# PRIUS P

## Motor driven plunger metering pump

Data Sheet

Motor-driven plunger dosing pump, mechanical actuated, PRIUS combines efficiency and chemical resistance to a wide capacity range for an extensive number of applications.

- Single or three phase motor power supply
- **Ceramic or Stainless Steel plunger**
- Aluminium enclosure
- Double ball check valve
- Tropicalized three-phase motors

Insulation class F
IE energy efficiency 1

# Identification code

| CUSTOM. | PACKAGING | INTERNAL |
|---|---|---|

| P | P | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 4 | D | V | 1 | 2 | 0 | 0 | N | 0 | 0 | 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | BAR | | | L/H | | | | | | | | | COLOR | | | |

| CAPACITY | | | |
|---|---|---|---|
| 50 Hz | | 60 Hz | |
| **010024** | 24 l/h @ 10 bar | **010023** | 23 l/h @ 10 bar |
| **010013** | 13 l/h @ 10 bar | **010011** | 11 l/h @ 10 bar |
| **010010** | 10 l/h @ 10 bar | **010005** | 5 l/h @ 10 bar |
| **010005** | 5 l/h @ 10 bar | **010076** | 76 l/h @ 10 bar |
| **010080** | 80 l/h @ 10 bar | **010038** | 38 l/h @ 10 bar |
| **010043** | 43 l/h @ 10 bar | **010019** | 126 l/h @ 10 bar |
| **010032** | 32 l/h @ 10 bar | **010126** | 126 l/h @ 10 bar |
| **010016** | 16 l/h @ 10 bar | **010063** | 63 l/h @ 10 bar |
| **010130** | 130 l/h @ 10 bar | **010031** | 31 l/h @ 10 bar |
| **010070** | 70 l/h @ 10 bar | **010195** | 195 l/h @ 10 bar |
| **010052** | 52 l/h @ 10 bar | **010097** | 97 l/h @ 10 bar |
| **010026** | 26 l/h @ 10 bar | **010048** | 48 l/h @ 10 bar |
| **010210** | 210 l/h @ 10 bar | **010300** | 300 l/h @ 10 bar |
| **010113** | 113 l/h @ 10 bar | **010150** | 150 l/h @ 10 bar |
| **010084** | 84 l/h @ 10 bar | **010075** | 75 l/h @ 10 bar |
| **010042** | 42 l/h @ 10 bar | **007469** | 469 l/h @ 7 bar |
| **010320** | 320 l/h @ 10 bar | **007234** | 234 l/h @ 7 bar |
| **010172** | 172 l/h @ 10 bar | **007117** | 117 l/h @ 7 bar |
| **010128** | 128 l/h @ 10 bar | | |
| **010064** | 64 l/h @ 10 bar | | |
| **007508** | 508 l/h @ 7 bar | | |
| **007273** | 273 l/h @ 7 bar | | |
| **007203** | 203 l/h @ 7 bar | | |
| **007101** | 101 l/h @ 7 bar | | |

| MATERIAL pump head + plunger | |
|---|---|
| **D** | PP + CERAMIC (SIALOX 96) |
| **E** | SS (AISI316L) + SS (AISI420) |

| | MOTOR | POWER SUPPLY | PHASE |
|---|---|---|---|
| **1** | 0,18Kw | 220-240/380-420 - 50 Hz | 3-PHASE |
| **2** | 0,37Kw | 220-240/380-420 - 50 Hz | 3-PHASE |
| **3** | 0,18Kw | 220/380 - 60 Hz | 3-PHASE |
| **4** | 0,37Kw | 220/380 - 60 Hz | 3-PHASE |

| REDUCTION GEAR | |
|---|---|
| **1** | 8:1 |
| **2** | 15:1 |
| **4** | 20:1 |

| O RING | |
|---|---|
| **V** | FKM B |
| **D** | Dutral |
| **W** | WAX |

| LUBRICANT TYPE | |
|---|---|
| **BRAND** | **MODEL** |
| MOBIL | MOBILGEAR 632 |
| SHELL | OMALA OIL 320 |
| BP | ENERGOL GR-XP 320 |
| IP | MELLANA OIL 320 |
| ESSO | SPARTAN EP 320 |
| AGIP | BLASIA 320 |

