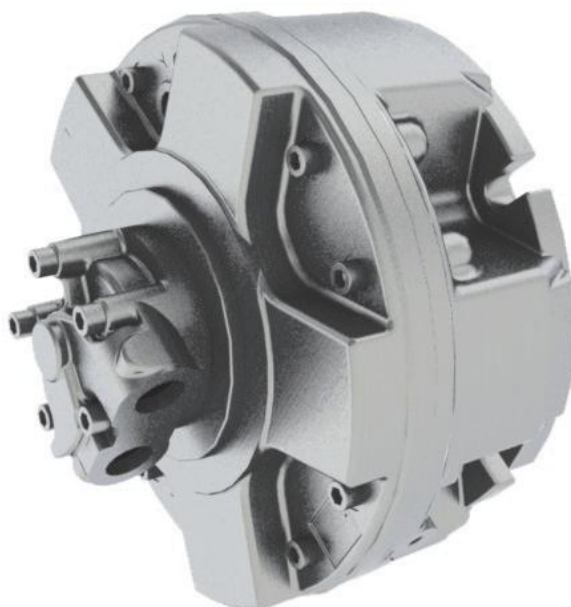


GM3



PERFORMANCES TABLE
TABELLA DELLE PERFORMANCE

GM3		350★	425	500	600★	700★	800	900	1000
Displacement / Cilindrata	cm ³ /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

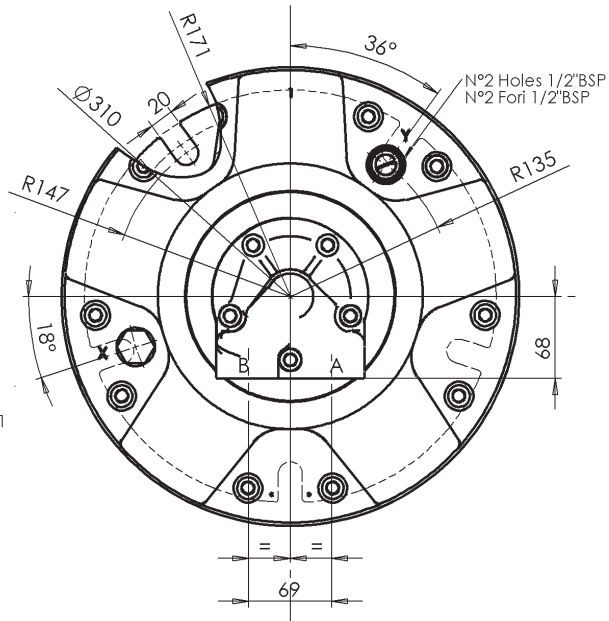
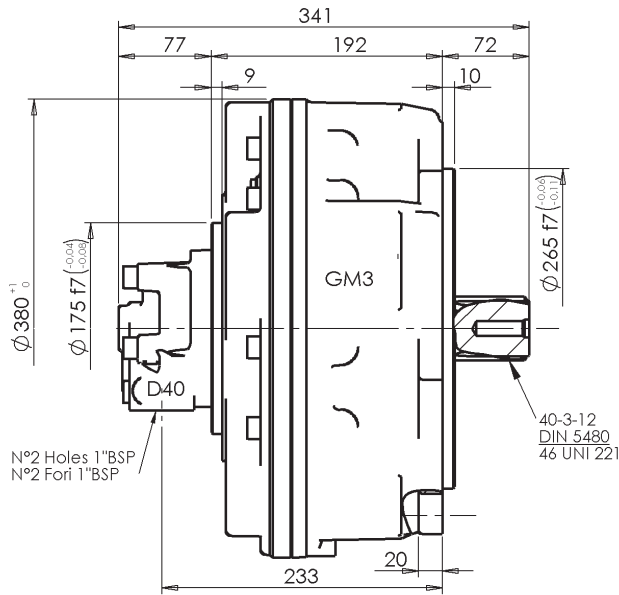
Motor casing oil capacity / Capacità olio corpo motore l 4,5

