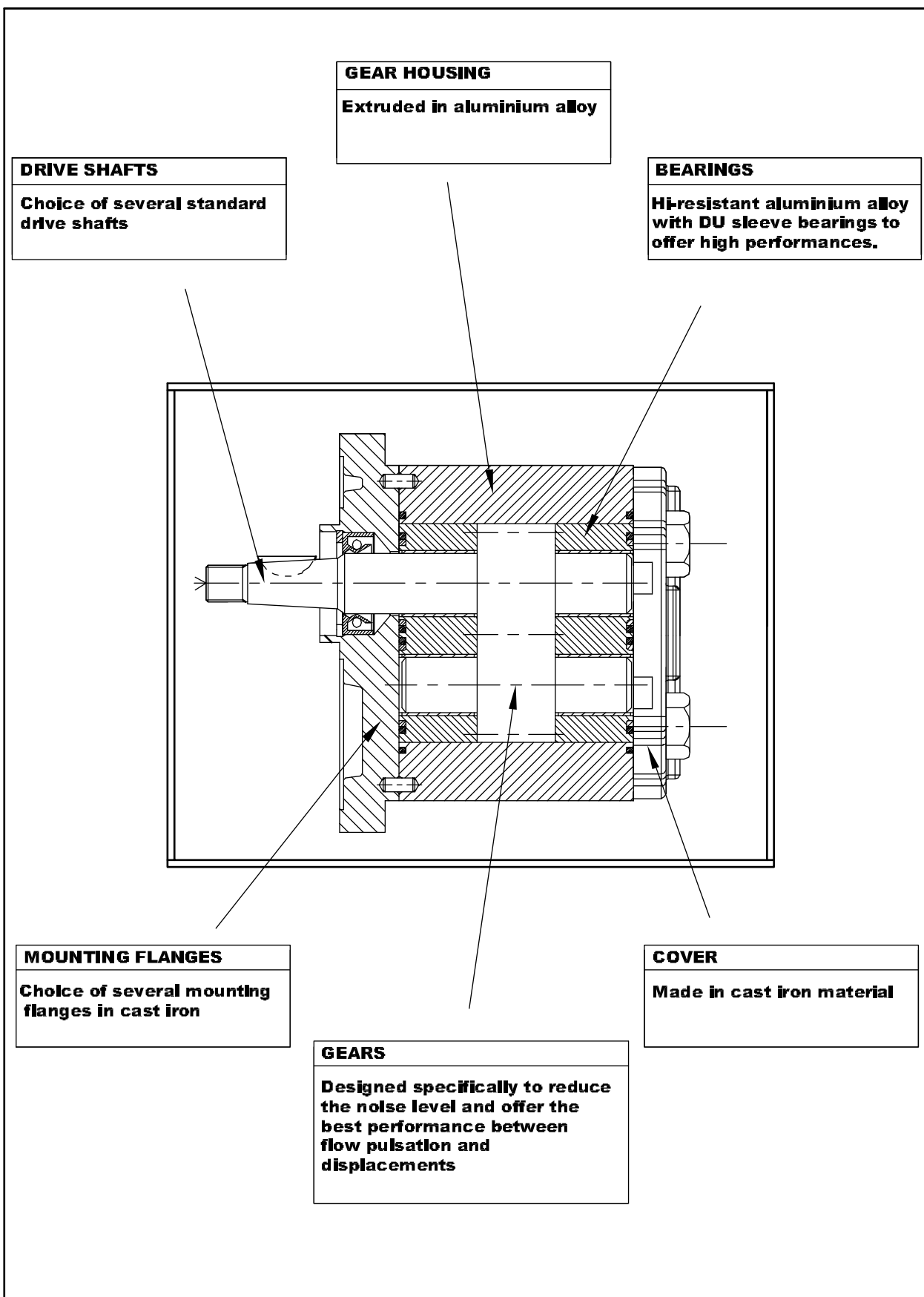
GENERAL INDEX

- Constructive and general characteristics, installation instructions	Pag. 5 - 7 - 9 - 11
- Characteristics curves - pump calculation	Pag. 13 - 15
- European standard pumps	Pag. 17 - 19
- SAE "B" standard pumps	Pag. 21 - 23 - 25 - 27 - 29 - 31
- Tandem pumps OT300-OT300	Pag. 33 - 35 - 37 - 39 - 41
- Tandem pumps OT300-OT200	Pag. 43 - 45 - 47 - 49 - 51
- Intermediate pumps	Pag. 53 - 55
- Reversible pumps	Pag. 57 - 59
- Unidirectional motors	Pag. 61
- Motors : characteristics curves	Pag. 63 - 65
- Reversible motors	Pag. 67 - 69

POMPE GRUPPO 3



GROUP 3 PUMPS



POMPE GRUPPO 3

CARATTERISTICHE COSTRUTTIVE

<i>PARTE</i>	<i>MATERIALE</i>	<i>CARATTERISTICHE</i>
<i>INGRANAGGI</i>	Acciaio da cement. UNI 7846	Rs= 1250 N/mm ² Rm= 1450 N/mm ²
<i>FLANGIA E COPERCHIO</i>	Ghisa G25 / G30	Rs= 300 N/mm ² Rm= 450 N/mm ²
<i>RASAMENTI</i>	Avional Boccole autolubrificanti DU	Rs= 350 N/mm ² Rm= 390 N/mm ²
<i>CORPO POMPA</i>	Estruso Lega serie 7020 trattato termicamente	Rs= 350 N/mm ² Rm= 390 N/mm ²
<i>GUARNIZIONI</i>	Acrilnitrile 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 8.2 Kg a 10.5 kg

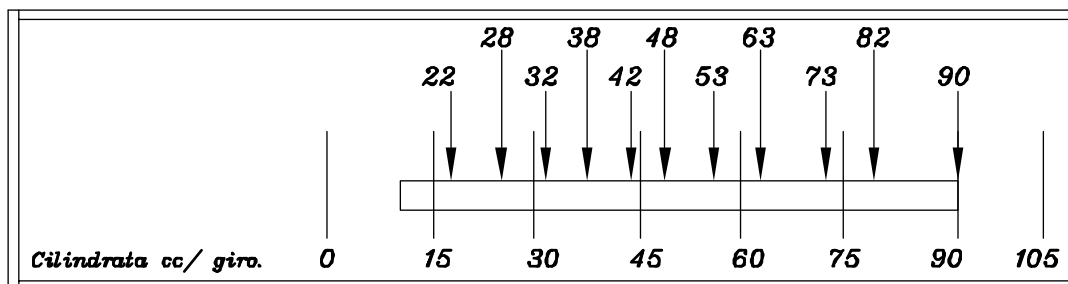
Regimi di rotazione fino a 3000 giri/min.

Alberi disponibili: Conico 1:8 con linguetta a disco.
Sae B-13 denti , Sae cilindrico Ø22.2

Versioni con flange: Standard europeo.
SAE "B".

Cilindrate da 22 cc/giro a 90 cc/giro.

Le cilindrate disponibili sono espresse nel seguente schema:



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.

GROUP 3 PUMPS

CONSTRUCTIVE CHARACTERISTICS:

<i>PART</i>	<i>MATERIAL</i>	<i>CHARACTERISTICS</i>
<i>GEARS</i>	Hardened steel UNI 7846	Rs= 1250 N/mm ² Rm= 1450 N/mm ²
<i>FLANGE AND COVER</i>	G25 / G30 cast Iron	Rs= 300 N/mm ² Rm= 450 N/mm ²
<i>BEARINGS</i>	Avlonal Bearings with DU	Rs= 350 N/mm ² Rm= 390 N/mm ²
<i>BODY</i>	Etruded in aluminium alloy Series 7020	Rs= 350 N/mm ² Rm= 390 N/mm ²
<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 I from 8.2 Kg to 10.5 kg

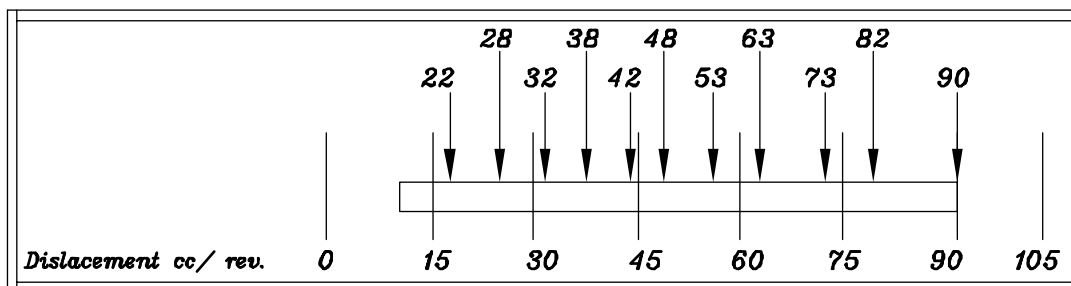
Maximum speed up to 3.000 rpm.

Type of shafts: Taper 1x8
SAE B splined-13 teeth
SAE B cylindrical - Ø22.2

Type of flanges: European standard
SAE A standard.

Displacements from 22 cc/rev to 90 cc/rev.

The displacements are available according this table:



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.

POMPE GRUPPO 3

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:

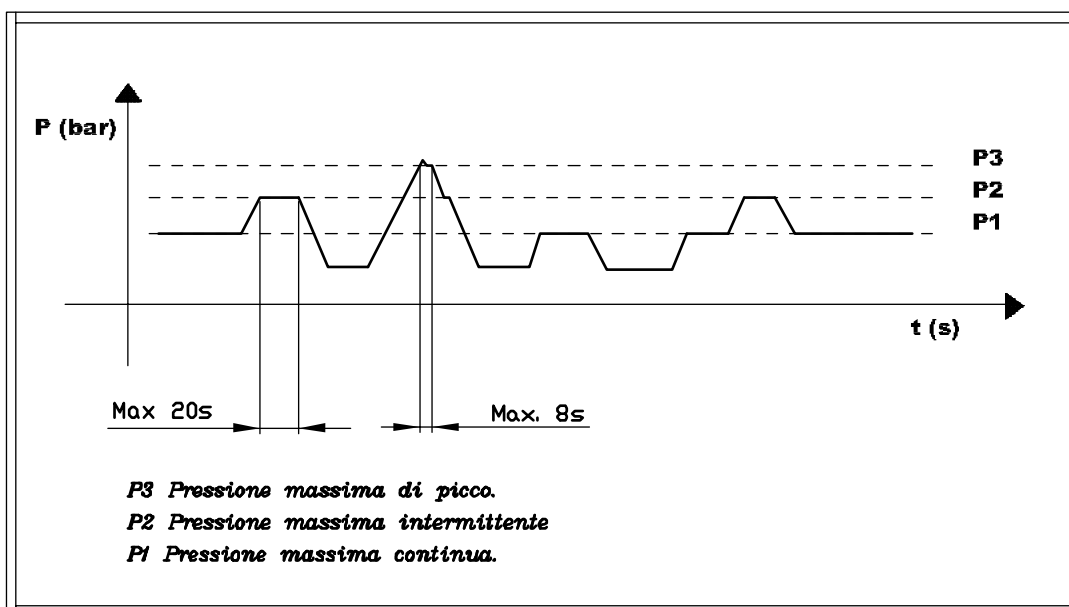
Min. 0.75 bar (assoluti)

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) è necessario diminuire la P1. La normale definizione delle pressioni di lavoro o ammesse è riportata nella seguente tabella:

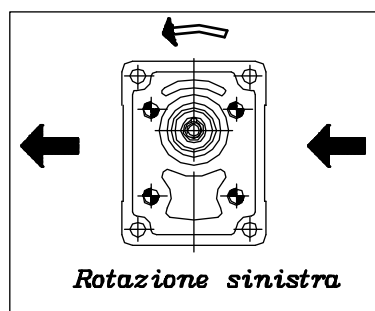
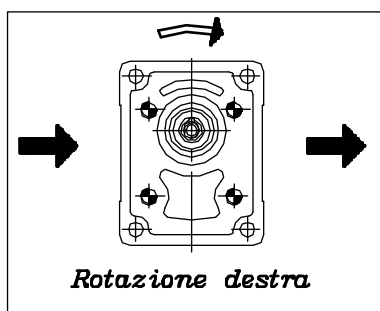


Per un regolare funzionamento i regimi di rotazione non debbono superare i valori max indicati, e riportati nelle relative tabelle, così come il regime minimo di rotazione non deve essere inferiore al seguente valore:

Min. = 400 giri/1'

Max = (vedi tabelle)

DEFINIZIONE DEL SENSO DI ROTAZIONE GUARDANDO L'ALBERO DI TRASCINAMENTO



GROUP 3 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:

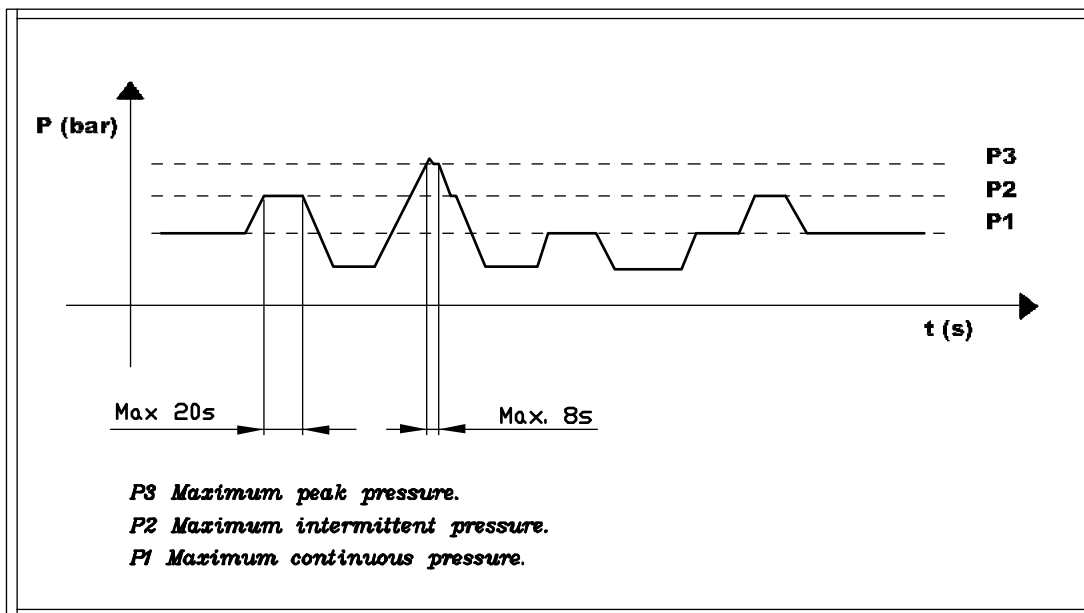
Min. 0.75 bar (absolute)

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:

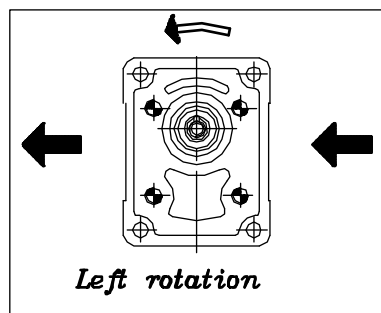
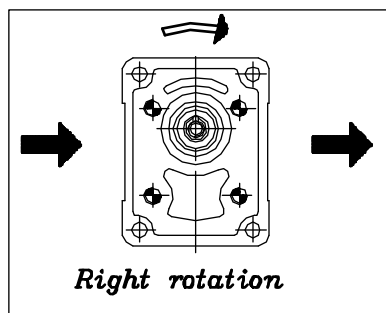


The standard working speeds (minimum and maximum) are the following:

Min. = 400 rpm

Max = (See following table)

DIRECTION OF ROTATION LOOKING AT THE SHAFT:



POMPE GRUPPO 3

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 inefficiente 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:

FILTRAGGIO IN INGRESSO	30 / 60 Micron nominali
FILTRAGGIO IN USCITA	10 / 25 Micron assoluti
VELOCITA' MAX IN INGRESSO	0.5 / 1.5 m/s
VELOCITA' MAX IN USCITA	3.0 / 5.5 m/s

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:

VISCOSITA' MINIMA	10 mm²/s
VISCOSITA' MASSIMA	100 mm²/s
VISCOSITA' CONSIGLIATA	20 mm²/s / 100 mm²/s
TEMPERATURA CONSIGLIATA	30°C / 50°C
TEMPERATURA DI ESERCIZIO	-15°C / +80°C

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 3 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 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>	30 / 60 Nominal micron
<i>FILTRATION IN PRESSURE LINE</i>	10 / 25 absolute micron
<i>MAXIMUM SPEED IN SUCTION</i>	0.5 / 1.5 m/s
<i>MAXIMUM SPEED IN OUTPUT</i>	3.0 / 5.5 m/s

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

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

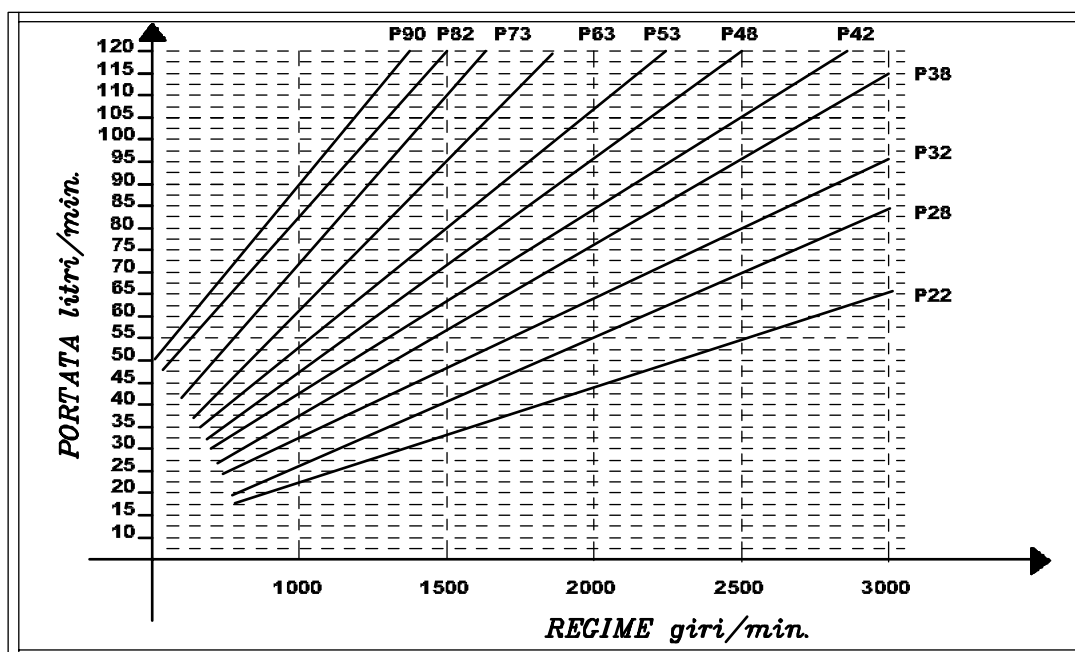
During the first starting it is recommended:

- 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

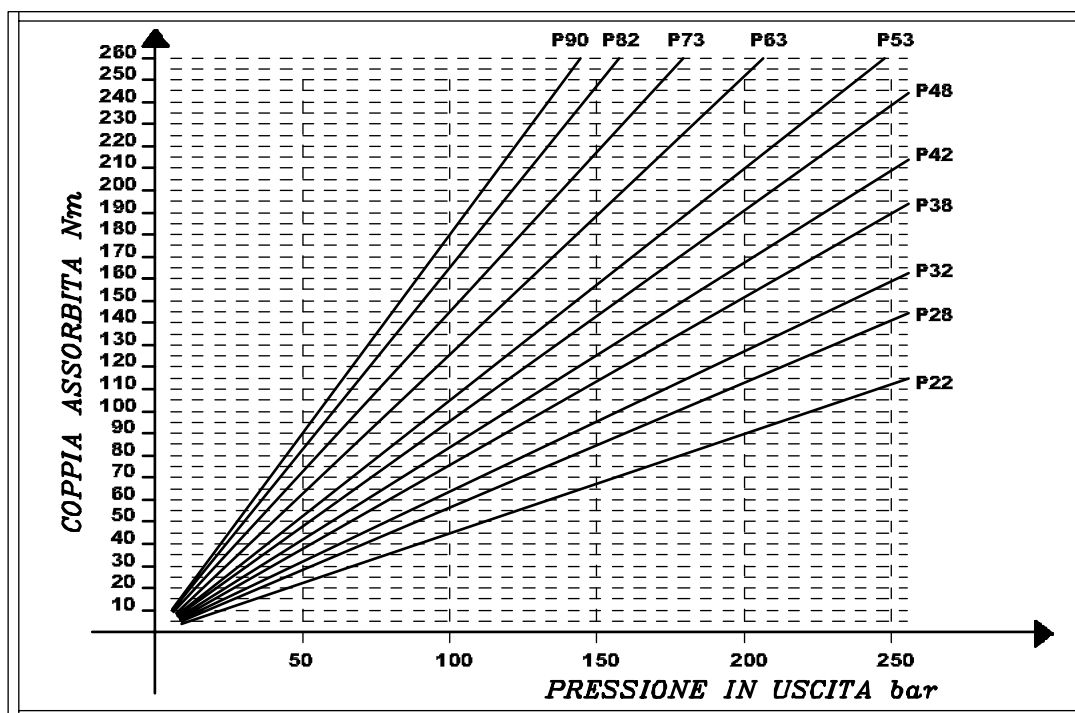
It is important to specify an oil tank at least twice the flow from the pump.

