

# METERING PUMPS

Dosing: anti-scale, anti-corrosion, disinfection, etc.



Municipal or well water used for potable and industrial uses can often contain undesirable elements, such as the presence of bacteria, excessive acidity or basicity, high hardness, presence of algae, etc. In these cases, it is necessary to treat the water with the installation of equipment, such as metering pumps

that intervene by dosing the appropriate product in a precise and adjustable manner.

The installation is very easy and must normally be carried out before the system or before the equipment to be protected.

GEL offers a wide range of constant and proportional metering pumps in

order to fulfill the different requirements of houses, laboratories and industries. All of the equipment is available single or assembled on a special tank and is manufactured with top-quality material to obtain top performance with maximum safety.

# DOSAMATIC PC

## Metering pump with constant dosing



Dosamatic PC



Dosamatic PC/SE

TECHNICAL FEATURES	
Diaphragm pump	
Flow rate	Constant adjustable from 0 to 4 l/h
Single injection	0,37 cc
Maximum back pressure	10 bar
Maximum suction height	1,5 m
Room temperature	from 5°C to 45°C
Additive temperature	from 5°C to 50°C
Dimensions	h 21 - width 10.7 - depth 12.5 (cm)
Voltage	230 V - 50Hz
Electrical absorption	16W
Degree of protection	IP 65
Tank	100 l (SE version)

DOSAMATIC PC is a metering pump with constant dosing which can be installed in parallel to a booster pump (with surge tanks use the Dosamatic PPI model). Its adjustable dosing, from 0% to 100% of its maximum flow rate, allows its use for disinfection, anti-scale and anti-corrosion treatments and conditioning for potable and technical use.

DOSAMATIC PC/SE is the DOSAMATIC PC, assembled on 100 l tank (code ending with S).

# DOSAMATIC PC BIG

## Metering pump with constant dosing



Dosamatic PC-BIG



Dosamatic PC-BIG/SE

TECHNICAL FEATURES	
Diaphragm pump	
Flow rate	constant adjustable from 0 to 4 l/h
Single injection	0,93 cc
Maximum back pressure	10 bar
Maximum suction height	1,5 m
Room temperature	from 5°C to 45°C
Additive temperature	from 5°C to 50°C
Dimensions	h 21 - width 10.7 - depth 12.5 (cm)
Voltage	230 V - 50Hz
Electrical absorption	22W
Degree of protection	IP 65
Tank	100 l (SE version)

DOSAMATIC PC BIG is a metering pump with constant dosing which can be installed in parallel to a booster pump (with surge tanks use Dosamatic PPI). Its adjustable dosing, from 0% to 100% of its maximum flow rate, allows its use for disinfection, anti-scale and anti-corrosion treatments and conditioning for potable and technical use.

DOSAMATIC PC BIG/SE is the DOSAMATIC PC BIG, assembled on 100 l tank (code ending with S).

### DOSAMATIC PC - PC BIG

Item Code	Dosamatic PC/SE	Dosamatic PC	Dosamatic PC BIG/SE	Dosamatic PC BIG
	106.110.1S	106.110.10	106.115.1S	106.115.10

If used for dosing products with polyamines, request the special "Polyamines kit" when ordering.

# DOSAMATIC PCS

## Constant metering pump with level probe

DOSAMATIC PCS, identical to the PC model, is equipped with a level probe that blocks the pump in case the liquid is finished, thereby protecting the operation. DOSAMATIC PCS/SE is the DOSAMATIC PCS, assembled on 100 l tank (code ending with S).



