



| GS6             |                        |                      | 1700 | 2100 | 2500 |
|-----------------|------------------------|----------------------|------|------|------|
| Displacements   | <i>Cilindrate</i>      | cm <sup>3</sup> /rev | 1690 | 2127 | 2513 |
| Bore Ø          | <i>Alesaggio Ø</i>     | mm                   | 82   | 92   | 100  |
| Shaft           | <i>Corsa</i>           | mm                   | 64   | 64   | 64   |
| Specific Torque | <i>Coppia Spec.</i>    | Nm/bar               | 26.4 | 33.2 | 39.2 |
| Cont. Pressure  | <i>Press. Cont.</i>    | bar                  | 250  | 250  | 250  |
| Peak Pressure   | <i>Press. Picco</i>    | bar                  | 450  | 400  | 350  |
| Cont. Speed     | <i>Velocita' Cont.</i> | rpm                  | 400  | 400  | 300  |
| Max. Speed      | <i>Velocita' Max</i>   | rpm                  | 600  | 575  | 500  |
| Peak Power      | <i>Potenza Picco</i>   | kW                   | 300  | 300  | 300  |

Max. freewheeling speed: 800 rpm

NB: Vacuum freewheeling with inlet port closed

Weight: approx 291 kg 640 lb

Motor casing oil capacity: 25 lit 1527 cu.in

Max. casing pressure: cont. 3 bar 42 psi  
peak 6 bar 85 psi

Velocità max. in folle: 800 giri/min

NB: Funzionamento in "vacuum" con ingresso chiuso

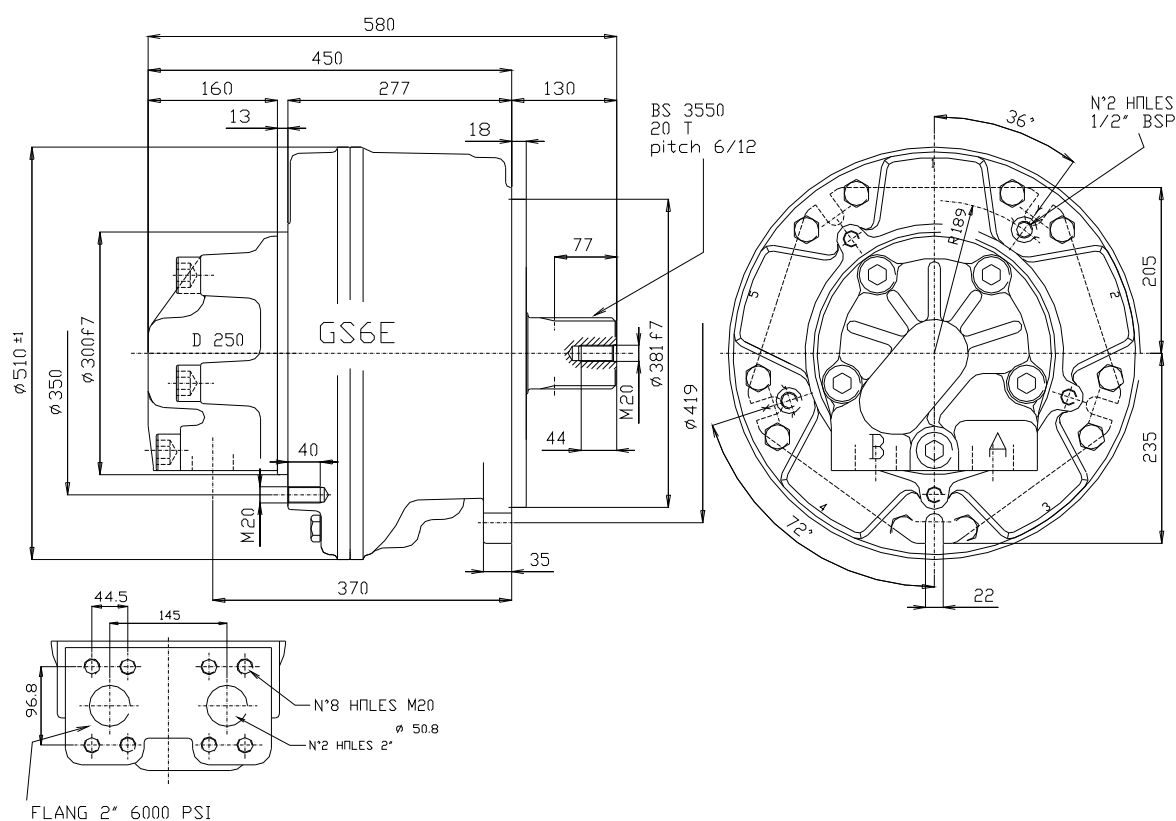
Peso: ca 291 kg

Capacità olio corpo motore: 25 lit

Pressione max. carcassa: 3 bar cont.  
6 bar picco

NB: Continuous or average working pressure should be chosen in function of the required service lifetime (see bearing lifetime).

NB: La pressione continua o media di lavoro va determinata in funzione della vita del motore (vedi vita cuscinetti).



## SHAFTS

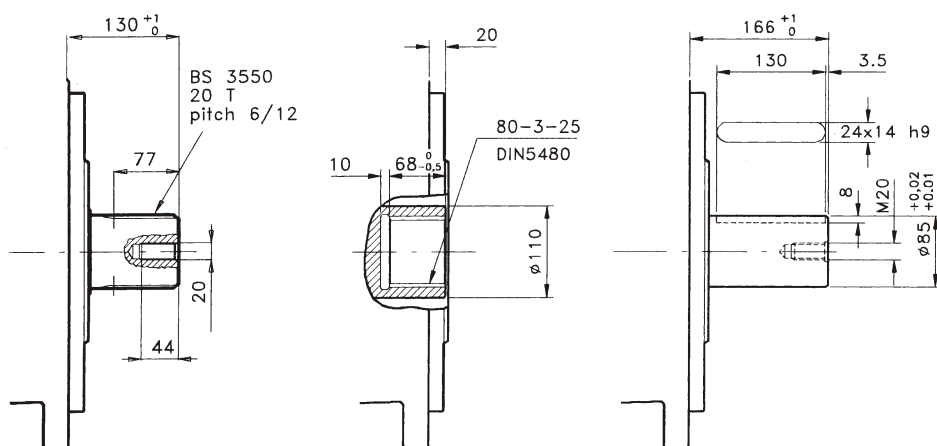
**ALBERI**

Splined BS 3550 1  
*Calettato*

Internal spline 9\*  
*Calett. intern.*

Cylindrical 8\*  
*Cilindrico*

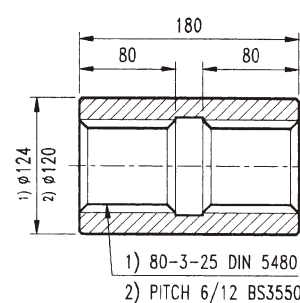
\*Bearing option E only.



### SPLINE DATA - CALETTATURE

|                                                                                                      |           |                                            |  |                                                    |