POMPE GRUPPO 3

CURVE CARATTERISTICHE DI PORTATA



COPPIA ASSORBITA

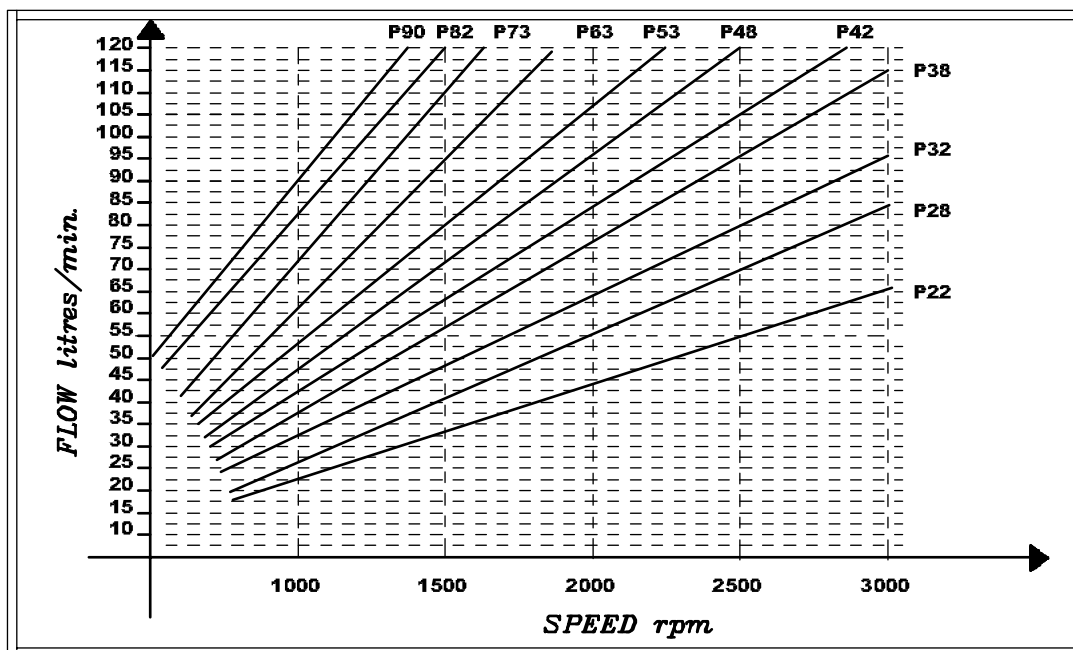


NOTE

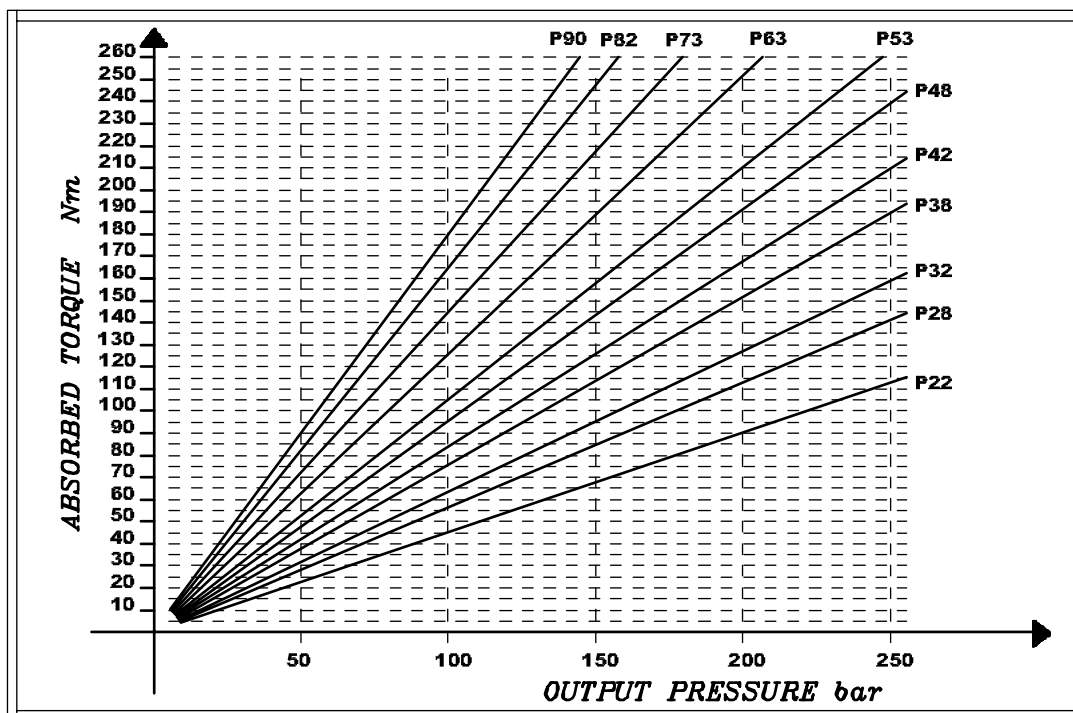
Le curve caratteristiche di portata sono state tracciate considerando un rendimento volumetrico del 95%

GROUP 3 PUMPS

FLOW CHARACTERISTICS CURVES



ABSORBED TORQUE



NOTE

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

POMPE GRUPPO 3

DETERMINAZIONE DI UNA POMPA

V	Cilindrata	cm^3/giro
Q	Portata	l/min
P	Potenza	kW
C	Coppia	$\text{N} \cdot \text{m}$
N	Velocita'	$-15^\circ\text{C} / +80^\circ\text{C}$
ΔP	Pressione	bar
η_v	Rendimento volumetrico	0,95
η_m	Rendimento meccanico	0,9
η_t	Rendimento totale	0,85

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

$$C = \frac{\Delta P \cdot V}{62.8 \cdot \eta_m} \quad \text{N} \cdot \text{m}$$

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

GROUP 3 PUMPS

PUMP CALCULATION

V	Displacement	CC / REV
Q	Flow	l/min
P	Power	kW
C	Torque	N · m
N	Speed	-15°C / +80°C
ΔP	Pressure	bar
η_v	Volumetric efficiency	0.95
η_m	Mechanical efficiency	0.9
η_t	Total efficiency	0.85

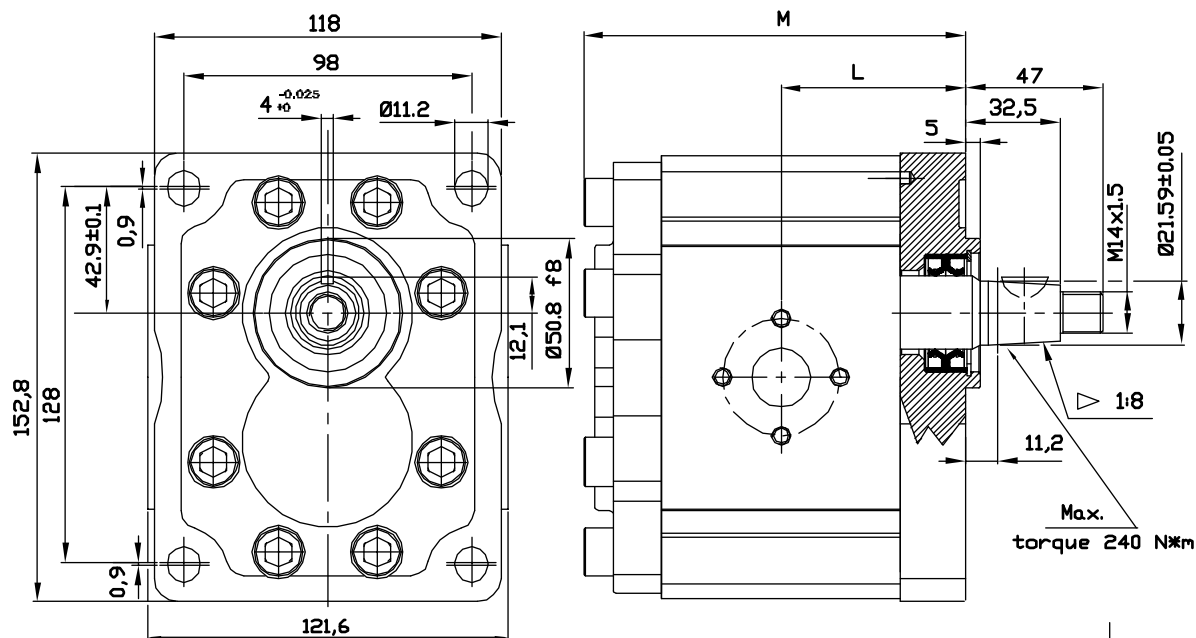
$$Q = V \cdot \eta_v \cdot N \cdot 10^{-3} \quad l/min$$

$$C = \frac{\Delta P \cdot V}{62.8 \cdot \eta_m} \quad N \cdot m$$

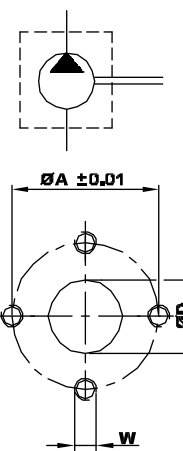
$$P = \frac{\Delta P \cdot V \cdot N}{612000 \cdot \eta_t} \quad kW$$

GROUP 3 PUMPS- EUROPEAN STANDARD

VERSION: P38 P3



Type	Displacement	Max working pressure P1	Peak pressure P3	Max speed	Dimension		Inlet port			Outlet port		
					L	M	ØD	ØA	W	ØD	ØA	W
	(cc/rev)	(bar)	(bar)	(r.p.m)	(mm)							
OT 300 P22	22	260	300	3000	57,4	119,3	27	51	M10	19	40	M8
OT 300 P28	28	260	300	3000	59,7	123,7	27	51	M10	19	40	M8
OT 300 P32	32	260	300	3000	61,2	126,9	27	51	M10	19	40	M8
OT 300 P38	38	240	280	3000	63,5	131,5	27	51	M10	19	40	M8
OT 300 P42	42	240	280	3000	65,0	134,5	27	51	M10	19	40	M8
OT 300 P48	48	240	280	3000	72,3	149,1	27	51	M10	19	40	M8
OT 300 P53	53	220	250	3000	74,2	152,9	27	51	M10	19	40	M8
OT 300 P63	63	200	240	2100	78,0	160,5	27	51	M10	19	40	M8
OT 300 P73	73	180	210	2100	81,9	168,2	36	62	M12	27	51	M10
OT 300 P82	82	170	200	2100	85,3	175,1	36	62	M12	27	51	M10
OT 300 P90	90	150	180	2100	88,3	181,1	36	62	M12	27	51	M10



EXAMPLE OF ORDERING CODE

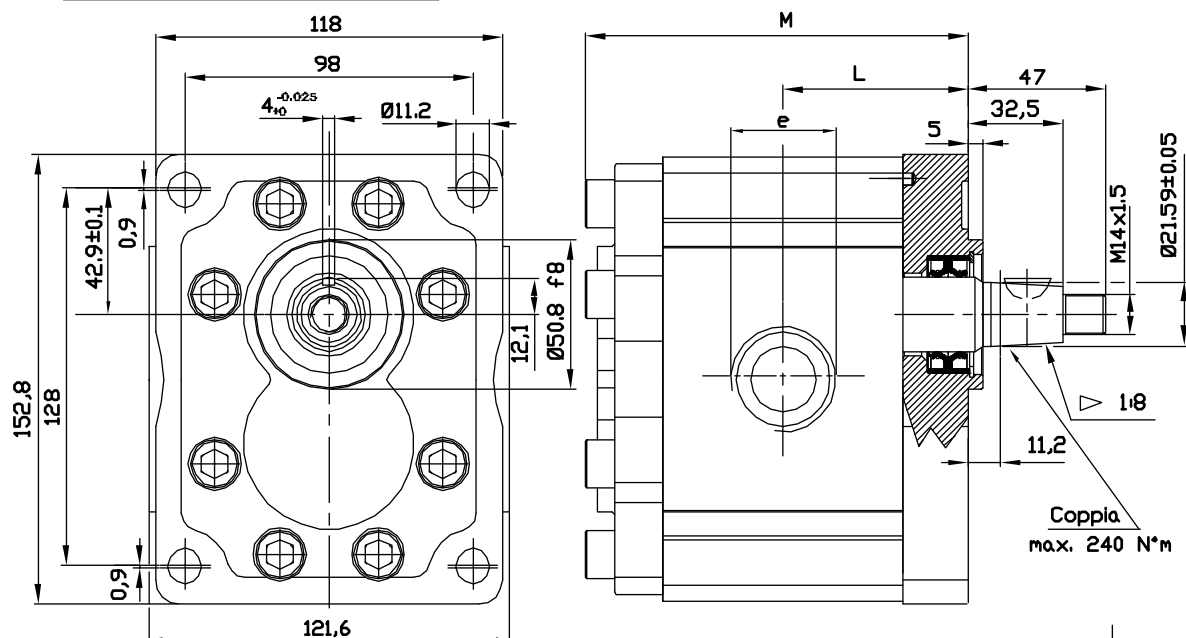
OT300 P 28 S / P 38 P3

Series	OT300	Pump	P	Displacement (see above table)	28	Rotation	S	Body for European flanges	P3	European standard flange	
							D				

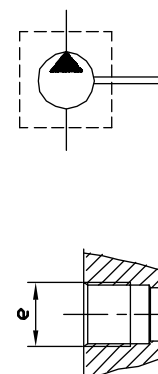
 AVAILABLE FOR QUANTITIES

POMPE GRUPPO 3- STANDARD EUROPEO

VERSIONE: G38 P3



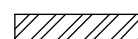
Tipo	Cilindrata (cc/giro)	Pressione massima continua P1 (bar)	Pressione di punta P3 (bar)	Velocita' massima (giri/min.)	Dimensione		Bocca di aspirazione e	Bocca di mandata e
					L	M		
					(mm)			
OT 300 P22	22	260	300	3000	57,4	119,3	G 1	G 3/4
OT 300 P28	28	260	300	3000	59,7	123,7	G 1	G 3/4
OT 300 P32	32	260	300	3000	61,2	126,9	G 1	G 3/4
OT 300 P38	38	240	280	3000	63,5	131,5	G 1	G 3/4
OT 300 P42	42	240	280	3000	65,0	134,5	G 1	G 3/4
OT 300 P48	48	240	280	3000	72,3	149,1	G 1	G 3/4
OT 300 P53	53	220	250	3000	74,2	152,9	G 1	G 3/4
OT 300 P63	63	200	240	2100	78,0	160,5	G 1+1/4	G 3/4
OT 300 P73	73	180	210	2100	81,9	168,2	G 1+1/4	G 1
OT 300 P82	82	170	200	2100	85,3	175,1	G 1+1/4	G 1
OT 300 P90	90	150	180	2100	88,3	181,1	G 1+1/4	G 1



ESEMPIO DI CODICE D'ORDINAZIONE

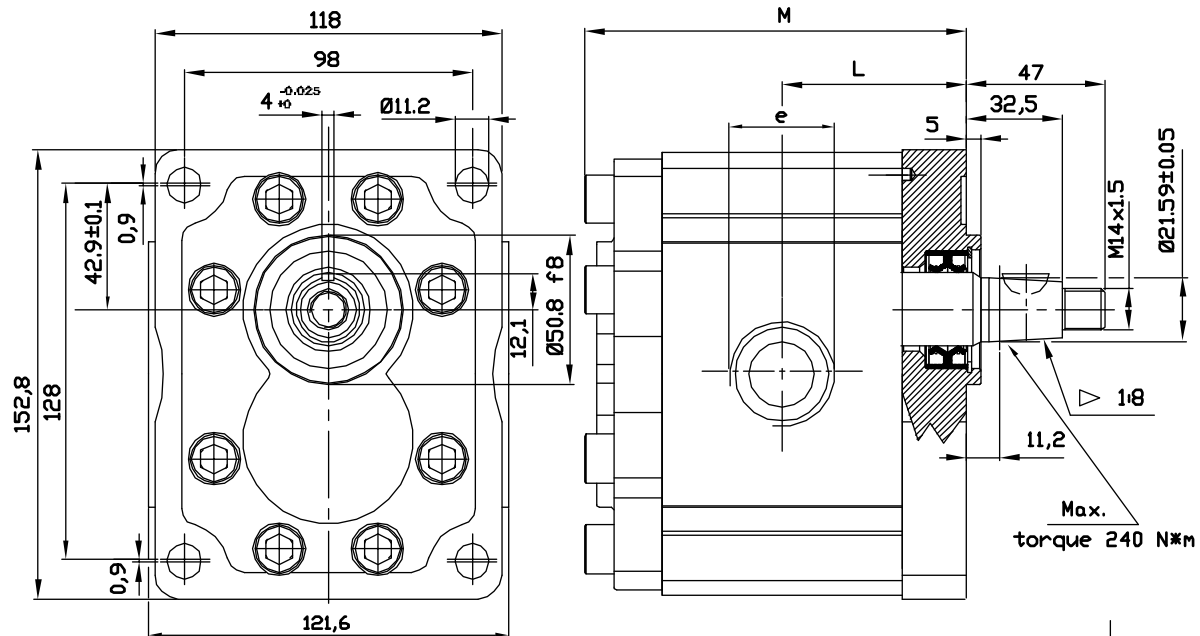
OT300 P 28 S / G 38 P3

Serie	OT300	P	28	S / G	38	P3	Flangia standard Europeo
Pompa							Albero conico (1:8)
Cilindrata (vedere tabella)							Corpo con bocche a filettate (GAS)
Rotazione							
S	Sinistra						
D	Destra						

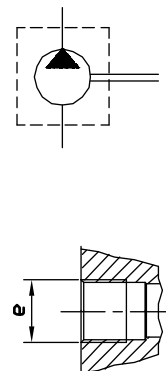
 DISPONIBILE PER QUANTITA'

GROUP 3 PUMPS- EUROPEAN STANDARD

VERSION: G38 P3



Type	Displacement (cc/rev)	Max working pressure P1 (bar)	Peak pressure P3 (bar)	Max speed (r.p.m)	Dimension		Inlet port e	Outlet port e
					L	M		
					(mm)			
OT 300 P22	22	260	300	3000	57,4	119,3	G 1	G 3/4
OT 300 P28	28	260	300	3000	59,7	123,7	G 1	G 3/4
OT 300 P32	32	260	300	3000	61,2	126,9	G 1	G 3/4
OT 300 P38	38	240	280	3000	63,5	131,5	G 1	G 3/4
OT 300 P42	42	240	280	3000	65,0	134,5	G 1	G 3/4
OT 300 P48	48	240	280	3000	72,3	149,1	G 1	G 3/4
OT 300 P53	53	220	250	3000	74,2	152,9	G 1	G 3/4
OT 300 P63	63	200	240	2100	78,0	160,5	G 1+1/4	G 3/4
OT 300 P73	73	180	210	2100	81,9	168,2	G 1+1/4	G 1
OT 300 P82	82	170	200	2100	85,3	175,1	G 1+1/4	G 1
OT 300 P90	90	150	180	2100	88,3	181,1	G 1+1/4	G 1



EXAMPLE OF ORDERING CODE

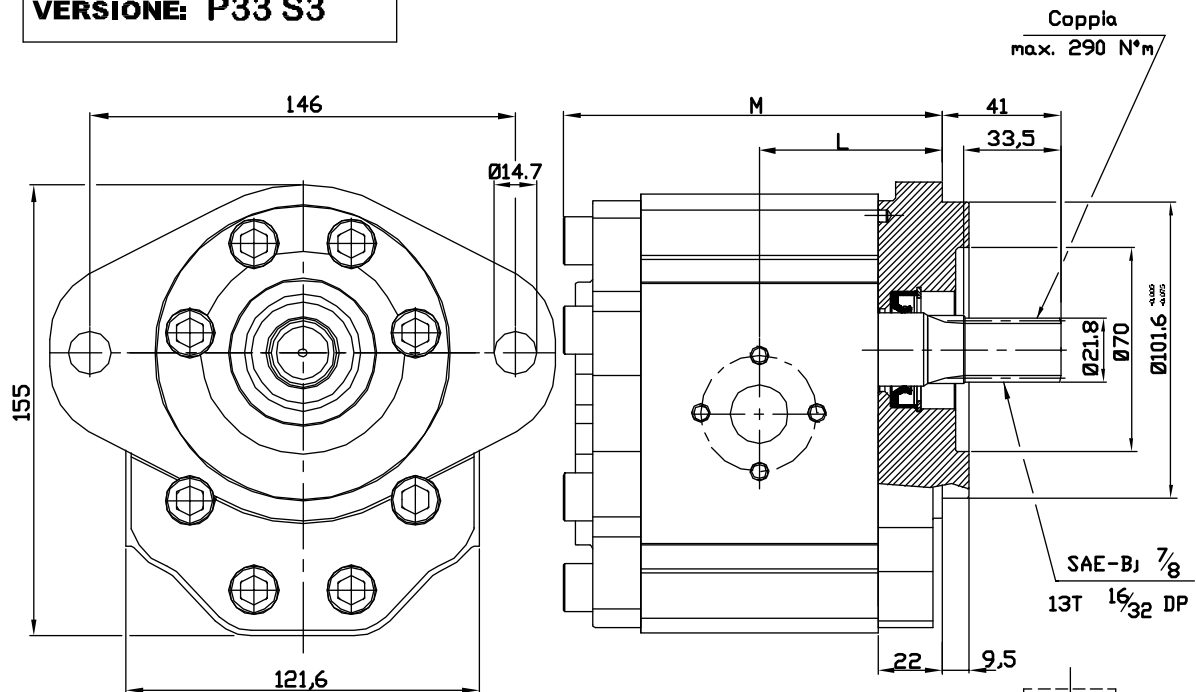
OT300 P 28 S / G 38 P3

Series	P	28	S / G	38	P3	European standard flange
Pump						Taper shaft (1:8)
Displacement (see abovetable)						Body with threaded ports (BSP)
Rotation						
S	Anti-clockwise					
D	Clockwise					

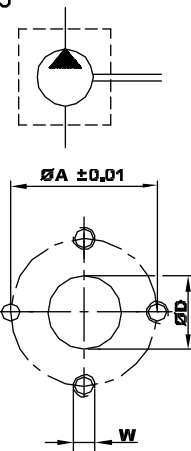
 AVAILABLE FOR QUANTITIES

POMPE GRUPPO 3- SAE "B" STANDARD

VERSIONE: P33 S3



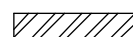
Tipo	Cilindrata (cc/giro)	Pressione massima continua P1 (bar)	Pressione di punta P3 (bar)	Velocita' massima (giri/min.)	Dimensione L M		Bocca di aspirazione			Bocca di mandata		
					(mm)		ØD	ØA	W	ØD	ØA	W
OT 300 P22	22	260	300	3000	57,4	119,3	27	51	M10	19	40	M8
OT 300 P28	28	260	300	3000	59,7	123,7	27	51	M10	19	40	M8
OT 300 P32	32	260	300	3000	61,2	126,9	27	51	M10	19	40	M8
OT 300 P38	38	240	280	3000	63,5	131,5	27	51	M10	19	40	M8
OT 300 P42	42	240	280	3000	65,0	134,5	27	51	M10	19	40	M8
OT 300 P48	48	240	280	3000	72,3	149,1	27	51	M10	19	40	M8
OT 300 P53	53	220	250	3000	74,2	152,9	27	51	M10	19	40	M8
OT 300 P63	63	200	240	2100	78,0	160,5	27	51	M10	19	40	M8
OT 300 P73	73	180	210	2100	81,9	168,2	36	62	M12	27	51	M10
OT 300 P82	82	170	200	2100	85,3	175,1	36	62	M12	27	51	M10
OT 300 P90	90	150	180	2100	88,3	181,1	36	62	M12	27	51	M10



ESEMPIO DI CODICE D'ORDINAZIONE

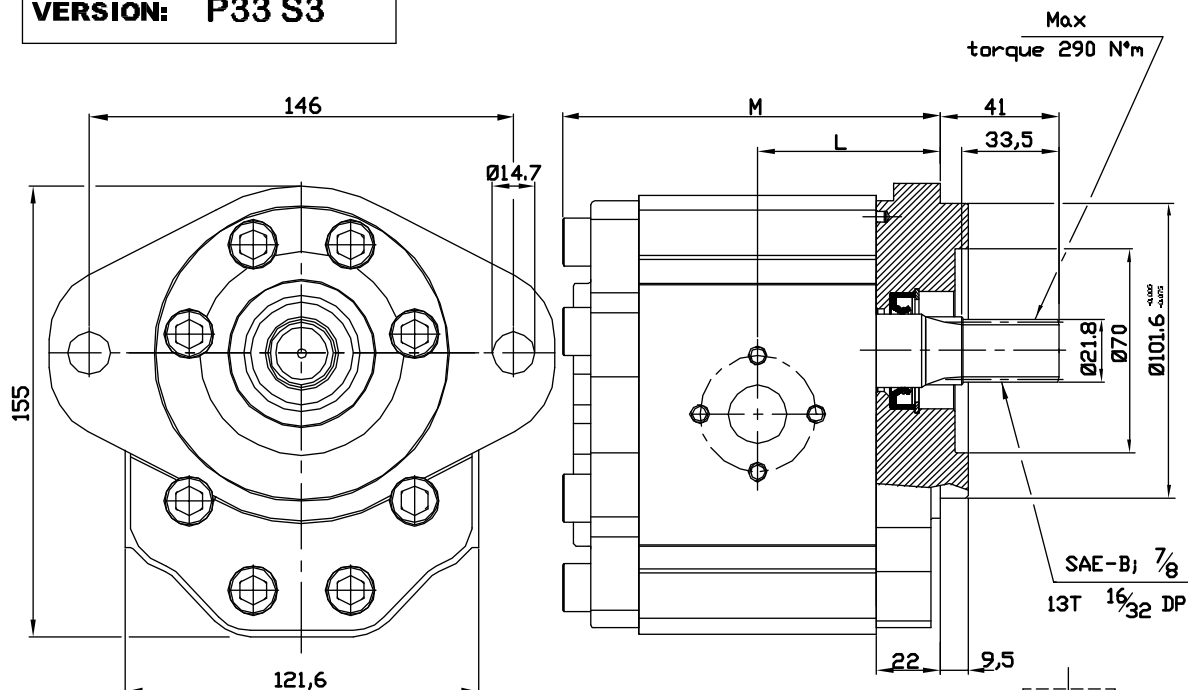
OT300 P 28 S / P 33 S3

Serie	P	28	S / P	33	S3	Flangia SAE "B" standard
Pompa						Albero scanalato SAE "B" 13 T
Cilindrata (vedere tabella)						Corpo con bocche a flangia
Rotazione						
S	Sinistra					
D	Destra					

