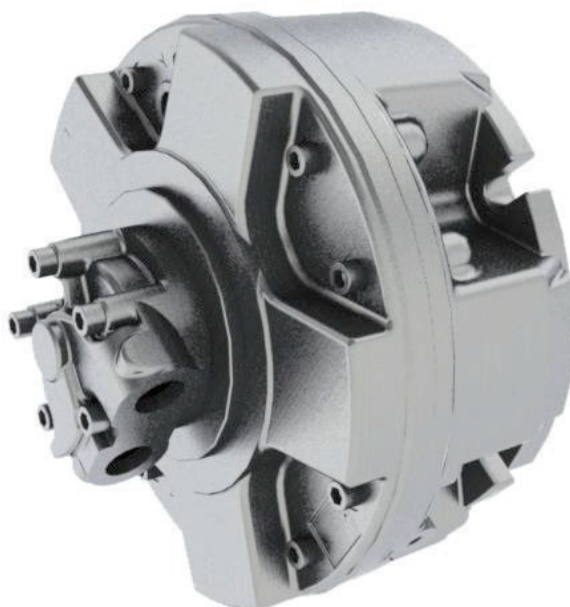


## GM3



PERFORMANCES TABLE  
TABELLA DELLE PERFORMANCE

GM3		350★	425	500	600★	700★	800	900	1000
Displacement / Cilindrata	cm <sup>3</sup> /rev	352	426	486	595	690	792	873	987
Bore / Alesaggio	mm	40	44	47	52	56	60	63	67
Stroke / Corsa	mm	56	56	56	56	56	56	56	56
Specific torque / Coppia spec.	Nm/bar	5,49	6,64	7,58	9,28	10,80	12,40	13,60	15,40
Cont. Pressure / Press. Cont.	bar	250	250	250	250	250	250	250	250
Peak pressure / Press. Picco	bar	450	425	425	400	350	350	350	280
Cont. speed / Velocità Cont.	rpm	525	500	450	450	400	400	350	300
Max. speed / Velocità Max	rpm	700	650	600	575	500	500	400	350
Peak power / Potenza picco	kW	80	80	80	80	80	80	80	80

Approximative mass / Massa approssimativa      kg      86

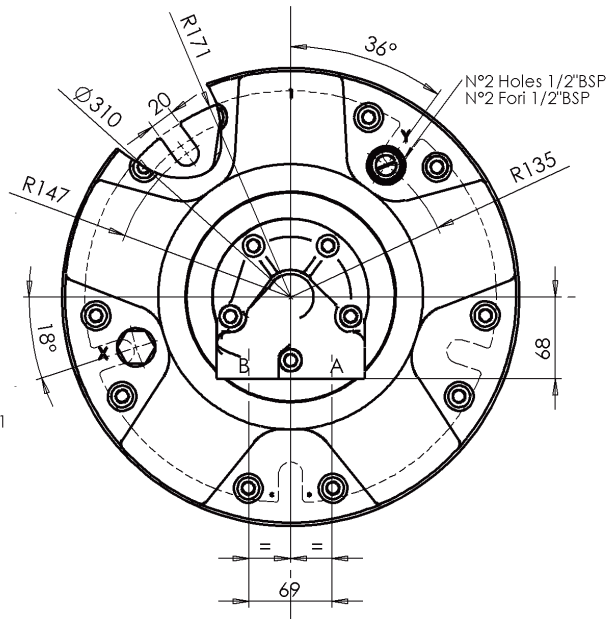
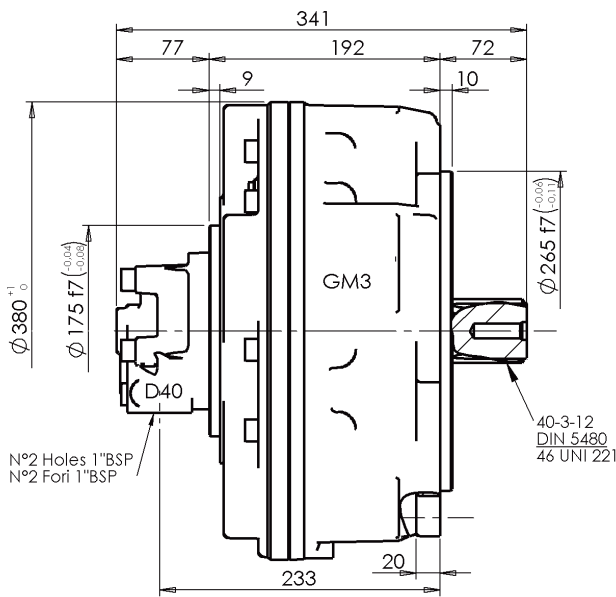
Motor casing oil capacity / Capacità olio corpo motore      l      4,5