|------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------|--|----------------------------------------------------|
| <b>DIN</b><br>    |           | <b>80-3-25 DIN 5480</b>                    |  | <b>pitch 6/12 BS3550</b>                           |
|                                                                                                      | <b>d0</b> | Ø75.0                                      |  | <b>A</b> Ø88.0 <sup>-0.047</sup> <sub>-0.17</sub>  |
|                                                                                                      | <b>d1</b> | Ø80.0 <sup>+0.0670</sup> <sub>+0</sub> H14 |  | <b>B</b> Ø84.6                                     |
|                                                                                                      | <b>d2</b> | Ø74.0 <sup>+0.190</sup> <sub>+0</sub> H11  |  | <b>C</b> Ø80.0 <sup>-0.480</sup> <sub>-0.070</sub> |
|                                                                                                      | <b>A</b>  | Ø5.25                                      |  | <b>D</b> Ø97.0 <sup>+0.082</sup> <sub>+0.030</sub> |
| <b>BS3550</b><br> | <b>da</b> | Ø68.9 H9                                   |  | <b>E</b> Ø8.12                                     |
|                                                                                                      | <b>d3</b> | Ø79.4 <sup>-0</sup> <sub>-0.190</sub> h11  |  |                                                    |
|                                                                                                      | <b>d4</b> | Ø73.4 <sup>-0</sup> <sub>-0.870</sub> h14  |  |                                                    |
|                                                                                                      | <b>B</b>  | Ø6.0                                       |  |                                                    |
|                                                                                                      | <b>db</b> | Ø85.9 f8                                   |  |                                                    |