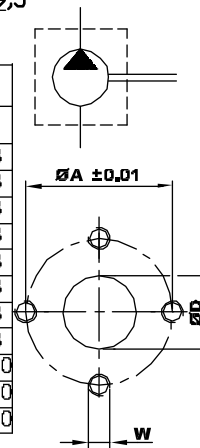
 DISPONIBILE PER QUANTITA'

GROUP 3 PUMPS- SAE B STANDARD

VERSION: P33 S3



Type	Displacement	Max working pressure P1	Peak pressure P3	Max speed	Dimension		Inlet port			Outlet port		
					L	M	ØD	ØA	W	ØD	ØA	W
	(cc/rev)	(bar)	(bar)	(r.p.m)	(mm)							
OT 300 P22	22	260	300	3000	57,4	119,3	27	51	M10	19	40	M8
OT 300 P28	28	260	300	3000	59,7	123,7	27	51	M10	19	40	M8
OT 300 P32	32	260	300	3000	61,2	126,9	27	51	M10	19	40	M8
OT 300 P38	38	240	280	3000	63,5	131,5	27	51	M10	19	40	M8
OT 300 P42	42	240	280	3000	65,0	134,5	27	51	M10	19	40	M8
OT 300 P48	48	240	280	3000	72,3	149,1	27	51	M10	19	40	M8
OT 300 P53	53	220	250	3000	74,2	152,9	27	51	M10	19	40	M8
OT 300 P63	63	200	240	2100	78,0	160,5	27	51	M10	19	40	M8
OT 300 P73	73	180	210	2100	81,9	168,2	36	62	M12	27	51	M10
OT 300 P82	82	170	200	2100	85,3	175,1	36	62	M12	27	51	M10
OT 300 P90	90	150	180	2100	88,3	181,1	36	62	M12	27	51	M10



EXAMPLE OF ORDERING CODE

OT300 P 28 S / P 33 S3

Series

Pump

Displacement (see above table)

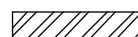
Rotation

S Anti-clockwise
D Clockwise

SAE B flange

SAE B splined 13 Teeth-16/32 DP

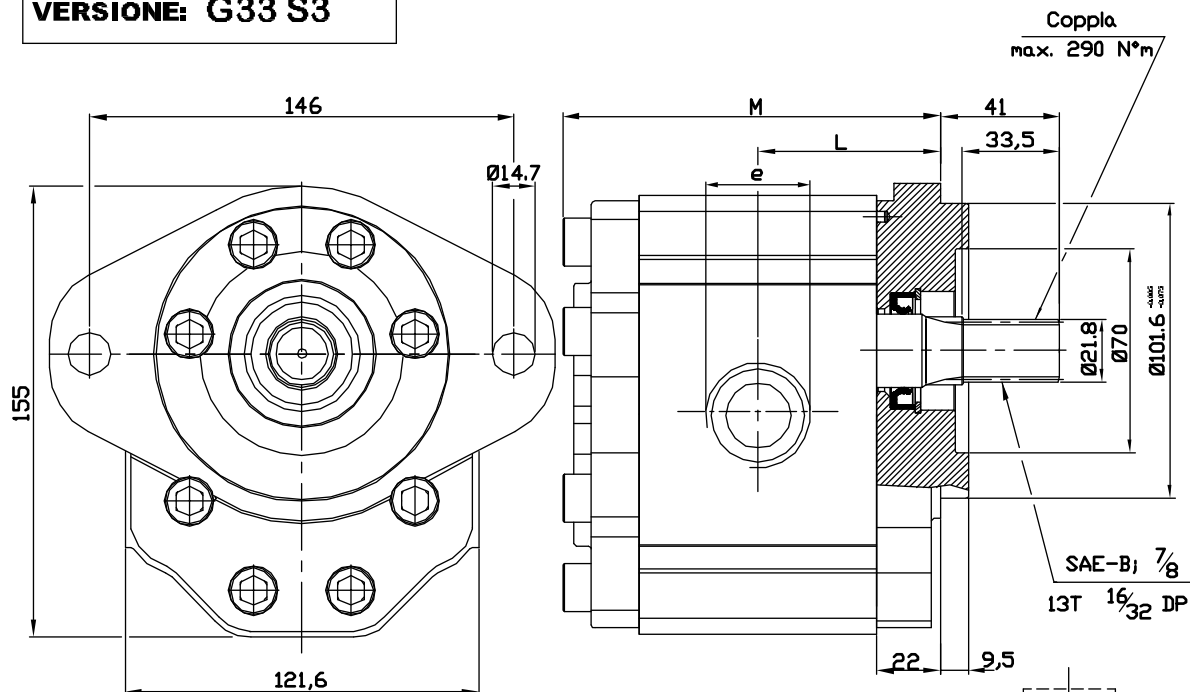
Body for European flanges



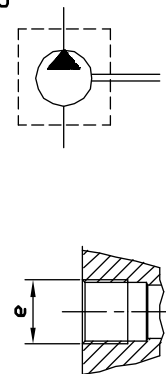
AVAILABLE FOR QUANTITIES

POMPE GRUPPO 3- SAE "B" STANDARD

VERSIONE: G33 S3



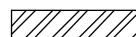
Tipo	Cilindrata (cc/giro)	Pressione massima continua P1 (bar)	Pressione di punta P3 (bar)	Velocità massima (giri/min.)	Dimensione L M (mm)		Bocca di aspirazione e	Bocca di mandata e
OT 300 P22	22	260	300	3000	57,4	119,3	G 1	G 3/4
OT 300 P28	28	260	300	3000	59,7	123,7	G 1	G 3/4
OT 300 P32	32	260	300	3000	61,2	126,9	G 1	G 3/4
OT 300 P38	38	240	280	3000	63,5	131,5	G 1	G 3/4
OT 300 P42	42	240	280	3000	65,0	134,5	G 1	G 3/4
OT 300 P48	48	240	280	3000	72,3	149,1	G 1	G 3/4
OT 300 P53	53	220	250	3000	74,2	152,9	G 1	G 3/4
OT 300 P63	63	200	240	2100	78,0	160,5	G 1+1/4	G 3/4
OT 300 P73	73	180	210	2100	81,9	168,2	G 1+1/4	G 1
OT 300 P82	82	170	200	2100	85,3	175,1	G 1+1/4	G 1
OT 300 P90	90	150	180	2100	88,3	181,1	G 1+1/4	G 1



ESEMPIO DI CODICE D'ORDINAZIONE

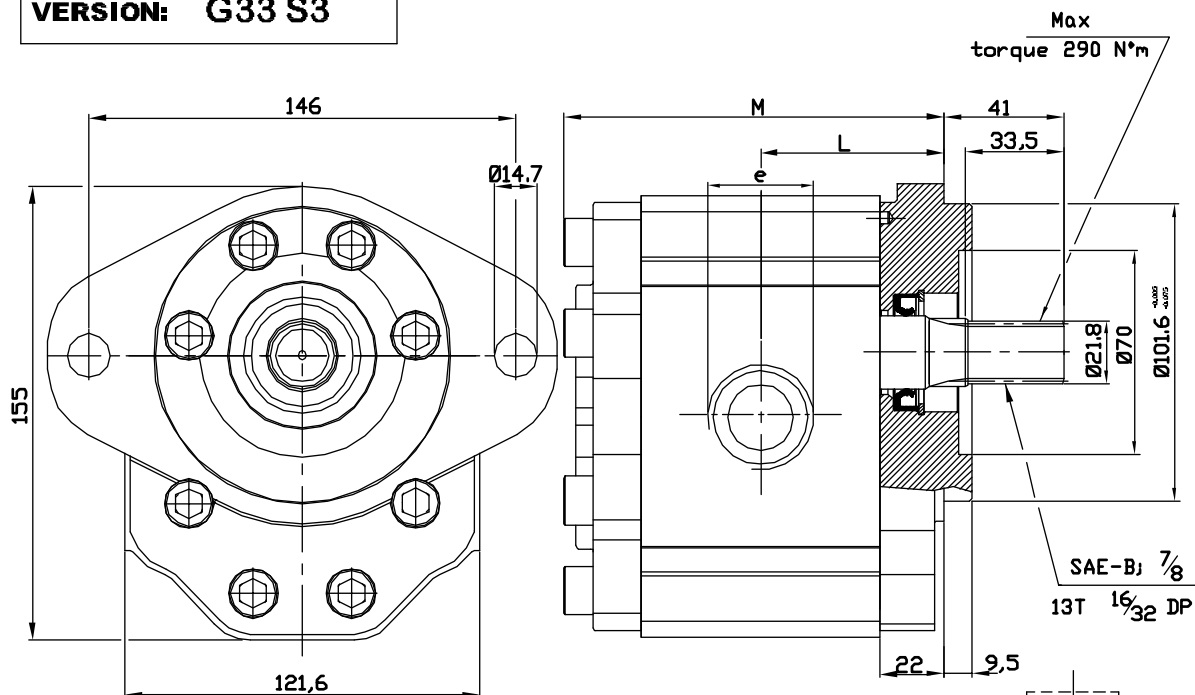
OT300 P 28 S / G 33 S3

Serie	Flangia SAE "B" standard
Pompa	Albero scanalato SAE "B" 13 T
Cilindrata (vedere tabella)	Corpo con bocche a filettate (GAS)
Rotazione	
S Sinistra	
D Destra	

 DISPONIBILE PER QUANTITA'

GROUP 3 PUMPS- SAE B STANDARD

VERSION: G33 S3



Type	Displacement (cc/rev)	Max working pressure P1 (bar)	Peak pressure P3 (bar)	Max speed (r.p.m)	Dimension		Inlet port e	Outlet port e
					L	M		
					(mm)			
OT 300 P22	22	260	300	3000	57,4	119,3	G 1	G 3/4
OT 300 P28	28	260	300	3000	59,7	123,7	G 1	G 3/4
OT 300 P32	32	260	300	3000	61,2	126,9	G 1	G 3/4
OT 300 P38	38	240	280	3000	63,5	131,5	G 1	G 3/4
OT 300 P42	42	240	280	3000	65,0	134,5	G 1	G 3/4
OT 300 P48	48	240	280	3000	72,3	149,1	G 1	G 3/4
OT 300 P53	53	220	250	3000	74,2	152,9	G 1	G 3/4
OT 300 P63	63	200	240	2100	78,0	160,5	G 1+1/4	G 3/4
OT 300 P73	73	180	210	2100	81,9	168,2	G 1+1/4	G 1
OT 300 P82	82	170	200	2100	85,3	175,1	G 1+1/4	G 1
OT 300 P90	90	150	180	2100	88,3	181,1	G 1+1/4	G 1

EXAMPLE OF ORDERING CODE

OT300 P 28 S / G 33 S3

Series

Pump

Displacement (see above table)

Rotation

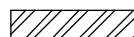
S Anti-clockwise

D Clockwise

SAE B flange

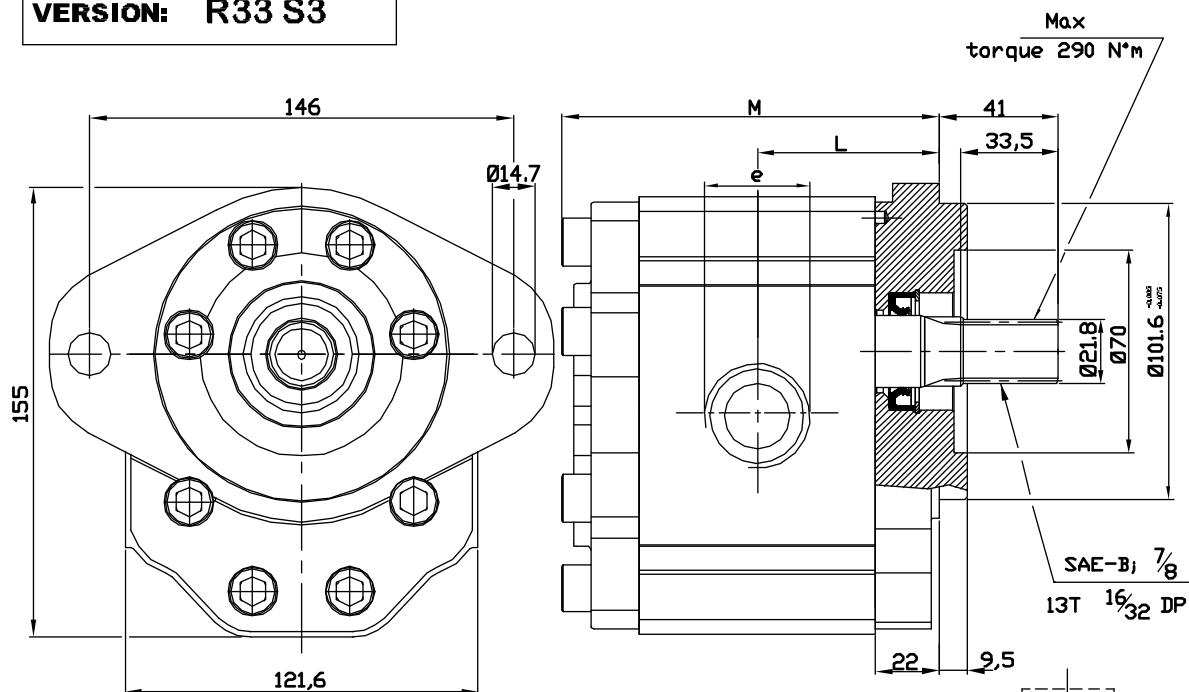
SAE B splined 13 Teeth-16/32 DP

Body with threaded ports (BSP)

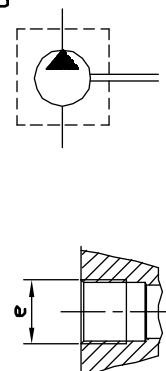
 AVAILABLE FOR QUANTITIES

GROUP 3 PUMPS- SAE B STANDARD

VERSION: R33 S3



Type	Displacement (cc/rev)	Max working pressure P1 (bar)	Peak pressure P3 (bar)	Max speed (r.p.m)	Dimension		Inlet port e	Outlet port e
					L	M		
					(mm)			
OT 300 P22	22	260	300	3000	57,4	119,3	1-5/16" UNF	1-1/16" UNF
OT 300 P28	28	260	300	3000	59,7	123,7	1-5/16" UNF	1-1/16" UNF
OT 300 P32	32	260	300	3000	61,2	126,9	1-5/16" UNF	1-1/16" UNF
OT 300 P38	38	240	280	3000	63,5	131,5	1-5/8" UNF	1-5/16" UNF
OT 300 P42	42	240	280	3000	65,0	134,5	1-5/8" UNF	1-5/16" UNF
OT 300 P48	48	240	280	3000	72,3	149,1	1-5/8" UNF	1-5/16" UNF
OT 300 P53	53	220	250	3000	74,2	152,9	1-5/8" UNF	1-5/16" UNF
OT 300 P63	63	200	240	2100	78,0	160,5	1-5/8" UNF	1-5/16" UNF
OT 300 P73	73	180	210	2100	81,9	168,2	1-7/8" UNF	1-5/8" UNF
OT 300 P82	82	170	200	2100	85,3	175,1	1-7/8" UNF	1-5/8" UNF
OT 300 P90	90	150	180	2100	88,3	181,1	1-7/8" UNF	1-5/8" UNF



EXAMPLE OF ORDERING CODE

OT300 P 28 S / R 33 S3

Series

Pump

Displacement (see above table)

Rotation

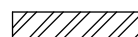
S Anti-clockwise

D Clockwise

SAE B flange

SAE B splined 13 Teeth-16/32 DP

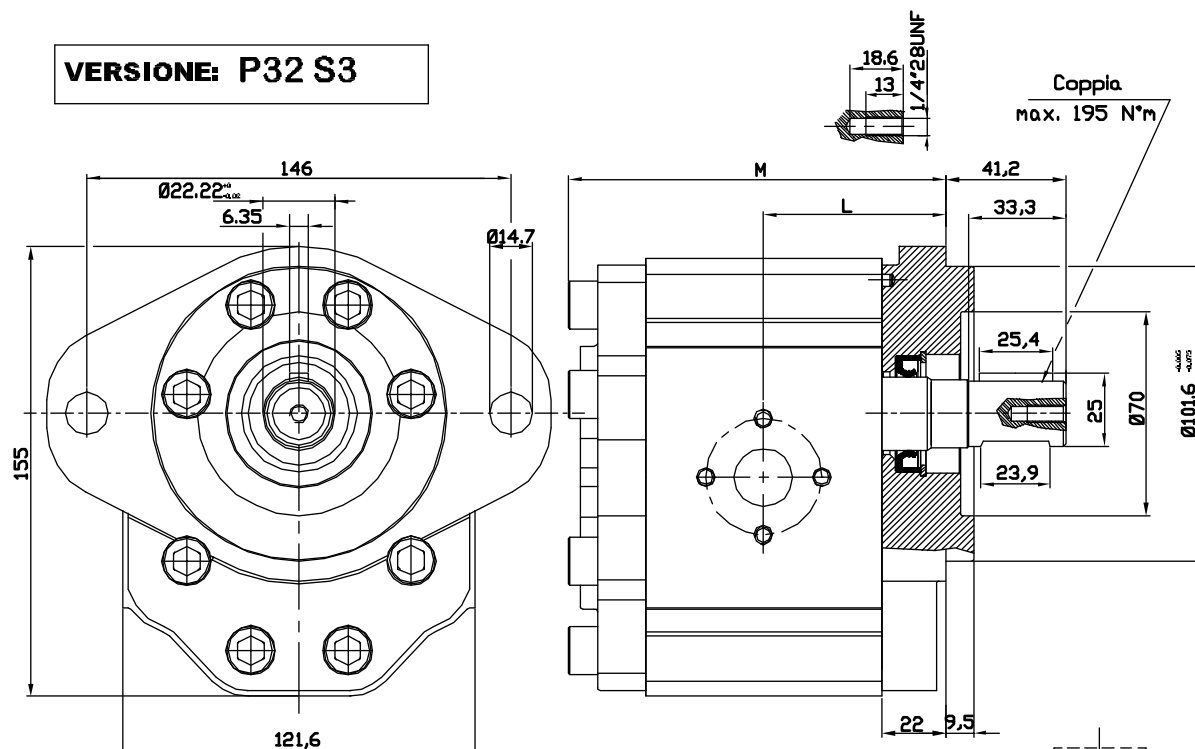
Body with O-ring boss ports



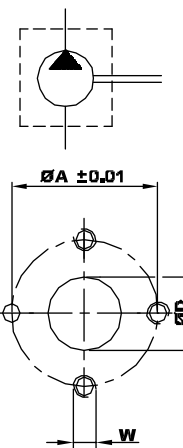
AVAILABLE FOR QUANTITIES

POMPE GRUPPO 3- SAE "B" STANDARD

VERSIONE: P32 S3



Tipo	Cilindrata (cc/giro)	Pressione massima continua P1 (bar)	Pressione di punta P3 (bar)	Velocità massima (giri/min.)	Dimensione L M (mm)		Bocca di aspirazione			Bocca di mandata		
							$\varnothing D$	$\varnothing A$	W	$\varnothing D$	$\varnothing A$	W
OT 300 P22	22	260	300	3000	57,4	119,3	27	51	M10	19	40	M8
OT 300 P28	28	260	300	3000	59,7	123,7	27	51	M10	19	40	M8
OT 300 P32	32	260	300	3000	61,2	126,9	27	51	M10	19	40	M8
OT 300 P38	38	240	280	3000	63,5	131,5	27	51	M10	19	40	M8
OT 300 P42	42	240	280	3000	65,0	134,5	27	51	M10	19	40	M8
OT 300 P48	48	240	280	3000	72,3	149,1	27	51	M10	19	40	M8
OT 300 P53	53	220	250	3000	74,2	152,9	27	51	M10	19	40	M8
OT 300 P63	63	200	240	2100	78,0	160,5	27	51	M10	19	40	M8
OT 300 P73	73	180	210	2100	81,9	168,2	36	62	M12	27	51	M10
OT 300 P82	82	170	200	2100	85,3	175,1	36	62	M12	27	51	M10
OT 300 P90	90	150	180	2100	88,3	181,1	36	62	M12	27	51	M10



ESEMPIO DI CODICE D'ORDINAZIONE

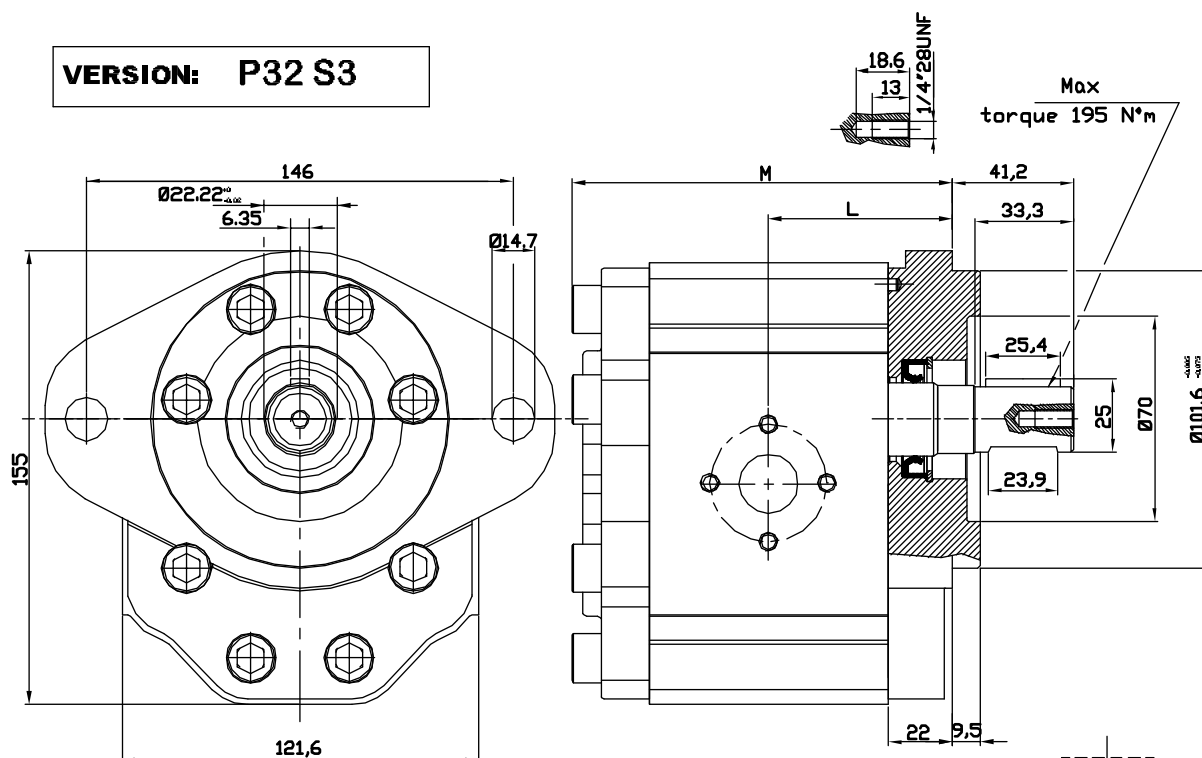
OT300 P 28 S / P 32 S3

Serie	P	28	S / P	32	S3	Flangia SAE "B" standard
Pompa						Albero cilindrico SAE B $\varnothing 22,2$
Cilindrata (vedere tabella)						Corpo con bocche a flangia
Rotazione						
S	Sinistra					
D	Destra					