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# PRIUS P

Motor driven plunger metering pump

Data Sheet

## "PRIUS P" SERIES - 50 Hz / 3-PHASE MOTOR

## Features

- Aluminium enclosure
- Ceramic (SIALOX96 ) piston and PP pump head or SS (AISI420) pump head and piston
- Power supply: 220-240/380-420 V - Δ/Y connection
- Environment temperature: .....-10-40 °C (14-104 °F)
- Chemical temperature with SS pump head: .....-10-90 °C (14-194 °F)*
- Chemical temperature with PP pump head: .....-10-40 °C (14-104 °F)
- Installation class .....II
- Pollution level.....2
- Audible noise.....78 dbA (± 5 dB)
- Protection degree .....IP 55
- Max suction height .....3 m
- Oil capacity.....0,3 lt (Refer to "Lubricant type" table)

* The specified temperature can be exceeded temporarily (max 15') for sterilization or flushing with hot water.

**MOTORS**

0,18 kW: 3-phase 230 V 1350 rpm
0,37 kW: 3-phase 230 V 1370 rpm

**PRIUS P - PP PUMP HEAD**

**PRIUS P - SS PUMP HEAD**

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# PRIUS P

## Motor driven plunger metering pump

Data Sheet

### PRIUS P WITH PP PUMP HEAD AND CERAMIC PLUNGER
**50 HZ / 3-PHASE MOTOR**

| PRIUS P 50 Hz | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| stroke length | PLUNGER diam. (mm) | PRIUS P 50 Hz | Stroke/1' | Pressure bar | Capacity l/h | Motor | HOSES CONNECTION PP | INSTALLATION KIT |
| 15 mm | 14 | **010024** | 175 | 10 | 24 | 0,18 kW | G1/2" 12x18 | A |
| | | **010013** | 94 | | 13 | | | |
| | | **010010** | 70 | | 10 | | | |
| | | **010005** | 35 | | 5 | | | |
| | 25 | **010080** | 175 | 10 | 80 | 0,18 kW | G1/2" 12x18 | A |
| | | **010043** | 94 | | 43 | | | |
| | | **010032** | 70 | | 32 | | | |
| | | **010016** | 35 | | 16 | | | |
| | 32 | **010130** | 175 | 10 | 130 | 0,18 kW | G1/2" 12x18 | A |
| | | **010070** | 94 | | 70 | | | |
| | | **010052** | 70 | | 52 | | | |
| | | **010026** | 35 | | 26 | | | |
| | 40 | **010210** | 175 | 10 | 210 | 0,37 kW | G3/4" d.i. 18 mm | B |
| | | **010113** | 94 | | 113 | | | |
| | | **010084** | 70 | | 84 | | | |
| | | **010042** | 35 | | 42 | | | |
| | 50 | **010320** | 175 | 10 | 320 | 0,37 kW | G3/4" d.i. 18 mm | B |
| | | **010172** | 94 | | 172 | | | |
| | | **010128** | 70 | | 128 | | | |
| | | **010064** | 35 | | 64 | | | |

ACCESSORIES

A. INSTALLATION KIT INCLUDED
- 1/2" foot filter with 13 mm (int. diam.) hose fitting
- 3/4" injection valve
- 13 x16 PVDF or 12 X 18 PVC delivery hose
- 13 x16 PVDF or 12 X 18 PVC suction hose

B. INSTALLATION KIT (OPTION)
- 1 1/2"foot filter with 18 mm (int. diam.) hose fitting (G1 1/2" - 18 mm)
- 1 1/2" injection valve