Max casing pressure / Pressione max. in carcassa	bar	5	peak picco	La pressione continua o media di lavoro va determinata in funzione della vita del motore (vita dei cuscinetti).
		1	continuous continuo	

★= Preferred motor type / Motore preferito

DIMENSIONS

DIMENSIONI



Available also GM3A completely interch. to M3 till cc. 800 - not available with splined shaft 36 UNI 221

Disponibile anche GM3A completamente intercambiabile con M3 fino a cc. 800 - non disponibile con albero calettato 36 UNI 221

SHAFTS

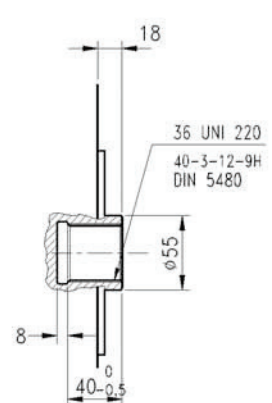
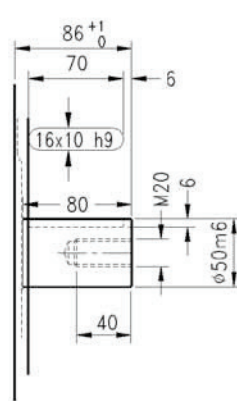
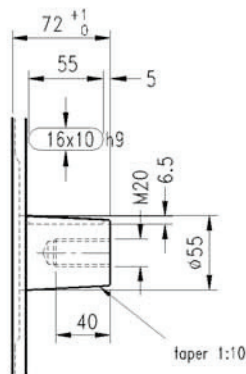
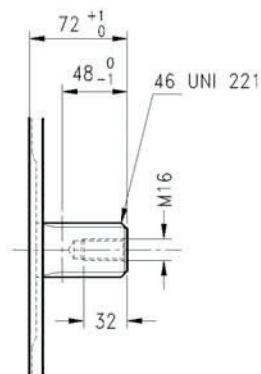
ALBERI

Splined DIN 5480 **7**  
Calettato UNI 221 **1**

Tapered **2**  
Conico

Cylindrical **8**  
Cilindrico

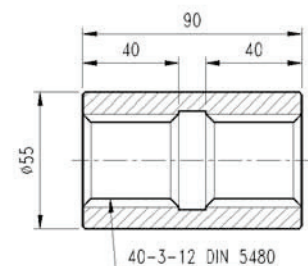
Internal spline DIN 5480 **9**  
Calett. intern. UNI 220 **3**