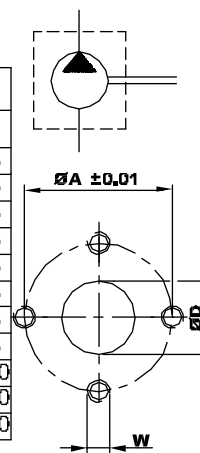
 DISPONIBILE PER QUANTITA'

GROUP 3 PUMPS- SAE B STANDARD

VERSION: P32 S3



Type	Displacement (cc/rev)	Max working pressure P1 (bar)	Peak pressure P3 (bar)	Max speed (r.p.m)	Dimension L M		Inlet port			Outlet port		
					(mm)		ØD	ØA	W	ØD	ØA	W
OT 300 P22	22	260	300	3000	57,4	119,3	27	51	M10	19	40	M8
OT 300 P28	28	260	300	3000	59,7	123,7	27	51	M10	19	40	M8
OT 300 P32	32	260	300	3000	61,2	126,9	27	51	M10	19	40	M8
OT 300 P38	38	240	280	3000	63,5	131,5	27	51	M10	19	40	M8
OT 300 P42	42	240	280	3000	65,0	134,5	27	51	M10	19	40	M8
OT 300 P48	48	240	280	3000	72,3	149,1	27	51	M10	19	40	M8
OT 300 P53	53	220	250	3000	74,2	152,9	27	51	M10	19	40	M8
OT 300 P63	63	200	240	2100	78,0	160,5	27	51	M10	19	40	M8
OT 300 P73	73	180	210	2100	81,9	168,2	36	62	M12	27	51	M10
OT 300 P82	82	170	200	2100	85,3	175,1	36	62	M12	27	51	M10
OT 300 P90	90	150	180	2100	88,3	181,1	36	62	M12	27	51	M10



EXAMPLE OF ORDERING CODE

OT300 P 28 S / P 32 S3

Series

Pump

Displacement (see above table)

Rotation

S Anti-clockwise

D Clockwise

SAE B flange

SAE B cylindrical shaft Ø22,2

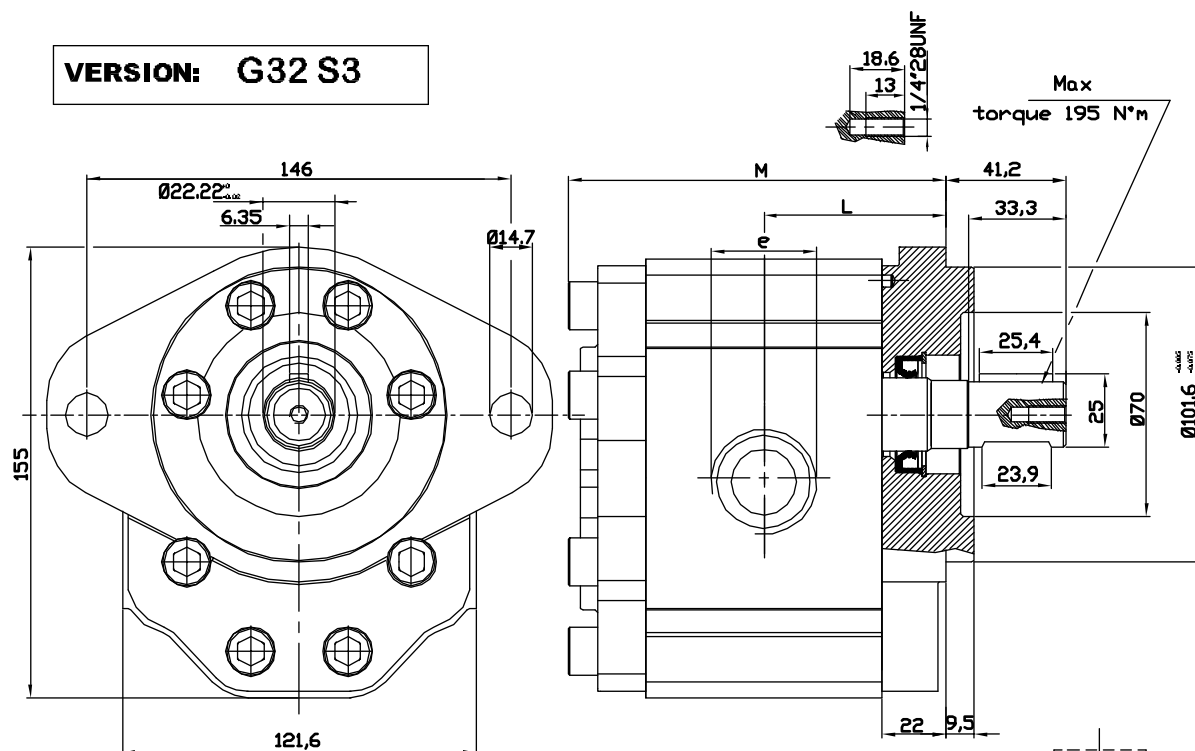
Body for European flanges



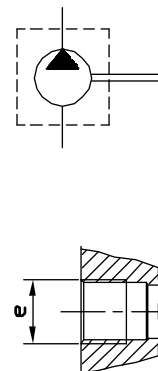
AVAILABLE FOR QUANTITIES

GROUP 3 PUMPS- SAE B STANDARD

VERSION: G32 S3



Type	Displacement (cc/rev)	Max working pressure P1 (bar)	Peak pressure P3 (bar)	Max speed (r.p.m)	Dimension		Inlet port e	Outlet port e
					L	M		
					(mm)			
OT 300 P22	22	260	300	3000	57,4	119,3	G 1	G 3/4
OT 300 P28	28	260	300	3000	59,7	123,7	G 1	G 3/4
OT 300 P32	32	260	300	3000	61,2	126,9	G 1	G 3/4
OT 300 P38	38	240	280	3000	63,5	131,5	G 1	G 3/4
OT 300 P42	42	240	280	3000	65,0	134,5	G 1	G 3/4
OT 300 P48	48	240	280	3000	72,3	149,1	G 1	G 3/4
OT 300 P53	53	220	250	3000	74,2	152,9	G 1	G 3/4
OT 300 P63	63	200	240	2100	78,0	160,5	G 1+1/4	G 3/4
OT 300 P73	73	180	210	2100	81,9	168,2	G 1+1/4	G 1
OT 300 P82	82	170	200	2100	85,3	175,1	G 1+1/4	G 1
OT 300 P90	90	150	180	2100	88,3	181,1	G 1+1/4	G 1



EXAMPLE OF ORDERING CODE

OT300 P 28 S / G 32 S3

Series

Pump

Displacement (see above table)

Rotation

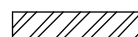
S Anti-clockwise

D Clockwise

SAE B flange

SAE B cylindrical shaft Ø22.2

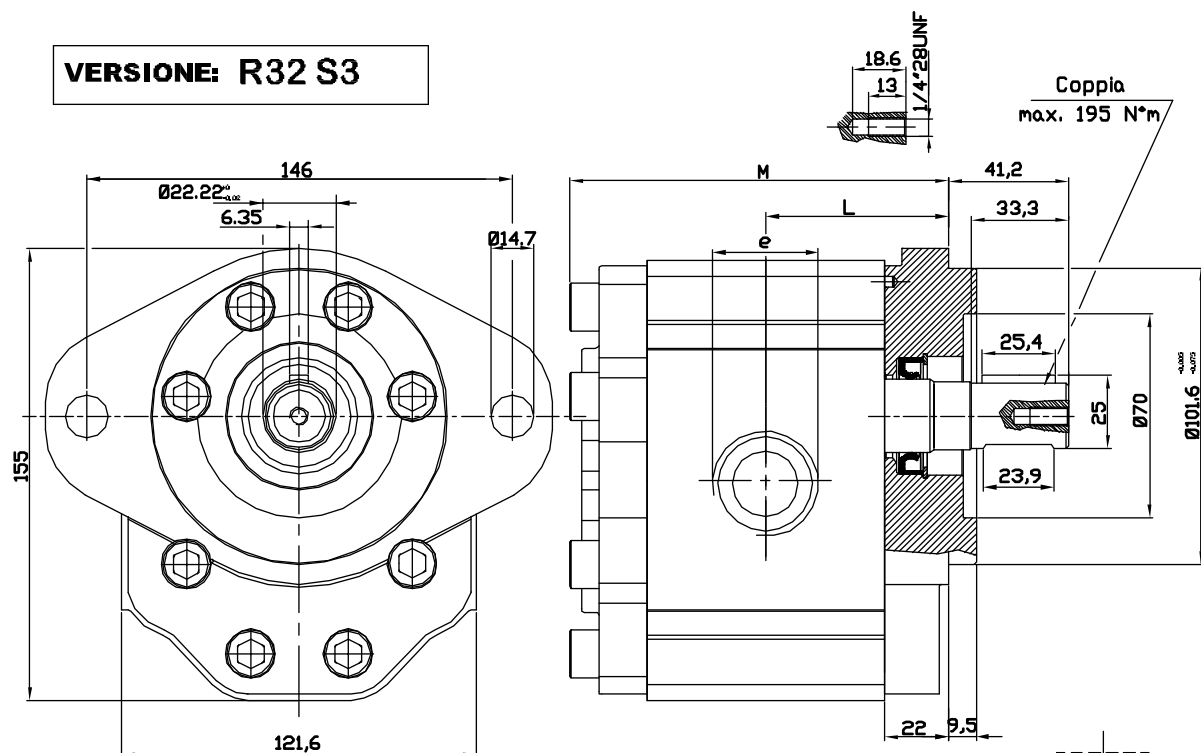
Body with threaded ports (BSP)



AVAILABLE FOR QUANTITIES

POMPE GRUPPO 3- SAE "B" STANDARD

VERSIONE: R32 S3



Tipo	Cilindrata (cc/giro)	Pressione massima continua P1 (bar)	Pressione di punta P3 (bar)	Velocita' massima (giri/min.)	Dimensione L M		Bocca di aspirazione e	Bocca di mandata e
					(mm)			
OT 300 P22	22	260	300	3000	57,4	119,3	1-5/16" UNF	1-1/16" UNF
OT 300 P28	28	260	300	3000	59,7	123,7	1-5/16" UNF	1-1/16" UNF
OT 300 P32	32	260	300	3000	61,2	126,9	1-5/16" UNF	1-1/16" UNF
OT 300 P38	38	240	280	3000	63,5	131,5	1-5/8" UNF	1-5/16" UNF
OT 300 P42	42	240	280	3000	65,0	134,5	1-5/8" UNF	1-5/16" UNF
OT 300 P48	48	240	280	3000	72,3	149,1	1-5/8" UNF	1-5/16" UNF
OT 300 P53	53	220	250	3000	74,2	152,9	1-5/8" UNF	1-5/16" UNF
OT 300 P63	63	200	240	2100	78,0	160,5	1-5/8" UNF	1-5/16" UNF
OT 300 P73	73	180	210	2100	81,9	168,2	1-7/8" UNF	1-5/8" UNF
OT 300 P82	82	170	200	2100	85,3	175,1	1-7/8" UNF	1-5/8" UNF
OT 300 P90	90	150	180	2100	88,3	181,1	1-7/8" UNF	1-5/8" UNF

ESEMPIO DI CODICE D'ORDINAZIONE

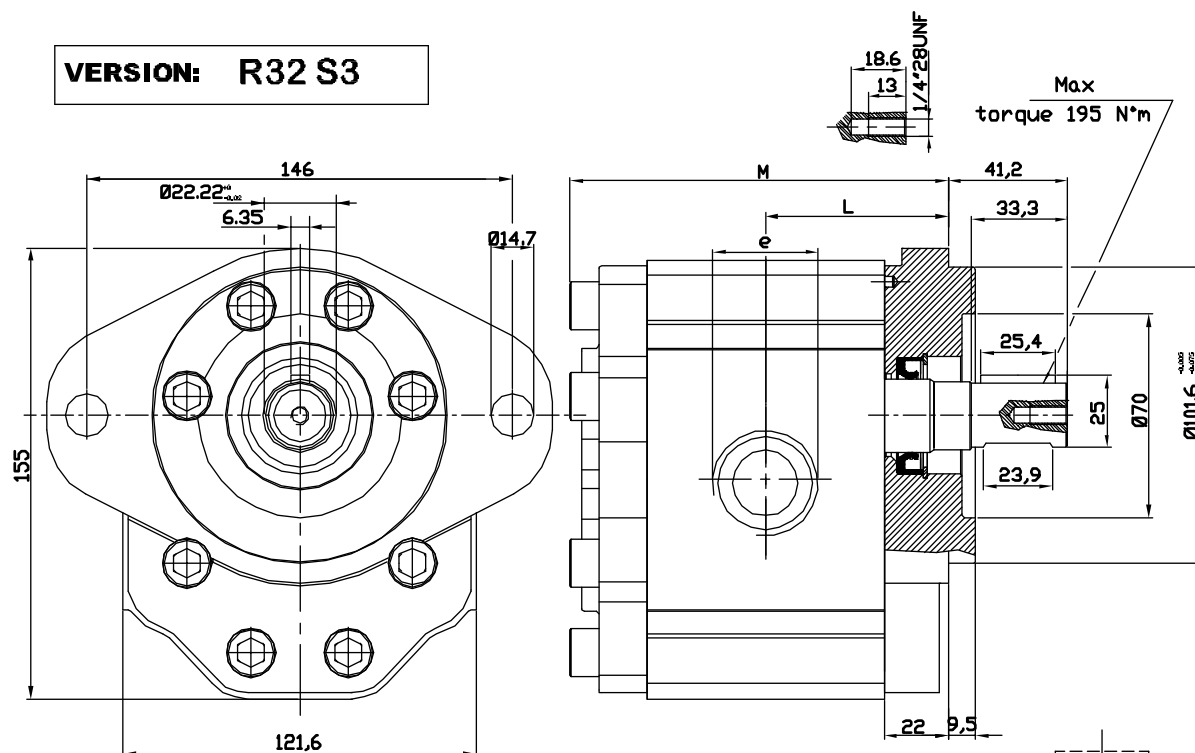
OT300 P 28 S / R 32 S3

Serie	P	28	S / R	32	S3	Flangia SAE "B" standard
Pompa						Albero cilindrico SAE B Ø 22,2
Cilindrata (vedere tabella)						Corpo con bocche SAE filett. (UNF)
Rotazione						
S Sinistra						
D Destra						

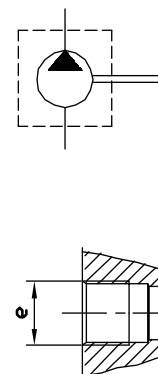
 DISPONIBILE PER QUANTITA'

GROUP 3 PUMPS- SAE B STANDARD

VERSION: R32 S3



Type	Displacement (cc/rev)	Max working pressure P1 (bar)	Peak pressure P3 (bar)	Max speed (r.p.m)	Dimension L M		Inlet port e	Outlet port e
					(mm)	(mm)		
OT 300 P22	22	260	300	3000	57,4	119,3	1-5/16" UNF	1-1/16" UNF
OT 300 P28	28	260	300	3000	59,7	123,7	1-5/16" UNF	1-1/16" UNF
OT 300 P32	32	260	300	3000	61,2	126,9	1-5/16" UNF	1-1/16" UNF
OT 300 P38	38	240	280	3000	63,5	131,5	1-5/8" UNF	1-5/16" UNF
OT 300 P42	42	240	280	3000	65,0	134,5	1-5/8" UNF	1-5/16" UNF
OT 300 P48	48	240	280	3000	72,3	149,1	1-5/8" UNF	1-5/16" UNF
OT 300 P53	53	220	250	3000	74,2	152,9	1-5/8" UNF	1-5/16" UNF
OT 300 P63	63	200	240	2100	78,0	160,5	1-5/8" UNF	1-5/16" UNF
OT 300 P73	73	180	210	2100	81,9	168,2	1-7/8" UNF	1-5/8" UNF
OT 300 P82	82	170	200	2100	85,3	175,1	1-7/8" UNF	1-5/8" UNF
OT 300 P90	90	150	180	2100	88,3	181,1	1-7/8" UNF	1-5/8" UNF



EXAMPLE OF ORDERING CODE

OT300 P 28 S / R 32 S3

Series

Pump

Displacement (see above table)

Rotation

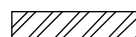
S Anti-clockwise

D Clockwise

SAE B flange

SAE B cylindrical shaft Ø22.2

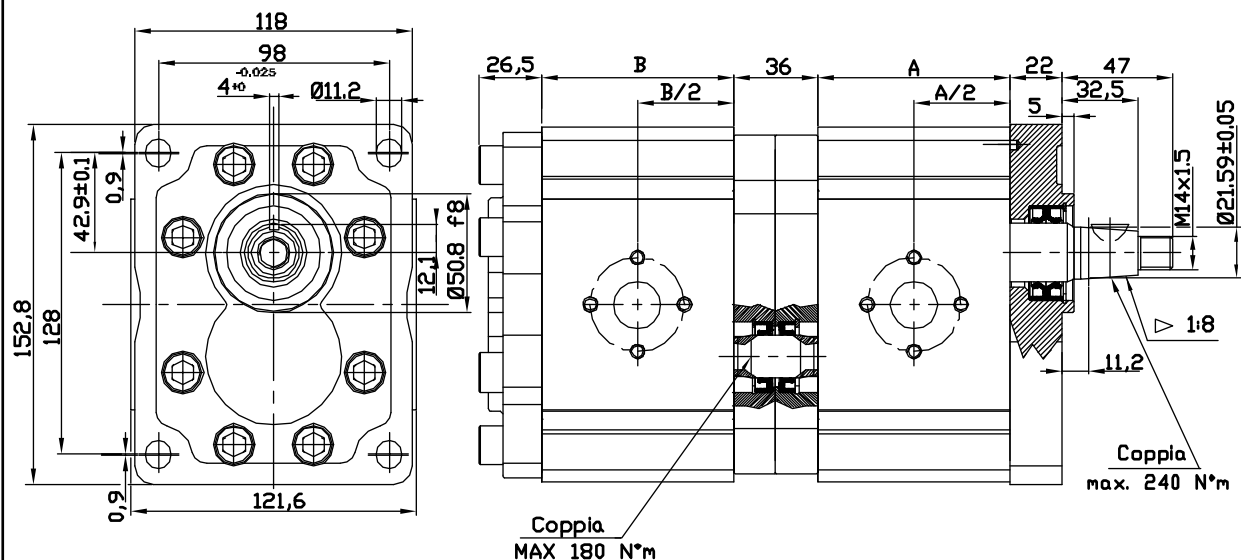
Body with O-ring boss ports



AVAILABLE FOR QUANTITIES

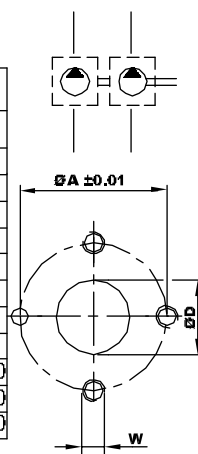
POMPE GRUPPO 3- TANDEM

VERSIONE: P38 P3



NOTA: La pompa con cilindrata maggiore deve essere preferibilmente la frontale

Tipo	Cilindrata (cc/giro)	Pressione massima continua P1 (bar)	Pressione di punta P3 (bar)	Velocità massima (giri/min.)	Dimensione A B		Bocca di aspirazione			Bocca di mandata		
					(mm)		ØD	ØA	W	ØD	ØA	W
OT 300 P22	22	260	300	3000	70,8	70,8	27	51	M10	19	40	M8
OT 300 P28	28	260	300	3000	75,4	75,4	27	51	M10	19	40	M8
OT 300 P32	32	260	300	3000	78,4	78,4	27	51	M10	19	40	M8
OT 300 P38	38	240	280	3000	83,0	83,0	27	51	M10	19	40	M8
OT 300 P42	42	240	280	3000	86,0	86,0	27	51	M10	19	40	M8
OT 300 P48	48	240	280	3000	100,6	100,6	27	51	M10	19	40	M8
OT 300 P53	53	220	250	3000	104,4	104,4	27	51	M10	19	40	M8
OT 300 P63	63	200	240	2100	112,0	112,0	27	51	M10	19	40	M8
OT 300 P73	73	180	210	2100	119,7	119,7	36	62	M12	27	51	M10
OT 300 P82	82	170	200	2100	126,6	126,6	36	62	M12	27	51	M10
OT 300 P90	90	150	180	2100	132,6	132,6	36	62	M12	27	51	M10



ESEMPIO DI CODICE D'ORDINAZIONE

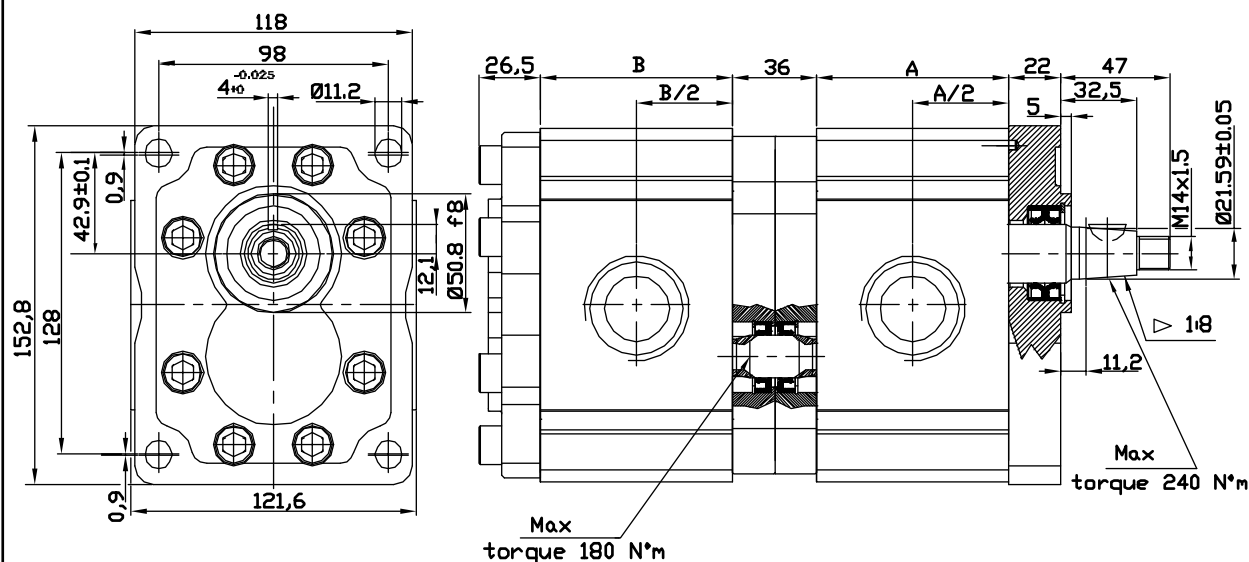
OT300 P 48 / 22 S / P 38 P3 / 2

Serie	OT300	P	48 / 22	S / P	38	P3 / 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 a flangia
Rotazione							
S Sinistra							
D Destra							

 DISPONIBILE PER QUANTITA'

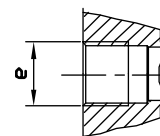
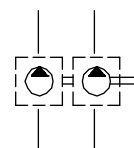
GROUP 3 PUMPS- TANDEM

