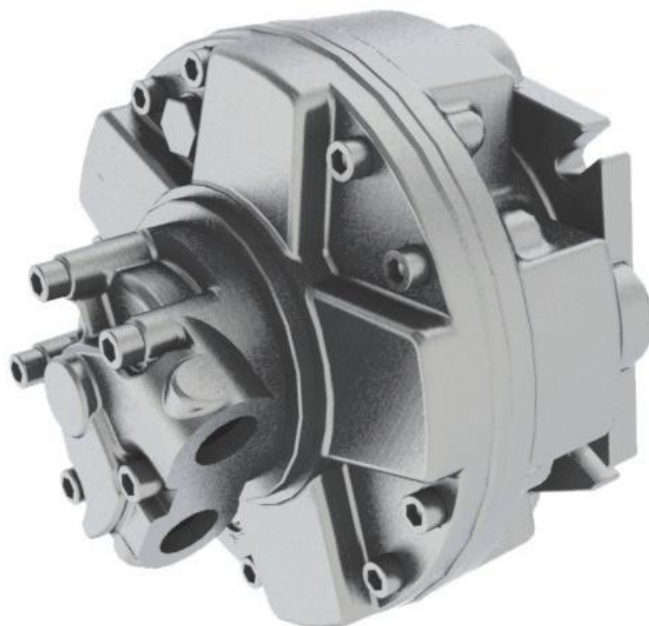


## GM2



PERFORMANCES TABLE  
TABELLA DELLE PERFORMANCE

GM2		200	250★	300	350★	420★	500★	600★	630
Displacement / Cilindrata	cm <sup>3</sup> /rev	192	251	304	347	425	493	565	623
Bore / Alesaggio	mm	35	40	44	47	52	56	60	63
Stroke / Corsa	mm	40	40	40	40	40	40	40	40
Specific torque / Coppia spec.	Nm/bar	3,00	3,92	4,75	5,42	6,63	7,69	8,83	9,73
Cont. Pressure / Press. Cont.	bar	250	250	250	250	250	250	250	250
Peak pressure / Press. Picco	bar	425	425	400	375	350	350	300	280
Cont. speed / Velocità Cont.	rpm	550	550	500	500	450	450	450	400
Max. speed / Velocità Max	rpm	800	800	750	750	750	700	700	650
Peak power / Potenza picco	kW	59	59	59	59	59	59	59	59

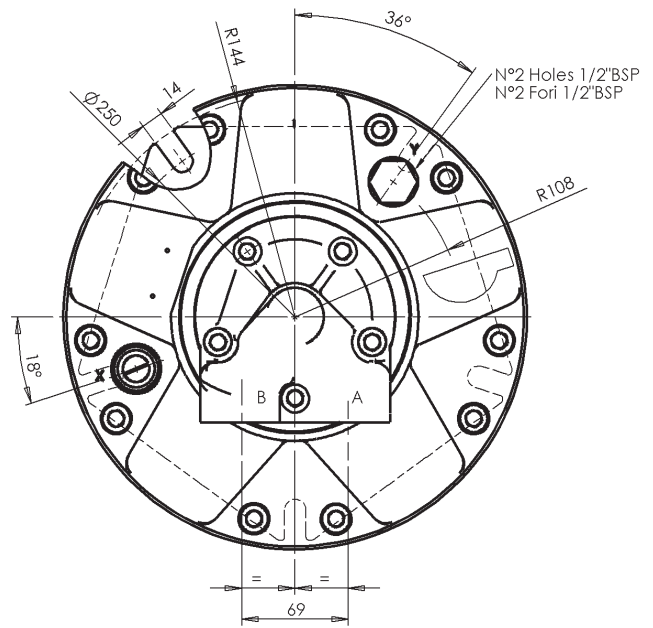
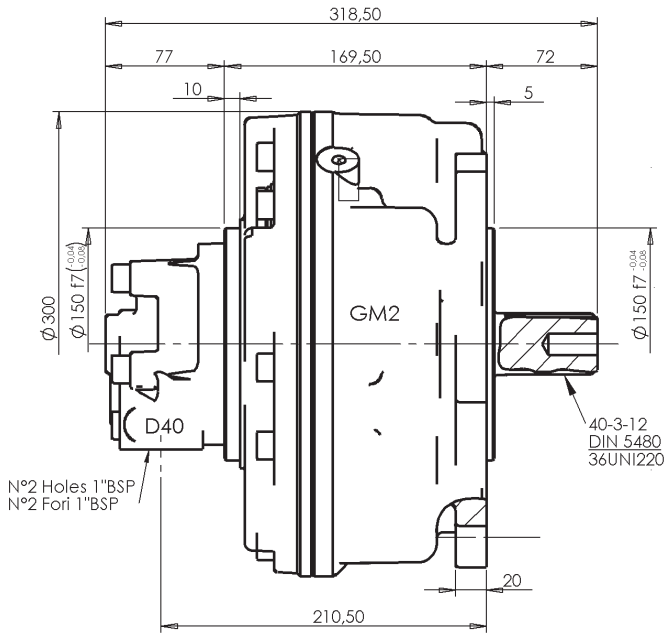
Approximative mass / Massa approssimativa	kg	51
Motor casing oil capacity / Capacità olio corpo motore	l	2