Dosamatic PCS



Dosamatic PCS/SE

TECHNICAL FEATURES	
<b>Diaphragm pump</b>	
Flow rate	constant adjustable from 0 to 4 l/h
Single injection	0,37 cc
Maximum back pressure	10 bar
Maximum suction height	1,5 m
Room temperature	from 5°C to 45°C
Additive temperature	from 5°C to 50°C
Dimensions	h 21 - width 10.7 - depth 12.5 (cm)
Voltage	230 V - 50Hz
Electrical absorption	16W
Degree of protection	IP 65
Equipped with	Level probe
Tank	100 l (SE version)

# DOSAMATIC PCS BIG

## Constant metering pump with level probe

DOSAMATIC PCS BIG, identical to the PC BIG model, is equipped with a level probe that blocks the pump in case the liquid is finished, thereby protecting the operation. DOSAMATIC PCS BIG/SE is the DOSAMATIC PCS BIG, assembled on 100 l tank (code ending with S).



Dosamatic PCS BIG



Dosamatic PCS/SE BIG

TECHNICAL FEATURES	
<b>Diaphragm pump</b>	
Flow rate	constant adjustable from 0 to 10 l/h
Single injection	0,93 cc
Maximum back pressure	10 bar
Maximum suction height	1,5 m
Room temperature	from 5°C to 45°C
Additive temperature	from 5°C to 50°C
Dimensions	h 21 - width 10.7 - depth 12.5 (cm)
Voltage	230 V - 50Hz
Electrical absorption	22W
Degree of protection	IP 65
Equipped with	Level probe
Tank	100 l (SE version)

### DOSAMATIC PCS - PCS BIG

Item Code	Dosamatic PCS/SE	Dosamatic PCS	Dosamatic PCS BIG/SE	Dosamatic PCS BIG
	106.130.1S	106.130.10	106.135.1S	106.135.10

If used for dosing products with polyamines, request the special "Polyamines kit" when ordering.

# DOSAMATIC PPI

## Multipurpose digital proportional metering pump with level probe and liter counter



Dosamatic PPI



Dosamatic PPI/SE

TECHNICAL FEATURES	
<b>Diaphragm pump</b>	
Flow rate	constant adjustable from 0 to 4 l/h
Single injection	0,37 cc
Maximum back pressure	10 bar
Maximum suction height	1,5 m
Room temperature	from 5°C to 45°C
Additive temperature	from 5°C to 50°C
Dimensions	h 21 - width 10.7 - depth 12.5 (cm)
Voltage	230 V - 50Hz
Electrical absorption	16W
Degree of protection	IP 65
Equipped with	level probe and liter counter
Tank	100 l (SE version)

DOSAMATIC PPI is a multipurpose digital proportional metering pump. It is equipped level probe, impulse sender liter counter and is capable of measuring the required amount of water and provide the correct proportional dosing, adjustable from 0 to 4 l/h. The DOSAMATIC PPI pump can be used for disinfection, anti-scale and anti-corrosion treatments, pH changes etc.

DOSAMATIC PPI/SE is the DOSAMATIC PPI, assembled on 100 l tank (code ending with S).

The pumps of the PPI and PP lines can operate in the following different modes:

**CONSTANT.** The pump doses with constant frequency in relation to the values set during the programming phase.

**DIVIDE.** The impulses supplied by a counter connected to the pump are divided by the value set during the programming phase.

**MULTIPLY.** The impulses supplied by a counter connected to the pump are multiplied by the value set during the programming phase.

**PPM.** The impulses supplied by a counter connected to the pump determine the dosing depending on the set value of mg/l.

**BATCH.** The impulse supplied by an external contact starts the dosing. The pump can be programmed to dose a specific quantity of product.

**VOLT.** The voltage supplied to the pump determines the proportional dosing depending on the two maximum and minimum values set during the programming phase.

**mA.** The power supplied to the pump determines the proportional dosing depending on the two maximum and minimum values set during the programming phase.