VERSION: G38 P3



NOTE: The biggest displacement pump must be in the front position

Type	Displacement (cc/rev)	Max working pressure P1 (bar)	Peak pressure P3	Max speed (r.p.m)	Dimension L M		Inlet port e	Outlet port e
					(mm)			
OT 300 P22	22	260	300	3000	70,8	70,8	G 1	G 3/4
OT 300 P28	28	260	300	3000	75,4	75,4	G 1	G 3/4
OT 300 P32	32	260	300	3000	78,4	78,4	G 1	G 3/4
OT 300 P38	38	240	280	3000	83,0	83,0	G 1	G 3/4
OT 300 P42	42	240	280	3000	86,0	86,0	G 1	G 3/4
OT 300 P48	48	240	280	3000	100,6	100,6	G 1	G 3/4
OT 300 P53	53	220	250	3000	104,4	104,4	G 1	G 3/4
OT 300 P63	63	200	240	2100	112,0	112,0	G 1+1/4	G 3/4
OT 300 P73	73	180	210	2100	119,7	119,7	G 1+1/4	G 1
OT 300 P82	82	170	200	2100	126,6	126,6	G 1+1/4	G 1
OT 300 P90	90	150	180	2100	132,6	132,6	G 1+1/4	G 1



EXAMPLE OF ORDERING CODE

OT300 P 48 / 22 S / G 38 P3 / 2

Series

Pump

Front pump displacement
(see above table)

Second pump displacement
(see above table)

Rotation

S

Anti-clockwise

D

Clockwise

1 = One inletport

2 = Two inletports

European standard flange

Taper shaft (1:8)

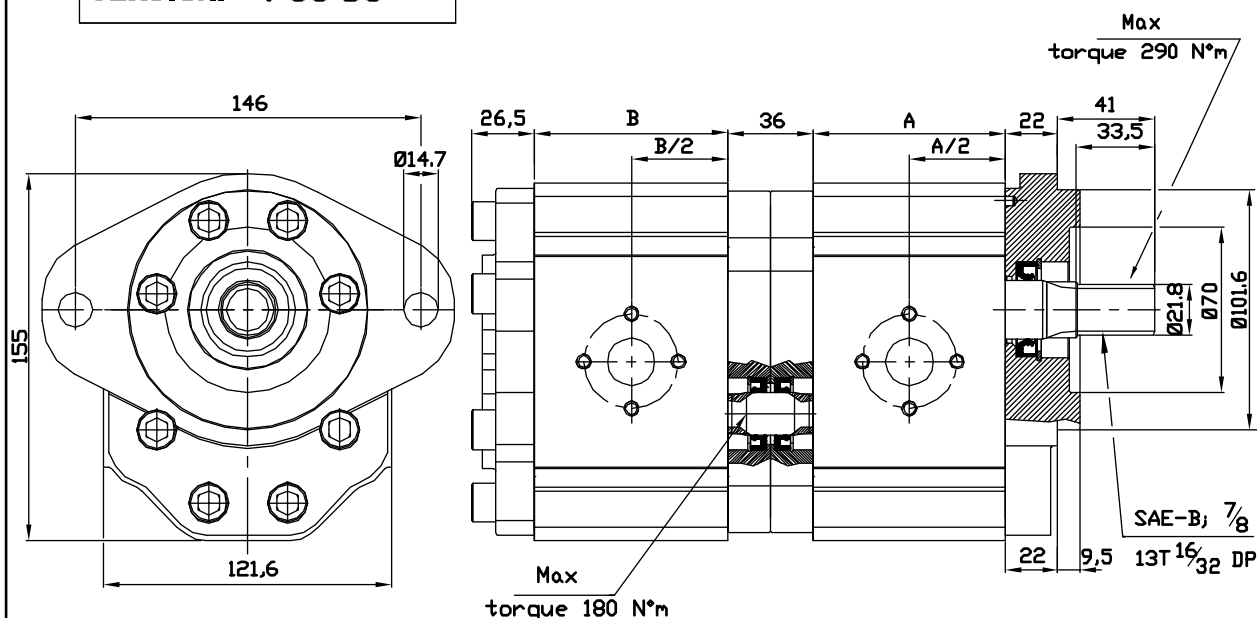
Body with threaded ports (BSP)



AVAILABLE FOR QUANTITIES

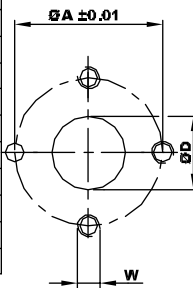
GROUP 3 PUMPS- TANDEM

VERSION: P33 S3



NOTE: The biggest displacement pump must be in the front position

Type	Displacement	Max working pressure P1	Peak pressure P3	Max speed	Dimension		Inlet port			Outlet port		
					L	M						
	(cc/rev)	(bar)	(bar)	(r.p.m)	(mm)		ØD	ØA	W	ØD	ØA	W
OT 300 P22	22	260	300	3000	70,8	70,8	27	51	M10	19	40	M8
OT 300 P28	28	260	300	3000	75,4	75,4	27	51	M10	19	40	M8
OT 300 P32	32	260	300	3000	78,4	78,4	27	51	M10	19	40	M8
OT 300 P38	38	240	280	3000	83,0	83,0	27	51	M10	19	40	M8
OT 300 P42	42	240	280	3000	86,0	86,0	27	51	M10	19	40	M8
OT 300 P48	48	240	280	3000	100,6	100,6	27	51	M10	19	40	M8
OT 300 P53	53	220	250	3000	104,4	104,4	27	51	M10	19	40	M8
OT 300 P63	63	200	240	2100	112,0	112,0	27	51	M10	19	40	M8
OT 300 P73	73	180	210	2100	119,7	119,7	36	62	M12	27	51	M10
OT 300 P82	82	170	200	2100	126,6	126,6	36	62	M12	27	51	M10
OT 300 P90	90	150	180	2100	132,6	132,6	36	62	M12	27	51	M10



EXAMPLE OF ORDERING CODE

OT300 P 48 / 22 S / P 33 S3 / 2

Series

Pump

Front pump displacement
(see above table)

Second pump displacement
(see above table)

Rotation

S Anti-clockwise

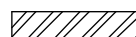
D Clockwise

1 = One inlet port
2 = Two inlet ports

SAE B flange

SAE B 13 Teeth -16/32 DP

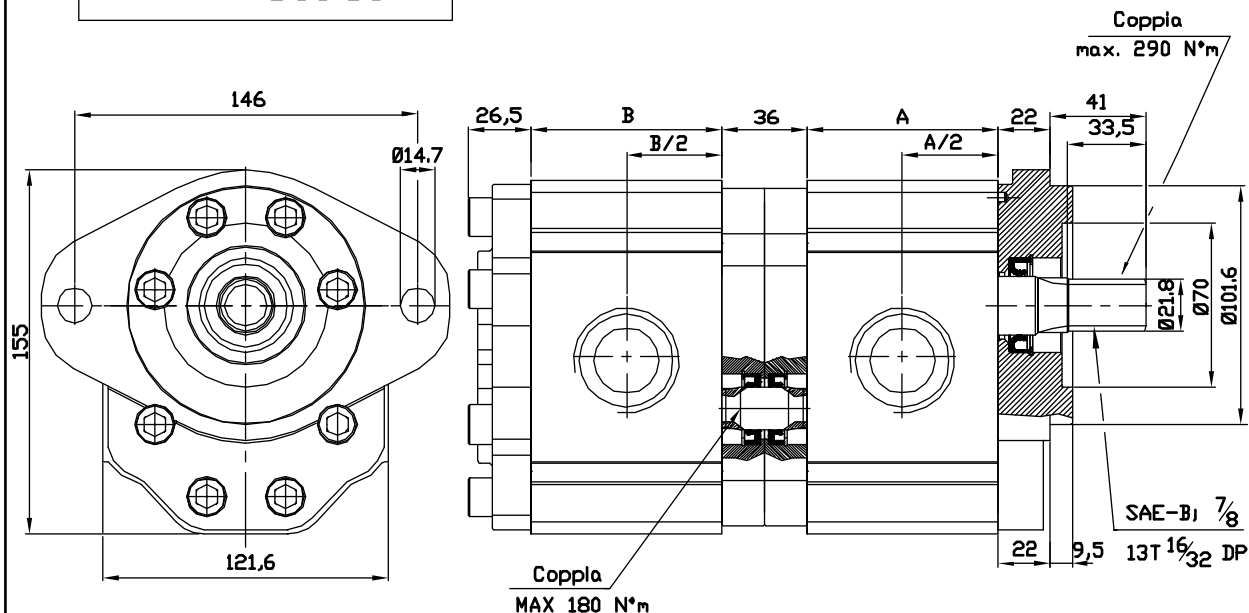
Body for European flanges



AVAILABLE FOR QUANTITIES

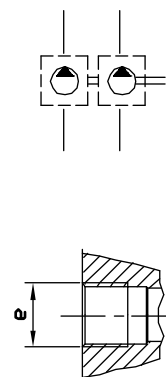
POMPE GRUPPO 3- TANDEM

VERSIONE: G33 S3



NOTA: La pompa con cilindrata maggiore deve essere preferibilmente la frontale

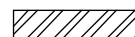
Tipo	Cilindrata (cc/giro)	Pressione massima continua P1 (bar)	Pressione di punta P3 (bar)	Velocità massima (giri/min.)	Dimensione A B (mm)		Bocca di aspirazione e	Bocca di mandata e
OT 300 P22	22	260	300	3000	70,8	70,8	G 1	G 3/4
OT 300 P28	28	260	300	3000	75,4	75,4	G 1	G 3/4
OT 300 P32	32	260	300	3000	78,4	78,4	G 1	G 3/4
OT 300 P38	38	240	280	3000	83,0	83,0	G 1	G 3/4
OT 300 P42	42	240	280	3000	86,0	86,0	G 1	G 3/4
OT 300 P48	48	240	280	3000	100,6	100,6	G 1	G 3/4
OT 300 P53	53	220	250	3000	104,4	104,4	G 1	G 3/4
OT 300 P63	63	200	240	2100	112,0	112,0	G 1+1/4	G 3/4
OT 300 P73	73	180	210	2100	119,7	119,7	G 1+1/4	G 1
OT 300 P82	82	170	200	2100	126,6	126,6	G 1+1/4	G 1
OT 300 P90	90	150	180	2100	132,6	132,6	G 1+1/4	G 1



ESEMPIO DI CODICE D'ORDINAZIONE

OT300 P 48 / 22 S / G 33 S3 / 2

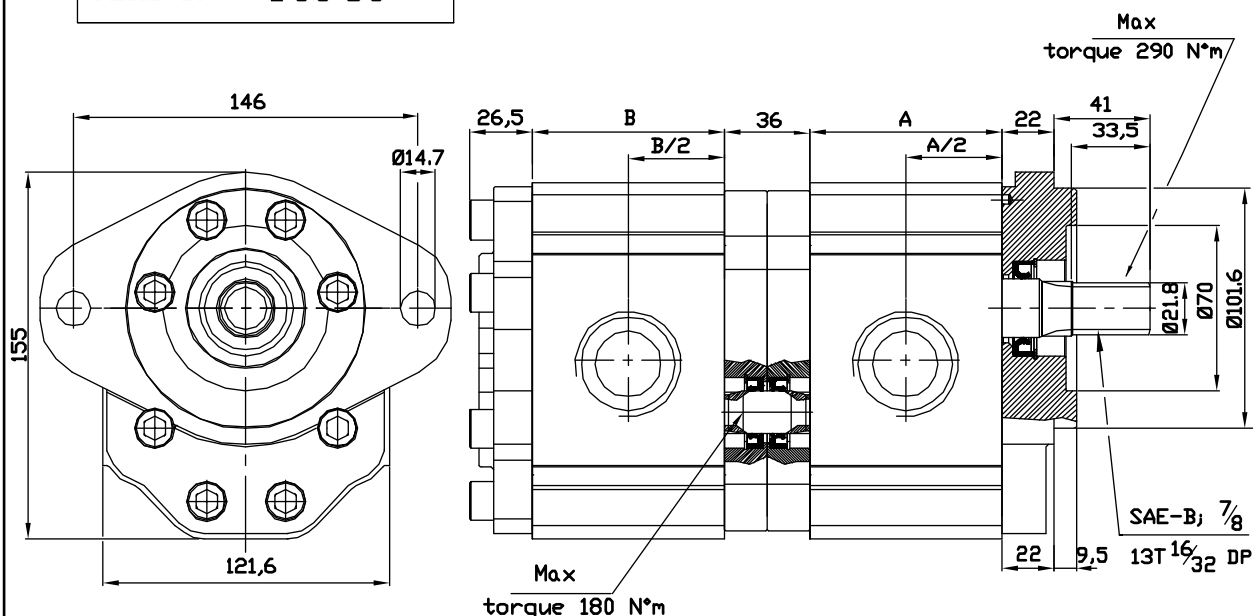
Serie	P	48	/	22	S	/	G	33	S3	/	2	1 = Una aspirazione 2 = Due aspirazioni
Pompa												Flangia SAE "B" standard
Cilindrata pompa anteriore (Vedi tabella)												Albero SAE "B" 13T
Cilindrata pompa posteriore (Vedi tabella)												Corpo con bocche filettate BSP
Rotazione												
S Sinistra												
D Destra												



DISPONIBILE PER QUANTITA'

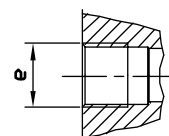
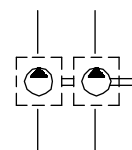
GROUP 3 PUMPS- TANDEM

VERSION: G33 S3



NOTE: The biggest displacement pump must be in the front position

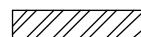
Type	Displacement (cc/rev)	Max working pressure P1 (bar)	Peak pressure P3	Max speed (r.p.m)	Dimension L M		Inlet port e	Outlet port e
					(mm)			
OT 300 P22	22	260	300	3000	70,8	70,8	G 1	G 3/4
OT 300 P28	28	260	300	3000	75,4	75,4	G 1	G 3/4
OT 300 P32	32	260	300	3000	78,4	78,4	G 1	G 3/4
OT 300 P38	38	240	280	3000	83,0	83,0	G 1	G 3/4
OT 300 P42	42	240	280	3000	86,0	86,0	G 1	G 3/4
OT 300 P48	48	240	280	3000	100,6	100,6	G 1	G 3/4
OT 300 P53	53	220	250	3000	104,4	104,4	G 1	G 3/4
OT 300 P63	63	200	240	2100	112,0	112,0	G 1+1/4	G 3/4
OT 300 P73	73	180	210	2100	119,7	119,7	G 1+1/4	G 1
OT 300 P82	82	170	200	2100	126,6	126,6	G 1+1/4	G 1
OT 300 P90	90	150	180	2100	132,6	132,6	G 1+1/4	G 1



EXAMPLE OF ORDERING CODE

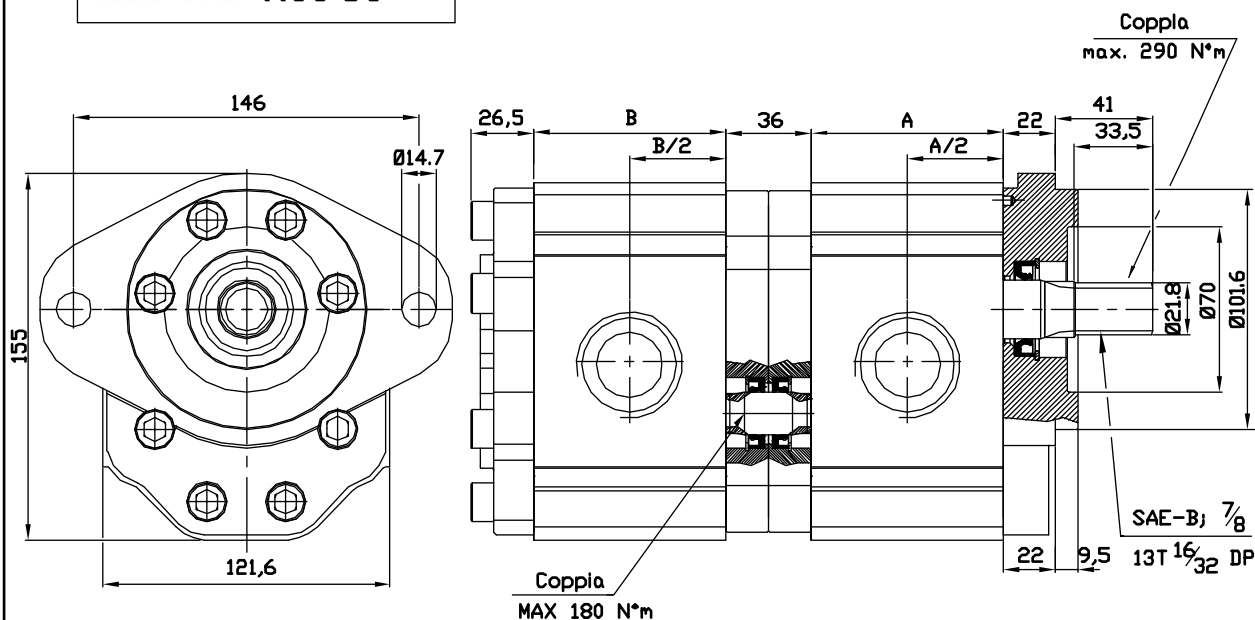
OT300 P 48 / 22 S / G 33 S3 / 2

Series	OT300	Pump	P	Front pump displacement (see above table)	48	Second pump displacement (see above table)	22	Rotation	S	SAE B flange	33	SAE B 13 Teeth -16/32 DP	S3	Body with threaded ports (BSP)	2
								Anti-clockwise							
								Clockwise							

 AVAILABLE FOR QUANTITIES

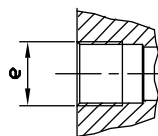
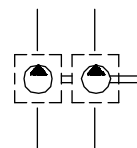
POMPE GRUPPO 3- TANDEM

VERSIONE: R33 S3



NOTA: La pompa con cilindrata maggiore deve essere preferibilmente la frontale

Tipo	Cilindrata (cc/giro)	Pressione massima continua P1 (bar)	Pressione di punta P3 (bar)	Velocità massima (giri/min.)	Dimensione A B (mm)		Bocca di aspirazione e	Bocca di mandata e
OT 300 P22	22	260	300	3000	70,8	70,8	1-5/16" UNF	1-1/16" UNF
OT 300 P28	28	260	300	3000	75,4	75,4	1-5/16" UNF	1-1/16" UNF
OT 300 P32	32	260	300	3000	78,4	78,4	1-5/16" UNF	1-1/16" UNF
OT 300 P38	38	240	280	3000	83,0	83,0	1-5/8" UNF	1-5/16" UNF
OT 300 P42	42	240	280	3000	86,0	86,0	1-5/8" UNF	1-5/16" UNF
OT 300 P48	48	240	280	3000	100,6	100,6	1-5/8" UNF	1-5/16" UNF
OT 300 P53	53	220	250	3000	104,4	104,4	1-5/8" UNF	1-5/16" UNF
OT 300 P63	63	200	240	2100	112,0	112,0	1-5/8" UNF	1-5/16" UNF
OT 300 P73	73	180	210	2100	119,7	119,7	1-7/8" UNF	1-5/8" UNF
OT 300 P82	82	170	200	2100	126,6	126,6	1-7/8" UNF	1-5/8" UNF
OT 300 P90	90	150	180	2100	132,6	132,6	1-7/8" UNF	1-5/8" UNF



ESEMPIO DI CODICE D'ORDINAZIONE

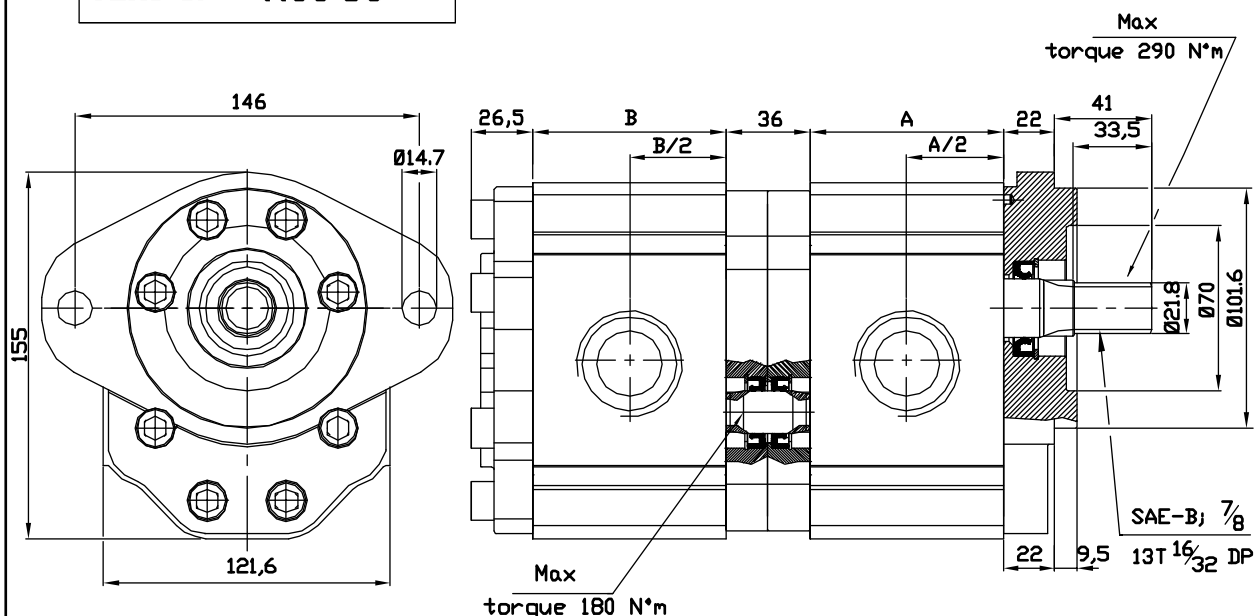
OT300 P 48 / 22 S / R 33 S3 / 2

Serie	P	48	/	22	S	/	R	33	S3	/	2	1 = Una aspirazione 2 = Due aspirazioni
Pompa												Flangia SAE "B" standard
Cilindrata pompa anteriore (Vedi tabella)												Albero SAE "B" 13T
Cilindrata pompa posteriore (Vedi tabella)												Corpo con bocche SAE filettatura UNF
Rotazione												
S Sinistra												
D Destra												

 DISPONIBILE PER QUANTITA'

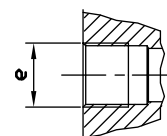
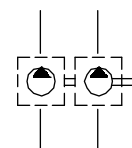
GROUP 3 PUMPS- TANDEM

VERSION: R33 S3



NOTE: The biggest displacement pump must be in the front position

Type	Displacement (cc/rev)	Max working pressure P1 (bar)	Peak pressure P3 (bar)	Max speed (r.p.m)	Dimension L M		Inlet port e	Outlet port e
					(mm)			
OT 300 P22	22	260	300	3000	70,8	70,8	1-5/16" UNF	1-1/16" UNF
OT 300 P28	28	260	300	3000	75,4	75,4	1-5/16" UNF	1-1/16" UNF
OT 300 P32	32	260	300	3000	78,4	78,4	1-5/16" UNF	1-1/16" UNF
OT 300 P38	38	240	280	3000	83,0	83,0	1-5/8" UNF	1-5/16" UNF
OT 300 P42	42	240	280	3000	86,0	86,0	1-5/8" UNF	1-5/16" UNF
OT 300 P48	48	240	280	3000	100,6	100,6	1-5/8" UNF	1-5/16" UNF
OT 300 P53	53	220	250	3000	104,4	104,4	1-5/8" UNF	1-5/16" UNF
OT 300 P63	63	200	240	2100	112,0	112,0	1-5/8" UNF	1-5/16" UNF
OT 300 P73	73	180	210	2100	119,7	119,7	1-7/8" UNF	1-5/8" UNF
OT 300 P82	82	170	200	2100	126,6	126,6	1-7/8" UNF	1-5/8" UNF
OT 300 P90	90	150	180	2100	132,6	132,6	1-7/8" UNF	1-5/8" UNF