**ADAPTORS**  
**MANICOTTI**

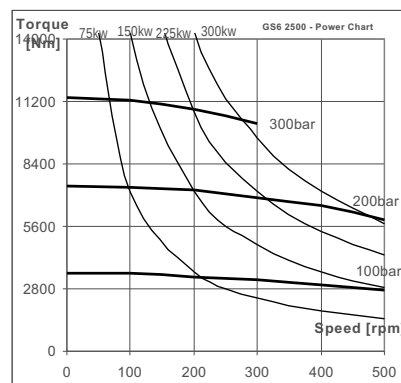
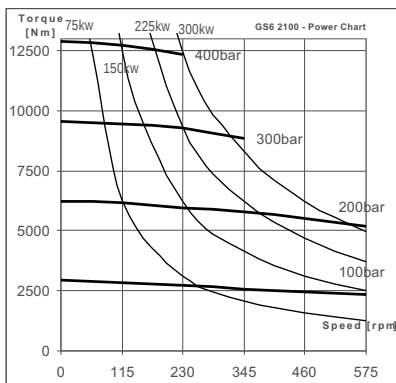
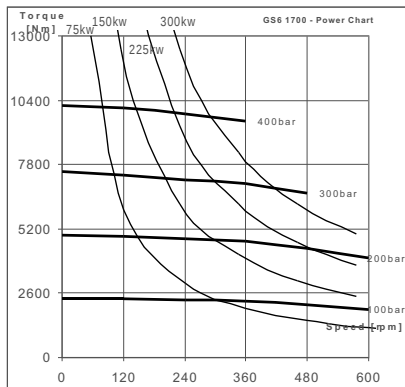


## PERFORMANCE

The graphs indicate the typical performance characteristics of the motors operating with mineral oil (standard ISO 68).

## CARATTERISTICHE

I grafici si riferiscono alle caratteristiche dei motori operando con olio minerale (standard ISO 68).



### STARTING / STALLING TORQUE

The output torque of the motors does not fall off at stalling speed. The graphs above indicate the starting torque of the motors (torque at 0 rpm).

### BEARING LIFETIME (See page 9)

The graph refer to motors with standard spherical roller roller bearings.

Note that the average lifetime of a bearing ( $B_{50}$  lifetime) is approximately 5 times the  $B_{10}$  lifetime.

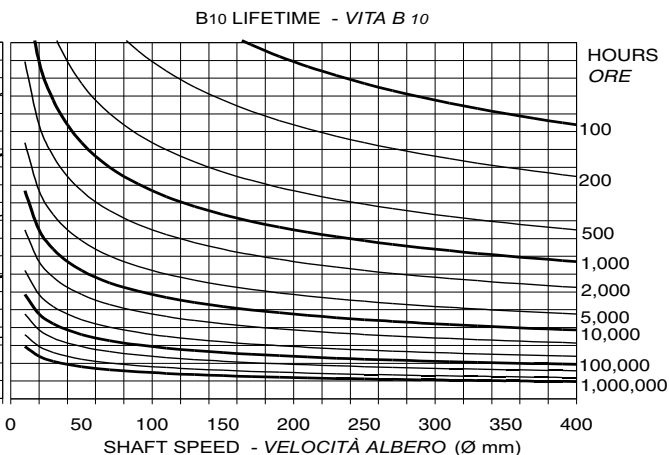
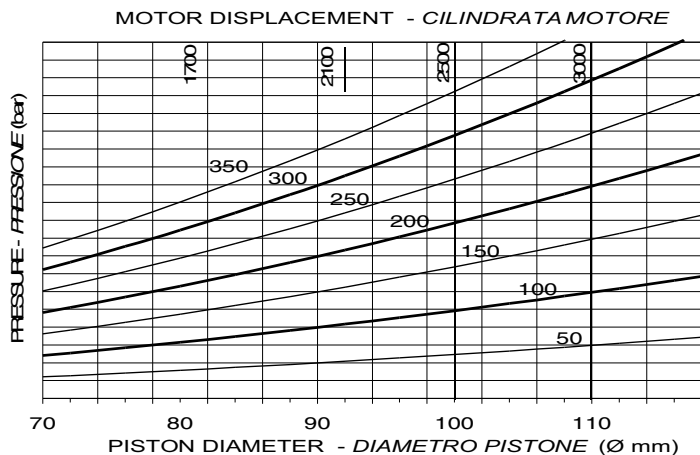
### COPPIA DI SPUNTO / STALLO