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

★= 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

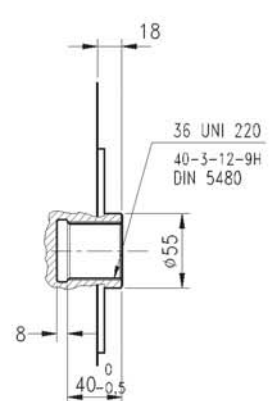
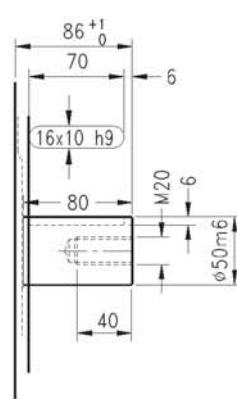
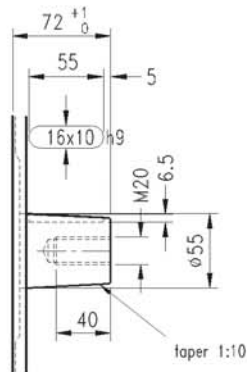
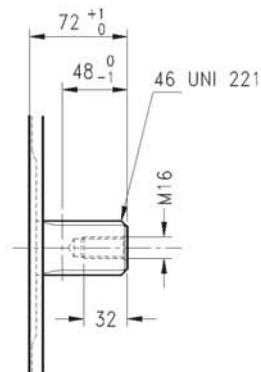
ALBERI

Splined DIN 5480 7
Calettato UNI 221 1

Tapered 2
Conico

Cylindrical 8
Cilindrico

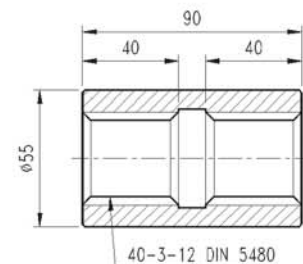
Internal spline DIN 5480 9
Calett. intern. UNI 220 3



SPLINE DATA - CALETTATURE

ADAPTORS MANICOTTI

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

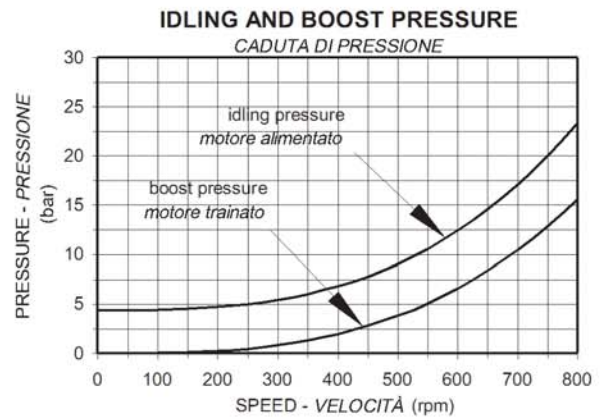
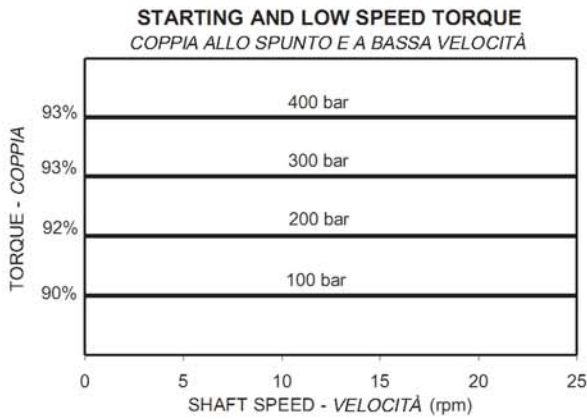
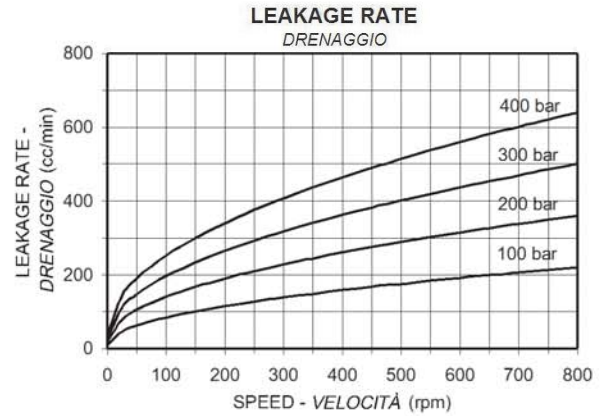
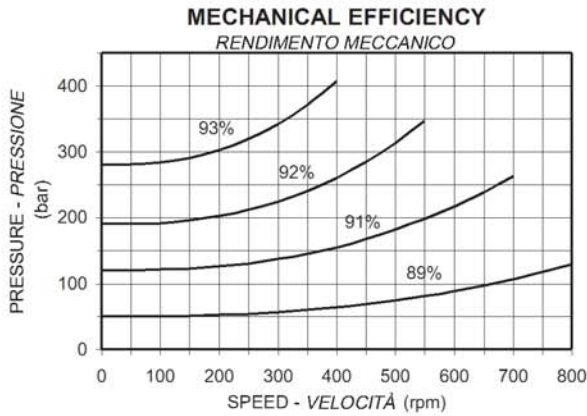


