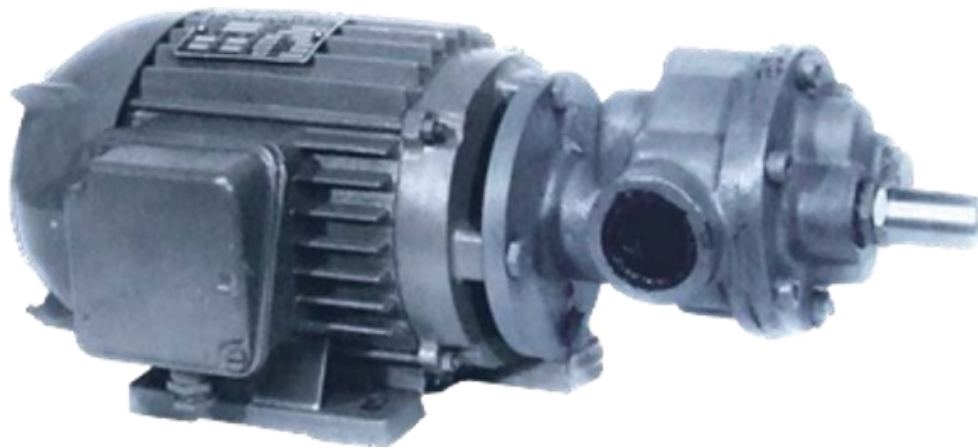


BROCHURE G SERIES

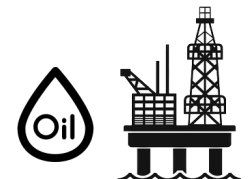
BIRAGHI POMPE 1906



- ITALIAN QUALITY
- SINCE 1906

Close Coupled Gear Electric Pumps

2024



G SERIES—BIRAGHI POMPE 1906

G PROCESS PUMP

The gear pumps are mainly fitted to convey viscous liquids, provided they are clean and lubricating enough.

The pump is directly cantilevered coupled to an electric motor, usually an induction three-phase motor with squirrel-cage rotor, enclosed external-ly fan-cooled, UNELMEC, form 133/135. It is also possible to supply, upon request, single-phase motors up to 0.5 HP, with a permanently inserted condenser.

Rectified gear teeth with helical corrected contour allow a noiseless running.

The driving gear is directly splined to the motor shaft projection, while the driven gear is supported on both sides in the pump casing. The seal is mechanical of long life and high- quality.

Nozzies are threaded, in-line.

The pump could be provided, upon request, of overpressure by- pass, which can be built-in the cover.

The pump is reversible when not provided of a by-pass device.

SPEED:

900:1400 RPM up to 1700 RPM for less viscous liquids (max 7:8 deg.E).

MATERIALS:

in the standard execution casing is in cast iron, gears are in case-hardened and hardened steel 18NCD5 and shaft is in highly resistant, rectified and hardened steel. Other executions foresee acid-resistant bronze or stainless steel AISI 316, according to the particular nature of the conveyed liquid.

CARATTERISTICHE PER OLIO A 30 °C
(peso specifico = 0,9 kg/l - viscosità = 7→8 °E)
Q = Portata in litri all'ora (la portata varia a seconda della viscosità del liquido pompato).
H = Prevalenza totale in m di colonna di fluido.
n = Velocità in giri al minuto primo.
P = Potenza del motore di comando.
Tolleranza: 5% circa.

CHARACTERISTICS FOR OIL AT 30 DEG. C
(specific gravity = 0,9 kg/l - viscosity = 7→8 deg. E)
Q = Capacity in l/hr (it varies according to viscosity of the conveyed liquid).
H = Total head in meter of fluid column.
n = Speed in R.P.M.
P = Installed power of the drive motor.
Tolerance range: about 5%.

