Volumetric Dispensers for talcum and
any other powdery product.

VOLUMETRIC DISPENSERS

DOSIFICADORES® *garcía fernández*

Catalogue.
Main Technical Specifications
and Equipment





CT-16/360
MAIN TECHNICAL SPECIFICATIONS

System of continuous dosage
Main supply line: (III ~) 220/440 V. 50/60 Hz
Nominal power: 0,5 Kw (0,68 C.V.)
Nominal Amperes: 2,8 A/220 V. 1,75 A/440 V.
Hopper's capacity in litres: 300

Total weight in Kg total of the machine in idle: 135
Transport distance: 5,5 m
Transport height: 4 m
Precision: 95 ± 5 %
Ratio: Above 90/1

MAIN STANDARD EQUIPMENT

Mechanical Safety Equipment
Hopper lid prevention against entry foreign objects
Hopper grille against entry undesirable objects
Electronically controlled self-cleaning system
Electric Safety Elements
Electric components protected with grounded
Short-circuit protection in all lines
Engines overload protection
Low voltage manoeuvring and marking: 24 V.
Drive elements
stop-enclavamiento-marcha (stop-locking-run selector)
Regulation and marking elements
Dosage of product (Programming of 1 by 1 Kg/h)
Product density (Programming of 0,01 by 0,01 Kg/l)
Signalling electronic circuit testing
Signalling of system failure automatic anti-sticking
Signalling engines running
Signalling overload engines

Support Structure Elements
Hopper with grille and self-cleaning system. Strong and light
Four light legs, with great stability. Facilitate the handling of the machine.
Two-door electrical cabinet with lock and key
Special technical plastic conveyor tube for feeding, length 6 metres
Materials and Finishes
Steel. Anticorrosion treatment: Degreasing, phosphate covering, drying and finally painting with oven-drying. Colours grey RAL 7035 combined with blue RAL 5012 or green RAL 6011. A long-lasting resistance is obtained, with the machine always maintaining a new appearance
Mechanical elements made of technical plastics, special aluminium and stainless steels
Certification, Regulation and Guarantee
Each machine is accompanied by European Certificate (E.C.) manufacturer's approval certificate where directives in industrial application guidelines for application and harmonized regulation for compliance. All of the elements are guaranteed, of the highest quality, and meet all the legal requirements in force

UNIT DOSING MACHINE CT-16/360
RECOGNIZED LEADERSHIP



More than 2.000 machines installed around the word
Since 1.983 designing, manufacturing and offering service





The CT-16/360 volumetric dispenser is a machine capable of carrying out 2 jobs: The dosage of any powder product and the its transport to the receiving machine.

Unit dosing installed in olive oil production factory. The product adding point is made, in this case in the first body of mixing.



Machine with strong self-supporting structure. Maintenance-free. Adapts to any installation and is prepared to meet the greatest demands and work condition requirements.

Four dispensers installed in olive oil production factory: Occupying a minimal space, adapting to any need.



All required features to guarantee customer satisfaction. The starting up is carried out by specialized technicians.

Unit dosing machine installed in water treatment plant. The dosage, in this case, is in very small amounts.

OWNER CHARACTER



As many machines will be necessary as products that must be dosed simultaneously at each installation, receiving machines. Occupy little space.

Three talcum dispensers feeding three mass containers which in turn are connected to a pumping station. Feeding of pumping stations with empty hopper sensor.