EXAMPLE OF ORDERING CODE

OT300 P 48 / 22 S / R 33 S3 / 2

Series	OT300	Pump	P	Front pump displacement (see above table)	48	Second pump displacement (see above table)	22	Rotation	S / R	SAE B flange	33	SAE B 13 Teeth -16/32 DP	S3	Body with O-ring boss ports	2
								Anti-clockwise							
								Clockwise							

 AVAILABLE FOR QUANTITIES

POMPE TANDEM- OT300+OT200

VERSIONE: P38 P3

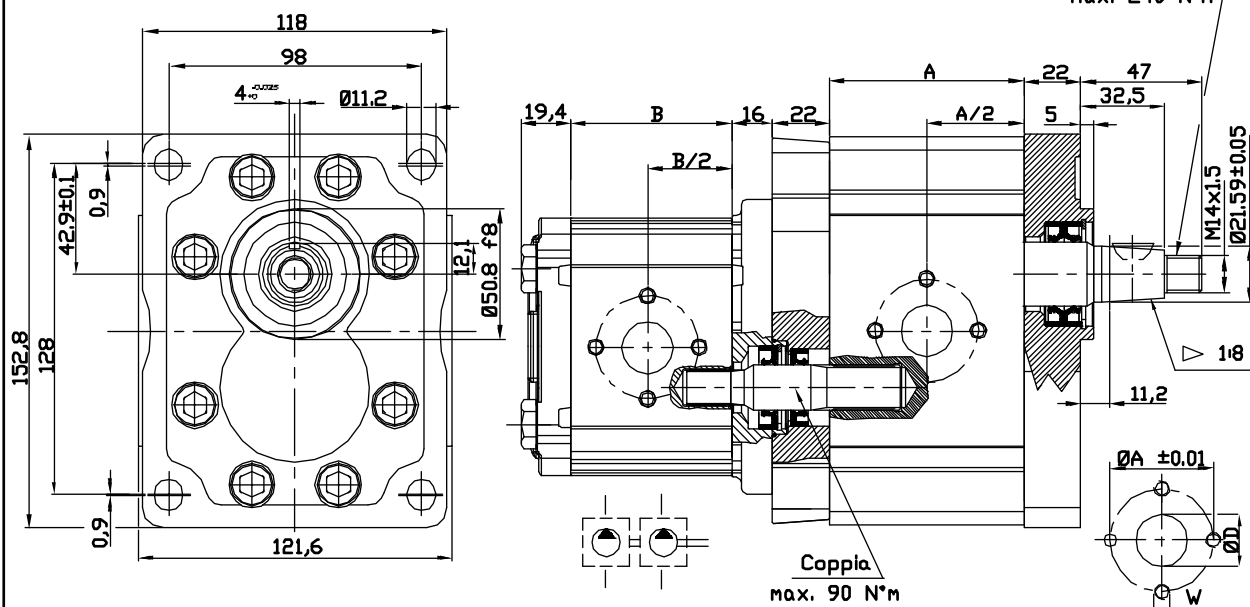


TABELLA OT300

Tipo	Cilindrata (cc/giro)	Dim. A (mm)	Bocca di aspirazione			Bocca di mandata		
			ØD	ØA	W	ØD	ØA	W
OT 300 P22	22	70,8	27	51	M10	19	40	M8
OT 300 P28	28	75,4	27	51	M10	19	40	M8
OT 300 P32	32	78,4	27	51	M10	19	40	M8
OT 300 P38	38	83,0	27	51	M10	19	40	M8
OT 300 P42	42	86,0	27	51	M10	19	40	M8
OT 300 P48	48	100,6	27	51	M10	19	40	M8
OT 300 P53	53	104,4	27	51	M10	19	40	M8
OT 300 P63	63	112,0	27	51	M10	19	40	M8
OT 300 P73	73	119,7	36	62	M12	27	51	M10
OT 300 P82	82	126,6	36	62	M12	27	51	M10
OT 300 P90	90	132,6	36	62	M12	27	51	M10

TABELLA OT200

Tipo	Cilindrata (cc/giro)	Dim. B (mm)	Bocca di aspirazione			Bocca di mandata		
			ØD	ØA	W	ØD	ØA	W
OT 200 P04	04,10	48,00	13	30	M6	13	30	M6
OT 200 P06	06,20	51,00	13	30	M6	13	30	M6
OT 200 P08	08,20	54,00	13	30	M6	13	30	M6
OT 200 P11	11,20	58,30	13	30	M6	13	30	M6
OT 200 P14	14,00	62,30	20	40	M8	13	30	M6
OT 200 P16	16,00	65,20	20	40	M8	13	30	M6
OT 200 P20	20,00	71,00	20	40	M8	13	30	M6
OT 200 P22	22,50	82,70	20	40	M8	13	30	M6
OT 200 P25	25,10	86,50	20	40	M8	13	30	M6
OT 200 P28	28,00	90,70	20	40	M8	13	30	M6
OT 200 P30	30,00	93,50	20	40	M8	13	30	M6

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

ESEMPIO DI CODICE D'ORDINAZIONE

OT300/200 P 38 / 16 S / P 38 P3 / 2

Serie									
Pompa									
Cilindrata pompa anteriore (Vedi tabella - OT300)									
Cilindrata pompa posteriore (Vedi tabella - OT200)									
Rotazione									
S Sinistra									
D Destra									

Due aspirazioni

Flangia standard Europeo

Albero conico 1:8

Corpo con bocche a flangia

DISPONIBILE PER QUANTITA'

TANDEM PUMPS- OT300+OT200

VERSION: P38 P3

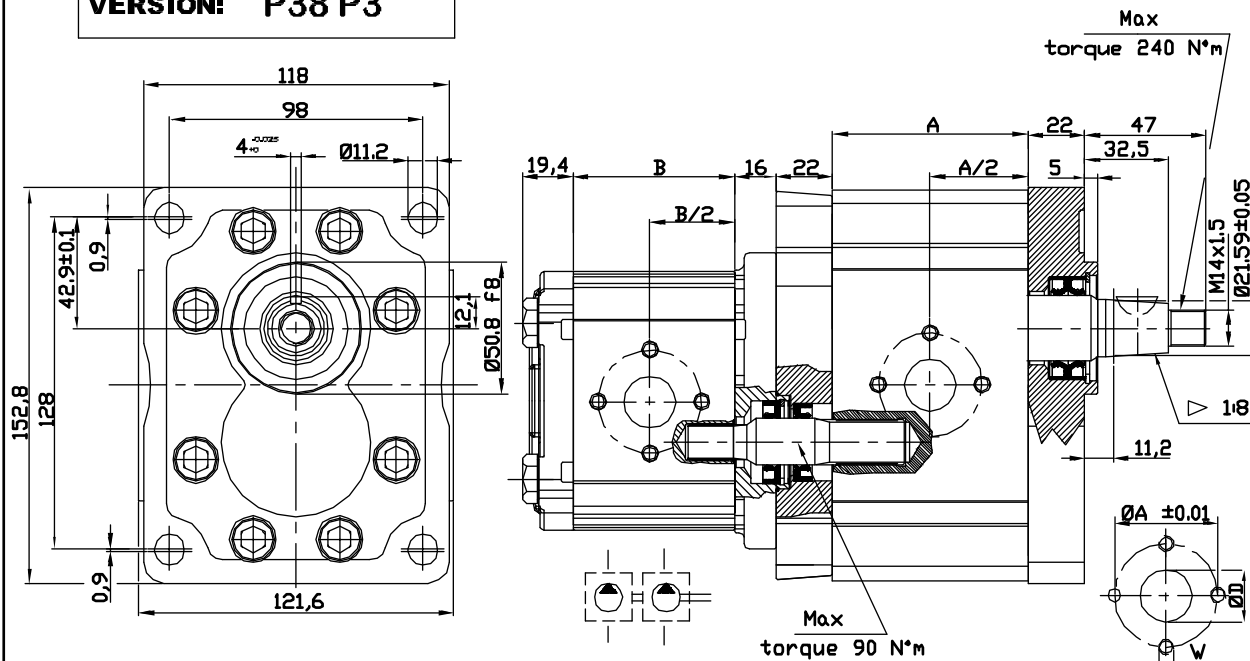


TABLE OT300

Type	Displacement (cc/rev)	Dim. A (mm)	Outlet port					
			ØD	ØA	W	ØD	ØA	W
OT 300 P22	22	70,8	27	51	M10	19	40	M8
OT 300 P28	28	75,4	27	51	M10	19	40	M8
OT 300 P32	32	78,4	27	51	M10	19	40	M8
OT 300 P38	38	83,0	27	51	M10	19	40	M8
OT 300 P42	42	86,0	27	51	M10	19	40	M8
OT 300 P48	48	100,6	27	51	M10	19	40	M8
OT 300 P53	53	104,4	27	51	M10	19	40	M8
OT 300 P63	63	112,0	27	51	M10	19	40	M8
OT 300 P73	73	119,7	36	62	M12	27	51	M10
OT 300 P82	82	126,6	36	62	M12	27	51	M10
OT 300 P90	90	132,6	36	62	M12	27	51	M10

TABLE OT200

Type	Displacement (cc/rev)	Dim. B (mm)	Inlet port			Outlet port		
			ØD	ØA	W	ØD	ØA	W
OT 200 P04	04,10	48,00	13	30	M6	13	30	M6
OT 200 P06	06,20	51,00	13	30	M6	13	30	M6
OT 200 P08	08,20	54,00	13	30	M6	13	30	M6
OT 200 P11	11,20	58,30	13	30	M6	13	30	M6
OT 200 P14	14,00	62,30	20	40	M8	13	30	M6
OT 200 P16	16,00	65,20	20	40	M8	13	30	M6
OT 200 P20	20,00	71,00	20	40	M8	13	30	M6
OT 200 P22	22,50	82,70	20	40	M8	13	30	M6
OT 200 P25	25,10	86,50	20	40	M8	13	30	M6
OT 200 P28	28,00	90,70	20	40	M8	13	30	M6
OT 200 P30	30,00	93,50	20	40	M8	13	30	M6

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

EXAMPLE OF ORDERING CODE

OT300/200 P 38 / 16 S / P 38 P3 / 2

Series

Pump

Displacement front pump
(See table - OT300)

Displacement second pump
(See table - OT200)

Rotation

S Anti-clockwise
D Clockwise

Two inlet ports

European standard flange

Taper shaft (1:8)

Body for European flanges

 AVAILABLE FOR QUANTITIES

TANDEM PUMPS- OT300+OT200

VERSION: P33 S3

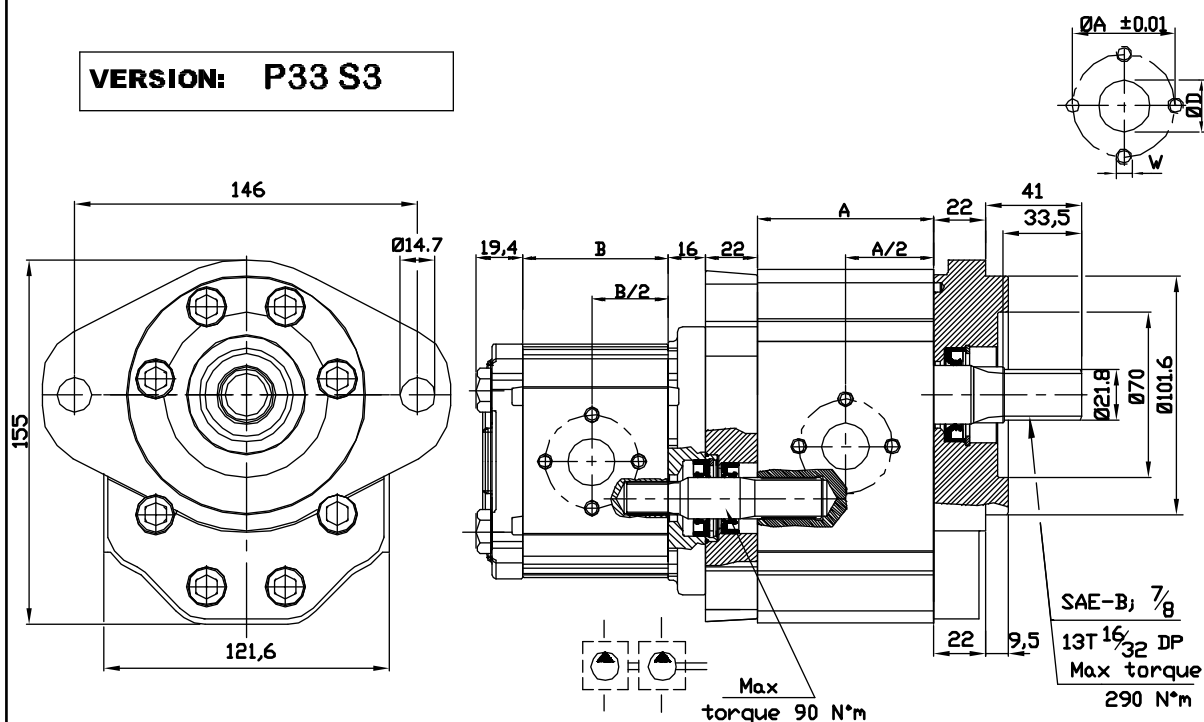


TABLE OT300

Type	Displacement (cc/rev)	Dim. A (mm)	Outlet port					
			ØD	ØA	W	ØD	ØA	W
OT 300 P22	22	70,8	27	51	M10	19	40	M8
OT 300 P28	28	75,4	27	51	M10	19	40	M8
OT 300 P32	32	78,4	27	51	M10	19	40	M8
OT 300 P38	38	83,0	27	51	M10	19	40	M8
OT 300 P42	42	86,0	27	51	M10	19	40	M8
OT 300 P48	48	100,6	27	51	M10	19	40	M8
OT 300 P53	53	104,4	27	51	M10	19	40	M8
OT 300 P63	63	112,0	27	51	M10	19	40	M8
OT 300 P73	73	119,7	36	62	M12	27	51	M10
OT 300 P82	82	126,6	36	62	M12	27	51	M10
OT 300 P90	90	132,6	36	62	M12	27	51	M10

TABLE OT200

Type	Displacement (cc/rev)	Dim. B (mm)	Inlet port			Outlet port		
			ØD	ØA	W	ØD	ØA	W
OT 200 P04	04,10	48,00	13	30	M6	13	30	M6
OT 200 P06	06,20	51,00	13	30	M6	13	30	M6
OT 200 P08	08,20	54,00	13	30	M6	13	30	M6
OT 200 P11	11,20	58,30	13	30	M6	13	30	M6
OT 200 P14	14,00	62,30	20	40	M8	13	30	M6
OT 200 P16	16,00	65,20	20	40	M8	13	30	M6
OT 200 P20	20,00	71,00	20	40	M8	13	30	M6
OT 200 P22	22,50	82,70	20	40	M8	13	30	M6
OT 200 P25	25,10	86,50	20	40	M8	13	30	M6
OT 200 P28	28,00	90,70	20	40	M8	13	30	M6
OT 200 P30	30,00	93,50	20	40	M8	13	30	M6

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

EXAMPLE OF ORDERING CODE

OT300/200 P 38 / 16 S / P 33 S3 / 2

Series

Pump

Displacement front pump
(See table - OT300)

Displacement second pump
(See table - OT200)

Rotation

S Anti-clockwise
D Clockwise

Two inlet ports

SAE B flange

SAE B 13 Teeth -16/32 DP

Body for European flanges

 AVAILABLE FOR QUANTITIES

TANDEM PUMPS- OT300+OT200

VERSION: G33 S3

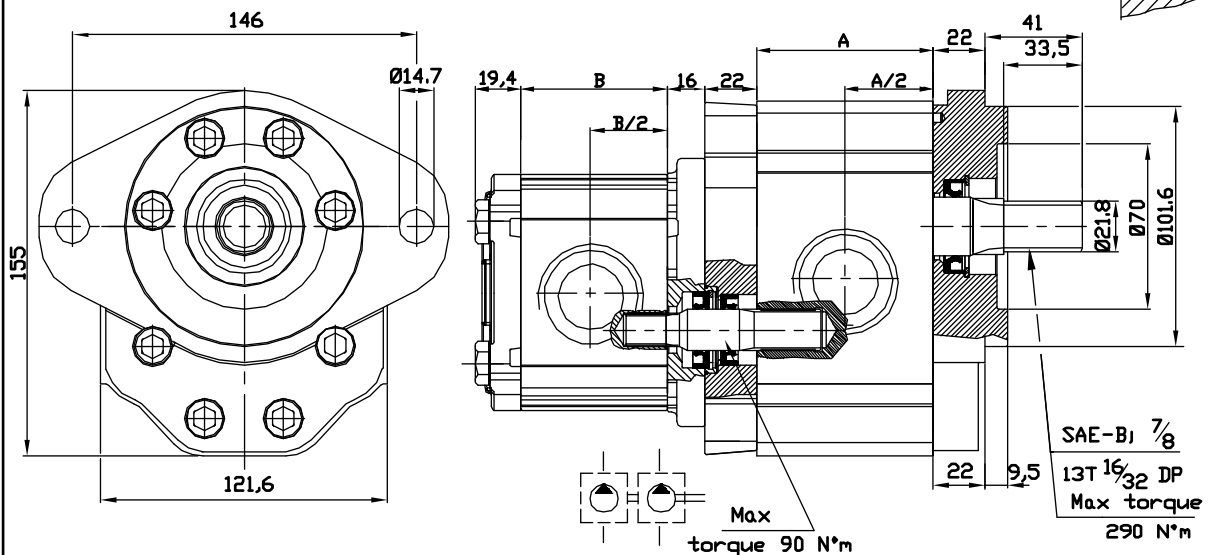


TABLE OT300

Type	Displacement (cc/rev)	Dim. A (mm)	Inlet port	Outlet port
			e	e
OT 300 P22	22	70,8	G 1	G 3/4
OT 300 P28	28	75,4	G 1	G 3/4
OT 300 P32	32	78,4	G 1	G 3/4
OT 300 P38	38	83,0	G 1	G 3/4
OT 300 P42	42	86,0	G 1	G 3/4
OT 300 P48	48	100,6	G 1	G 3/4
OT 300 P53	53	104,4	G 1	G 3/4
OT 300 P63	63	112,0	G 1+1/4	G 3/4
OT 300 P73	73	119,7	G 1+1/4	G 1
OT 300 P82	82	126,6	G 1+1/4	G 1
OT 300 P90	90	132,6	G 1+1/4	G 1

TABLE OT200

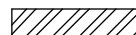
Type	Displacement (cc/rev)	Dim. B (mm)	Inlet port		Outlet port	
			e	d	e	d
OT 200 P04	04,10	48,00	G1/2	14	G1/2	14
OT 200 P06	06,20	51,00	G1/2	14	G1/2	14
OT 200 P08	08,20	54,00	G1/2	14	G1/2	14
OT 200 P11	11,20	58,30	G1/2	14	G1/2	14
OT 200 P14	14,00	62,30	G3/4	16	G1/2	14
OT 200 P16	16,00	65,20	G3/4	16	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

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

EXAMPLE OF ORDERING CODE

OT300/200 P 38 / 16 S / G 33 S3 / 2

Series	OT300/200	Pump	P	Displacement front pump (See table - OT300)	38	Displacement second pump (See table - OT200)	16	Rotation	S	SAE B flange	SAE B 13 Teeth -16/32 DP	Body with threaded ports (BSP)	Two inlet ports
								Anti-clockwise					
								Clockwise					

 AVAILABLE FOR QUANTITIES

TANDEM PUMPS- OT300+OT200

VERSION: R33 S3

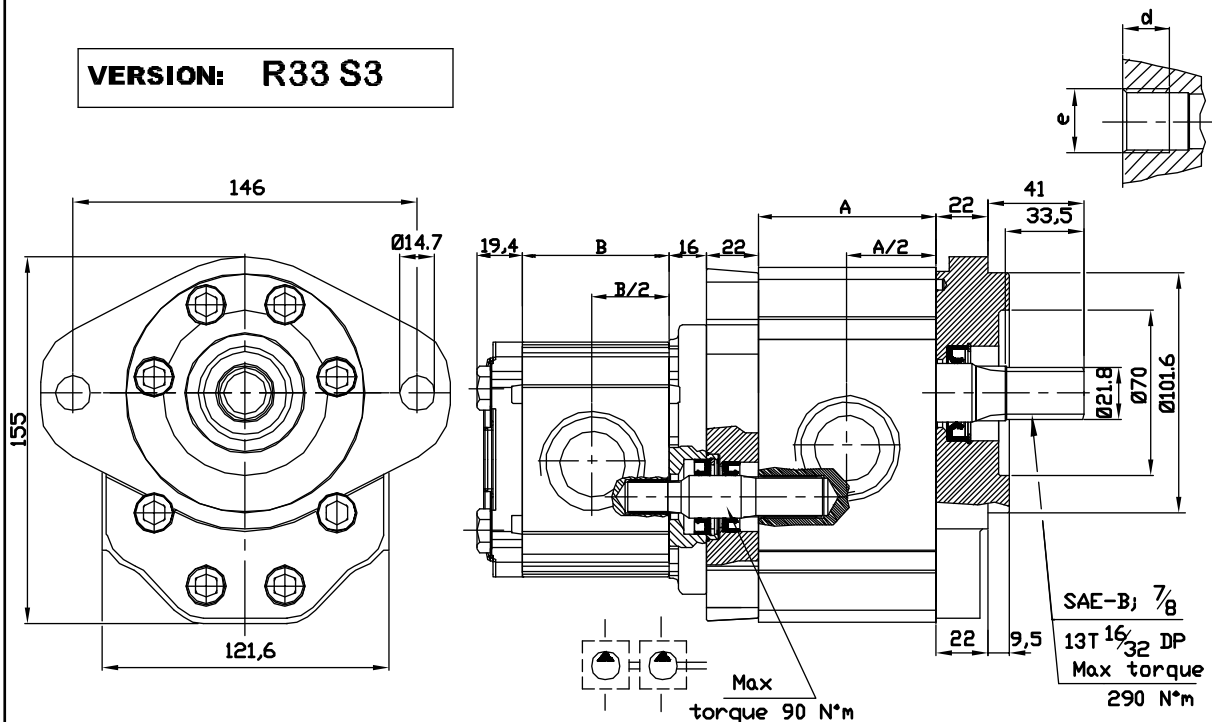


TABLE OT300

Type	Displacement (cc/rev)	Dim. A (mm)	Inlet port e	Outlet port e
OT 300 P22	22	70,8	1-5/16" UNF	1-1/16" UNF
OT 300 P28	28	75,4	1-5/16" UNF	1-1/16" UNF
OT 300 P32	32	78,4	1-5/16" UNF	1-1/16" UNF
OT 300 P38	38	83,0	1-5/8" UNF	1-5/16" UNF
OT 300 P42	42	86,0	1-5/8" UNF	1-5/16" UNF
OT 300 P48	48	100,6	1-5/8" UNF	1-5/16" UNF
OT 300 P53	53	104,4	1-5/8" UNF	1-5/16" UNF
OT 300 P63	63	112,0	1-5/8" UNF	1-5/16" UNF
OT 300 P73	73	119,7	1-7/8" UNF	1-5/8" UNF
OT 300 P82	82	126,6	1-7/8" UNF	1-5/8" UNF
OT 300 P90	90	132,6	1-7/8" UNF	1-5/8" UNF