MODELLO MODEL	n	Q	H	P	n	Q	H	P	Bocche Ports
G 1 M	1360	300	50	0,35	900	200	50	0,25	1/2"
G 2 M	1360	600	50	0,50	900	400	50	0,35	1/2"
G 3 M	1380	1000	50	0,75	900	650	50	0,50	3/4"
G 4 M	1380	1500	50	1	900	1000	50	0,75	3/4"
G 5 M	1400	2000	50	1,5	930	1300	50	1	1"
G 6 M	1400	3000	50	2	930	2000	50	1,5	1"
G 7 M	1400	3600	50	2	930	2400	50	1,5	1" 1/4

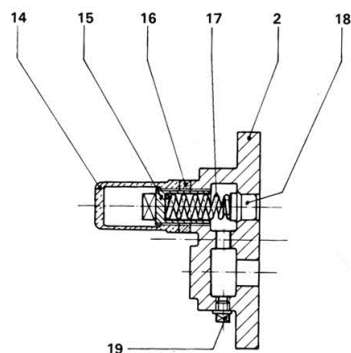
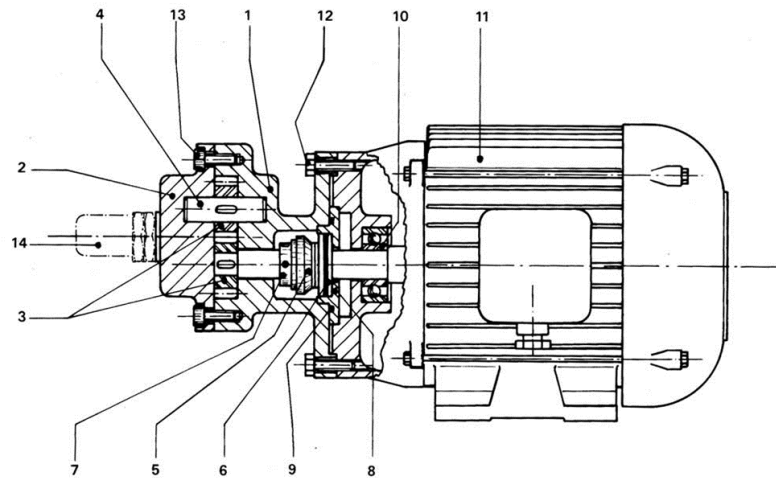
G SERIES—BIRAGHI POMPE 1906

**elettropompe
monoblocco
ad ingranaggi**

G

**electric
monoblock
gear pumps**

Sezioni - Sections



Particolare by-pass
by-pass detail

NOMENCLATURA

- 1 - Corpo pompa
- 2 - Coperchio
- 3 - Ingranaggi
- 4 - Albero secondario
- 5 - Tenuta meccanica
- 6 - Controfaccia tenuta
- 7 - Ghiera
- 8 - Coperchietto tenuta
- 9 - Guarnizione
- 10 - Cuscinetto a sfere
- 11 - Motore elettrico
- 12 - Vite t.e.
- 13 - Vite e.i.
- 14 - Cappello by-pass
- 15 - Bussola » »
- 16 - Controdado » »
- 17 - Molla » »
- 18 - Fungo » »
- 19 - Tappo » »

NOMENCLATURE

- pump casing
- cover
- gears
- driven shaft
- mechanical seal
- seal matching surface
- ring nut
- seal unit cover
- gasket
- ball bearing
- electric motor
- hexagonal-head screw
- socket screw
- by-pass cover
- by-pass bush
- by-pass lock nut
- by-pass spring
- by-pass head
- by-pass plug

Coverage Chart and Operating data:

Capacity	to 3600 m ³ /hr
Head	to 50 m
Max working pressure	to 5 bar
Temperature	to 105 C°

APPLICATION:

To convey gas oil, fuel oil, lubricating, diathermic and quenching oils, in special executions these pumps can convey also corrosive liquids and other food fluid as syrup, liquors etc.