TECHNICAL FEATURES - LITRE COUNTER						
Connections	1/2" M.	3/4" M.	1" M.	1 1/4" M.	1 1/2" M.	2" M.
Maximum pressure (bar)	16	16	16	16	16	16
Maximum flow rate (m <sup>3</sup> /h)	3	5	7	10	20	30
Pressure loss (bar)	1	1	1	1	1	1
Impulses per liter	4i / 1 l	4i / 1 l	4i / 1 l	4i / 1 l	4i / 1 l	4i / 1 l

DOSAMATIC PPI				
Item Code	Dosamatic PPI/SE 1/2"	Dosamatic PPI 1/2"	Dosamatic PPI/SE 3/4"	Dosamatic PPI 3/4"
	106.191.1S	106.191.15	106.191.2S	106.191.25
Item Code	Dosamatic PPI/SE 1"	Dosamatic PPI 1"	Dosamatic PPI/SE 1 1/4"	Dosamatic PPI 1 1/4"
	106.191.3S	106.191.35	106.191.4S	106.191.45
Item Code	Dosamatic PPI/SE 1 1/2"	Dosamatic PPI 1 1/2"	Dosamatic PPI/SE 2"	Dosamatic PPI 2"
	106.191.5S	106.191.55	106.191.6S	106.191.65

If used for dosing products with polyamines, request the special "Polyamines kit" when ordering.

# DOSAMATIC PPI BIG

## Proportional metering pump with level probe and liter counter

DOSAMATIC PPI BIG is a multipurpose digital proportional metering pump. It is equipped with level probe, impulse sender liter counter and is capable of measuring the required amount of water and provide the correct proportional dosing, adjustable from 0 to 10 l/h. The DOSAMATIC PPI BIG pump can be used for disinfection, anti-scale and anti-corrosion treatments, pH changes etc.

DOSAMATIC PPI BIG/SE is the DOSAMATIC PPI BIG, assembled on 100 l tank (code ending with S). The pumps of the PPI BIG and PP BIG line can operate in the following different modes:

**CONSTANT.** The pump doses with constant frequency in relation to the values set during the programming phase.

**DIVIDE.** The impulses supplied by a counter connected to the pump are divided by the value set during the programming phase.

**MULTIPLY.** The impulses supplied by a counter connected to the pump are multiplied by the value set during the programming phase.

**PPM.** The impulses supplied by a counter connected to the pump determine the dosing depending on the set value of mg/l.

**BATCH.** The impulse supplied by an external contact starts the dosing. The pump can be programmed to dose a specific quantity of product.

**VOLT.** The voltage supplied to the pump determines the proportional dosing depending on the two maximum and minimum values set during the programming phase.

**mA.** The power supplied to the pump determines the proportional dosing depending on the two maximum and minimum values set during the programming phase.



Dosamatic PPI-BIG



Dosamatic PPI-BIG/SE

### TECHNICAL FEATURES

<b>Diaphragm pump</b>	
Flow rate	Proportional adjustable from 0 to 10 l/h
Single injection	0,93 cc
Maximum back pressure	10 bar
Maximum suction height	1,5 m
Room temperature	from 5°C to 45°C
Additive temperature	from 5°C to 50°C
Dimensions	h 21 - width 10,7 - depth 12,5 (cm)
Voltage	230 V - 50Hz
Electrical absorption	22W
Degree of protection	IP 65
Equipped with	level probe and liter counter
Tank	100 l (SE version)

### TECHNICAL FEATURES - LITRE COUNTER

Connections	1/2" M.	3/4" M.	1" M.	1 1/4" M.	1 1/2" M.	2" M.	DN 65	DN 80	DN 100	DN 150
Maximum pressure (bar)	16	16	16	16	16	16	16	16	16	16
Maximum flow rate (m³/h)	3	5	7	10	20	30	55	90	140	410
Pressure loss (bar)	1	1	1	1	1	1	0,1	0,1	0,1	0,1
Impulses per liter	4i/1 l	4i/1 l	4i/1 l	4i/1 l	4i/1 l	4i/1 l	4i/100 l	4i/100 l	4i/100 l	4i/100 l

