

			GM4	400	500	600	700	800	900	1000	1100	1250	1300
Displacement	<i>Cilindrata</i>	cm ³ /rev	402	503	616	714	793	904	1022	1116	1247	1316	
Piston Ø	<i>Pistone Ø</i>	mm	42	47	52	56	59	63	67	70	74	76	
Shaft stroke	<i>Corsa albero</i>	mm	58	58	58	58	58	58	58	58	58	58	
Specific torque	<i>Coppia specifica</i>	Nm/bar	6.27	7.85	9.61	10.5	12.4	14.1	16.0	17.4	19.5	20.5	
		lb.ft/psi	0.325	0.407	0.499	0.642	0.76	0.732	0.827	0.903	1.01	1.07	
Pressure rating ¹⁾	<i>Press. nominale¹⁾</i>	bar	250	250	250	250	250	250	250	250	250	250	
Peak pressure	<i>Pressione di picco</i>	bar	450	450	400	400	400	375	350	350	280	280	
Cont. speed ²⁾	<i>Velocità cont.²⁾</i>	rpm	450	425	400	400	350	325	300	275	250	225	
Max. speed ²⁾	<i>Velocità massima²⁾</i>	rpm	600	600	550	550	550	450	400	400	400	350	
Peak power	<i>Potenza di picco</i>	kW	100	100	100	100	100	100	100	100	100	100	
		HP	136	136	136	136	136	136	136	136	136	136	

Approximate weight: 110 kg

Peso approssimativo: 110 kg

Motor casing oil capacity: 6.5 lit
Max. casing pressure: 1 bar continuous
5 bar peak

Capacità olio corpo motore: 6.5 lit
Pressione max. carcassa: 1 bar continuo
5 bar picco

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

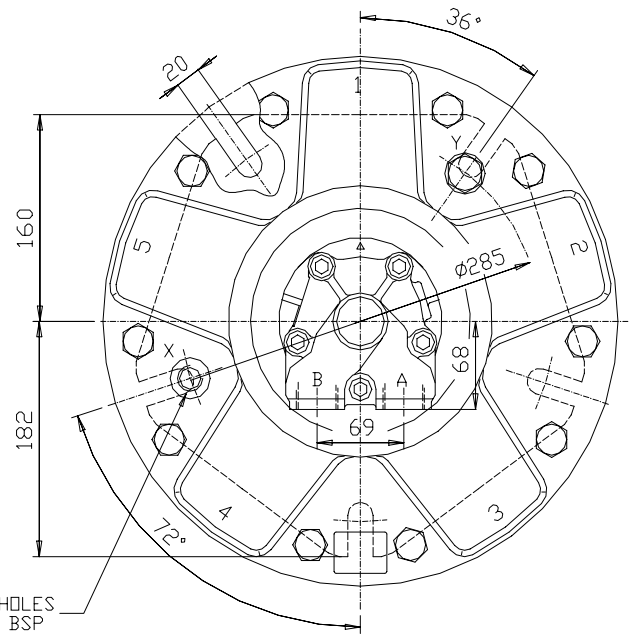
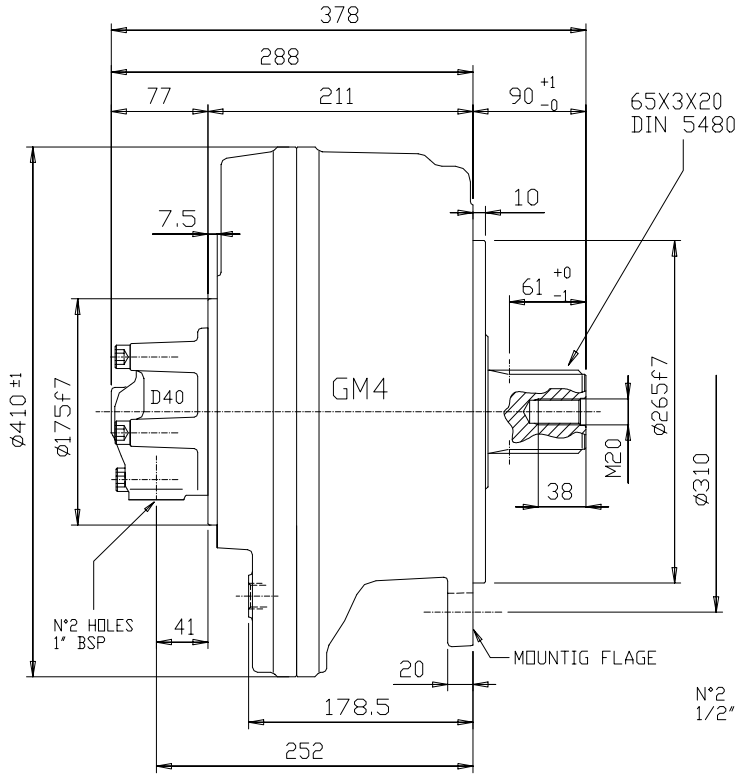
1) La pressione continua o media di lavoro va determinata in funzione della vita dei cuscinetti.