SPLINE DATA - CALETTATURE

ADAPTORS MANICOTTI

40-3-12 DIN 5480		46 UNI 221 (8-46-54 DIN 5463)	
	<b>d0</b> Ø36.0		<b>d1</b> Ø46.0 <sup>+0.030</sup> / <sub>0</sub> H7
	<b>d1</b> Ø40.0 <sup>+0.620</sup> / <sub>0</sub> H14		<b>d2</b> Ø54.0 <sup>+0.190</sup> / <sub>0</sub> H11
	<b>d2</b> Ø34.0 <sup>+0.160</sup> / <sub>0</sub> H11		<b>A</b> 9.0 <sup>+0.028</sup> / <sub>+0.013</sub> F7
	<b>A</b> Ø5.25		<b>d3</b> Ø46.0 <sup>-0.009</sup> / <sub>-0.025</sub> g6
	<b>da</b> Ø28.964 H11		<b>d4</b> Ø54.0 <sup>-0.100</sup> / <sub>-0.290</sub> d11
	<b>d3</b> Ø39.4 <sup>-0</sup> / <sub>-0.160</sub> h11		<b>B</b> 9.0 <sup>-0.013</sup> / <sub>-0.028</sub> f7
	<b>d4</b> Ø33.4 <sup>-0</sup> / <sub>-0.620</sub> h14		
	<b>B</b> Ø6.0		
	<b>db</b> Ø45.989 f8		

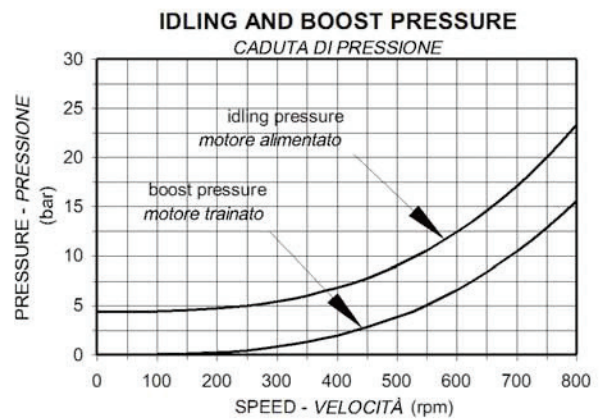
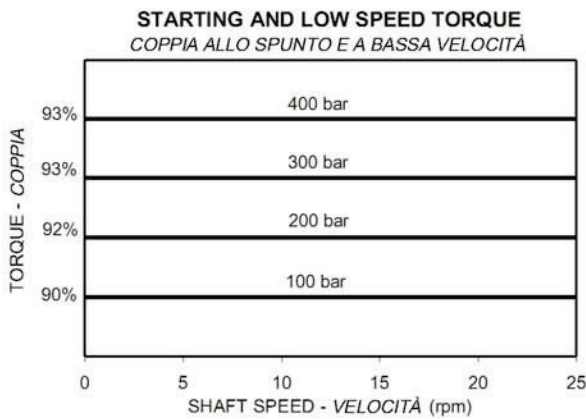
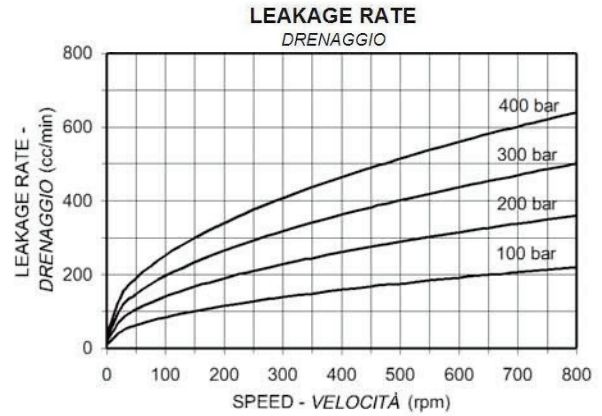
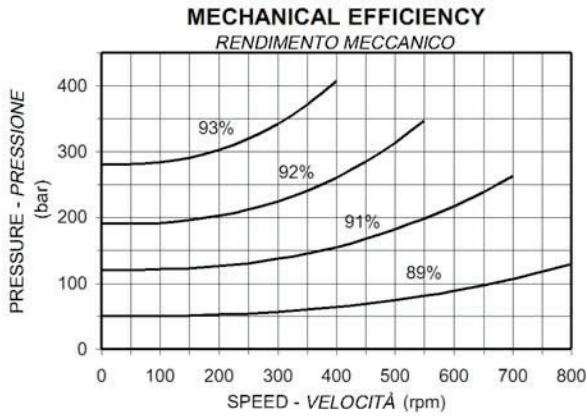


**PERFORMANCE**

The graphs indicate the typical performance characteristics of the 600 cc motor operating with mineral oil with viscosity 40 cSt at 50 °C.