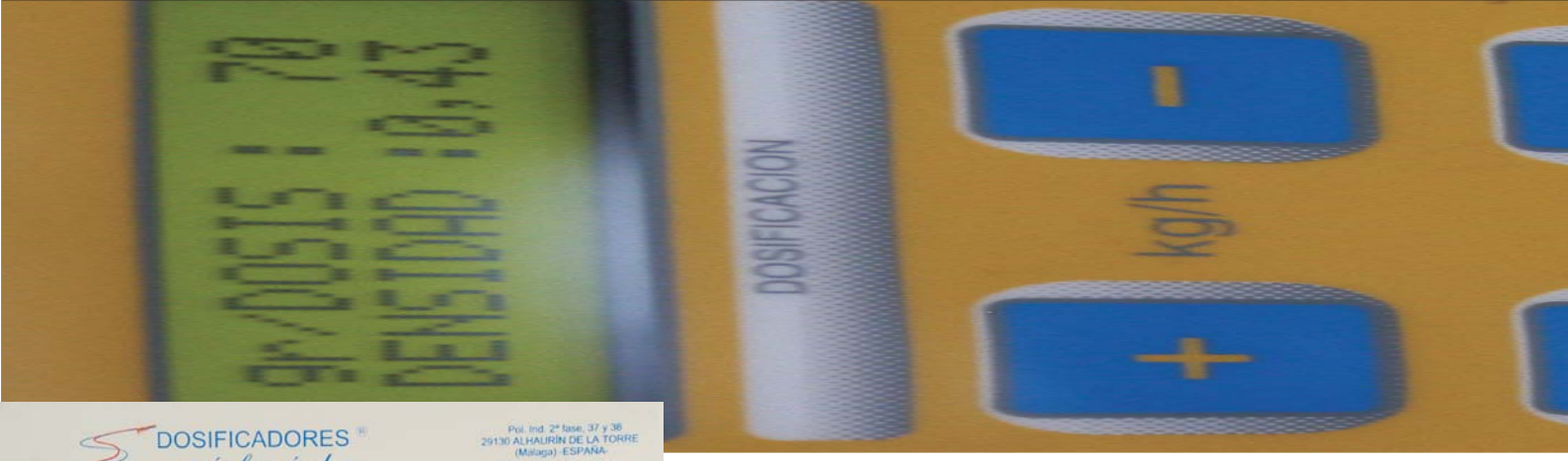
At the end of the conveyor tube the product dose is added continuously and homogeneously in Kg/hour. The mixture is perfect.

Dosage: It is fundamental that the product dosed with the receiving mass mix perfectly. In this case talcum is added in the second body of a mixer.



The flexibility of the conveyor tube makes possible start up impossible to make with other machinery concepts.

Installation made at the start of the second body of an olive paste mixer. Possibility of start up on any type and model of mixer or receiving machine.





ELECTRIC SWITCHBOARD. Quick and easy handling.

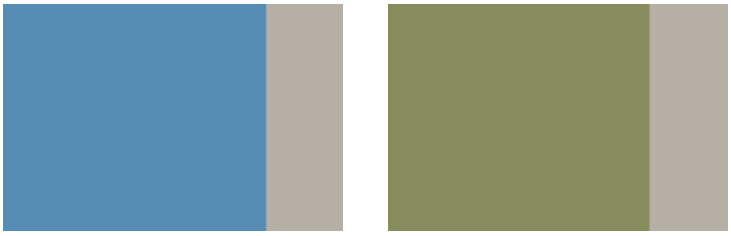
Operation, control, signalling and programming.
Operational mode selector:

- STOP, machine stopped.
- RUN, machine in continuous operation.
- LOCKING, machine in automatic operation, interlocked with another machine (for example a mill).

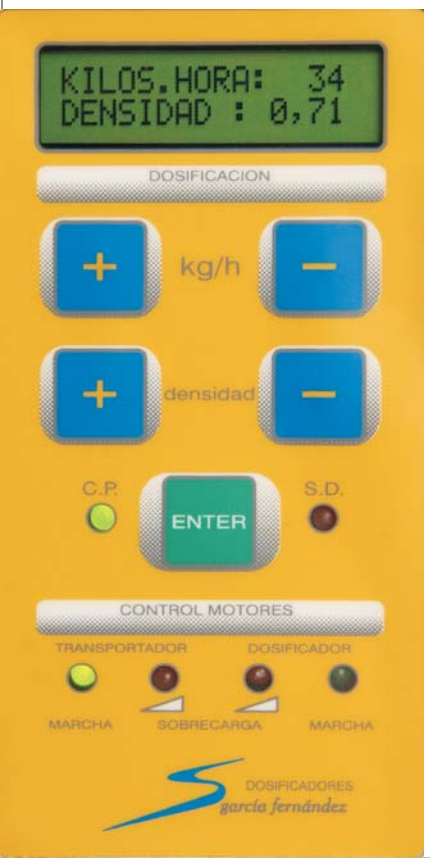
Manoeuvring in low voltage for safety: 24 V.

Lock under key for safety.

Colours of finish



Blue RAL 5012 Grey RAL 7035 Green RAL 6011 Grey RAL 7035



ACCOURACY: Programming keyboard, signalling and control.