2) Speed limitation with optional low speed distributors: cont. 250 rpm, max 500 rpm (see distributors, page *).

*2) Limite di velocità con distributori a bassa velocità opzionali: cont. 250 rpm, max 500 rpm (vedi distributori, pagina *)*

DIMENSIONS

DIMENSIONI



SHAFTS

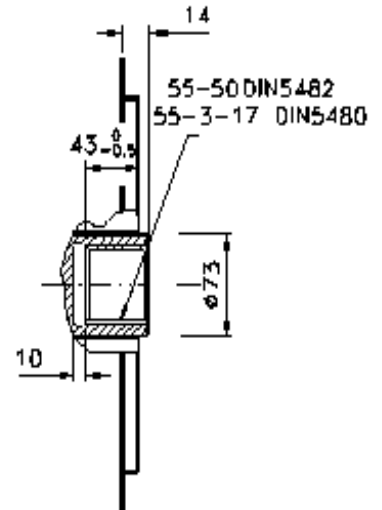
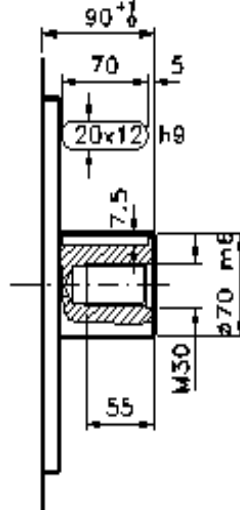
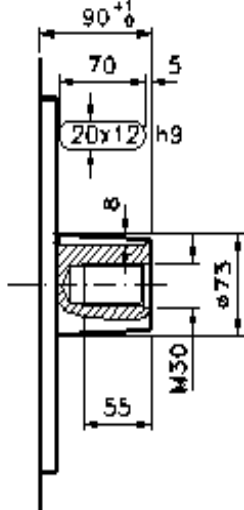
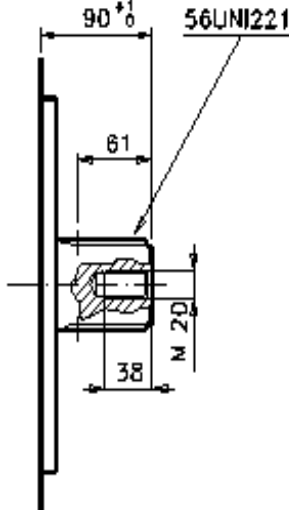
ALBERI

Splined DIN 5480 7
Calettato UNI 221 1

Tapered 2
Conico

Cylindrical 8
Cilindrico

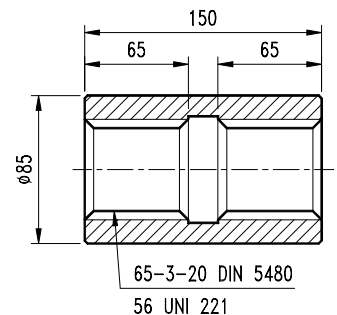
Internal spline DIN 5480 9
Calett. intern. DIN 5482 3



SPLINE DATA - CALETTATURE

DIN	65-3-20 DIN 5480	55-2-26 DIN 5482	55-3-17 DIN 5480	56 UNI 221
	d_0 $\varnothing 60.0$	$\varnothing 52.0$	$\varnothing 51.0$	d_1 $\varnothing 56.0$ $+0.030$ $+0$ H7
	d_1 $\varnothing 65.0$ $+0.740$ $+0$ H14	$\varnothing 55.0$ $+0.300$ $+0$ H12	$\varnothing 55.0$ $+0.740$ $+0$ H14	d_2 $\varnothing 65.0$ $+0.190$ $+0$ H11
	d_2 $\varnothing 59.0$ $+0.190$ $+0$ H11	$\varnothing 50.0$ $+0.160$ $+0$ H11	$\varnothing 49.0$ $+0.160$ $+0$ H11	A 10.0 $+0.028$ $+0.013$ F7
	A $\varnothing 5.25$	$\varnothing 3.5$	$\varnothing 5.25$	d_3 $\varnothing 56.0$ -0.010 -0.029 g6
	d_a $\varnothing 54.101$ H11	$\varnothing 46.902$ H10	$\varnothing 43.807$ H11	d_4 $\varnothing 65.0$ -0.100 -0.190 d11
	d_3 $\varnothing 64.4$ -0 -0.190 h11	$\varnothing 54.5$ -0 -0.190 h11	$\varnothing 54.4$ -0 -0.190 h11	B 10.0 -0.013 -0.028 f7
	d_4 $\varnothing 58.4$ -0 -0.740 h14	$\varnothing 49.0$ -0 -0.300 h12	$\varnothing 48.4$ -0 -0.620 h14	
	B $\varnothing 6.0$	$\varnothing 3.5$	$\varnothing 6.0$	
	d_b $\varnothing 70.999$ f8	$\varnothing 56.953$ e9	$\varnothing 60.873$ f8	
UNI				