**CARATTERISTICHE**

I grafici si riferiscono alle caratteristiche del motore 600 cc operando con olio minerale avente viscosità 40 cSt a 50 °C.

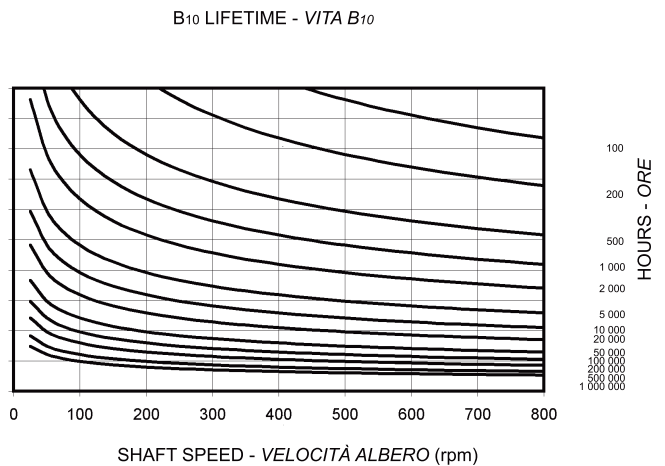
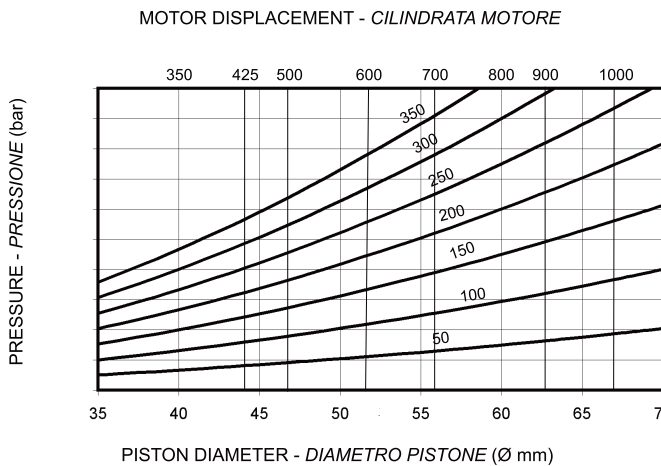


**BEARING LIFETIME**

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>.



**BEARING OPTIONS**

Roller bearings (Standard) - The lifetime of the standard bearings is given in the lifetime graph.

Spherical roller bearing (option GP) - in the motor cover - the lifetime is approximately 5.4 times the equivalent lifetime of the standard bearing.

For longer lifetimes contact our technical department.

**OPZIONI CUSCINETTI**

Cuscinetti a rulli (Standard) - La vita dei cuscinetti standard è ricavabile dal grafico riportato.

Cuscinetto a rulli orientabili (opzione GP) - sul coperchio motore- questi cuscinetti hanno una durata di 5,4 volte l'equivalente vita dei cuscinetti standard.

Per una durata maggiore consultare il Ns. ufficio tecnico

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

GM3 - 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 46 UNI 221
- 9 = female 40-3-12 DIN 5480
- 3 = female 36 UNI 220
- 2 = tapered keyed
- 8 = cylindrical keyed

3. **Bearings:**

- E = 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<sup>10</sup>  
no code = position DM1  
DM . , = other position

**CODICE MOTORE**

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

2. **Opzioni albero:**

- 7 = maschio 40-3-12 DIN 5480
- 1 = maschio 46 UNI 221
- 9 = femmina 40-3-12 DIN 5480
- 3 = femmina 36 UNI 220
- 2 = conico con chiavetta
- 8 = cilindrico con chiavetta

3. **Cuscinetti:**

- E = 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.<sup>10</sup>  
nessun codice = posizione DM1  
DM . , = altra posizione