La coppia erogata dal motore non diminuisce in prossimità della velocità di stallo. I grafici indicano la coppia di spunto dei motori (coppia a 0 rpm)

### VITA CUSCINETTI (vedi pagina 9)

I grafici si riferiscono a motori con cuscinetti a rulli orientabili standard.

Notare che la vita media di un cuscinetto (vita  $B_{50}$ ) è circa 5 volte superiore alla vita  $B_{10}$ .



### BEARING OPTIONS

Higher capacity Spherical roller bearings (on request) - the lifetime is approximately 1.6 times the equivalent lifetime of the roller bearings

### OPZIONI CUSCINETTI

Cuscinetti a rulli orientabili a capacità maggiorata (su richiesta) - la vita dei cuscinetti a rulli orientabili è 1,6 volte l'equivalente vita dei cuscinetti standard.

**ORDER CODES**
**CODICI D'ORDINE**

| GS6 | ① | ② | ③ | ④ | + | ⑤ | ⑥ | ; | ⑦ | ⑧ |
|-----|---|---|---|---|---|---|---|---|---|---|
|-----|---|---|---|---|---|---|---|---|---|---|

**MOTOR CODE**

1. Nominal displacement - see motor spec. Table.

2. Shaft option: 1 = male BS 3550 (std)  
9 = female 80-30-25 DIN 5480  
8 = cylindrical keyed

3. Bearings: X=higher capacity sph. Roller bearings

4. Other options: U = without shaft seal  
SV = shaft seal protection  
VY = Vyton seals  
I = case press. relief valve 3 bar  
SB= disk cage in sperical support  
to be always matched to opt.X  
A= high pressure shaft seal  
in the motor body

5. Distributor: D250 = standard

6. Tachometer: K = prepared for tachometer  
J = with tachometer coupling

7. Direction of shaft rotation: standard motors are supplied with clockwise rotation (viewed from shaft end) with flow in port A, out port B.

R = clockwise rotation  
L = anti-clockwise rotation

8. Distributor cover position: see page 8  
no code = position DM1  
DM = other position (DM2/3/4/5)

**CODICE MOTORE**

1. Cilindrata nominale - vedi tabella cilindrate.

2. Opzioni albero : 1 = maschio BS 3550 (std)  
9 = femmina 80-30-25 DIN 5480  
8 = cilindrico con chiavetta

3. Cuscinetti: X=Cuscinetti a rulli di botte a capacita' incrementata

4. Altre opzioni: U = senza tenuta albero  
SV = protezione tenuta albero  
VY = Tenute in Vyton  
I = valv. sfiato 3 bar  
SB= gabbia del cuscinetto nel supporto sferico da accompagnare all'opzione X  
A= anello per alta pressione nel corpo motore

5. Distributore: D250 = standard

6. Contagiri: K = predisposizione per contagiri  
J = con attacco contagiri

7. Rotazione albero: I motori sono forniti con rotazione in senso orario (visto dal lato albero) con flusso in ingresso in port A, in uscita port B.  
R = rotazione in senso orario  
L = rotazione in senso anti-orario

8. Orientamento coperchio distrib.: vedi pag. 8  
nessun codice = posizione DM 1  
DM . = altra posizione (DM2/3/4/5)