We select the dosages necessary (standard in Kg/h) on the keyboard ("+" and "-"). We select the specific density of the product to be dosed ("+" y "-").
We then press "ENTER" and the programming is confirmed.

On the LCD screen we can view the dosages selected at all times. Likewise, the total number of work hours and the type of electronic board installed are viewed.

Continuous checking of correct operation of the electronic equipment.

Continuous checking of correct operation of the self-cleaning system.

Signalling of engine control: Correct operation and overload of each of them.



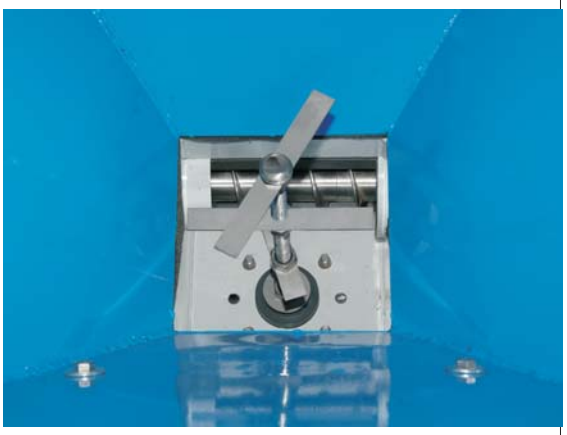
THE BEST TECHNOLOGY

CT-16/360

MAIN OPTIONAL EQUIPMENT

Complete machine built of stainless steel for handing of corrosive products
Regulation of dosage in gr/h for very small doses
Regulation of dosage in Kg/pulse (onorder the programmed amount is added).Connected to a PC or any machine which orders each dose
Regulation of the dosage in gr/pulse: same as the latter but with very small doses
Mechanical stirrer at botton of Hopper built of stainless steel for handing of very small doses
Hoppers of up to 2,000 litres capacity for special uses
Hopper accessory for big-bag
Conveyor tube of up to 18 metres in length
Conveyor tube of larger diameter for handling of certain products
Optional height of transport of up to 6 metres with special mechanical device and optional metres of tube
Sensor and alarm indicating empty hopper and/or minimum product level

Mechanical stirrer at bottom of hopper



CT-16/360 EXPORT
Dispenser CT-16/360 special for export
Each export machine is accompanied by spare parts kit for correct trouble-free conservation for many years
Wooden box packaging. Special for air/land/sea freight. With certificates of fumigation, packing cleanliness and origin
Total weight in kilograms of packed machine: 230
Dimensions in millimetres of packaging: 1.440 x 1.300 x 530

TABLE OF DENSITIES AND PRODUCTIONS OF THE STANDARD MACHINE
(The table is summarized; there are 140 more possibilities of regulation because the density is variable 0.01 by 0.01 Kg/l)

Density (Kg/litre)	Minimum Production (Kg/hour)	Maximum Production (Kg/hour)	Density (Kg/litre)	Minimum Production (Kg/hour)	Maximum Production (Kg/hour)	Density (Kg/litre)	Minimum Production (Kg/hour)	Maximum Production (Kg/hour)
0,25	1	94	0,85	6	321	1,45	9	547
0,30	2	113	0,90	6	340	1,50	9	566
0,35	2	132	0,95	6	359	1,55	10	585
0,40	2	151	1,00	6	377	1,60	10	604
0,45	3	170	1,05	7	396	1,65	10	623
0,50	3	189	1,10	7	415	1,70	11	642
0,55	3	208	1,15	7	434	1,75	11	660
0,60	4	226	1,20	8	453	1,80	11	679
0,65	4	245	1,25	8	472	1,85	12	698
0,70	4	264	1,30	8	491	1,90	12	717
0,75	5	283	1,35	8	510	1,95	12	736
0,80	5	302	1,40	9	529	2,00	13	755

OPTIONALLY, OTHER LARGER OR SMALLER PRODUCTIONS ARE OBTAINED





DP 5/40
MAIN TECHNICAL SPECIFICATIONS

Pulse dosage system
Main supply line: 220 V. (I) 50 / 60 Hz
Nominal power: 0,18 Kw (0,24 C.V.)
Nominal Amperes: 0,16 A.
Total weight in Kg of the machine when empty: 39
Hopper capacity in litres: 37
Accuracy: 95 ± 5 %
Ratio: Above 60/1