Max casing pressure / Pressione max. in carcassa	bar	5 <sup>peak</sup>	La pressione continua o media di lavoro va determinata in funzione della vita del motore (vita dei cuscinetti).
		1 <sup>continuous</sup>	
		1 <sup>continuo</sup>	Continuous or average working pressure should be chosen in function of the required service lifetime (bearing lifetime).

★= Preferred motor type / Motore preferito

DIMENSIONS

DIMENSIONI



Flange and shaft dimensions are the same as for M3 and P3 series motors.

Le dimensioni della flangiatura e degli alberi sono come nelle serie M3 e P3.

SHAFTS

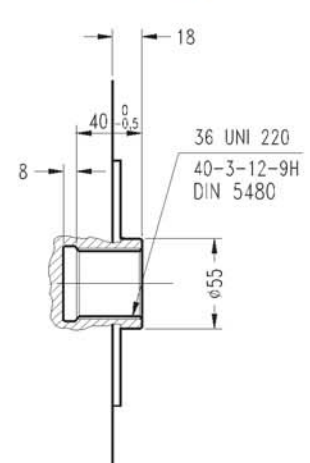
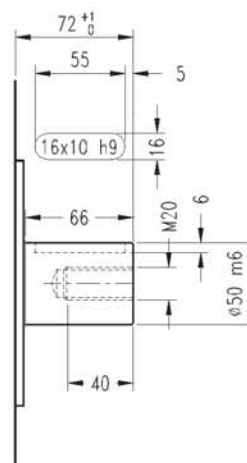
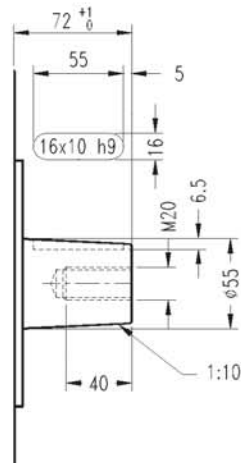
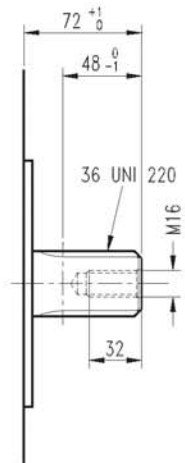
ALBERI

Splined DIN 5480 7  
Calettato UNI 220 1

Tapered 2  
Conico

Cylindrical 8  
Cilindrico

Internal spline DIN 5480 9  
Calett. intern. UNI 220 3

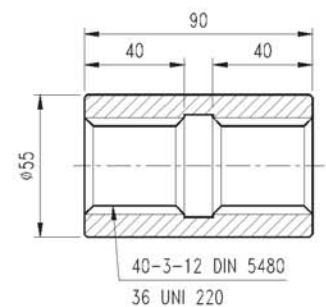


SPLINE DATA - CALETTATURE

ADAPTORS  
MANICOTTI

40-3-12 DIN 5480	
	d0 $\varnothing 36.0$
	d1 $\varnothing 40.0^{+0.620}_{+0} H14$
	d2 $\varnothing 34.0^{+0.160}_{+0} H11$
	A $\varnothing 5.25$
	da $\varnothing 28.964 H11$
	d3 $\varnothing 39.4^{-0.160}_{-0} h11$
	d4 $\varnothing 33.4^{-0.620}_{-0} h14$
	B $\varnothing 6.0$
	db $\varnothing 45.989 f8$

36 UNI 220 (DIN 5462)	
	d1 $\varnothing 36.0^{+0.025}_{+0} H7$
	d2 $\varnothing 40.0^{+0.160}_{+0} H11$
	A $7.0^{+0.028}_{+0.013} F7$
	d3 $\varnothing 36.0^{-0.009}_{-0.025} g6$
	d4 $\varnothing 40.0^{-0.065}_{-0.160} d11$
	B $7.0^{-0.013}_{-0.028} f7$