TABLE OT200

Type	Displacement (cc/rev)	Dim. B (mm)	Inlet port e	Outlet port e
OT 200 P04	04,10	48,00	7/8-14UNF	7/8-14UNF
OT 200 P06	06,20	51,00	7/8-14UNF	7/8-14UNF
OT 200 P08	08,20	54,00	7/8-14UNF	7/8-14UNF
OT 200 P11	11,20	58,30	7/8-14UNF	7/8-14UNF
OT 200 P14	14,00	62,30	1-1/16" UNF	7/8-14UNF
OT 200 P16	16,00	65,20	1-1/16" UNF	7/8-14UNF
OT 200 P20	20,00	71,00	1-1/16" UNF	7/8-14UNF
OT 200 P22	22,50	82,70	1-1/16" UNF	7/8-14UNF
OT 200 P25	25,10	86,50	1-1/16" UNF	7/8-14UNF
OT 200 P28	28,00	90,70	1-1/16" UNF	7/8-14UNF
OT 200 P30	30,00	93,50	1-1/16" UNF	7/8-14UNF

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

EXAMPLE OF ORDERING CODE

OT300/200 P 38 / 16 S / R 33 S3 / 2

Series

Pump

Displacement front pump
(See table - OT300)

Displacement second pump
(See table - OT200)

Rotation

S Anti-clockwise

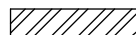
D Clockwise

Two inlet ports

SAE B flange

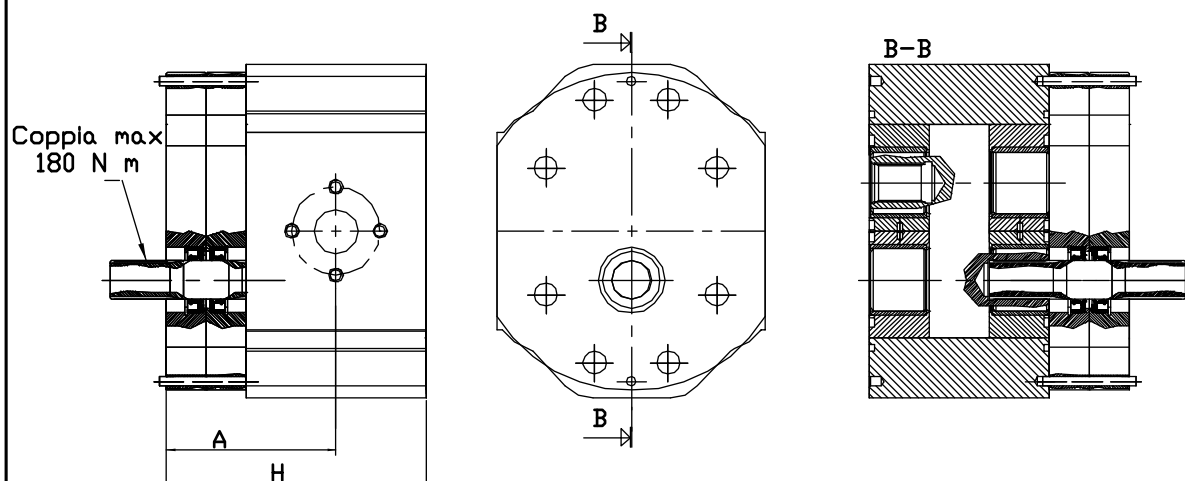
SAE B 13 Teeth -16/32 DP

Body with O-ring boss ports

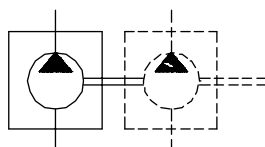
 AVAILABLE FOR QUANTITIES

POMPE GRUPPO 3 INTERMEDIE PER TANDEM

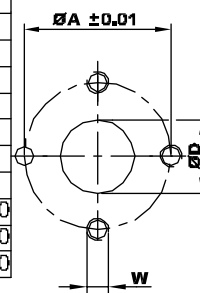
VERSIONE: P X X INTERMEDIA



NOTE : Coppia di serraggio viti 48 N·m



Tipo	Cilindrata (cc/giro)	Pressione massima continua P1 (bar)	Pressione di punta P3 (bar)	Velocità massima (giri/min)	Dimensione A H		Bocca di aspirazione			Bocca di mandata		
					A	H	ØD	ØA	W	ØD	ØA	W
OT 300 P22	22	260	300	3000	71.4	106.8	27	51	M10	19	40	M8
OT 300 P28	28	260	300	3000	73.7	111.4	27	51	M10	19	40	M8
OT 300 P32	32	260	300	3000	75.2	114.4	27	51	M10	19	40	M8
OT 300 P38	38	240	280	3000	77.5	119.0	27	51	M10	19	40	M8
OT 300 P42	42	240	280	3000	79.0	122.0	27	51	M10	19	40	M8
OT 300 P48	48	240	280	3000	86.3	136.6	27	51	M10	19	40	M8
OT 300 P53	53	220	250	3000	88.2	140.4	27	51	M10	19	40	M8
OT 300 P63	63	200	240	2100	92.0	148.0	27	51	M10	19	40	M8
OT 300 P73	73	180	210	2100	95.9	155.7	36	62	M12	27	51	M10
OT 300 P82	82	170	200	2100	99.3	162.6	36	62	M12	27	51	M10
OT 300 P90	90	150	180	2100	102.3	168.6	36	62	M12	27	51	M10



ESEMPIO DI CODICE D'ORDINAZIONE

OT300 P 22 S / P X X INTERMEDIA

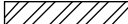
Serie

Pompa

Cilindrata (vedere tabella)

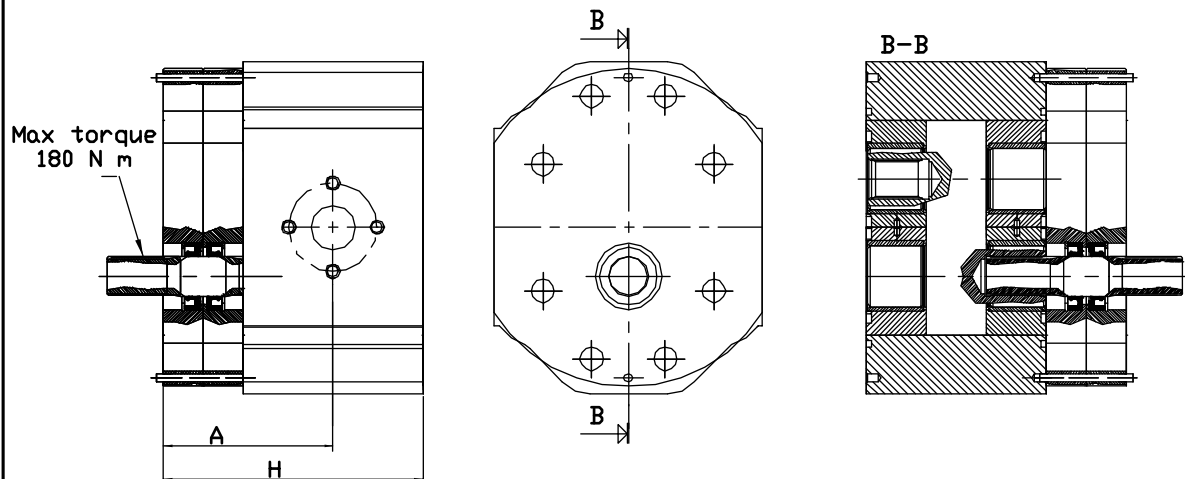
Rotazione	
S	Sinistra
D	Destra

Corpo con bocche a flangia

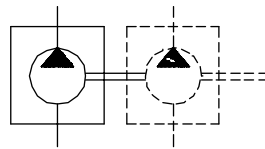
 DISPONIBILE PER QUANTITÀ

INTERMEDIATE GROUP 3 PUMPS FOR TANDEM UNITS

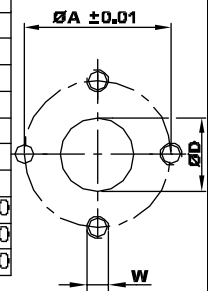
VERSION: P X X INTERMEDIATE



NOTE : Screw tightening torque 48 N.m



Type	Displacement (cc/rev)	Max working pressure P1 (bar)	Peak pressure P3 (bar)	Max speed (r.p.m)	Dimension A H		Inlet port		Outlet port	
					(mm)		e		e	
OT 300 P22	22	260	300	3000	71.4	106.8	27	51	M10	19 40 M8
OT 300 P28	28	260	300	3000	73.7	111.4	27	51	M10	19 40 M8
OT 300 P32	32	260	300	3000	75.2	114.4	27	51	M10	19 40 M8
OT 300 P38	38	240	280	3000	77.5	119.0	27	51	M10	19 40 M8
OT 300 P42	42	240	280	3000	79.0	122.0	27	51	M10	19 40 M8
OT 300 P48	48	240	280	3000	86.3	136.6	27	51	M10	19 40 M8
OT 300 P53	53	220	250	3000	88.2	140.4	27	51	M10	19 40 M8
OT 300 P63	63	200	240	2100	92.0	148.0	27	51	M10	19 40 M8
OT 300 P73	73	180	210	2100	95.9	155.7	36	62	M12	27 51 M10
OT 300 P82	82	170	200	2100	99.3	162.6	36	62	M12	27 51 M10
OT 300 P90	90	150	180	2100	102.3	168.6	36	62	M12	27 51 M10



EXAMPLE OF ORDERING CODE

OT300 P 22 S / P X X INTERMEDIATE

Series

Pump

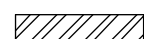
Displacement (see above table)

Rotation

S Anti-clockwise

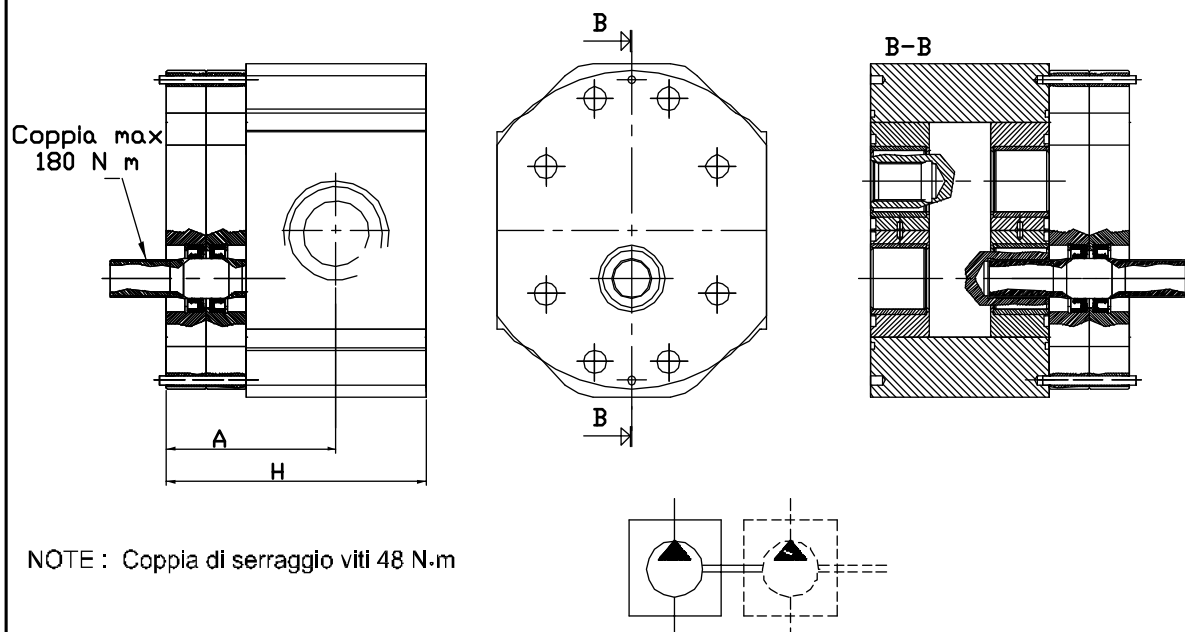
D Clockwise

Body for flanges

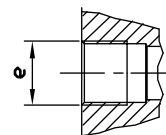
 AVAILABLE FOR QUANTITIES

POMPE GRUPPO 3 INTERMEDIE PER TANDEM

VERSIONE: G X X INTERMEDIA



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	H		
					(mm)		e	e
OT 300 P22	22	260	300	3000	71.4	106.8	G 1	G 3/4
OT 300 P28	28	260	300	3000	73.7	111.4	G 1	G 3/4
OT 300 P32	32	260	300	3000	75.2	114.4	G 1	G 3/4
OT 300 P38	38	240	280	3000	77.5	119.0	G 1	G 3/4
OT 300 P42	42	240	280	3000	79.0	122.0	G 1	G 3/4
OT 300 P48	48	240	280	3000	86.3	136.6	G 1	G 3/4
OT 300 P53	53	220	250	3000	88.2	140.4	G 1	G 3/4
OT 300 P63	63	200	240	2100	92.0	148.0	G 1+1/4	G 3/4
OT 300 P73	73	180	210	2100	95.9	155.7	G 1+1/4	G 1
OT 300 P82	82	170	200	2100	99.3	162.6	G 1+1/4	G 1
OT 300 P90	90	150	180	2100	102.3	168.6	G 1+1/4	G 1



ESEMPIO DI CODICE D'ORDINAZIONE

OT300 P 22 S / P X X INTERMEDIA

Serie

Pompa

Cilindrata (vedere tabella)

Rotazione

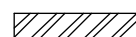
S

Sinistra

D

Destra

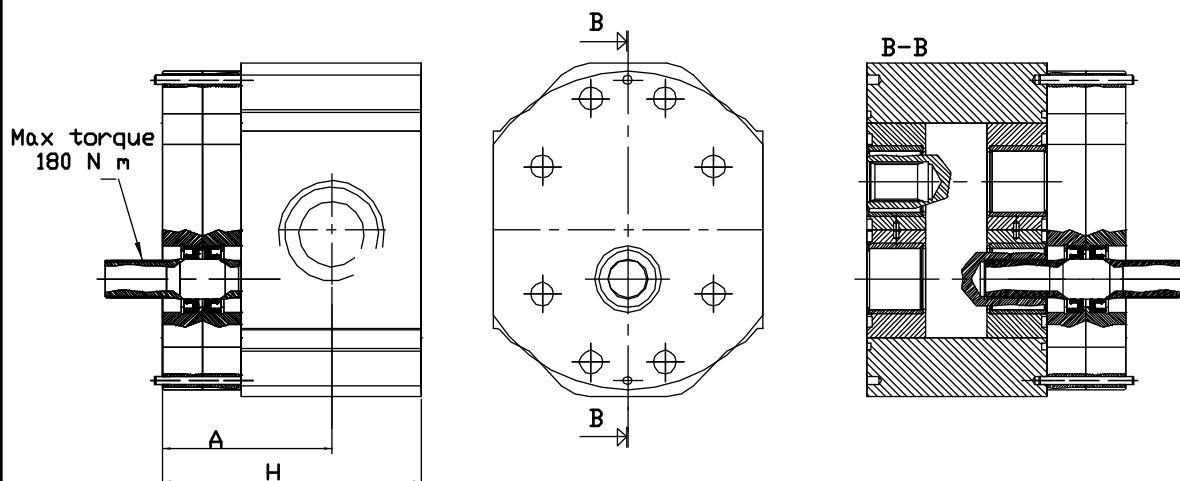
Corpo con bocche filettate
BSP



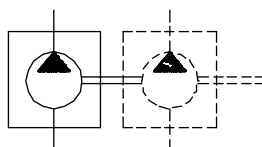
DISPONIBILE PER QUANTITA'

INTERMEDIATE GROUP 3 PUMPS FOR TANDEM UNITS

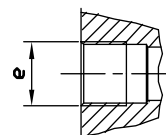
VERSION: P X X INTERMEDIATE



NOTE : Screw tightening torque 48-N m



Type	Displacement	Max working pressure P1	Peak pressure P3	Max speed	Dimension		Inlet port	Outlet port
					L	M		
	(cc/rev)	(bar)	(r.p.m)	(mm)	e	e		
OT 300 P22	22	260	300	3000	71.4	106.8	G 1	G 3/4
OT 300 P28	28	260	300	3000	73.7	111.4	G 1	G 3/4
OT 300 P32	32	260	300	3000	75.2	114.4	G 1	G 3/4
OT 300 P38	38	240	280	3000	77.5	119.0	G 1	G 3/4
OT 300 P42	42	240	280	3000	79.0	122.0	G 1	G 3/4
OT 300 P48	48	240	280	3000	86.3	136.6	G 1	G 3/4
OT 300 P53	53	220	250	3000	88.2	140.4	G 1	G 3/4
OT 300 P63	63	200	240	2100	92.0	148.0	G 1+1/4	G 3/4
OT 300 P73	73	180	210	2100	95.9	155.7	G 1+1/4	G 1
OT 300 P82	82	170	200	2100	99.3	162.6	G 1+1/4	G 1
OT 300 P90	90	150	180	2100	102.3	168.6	G 1+1/4	G 1



EXAMPLE OF ORDERING CODE

OT300 P 22 S / P X X INTERMEDIATE

Series

Pump

Displacement (see above table)

Rotation

S

Anti-clockwise

D

Clockwise

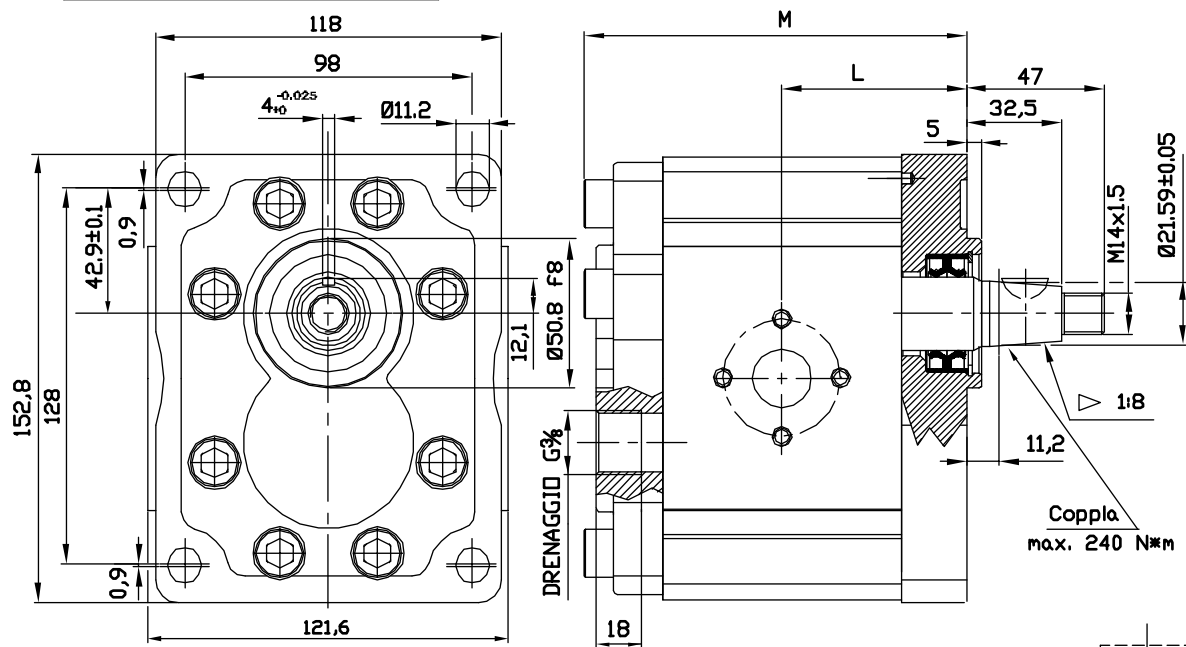
Body with threaded ports (BSP)



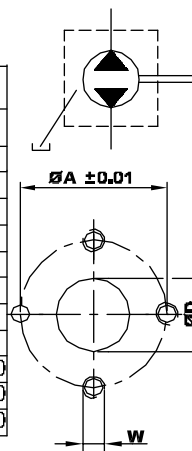
AVAILABLE FOR QUANTITIES

POMPE REVERSILILI GRUPPO 3- STANDARD EUROPEO

VERSIONE: P38 P3



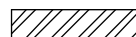
Tipo	Cilindrata (cc/giro)	Pressione massima continua P1 (bar)	Pressione di punta P3 (bar)	Velocità massima (giri/min.)	Dimensione L M (mm)		Bocca di aspirazione			Bocca di mandata		
							ØD	ØA	W	ØD	ØA	W
OT 300 P22	22	220	250	3000	57,4	119,3	27	51	M10	19	40	M8
OT 300 P28	28	220	250	3000	59,7	123,7	27	51	M10	19	40	M8
OT 300 P32	32	220	250	3000	61,2	126,9	27	51	M10	19	40	M8
OT 300 P38	38	200	230	3000	63,5	131,5	27	51	M10	19	40	M8
OT 300 P42	42	200	230	3000	65,0	134,5	27	51	M10	19	40	M8
OT 300 P48	48	200	230	3000	72,3	149,1	27	51	M10	19	40	M8
OT 300 P53	53	180	200	3000	74,2	152,9	27	51	M10	19	40	M8
OT 300 P63	63	180	200	2100	78,0	160,5	27	51	M10	19	40	M8
OT 300 P73	73	160	180	2100	81,9	168,2	36	62	M12	27	51	M10
OT 300 P82	82	160	180	2100	85,3	175,1	36	62	M12	27	51	M10
OT 300 P90	90	130	150	2100	88,3	181,1	36	62	M12	27	51	M10



ESEMPIO DI CODICE D'ORDINAZIONE

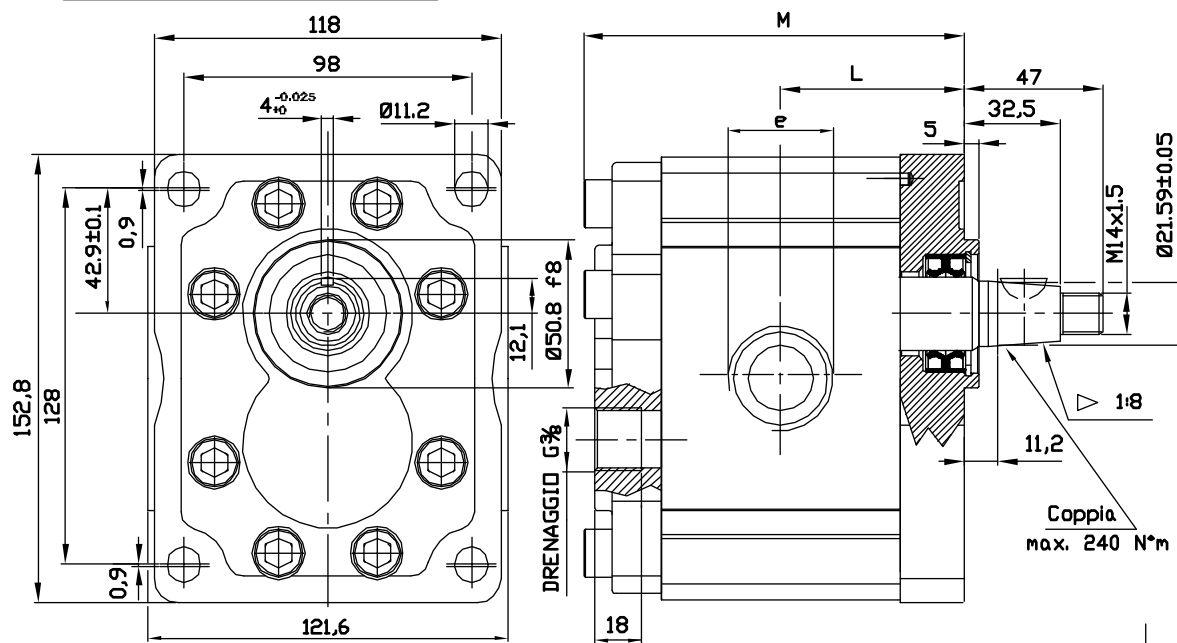
OT300 P 28 R / P 38 P3

Serie	P	28	R / P	38	P3	Flangia standard Europeo
Pompa						Albero conico (1:8)
Cilindrata (vedere tabella)						Corpo con bocche a flangia
Rotazione						
R	Reversibile					