MAIN STANDARD EQUIPMENT

Mechanical Safety Elements
Hopper lid protects against entry of foreign objects
Hopper grille protects against entry of unwanted elements
Electronically controlled self-cleaning system
Electric Safety Elements
Electric components protected with grounded
Protection against short circuiting on all lines
Engine overload protection
Low voltage operation and marking: 24 V.
Activation Elements
Stop-enclavamiento-marcha (stop-locking-run) selector
Regulation and Signalling Elements
Dosage of product (Programming of 0.1 by 0.1 Kg/h)
Product density (Programming of 0.01 by 0.01 Kg/l)
Signalling electronic circuit testing
Signalling engine running
Signalling overload engine
Support Structure Elements
Hopper with grille
Telescopic post, height adjustable from 1,230-1,830 mm.
High stability support bracket with wheels and brakes
Lockable electric switchboard
Conveyor tube in special technical plastic for foodstuffs, 90 cm long (other lengths optional)
Materials and Finishes
Stainless steel. High resistance to any corrosive product in all parts and components of the machine. Other components made of technical plastic and special aluminium
Certification, Standards and Guarantee
Each machine is accompanied by European Certificate (E.C.) manufacturer's approval certificate where directives in industrial application guidelines for application and harmonized regulation for compliance. All of the elements are guaranteed, of the highest quality, and meet all the legal requirements in force

The DP 5/40 dispenser is the standard type parent of an entire family of small dispensers that come as standard or can be tailored.

Although in principle it was designed as a machine by pulse dosage, on request and due to the many possible applications, this machine can be manufactured with continuous and packaging dosages.

Wide range of dosages for a multitude of different additives and agents in all kinds of industries and manufacturing processes.

A portable machine, easy to move around with its wheels and its low weight. Very reasonably priced.

Dosage directly to the recipient machine with adjustable height thanks to its telescopic post.

The machine requires no installation by our technical service.

The customer receives it packaged in a s for assembly. It can quickly be started up and put into operation in any factory.

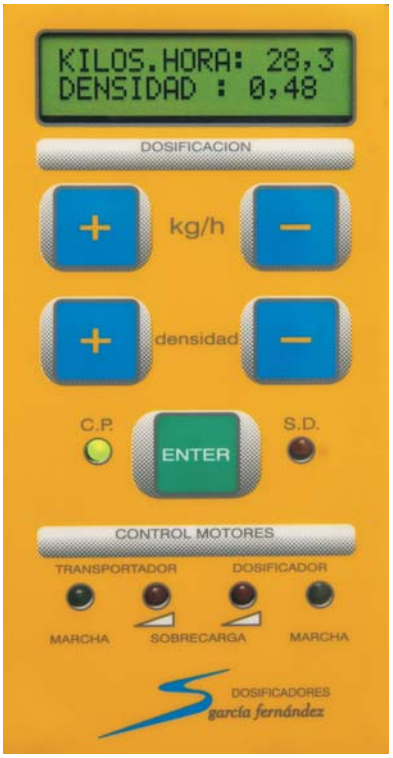
MAIN OPTIONAL EQUIPMENT

Wide range of possibilities: Dosage in Kg/h, gr/h, Kg/pulse or gr/pulse in pulse mode, continuous (Ratio: 10/1) or packing mode
Conveyor tube in lengths to be studied according to product
Conveyor tube with bigger diameter for handling certain products
Sensor and alarm indicating empty hopper and/or minimum product level

DP DISPENSERS FAMILY: SMALL MACHINES, WITH BIG POSSIBILITIES



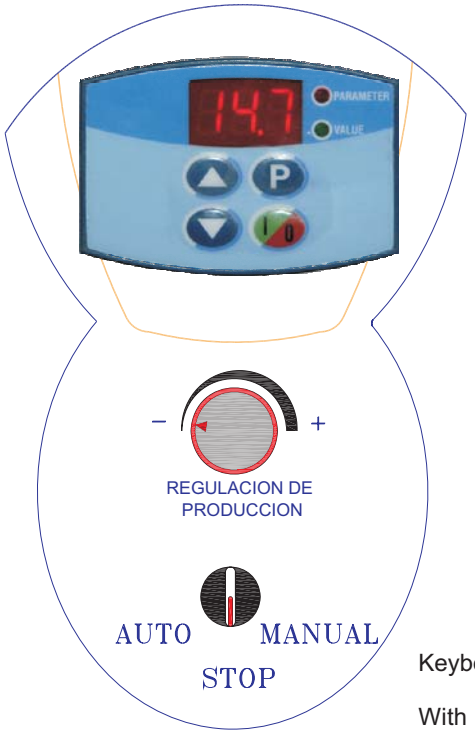
Manufacturer´s Certificate of Conformity in compliance with the directives and harmonized standards that apply.