PERFORMANCE

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.

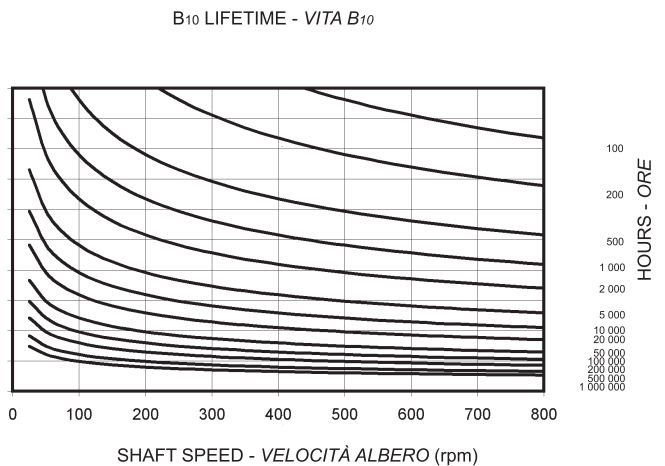
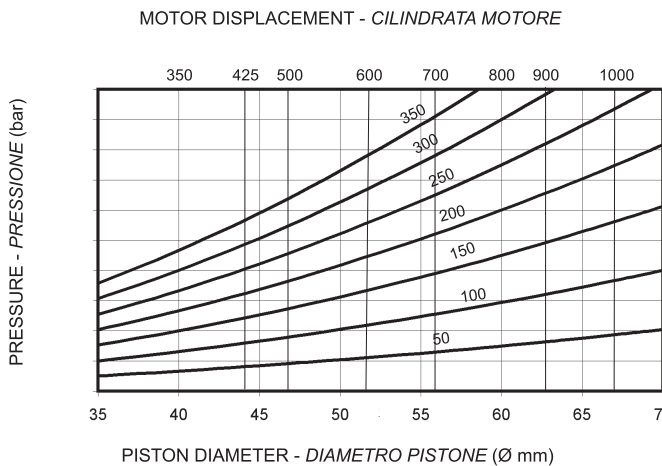


BEARING LIFETIME

The graph refers to the motor with the standard bearings. Note that the average lifetime of a bearing (B₅₀ lifetime) is approximately 5 times the B₁₀ lifetime.

VITA CUSCINETTI

Il grafico si riferisce ai motori con i cuscinetti standard. Notare che la vita media di un cuscinetto (vita B₅₀) è circa 5 volte superiore alla vita B₁₀.



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:**

- no code = 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 page¹⁰

- 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:**

- nessun codice = 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