ADAPTORS MANICOTTI



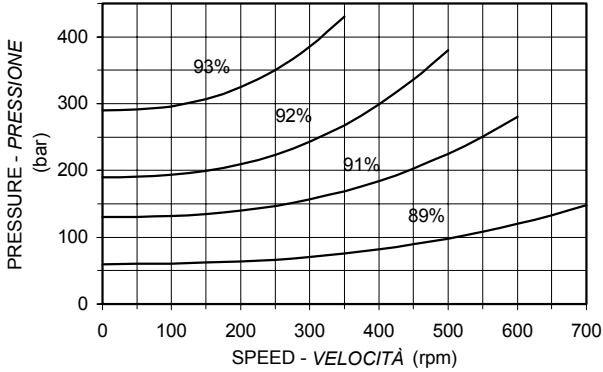
PERFORMANCE

The graphs indicate the typical performance characteristics of the **900 cc** motor operating with mineral oil with viscosity 40 cSt at 50 °C.

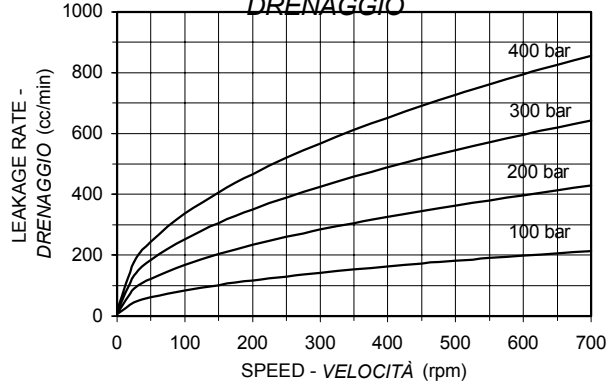
CARATTERISTICHE

I grafici si riferiscono alle caratteristiche del motore **900 cc** operando con olio minerale avente viscosità 40 cSt a 50 °C.

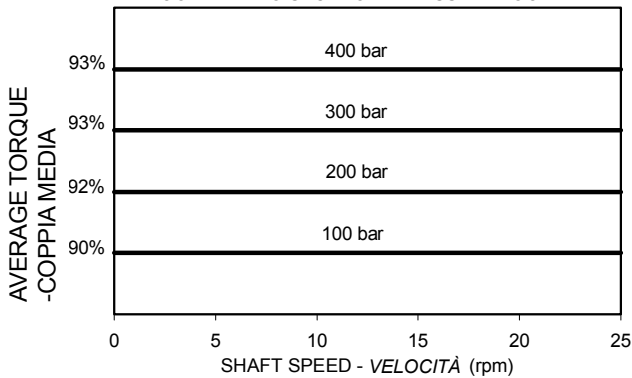
MECHANICAL EFFICIENCY
RENDIMENTO MECCANICO