Two possible types of programming keyboards, depending of apply specifications.

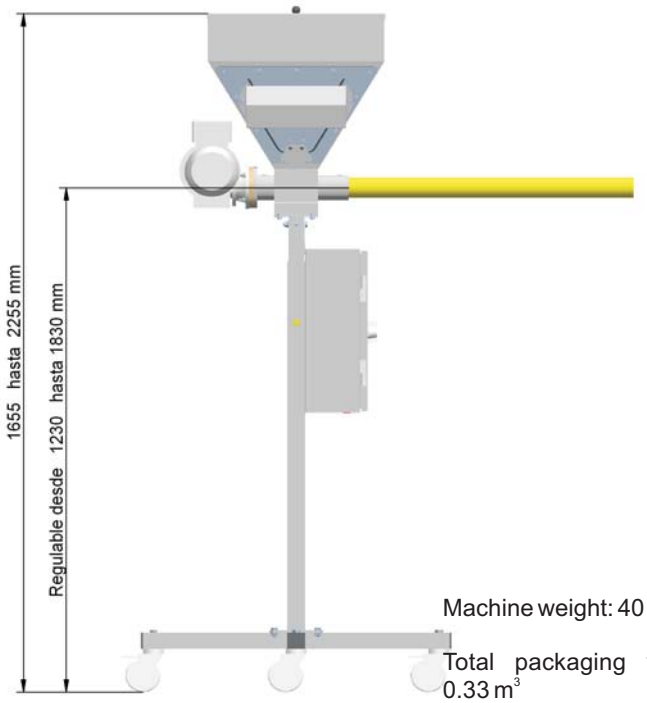
Keyboard type 1

Manufactured with owner technology and DGF micro process.



Keyboard Type 2

With electronic variable speed.



Machine weight: 40 Kg

Total packaging volume: 0.33 m^3

Weight of machine plus wooden packaging: 62 Kg aproximately

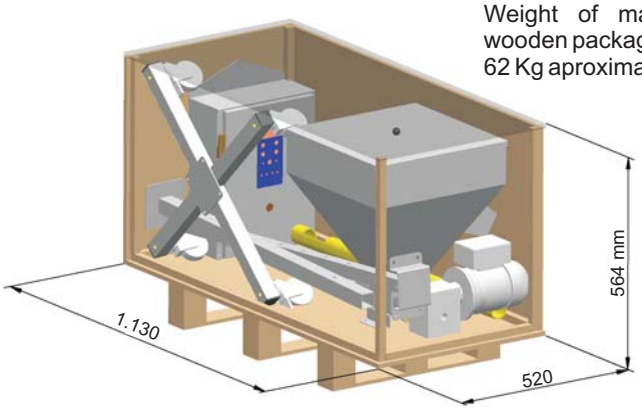


TABLE OF DENSITIES AND PRODUCTION LEVELS OF DP 5/40 STANDARD MACHINE (Densities and production levels most frequently used) (This table is a summary. There are 176 possible adjustments because the density can be adjusted by 0.01 in 0.01)		
Production between 1 and 61 Kg/hr. Minimum range 0.1 Kg		
Density corrector between 0.25 and 2 Kg/l. Minimum range 0.01 Kg/l. E.g.: 0.25-0.26-0.27....1.98-1.99-2 Kg/l		
Density (Kg/litre)	Minimum Production (Kg/hour)	Maximum production (Kg/hour)
0,40	1,6	28
0,45	1,8	31,2
0,50	2	35
0,55	2,2	38,5
0,60	2,4	42
0,65	2,6	45,5
0,70	2,8	49
0,75	3	52,5
Maximum production 61 Kg/h from density of 0.90 Kg/l Optionally, with other designs (non- standard), different production levels are obtained		





The volumetric dispenser CT-16/360 adapts to the type of work and dosage required with its optional equipment. In order to do this, we carefully study each installation and its application so that finally everything is done “to order”.