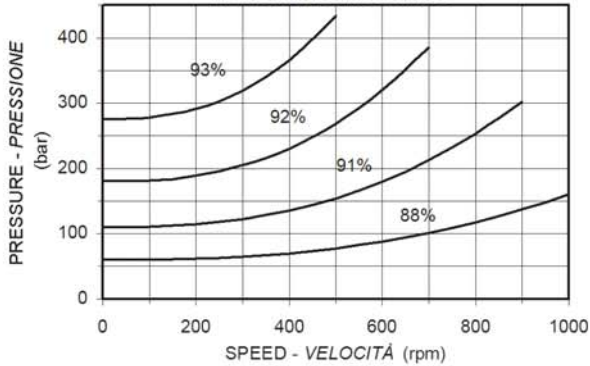
**PERFORMANCE**

The graphs indicate the typical performance characteristics of the 300 cc motor operating with mineral oil with viscosity 40 cSt at 50 °C.

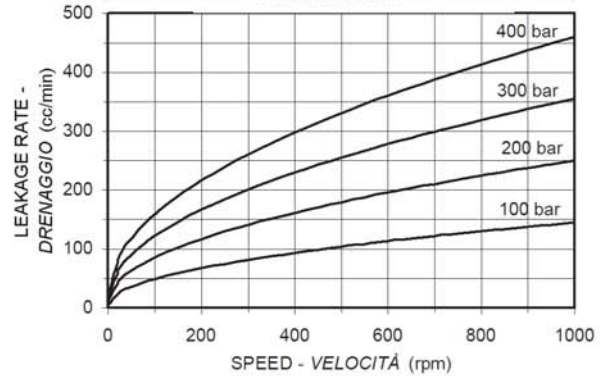
**CARATTERISTICHE**

I grafici si riferiscono alle caratteristiche del motore 300 cc operando con olio minerale avente viscosità 40 cSt a 50 °C.

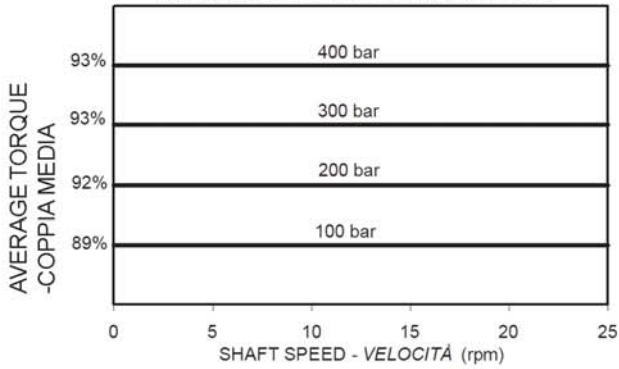
**MECHANICAL EFFICIENCY**  
RENDIMENTO MECCANICO



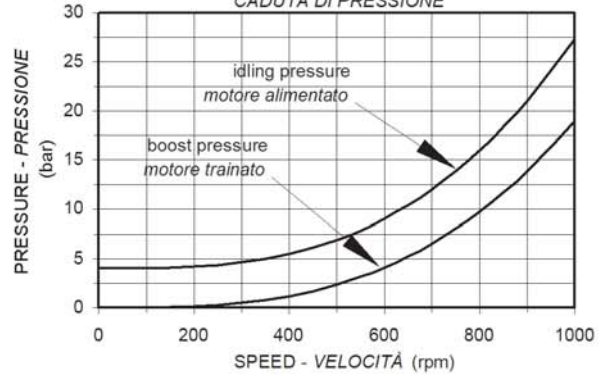
**LEAKAGE RATE**  
DRENAGGIO



**STARTING AND LOW SPEED TORQUE**  
COPPIA ALLO SPUNTO E A BASSA VELOCITÀ



**IDLING AND BOOST PRESSURE**  
CADUTA DI PRESSIONE



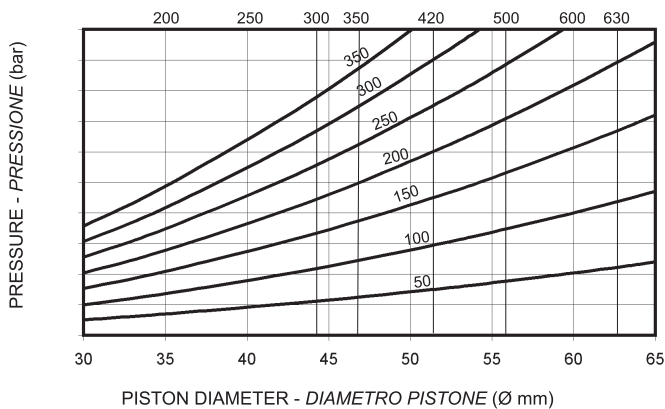
**BEARING LIFETIME**

The graph refers to the motor with the standard bearings. Note that the average lifetime of a bearing (B<sub>50</sub> lifetime) is approximately 5 times the B<sub>10</sub> lifetime.