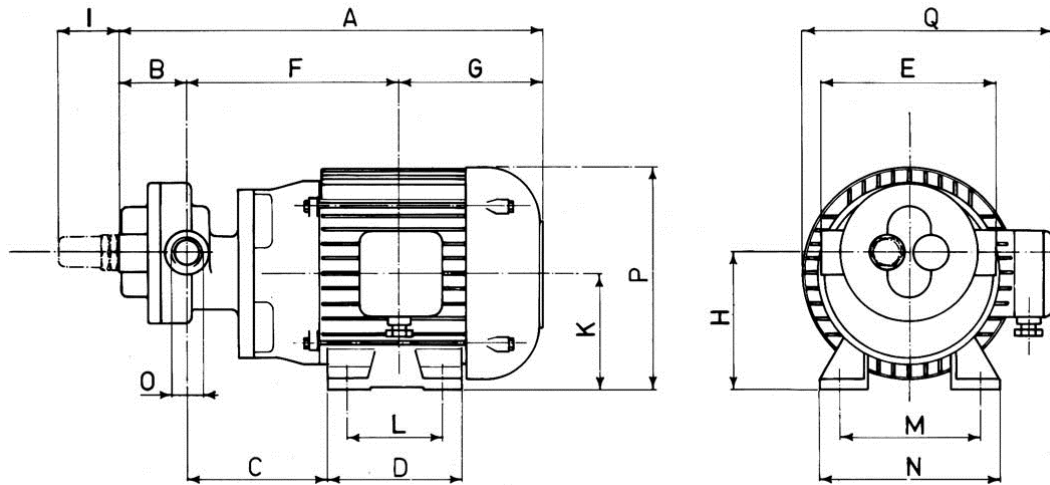
REVOLUTION DIRECTION:

clock wise direction, looking from driving end.

***Service limits:** capacity from 200 up to 3600 l/hr; head up to 50 met (and even more in special circumstances); suction height up to 6:7 met of water column; static pressure up to 5 bar; service temperature up to 105 deg C; liquid viscosity up to 20 deg. E at 1400 RPM and up to 60 deg. E at 900 RPM.

G SERIES—BIRAGHI POMPE 1906

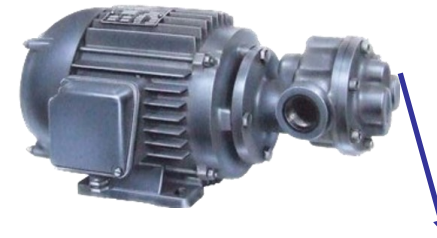
OVERALL SIZES



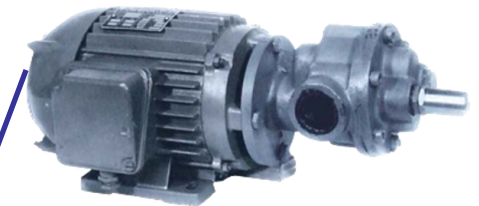
modello model	motore motor CV	Dimensioni in mm (non impegnative) - Sizes in mm (approximately)																Peso weight ca. Kg.
		A	B	C	D	E	F	G	H	K	I	L	M	N	O	P	Q	
G 1 M	0,35	306	48	96,5	115	116	153	105	85	72	48	90	110	133	1/2"	150	200	9
G 2 M	0,50	320	58	99,5	115	120	157	105	85	72	48	90	110	133	1/2"	150	200	10
G 3 M	0,75	364	67	107,5	125	120	170	127	95	80	48	100	122	155	3/4"	165	210	12
G 4 M	1	373	76	107,5	125	120	170	127	95	80	48	100	122	155	3/4"	165	210	15
G 5 M	1,5	401	85	123	130	140	188	128	110	90	48	100	140	170	1"	190	240	18
G 6 M	2	427	85	110	155	140	188	154	112	90	48	125	140	170	1"	190	240	20
G 7 M	2	427	85	110	155	140	188	154	112	90	48	125	140	170	1"	190	240	20

N. 202/1
6 - 1988

BIGGER PUMPS IN LONG COUPLED EXECUTION
COULD BE BIDDED AND SUPPLIED UPON REQUEST.



Electro pump model G1M



Electro pump model G1M

- ⇒ BRA – pump casing in acid resistant bronze BPB 4 UNI 1698, shafts and gears in stainless steel 15C13, mechanical seal in VITON rubber, ceramic and graphite.
- ⇒ X – all parts contacting the liquid in stainless steel AISI 316, mechanical seal in VITON rubber, ceramic and graphite.

Biraghi Pompe 1906 Plants



NIGERIA



UAE



ITALY



Biraghi
POMPE1906

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