Unit dosing machine installed in plant for purification and treatment of waste water. Installation in work without the protective building that must cover all of the machinery. In this specific case the dosage is “to order” (in gr/pulse) of chemical products.



The dispensers of the DP family with their small size, adapt to many applications in the pharmaceutical industry, in laboratories of analysis and control, sectors of paint manufacturing, chemical products, ceramic derivatives, a multitude of tinned food and other food industries, paper factories, etc.

Dispenser set up by the customer upon table with wheels in laboratory. Built in stainless steel.

Carrying out dosage for packing of different chemical products simply by programming the density of each one their production in this specific case in gr/dose.



The small size of this DP dispenser means that there is no problem with its set up in very small production plants, even in sheds with very little space. However, the work that it does is industrial and accurate.

Dispenser set up in intermediate shed, next to a wastewater and sludge treatment basin. This is an auxiliary installations, several kilometres away from the main plant. This feature saves costs and eases to a great extent the human effort involved.

EACH INSTALLATION:
PERFECT FOR ITS APLICATION



The dispenser needs a minimal space; it can be placed facing the receiving machine or to its side if more convenient. The flexibility of its conveyor tube permits difficult set up. This performance provides savings in space and in costs derived from machinery with more complex concepts.

Typical set up in an olive oil mill at the side of the olive mass mixer, occupying minimal space.





Dosage installation carried out to order, meeting all requeriments. Study, project, manufacture and installation.

Set up carried out for snacks and nuts industry. Continuous dosage in Kg/hour to several receiving machines.



Transport of the product dosaged with the CT-16/360 up to 18 metres length and 6 metres height with optional equipment.

Dosage installation of sepiolite in factory of fats and derivatives. The dosed product is added at 10 metres length and at 3.5 metres height.

At your Service

DOSIFICADORES *garcía fernández* ®, as manufacturer of machinery and a broad range of dispensers has the means necessary to provide its customers and their machinery the service and care they deserve.
Our facilities are equipped with the technology, machinery and tools necessary so that, along with our qualified personnel, we can provide the appropriate services to satisfy your every need.

Start Up

Depending on the model acquired, the start up is carried out by the customer with the simplest models or by our technical service. When the installation is carried out at the customer`s installations, it is carried out by a specialized technician. Likewise the factory personnel are provided with concise explanations, both of operation and maintenance of the machine.

The complete start up consists of choosing the best placement for the device, mounting the conveyor tube correctly and connecting the machine to the supply line which the customer must provide. This takes approximately half a work day.

Specialised and Customised Technical Attention.

We answer all your queries. Your trainer will be one of our team of engineers.

- Enquiries about correct location of the doser and place of addition to optimize the use of the product to be dosed.
- Enquiries about maintenance and breakdowns.
- Any technical enquiry.

Export Department

We are available for you at all times to facilitate any procedural difficulties. We shorten distances with our quality personal care.

Delivery of Spare Parts

All original spare parts are in stock whenever you need them. Service of delivery in the same day that you make your order. We search for the best way and service to carry out deliveries effectively, quickly and at the best price.

Fast, Quality Repairs at the Customer Installations

Our Technical Service is run by professional trained by our company. Original spare parts and suitable tools are always used so that we can guarantee all repairs. Express Service within 24 hours except special cases.

Complete Guarantee

We will be responsible for any possible breakdown or defect which originates in manufacture.

Iberian Peninsula: Covers for a period of 12 months: parts, labour and travel expenses of technical services. In special custom-designed machinery, the particular guarantee period will be indicated, depending on the operating conditions of the machine.

All other countries: Covers parts plus all necessary technical advice.

This is the only one of our services which is rarely used by our customers. This is because quality is important at DOSIFICADORES *garcía fernández*® and because we hope improve our work every day for you.

Factory and offices:
Pol. Ind. 2ª fase, 37 y 38. 29130 ALHAURÍN DE LA TORRE
(Málaga) -SPAIN-
T. (0034) 952411670- 952413853
F. (0034) 952411918.
E-mail:dosificadores@dosificadoresgf.com
www.dosificadoresgf.com

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F.I.: October 2007.