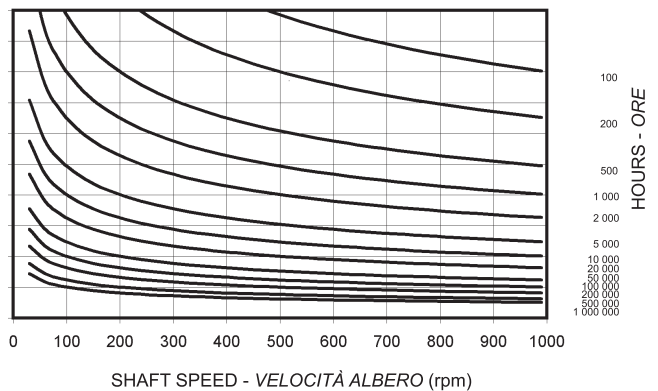
**VITA CUSCINETTI**

Il grafico si riferisce ai motori con i cuscinetti standard. Notare che la vita media di un cuscinetto (vita B<sub>50</sub>) è circa 5 volte superiore alla vita B<sub>10</sub>.

MOTOR DISPLACEMENT - CILINDRATA MOTORE



B<sub>10</sub> LIFETIME - VITA B<sub>10</sub>



## BEARING OPTIONS

Roller bearings (option H) - recommended for most applications. The lifetime is given in the bearing lifetime graph.

Spherical roller bearing - in motor cover - (option GP) - bearing lifetime is 1.74 times the equivalent lifetime of the roller bearings given in the graph.

For longer lifetimes contact our technical department.

## ORDER CODES

GM2 - ① ② ③ ④ + ⑤ ⑥ ; ⑦ ⑧

## MOTOR CODE

1. **Nominal displacement** - see motor spec. table.

2. **Shaft option:**

- 7 = male 40-3-12 DIN 5480 (std)
- 1 = male 36 UNI 220
- 9 = female 40-3-12 DIN 5480
- 3 = female 36 UNI 220
- 2 = tapered keyed
- 8 = cylindrical keyed

3. **Bearings:**

- H = roller bearings
- GP = spherical roller bearing in the motor cover

4. **Other options:**

- U = without shaft seal
- SV = stainless steel shaft sleeve corr. protect. for shaft seal
- A = high pressure shaft seal (5 bar cont., 15 bar peak)
- V = Vyton seals
- I = case press. relief valve 3 bar

**DISTRIBUTOR CODE** see page \*

5. **Distributor:** D40 standard

6. **Tachometer:** K = predisposed for tachometer  
J = with tachometer coupling

## ASSEMBLY CODES

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 10  
no code = position DM1  
DM . , = other position

## OPZIONI CUSCINETTI

Cuscinetti a rulli (opzione H) - consigliati per la maggior parte delle applicazioni. La vita è ricavabile dal grafico riportato.

Cuscinetti a rulli orientabili sul coperchio motore (opzione GP) - la vita dei cuscinetti a rulli orientabili è 1,74 volte l'equivalente vita dei cuscinetti a rulli ricavabile dal grafico.

Per una durata maggiore consultare il Ns. ufficio tecnico

## CODICI D'ORDINE

## CODICE MOTORE

1. **Cilindrata nominale** - vedi tabella cilindrata.

2. **Opzioni albero:**

- 7 = maschio 40-3-12 DIN 5480
- 1 = maschio 36 UNI 220
- 9 = femmina 40-3-12 DIN 5480
- 3 = femmina 36 UNI 220
- 2 = conico con chiavetta
- 8 = cilindrico con chiavetta

3. **Cuscinetti:**

- H = cuscinetti a rulli
- GP = cuscinetto a rulli di botte sul coperchio motore

4. **Altre opzioni:**

- U = senza tenuta albero
- SV = manicotto inox sull'albero protez. anticorros. per tenuta
- A = tenuta albero alta pressione (5 bar cont., 15 bar picco)
- V = Tenute in Vyton
- I = valv. sfiato 3 bar

**CODICE DISTRIBUTORE** vedi pagina \*

5. **Distributore:** D40 standard

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

## CODICI PER L'ASSEMBLAGGIO

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. **Posiz. coperchio distributore:** vedi pag. 10  
nessun codice = posizione DM1  
DM . , = altra posizione