C. INSTALLATION KIT (OPTION)
- 1 1/2"foot filter with 32 mm (int. diam.) hose fitting (G1 1/2" - 32 mm)
- 1 1/2" injection valve

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# PRIUS P

## Motor driven plunger metering pump

Data Sheet

### PRIUS P WITH SS PUMP HEAD AND PLUNGER
### 50 HZ / 3-PHASE MOTOR

**Stainless Steel pump does not fit installation kit.**

| PRIUS P 50 Hz | | | | | | | |
|---|---|---|---|---|---|---|---|
| stroke length | PLUNGER diam. (mm) | PRIUS P 50 Hz | Stroke/1' | Pressure bar | Capacity l/h | Motor | HOSES CONNECTION SS |
| 15 mm | 14 | 010024 | 175 | 10 | 24 | 0,18 kW | R1/2" |
| | | 010013 | 94 | | 13 | | |
| | | 010010 | 70 | | 10 | | |
| | | 010005 | 35 | | 5 | | |
| | 25 | 010080 | 175 | 10 | 80 | 0,18 kW | R1/2" |
| | | 010043 | 94 | | 43 | | |
| | | 010032 | 70 | | 32 | | |
| | | 010016 | 35 | | 16 | | |
| | 32 | 010130 | 175 | 10 | 130 | 0,18 kW | R1/2" |
| | | 010070 | 94 | | 70 | | |
| | | 010052 | 70 | | 52 | | |
| | | 010026 | 35 | | 26 | | |
| | 40 | 010210 | 175 | 10 | 210 | 0,37 kW | R3/4" |
| | | 010113 | 94 | | 113 | | |
| | | 010084 | 70 | | 84 | | |
| | | 010042 | 35 | | 42 | | |
| | 50 | 010320 | 175 | 10 | 320 | 0,37 kW | R3/4" |
| | | 010172 | 94 | | 172 | | |
| | | 010128 | 70 | | 128 | | |
| | | 010064 | 35 | | 64 | | |
| | 63 | 007508 | 175 | 7 | 508 | 0,55 kW | R1" |
| | | 007273 | 94 | | 273 | 0,37 kW | |
| | | 007203 | 70 | | 203 | | |
| | | 007101 | 35 | | 101 | | |

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# PRIUS P

## Motor driven plunger metering pump

Data Sheet

### PRIUS P WITH PP PUMP HEAD AND CERAMIC PLUNGER
**60 HZ / 3-PHASE MOTOR**

| PRIUS P 60 Hz | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| stroke length | PLUNGER diam. (mm) | PRIUS P 60 Hz | Stroke/1' | Pressure bar | Capacity l/h | Motor | HOSES CONNECTION PP | INSTALLATION KIT |
| 15 mm | 14 | **010023** | 175 | 10 | 23 | 0,18 kW | G1/2" 12x18 | A |
| | | **010011** | 87 | | 11 | | | |
| | | **010005** | 44 | | 5 | | | |
| | 25 | **010076** | 175 | 10 | 76 | 0,18 kW | G1/2" 12x18 | A |
| | | **010038** | 87 | | 38 | | | |
| | | **010019** | 44 | | 19 | | | |
| | 32 | **010126** | 175 | 10 | 126 | 0,18 kW | G1/2" 12x18 | A |
| | | **010063** | 87 | | 63 | | | |
| | | **010031** | 44 | | 31 | | | |
| | 40 | **010195** | 175 | 10 | 195 | 0,37 kW | G3/4" d.i. 18 mm | B |
| | | **010097** | 87 | | 97 | | | |
| | | **010048** | 44 | | 48 | | | |
| | 50 | **010300** | 175 | 10 | 300 | 0,37 kW | G3/4" d.i. 18 mm | B |
| | | **010150** | 87 | | 150 | | | |
| | | **010075** | 44 | | 75 | | | |