 DISPONIBILE PER QUANTITA'

POMPE REVERSILILI GRUPPO 3- STANDARD EUROPEO

VERSIONE: G38 P3



Tipo	Cilindrata (cc/giro)	Pressione massima continua P1 (bar)	Pressione di punta P3 (bar)	Velocità massima (giri/min.)	Dimensione L M (mm)		Bocca di aspirazione e	Bocca di mandata e
OT 300 P22	22	220	250	3000	57,4	119,3	G 1	G 1
OT 300 P28	28	220	250	3000	59,7	123,7	G 1	G 1
OT 300 P32	32	220	250	3000	61,2	126,9	G 1	G 1
OT 300 P38	38	200	230	3000	63,5	131,5	G 1	G 1
OT 300 P42	42	200	230	3000	65,0	134,5	G 1	G 1
OT 300 P48	48	200	230	3000	72,3	149,1	G 1	G 1
OT 300 P53	53	180	200	3000	74,2	152,9	G 1	G 1
OT 300 P63	63	180	200	2100	78,0	160,5	G 1+1/4	G 1+1/4
OT 300 P73	73	160	180	2100	81,9	168,2	G 1+1/4	G 1+1/4
OT 300 P82	82	160	180	2100	85,3	175,1	G 1+1/4	G 1+1/4
OT 300 P90	90	130	150	2100	88,3	181,1	G 1+1/4	G 1+1/4

ESEMPIO DI CODICE D'ORDINAZIONE

OT300 P 28 R / G 38 P3

Serie

Pompa

Cilindrata (vedere tabella)

Rotazione

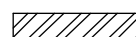
R

Reversibile

Flangia standard Europeo

Albero conico (1:8)

Corpo con bocche a filettate (GAS)

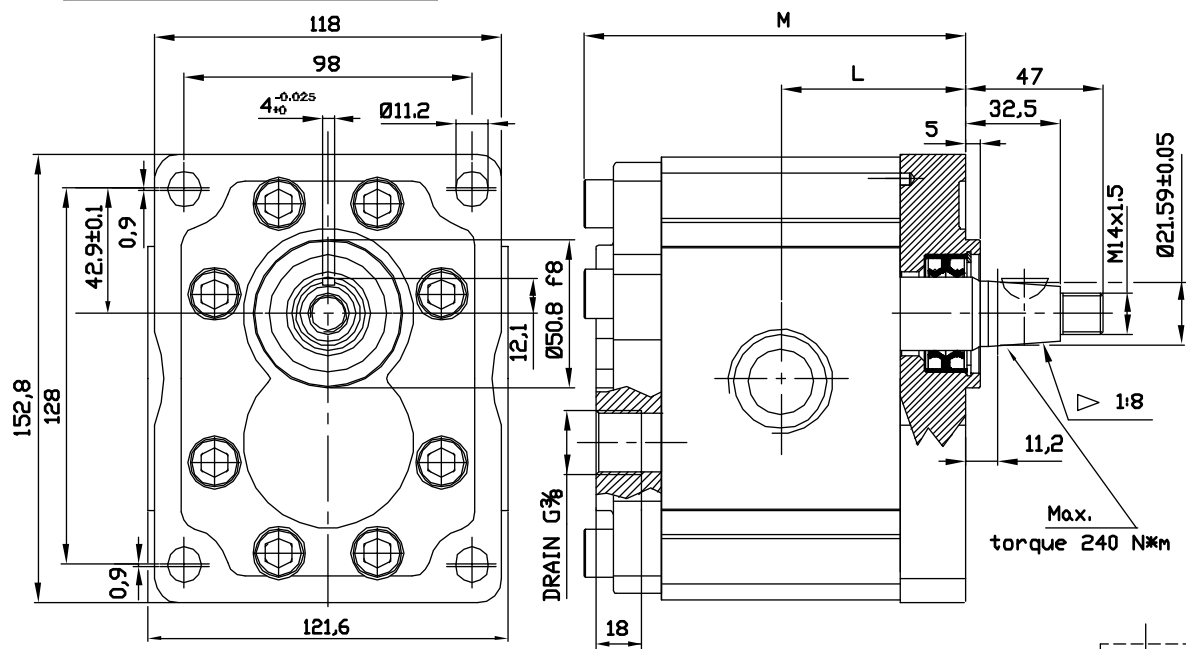


DISPONIBILE PER QUANTITÀ

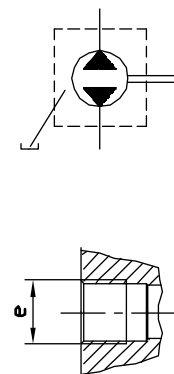
GROUP3 REVERSIBLE PUMPS-

EUROPEAN STANDARD

VERSION: G38 P3



OT 300 P22	22	220	250	3000	57,4	119,3	G 1	G 1
OT 300 P28	28	220	250	3000	59,7	123,7	G 1	G 1
OT 300 P32	32	220	250	3000	61,2	126,9	G 1	G 1
OT 300 P38	38	200	230	3000	63,5	131,5	G 1	G 1
OT 300 P42	42	200	230	3000	65,0	134,5	G 1	G 1
OT 300 P48	48	200	230	3000	72,3	149,1	G 1	G 1
OT 300 P53	53	180	200	3000	74,2	152,9	G 1	G 1
OT 300 P63	63	180	200	2100	78,0	160,5	G 1+1/4	G 1+1/4
OT 300 P73	73	160	180	2100	81,9	168,2	G 1+1/4	G 1+1/4
OT 300 P82	82	160	180	2100	85,3	175,1	G 1+1/4	G 1+1/4
OT 300 P90	90	130	150	2100	88,3	181,1	G 1+1/4	G 1+1/4



EXAMPLE OF ORDERING CODE

OT300 P 28 R / G 38 P3

Series

Pump

Displacement (see above table)

Rotation

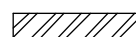
R

Reversible

European standard flange

Taper shaft (1:8)

Body with threaded ports (BSP)



AVAILABLE FOR QUANTITIES

MOTORI GRUPPO 3

PARAMETRI DI FUNZIONAMENTO MOTORI UNIDIREZIONALI OT300

MOTORE TIPO	CILINDRATA	PRESSIONE MAX.			VELOCITA' MAX	VELOCITA' MIN
		P1	P2	P3		
	cm ³ / giro	bar			min ⁻¹	min ⁻¹
OT300 M22	22	250	280	300	4000	600
OT300 M28	28					
OT300 M32	32					
OT300 M38	38	240	260	280	3500	500
OT300 M42	42					
OT300 M48	48					
OT300 M53	53	190	210	250	3000	
OT300 M63	63	190	210	240	2500	
OT300 M73	73	160	180	210		
OT300 M82	82	150	170	200	2000	
OT300 M90	90	130	150	180		

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**

GROUP3 MOTORS

OT300 SINGLE ROTATION MOTORS GENERAL DATA

MOTOR TYPE	DISPLACEMENT	MAX. PRESSURE			MAX. SPEED	MIN. SPEED
		P1	P2	P3		
	cc ³ / rev	bar			rev ⁻¹	rev ⁻¹
OT300 M22	22	250	280	300	4000	600
OT300 M28	28					
OT300 M32	32					
OT300 M38	38	240	260	280	3500	500
OT300 M42	42					
OT300 M48	48					
OT300 M53	53	190	210	250	3000	
OT300 M63	63	190	210	240	2500	
OT300 M73	73	160	180	210		
OT300 M82	82	150	170	200	2000	
OT300 M90	90	130	150	180		

P1= Max. continuous pressure

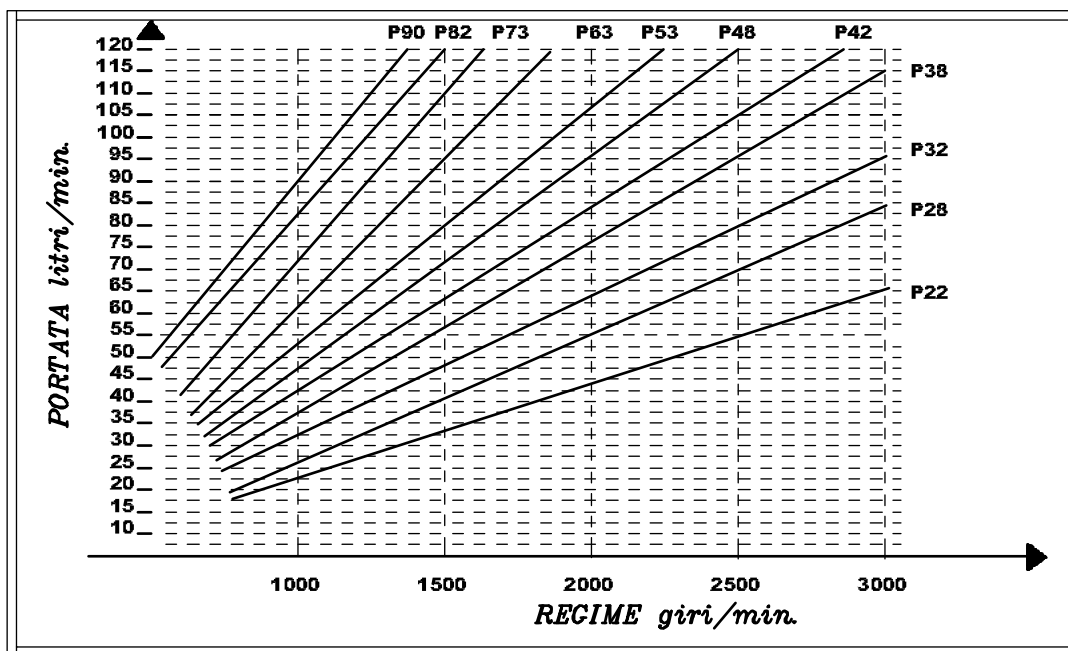
P2= Max. intermittent pressure

P3= Max. peak pressure

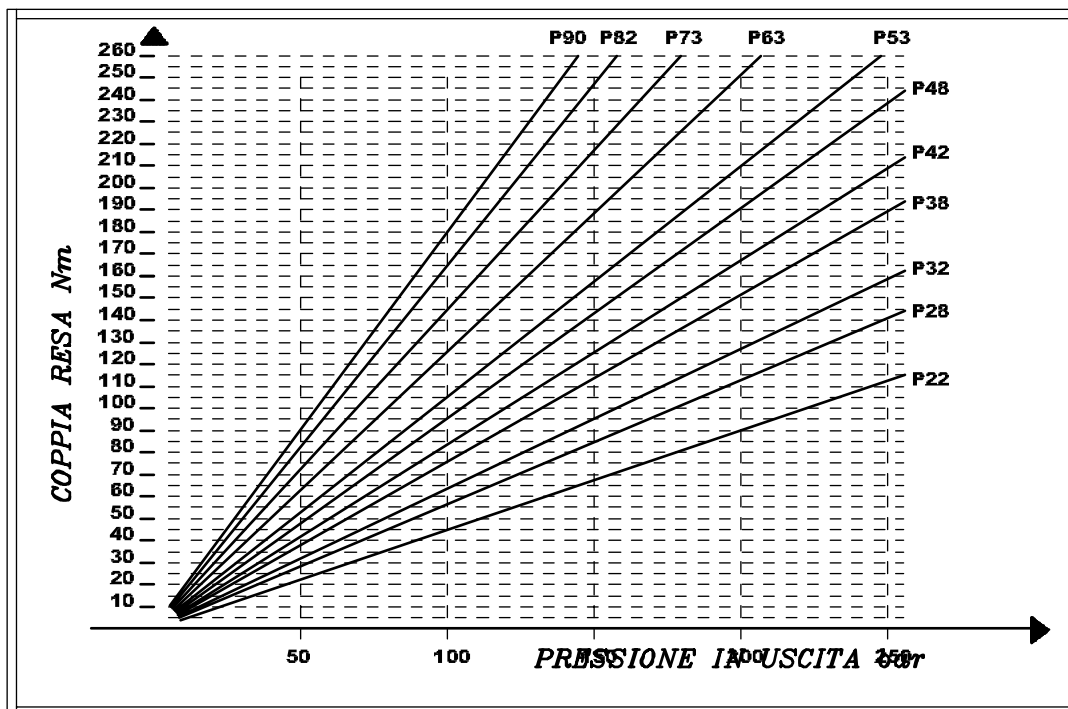
**FOR DIMENSION PLEASE CHECK
RELATIVE SINGLE PUMP TABLES**

MOTORI GRUPPO 3

CURVE CARATTERISTICHE DI PORTATA



COPPIA RESA

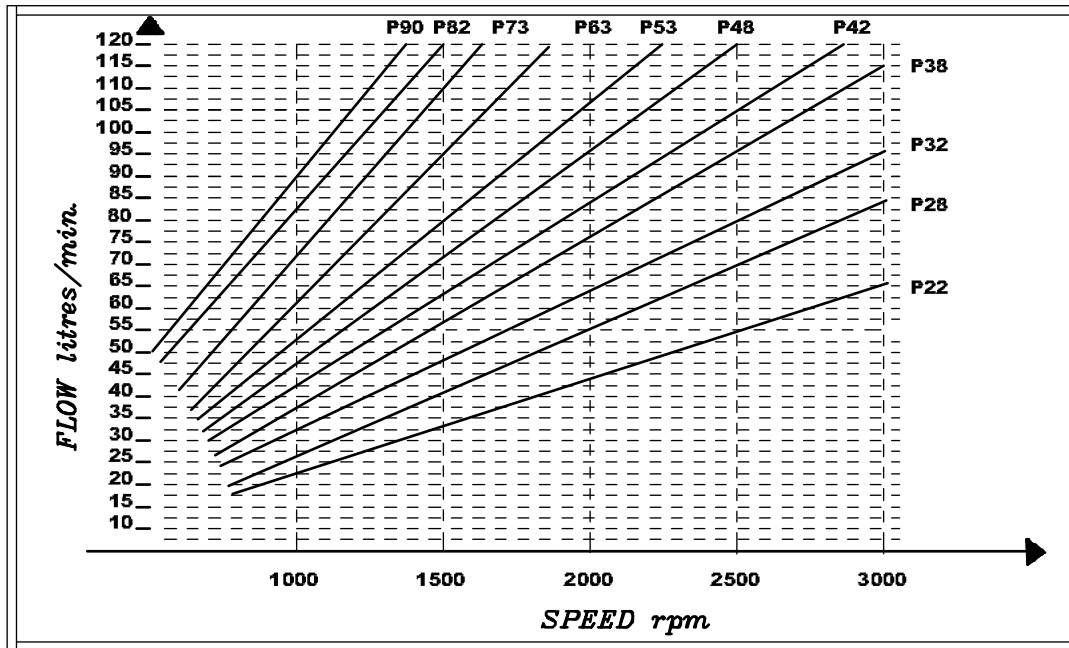


NOTE

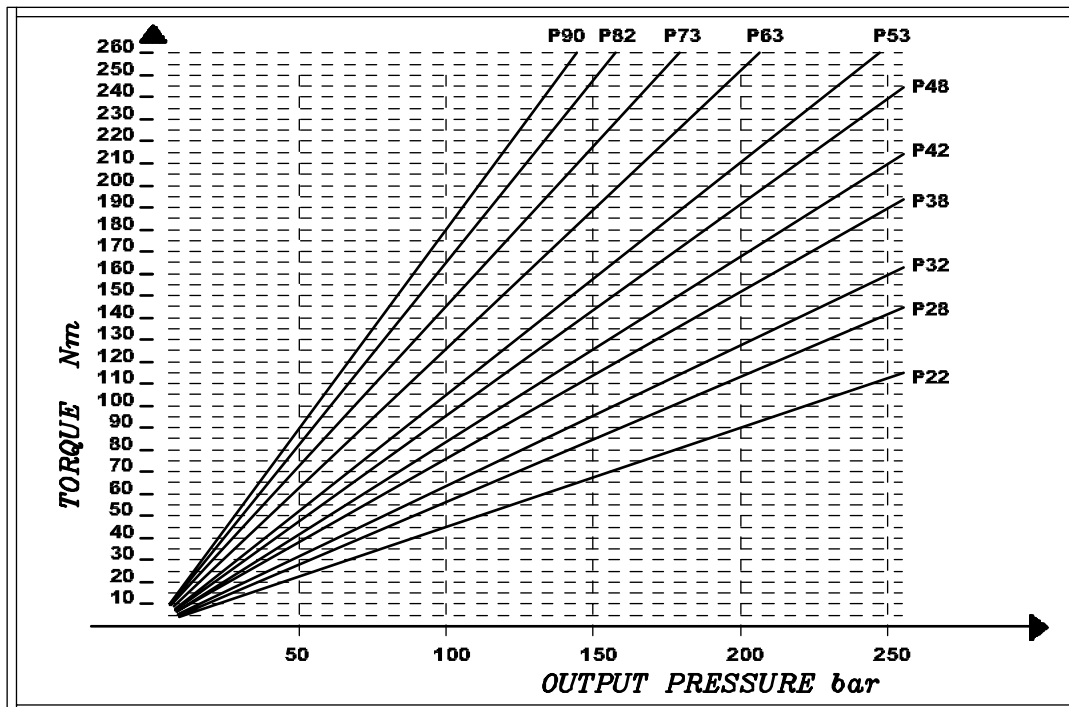
Le curve caratteristiche di portata sono state tracciate alla pressione P1

GROUP3 MOTORS

FLOW CHARACTERISTICS CURVES



ABSORBED TORQUE



NOTE

The flow characteristics curves have been made at P1 pressure.

MOTORI GRUPPO 3

DETERMINAZIONE DI UN MOTORE

V	Cilindrata	cm^3/giro
Q	Portata	l/min
P	Potenza	kW
C	Coppia	$\text{N} \cdot \text{m}$
N	Velocità	$-15^\circ\text{C} / +80^\circ\text{C}$
ΔP	Pressione	bar
η_v	Rendimento volumetrico	0.95
η_m	Rendimento meccanico	0.85
η_t	Rendimento totale	0.81

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

$$C = \frac{\Delta P \cdot V \cdot \eta_m}{62.8} \quad \text{N} \cdot \text{m}$$

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

GROUP3 MOTORS

MOTOR CALCULATION

V	Displacement	CC / REV
Q	Flow	l/min
P	Power	kW
C	Torque	N · m
N	Speed	-15°C / +80°C
ΔP	Pressure	bar
n_v	Volumetric efficiency	0.95
n_m	Mechanical efficiency	0.85
n_t	Total efficiency	0.81

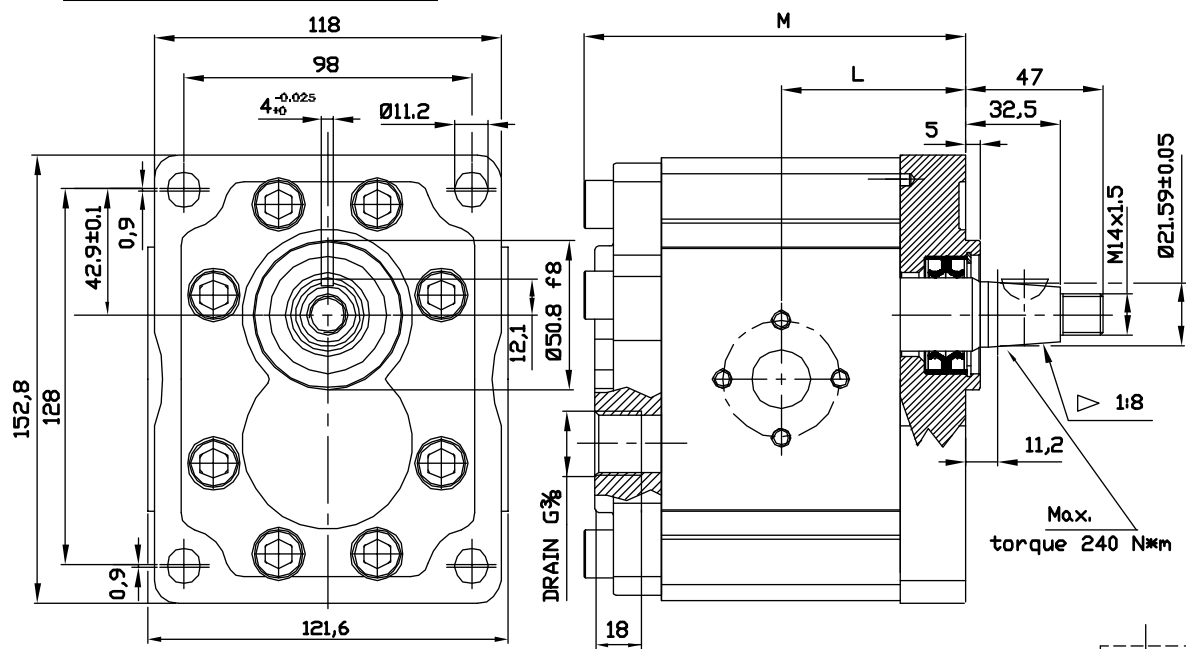
$$Q = \frac{V \cdot N}{n_v} \cdot 10^{-3} \quad l/min$$

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

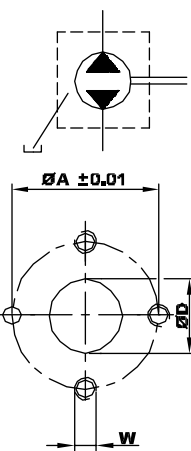
$$P = \frac{\Delta P \cdot V \cdot N \cdot n_t}{612000} \quad kW$$

GROUP3 REVERSIBLE MOTORS- EUROPEAN STANDARD

VERSION: P38 P3



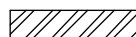
Type	Displacement (cc/rev)	Max working pressure P1 (bar)	Peak pressure P3 (bar)	Max speed (r.p.m)	Dimension		Inlet port			Outlet port		
					L	M	ØD	ØA	W	ØD	ØA	W
					(mm)							
OT 300 P22	22	220	250	3000	57,4	119,3	27	51	M10	19	40	M8
OT 300 P28	28	220	250	3000	59,7	123,7	27	51	M10	19	40	M8
OT 300 P32	32	220	250	3000	61,2	126,9	27	51	M10	19	40	M8
OT 300 P38	38	200	230	3000	63,5	131,5	27	51	M10	19	40	M8
OT 300 P42	42	200	230	3000	65,0	134,5	27	51	M10	19	40	M8
OT 300 P48	48	200	230	3000	72,3	149,1	27	51	M10	19	40	M8
OT 300 P53	53	180	200	3000	74,2	152,9	27	51	M10	19	40	M8
OT 300 P63	63	180	200	2100	78,0	160,5	27	51	M10	19	40	M8
OT 300 P73	73	160	180	2100	81,9	168,2	36	62	M12	27	51	M10
OT 300 P82	82	160	180	2100	85,3	175,1	36	62	M12	27	51	M10
OT 300 P90	90	130	150	2100	88,3	181,1	36	62	M12	27	51	M10



EXAMPLE OF ORDERING CODE

OT300 M 28 R / P 38 P3

Series	Motor	Displacement (see above table)	Rotation	European standard flange	Taper shaft (1:8)	Body for European flanges
			R Reversible			

 AVAILABLE FOR QUANTITIES