### DOSAMATIC PPI BIG

Item Code	Dosamatic PPI BIG/SE 1/2"	Dosamatic PPI BIG 1/2"	Dosamatic PPI BIG/SE 3/4"	Dosamatic PPI BIG 3/4"
Item Code	Dosamatic PPI BIG/SE 1"	Dosamatic PPI BIG 1"	Dosamatic PPI BIG/SE 1 1/4"	Dosamatic PPI BIG 1 1/4"
Item Code	Dosamatic PPI BIG/SE 1 1/2"	Dosamatic PPI BIG 1 1/2"	Dosamatic PPI BIG/SE 2"	Dosamatic PPI BIG 2"
Item Code	Dosamatic PPI BIG/SE DN 65	Dosamatic PPI BIG DN 65	Dosamatic PPI BIG/SE DN 80	Dosamatic PPI BIG DN 80
Item Code	Dosamatic PPI BIG/SE DN 100	Dosamatic PPI BIG DN 100		

If used for dosing products with polyamines, request the special "Polyamines kit" when ordering.

# DOSAMATIC PP

## Multipurpose digital proportional/constant metering pump with level probe



Dosamatic PP



Dosamatic PP/SE

TECHNICAL FEATURES	
Diaphragm pump	
Flow rate	Proportional adjustable from 0 to 4 l/h
Single injection	0,37 cc
Maximum back pressure	10 bar
Maximum suction height	1,5 m
Room temperature	from 5°C to 45°C
Additive temperature	from 5°C to 50°C
Dimensions	h 21 - width 10.7 - depth 12.5 (cm)
Voltage	230 V - 50Hz
Electrical absorption	16W
Degree of protection	IP 65
Equipped with	Level probe
Tank	100 l (SE version)

DOSAMATIC PP is identical to the DOSAMATIC PPI but is supplied without impulse-sender counter (to be ordered separately).

DOSAMATIC PP/SE is the DOSAMATIC PP, assembled on 100 l tank (code ending with S).

### AVAILABLE LITRE COUNTER ACCESSORIES

Connections	1/2" M.	3/4" M.	1" M.	1 1/4" M.	1 1/2" M.	2" M.
Item code	106.090.00	106.090.10	106.090.20	106.090.30	106.090.40	106.090.50

### DOSAMATIC PP

Item Code	Dosamatic PP/SE 106.191.XS	Dosamatic PP 106.191.X5
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If used for dosing products with polyamines, request the special "Polyamines kit" when ordering.

# DOSAMATIC PP BIG

## Constant/proportional metering pump with level probe

DOSAMATIC PP BIG is identical to the DOSAMATIC PPI BIG but is supplied without impulse-sender counter (to be ordered separately). DOSAMATIC PP BIG/SE is the DOSAMATIC PP BIG, assembled on 100 l tank (code ending with S).



Dosamatic PP BIG



Dosamatic PP-BIG/SE

TECHNICAL FEATURES	
Diaphragm pump	
Flow rate	Proportional adjustable from 0 to 10 l/h
Single injection	0,93 cc
Maximum back pressure	10 bar
Maximum suction height	1,5 m
Room temperature	from 5°C to 45°C
Additive temperature	from 5°C to 50°C
Dimensions	h 21 - width 10.7 - depth 12.5 (cm)
Voltage	230 V - 50Hz
Electrical absorption	22W
Degree of protection	IP 65
Equipped with	Level probe
Tank	100 l (SE version)

AVAILABLE LITRE COUNTER ACCESSORIES										
Connections	1/2" M.	3/4" M.	1" M.	1 1/4" M.	1 1/2" M.	2" M.	DN 65	DN 80	DN 100	DN 150
Item code	106.090.00	106.090.10	106.090.20	106.090.30	106.090.40	106.090.50	106.090.60	106.090.75	106.090.80	106.090.90

DOSAMATIC PP BIG		
Item Code	Dosamatic PP BIG/SE 106.195.XS	Dosamatic PP BIG 106.195.X5

If used for dosing products with polyamines, request the special "Polyamines kit" when ordering.