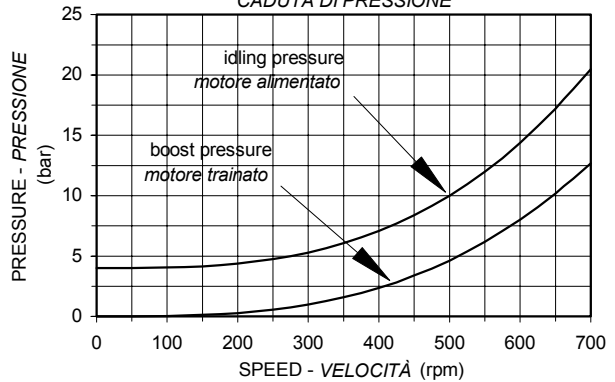
LEAKAGE
DRENAGGIO



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



IDLING AND BOOST PRESSURE
CADUTA DI PRESSIONE



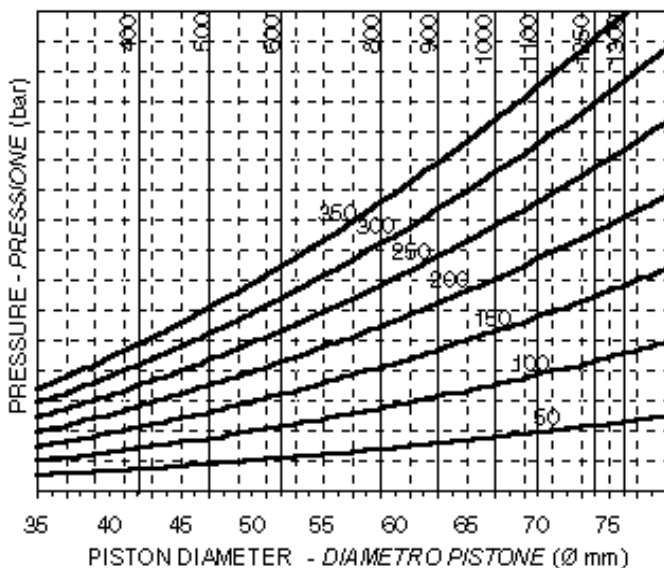
BEARING LIFETIME

The graph refers to the motor with the standard roller bearings. Note that the average lifetime of a bearing (B_{50} lifetime) is approximately 5 times the B_{10} lifetime.

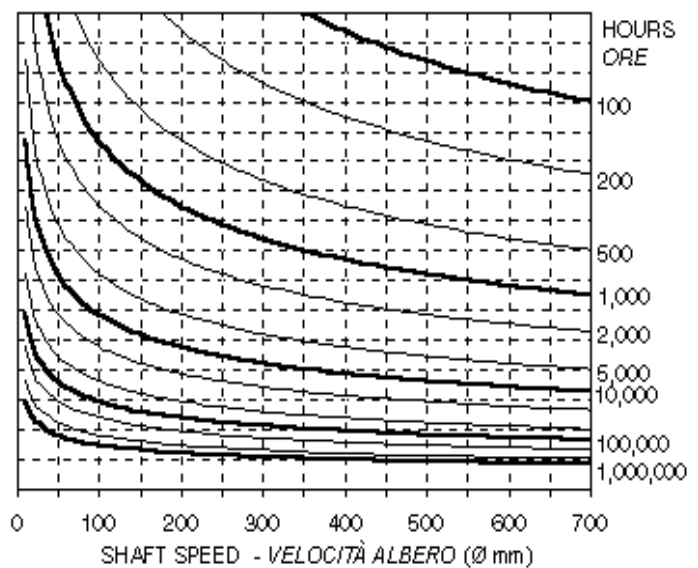
VITA CUSCINETTI

Il grafico si riferisce ai motori con i cuscinetti a rulli standard. Notare che la vita media di un cuscinetto (vita B_{50}) è circa 5 volte superiore alla vita B_{10} .

MOTOR DISPLACEMENT - CILINDRATA MOTORE



B10 LIFETIME - VITA B10



BEARING OPTIONS

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

Spherical roller bearings (option G) - the lifetime is 1.02 times the equivalent lifetime of the roller bearings.

For longer lifetimes contact our technical department.

OPZIONI CUSCINETTI

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

Cuscinetti a rulli orientabili (opzione G) - la vita dei cuscinetti a rulli orientabili è 1,02 volte l'equivalente vita dei cuscinetti a rulli.

Per una durata maggiore consultare il Ns. ufficio tecnico

ORDER CODES

CODICI D'ORDINE

GM4 - ① ② ③ ④ + ⑤ ⑥ ; ⑦ ⑧

MOTOR CODE

1. Nominal displacement - see motor spec. table.

2. Shaft option:

- 7 = male 65-3-20 DIN 5480
- 1 = male 56 UNI 221
- 9 = female 55-3-17 DIN 5480
- 3 = female A 55-50 DIN 5482
- 2 = tapered keyed
- 8 = cylindrical keyed

3. Bearings:

- no code = roller bearings
- G = spherical roller bearings

4. Other options:

- U = without shaft seal
- SV = stainless steel shaft sleeve
corr. protect. for shaft seal
- V = Vytan 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 8

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

CODICE MOTORE

1. Cilindrata nominale - vedi tabella cilindrate.

2. Opzioni albero:

- 7 = maschio 65-3-20 DIN 5480
- 1 = maschio 56 UNI 221
- 9 = femmina 55-3-17 DIN 5480
- 3 = femmina A 55-50 DIN 5482
- 2 = conico con chiavetta
- 8 = cilindrico con chiavetta

3. Cuscinetti:

- nessun codice = cuscinetti a rulli
- G = cuscinetti a rulli di botte

4. Altre opzioni:

- U = senza tenuta albero
- SV = manicotto inox sull'albero
protez. anticorros. per tenuta
- V = Tenute in Vytan
- 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. 8

- nessun codice = posizione DM1
- DM . , = altra posizione