### PRIUS P WITH SS PUMP HEAD AND PLUNGER
**60 HZ / 3-PHASE MOTOR**

| PRIUS P 60 Hz | | | | | | | |
|---|---|---|---|---|---|---|---|
| stroke length | PLUNGER diam. (mm) | PRIUS P 60 Hz | Stroke/1' | Pressure bar | Capacity l/h | Motor | HOSES CONNECTION SS |
| 15 mm | 14 | **010023** | 175 | 10 | 23 | 0,18 kW | R1/2" |
| | | **010011** | 87 | | 11 | | |
| | | **010005** | 44 | | 5 | | |
| | 25 | **010076** | 175 | 10 | 76 | 0,18 kW | R1/2" |
| | | **010038** | 87 | | 38 | | |
| | | **010019** | 44 | | 19 | | |
| | 32 | **010126** | 175 | 10 | 126 | 0,18 kW | R1/2" |
| | | **010063** | 87 | | 63 | | |
| | | **010031** | 44 | | 31 | | |
| | 40 | **010195** | 175 | 10 | 195 | 0,37 kW | R3/4" |
| | | **010097** | 87 | | 97 | | |
| | | **010048** | 44 | | 48 | | |
| | 50 | **010300** | 175 | 10 | 300 | 0,37 kW | R3/4" |
| | | **010150** | 87 | | 150 | | |
| | | **010075** | 44 | | 75 | | |
| | 63 | **007469** | 175 | 7 | 469 | 0,55 kW | R1" |
| | | **007234** | 87 | | 234 | 0,37 kW | |
| | | **007117** | 44 | | 117 | | |

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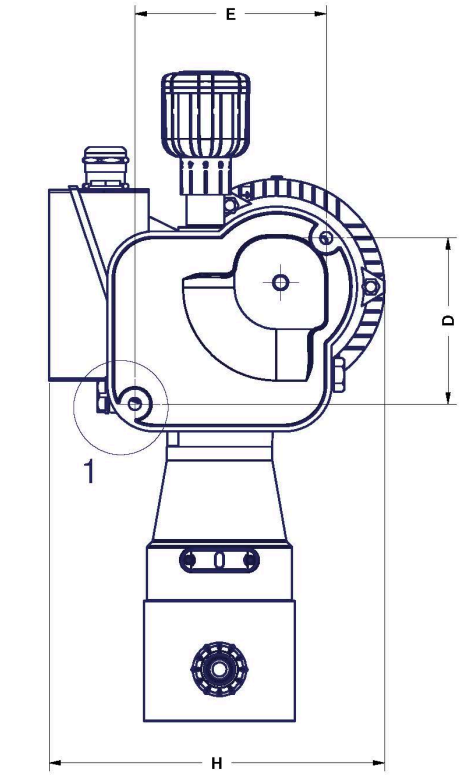
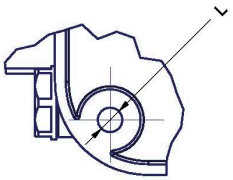
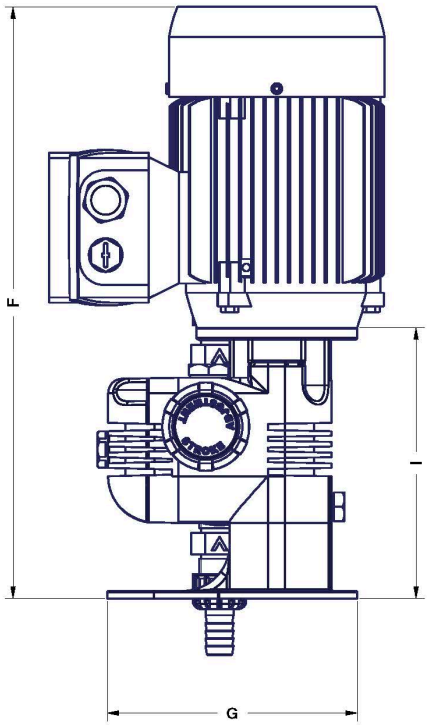
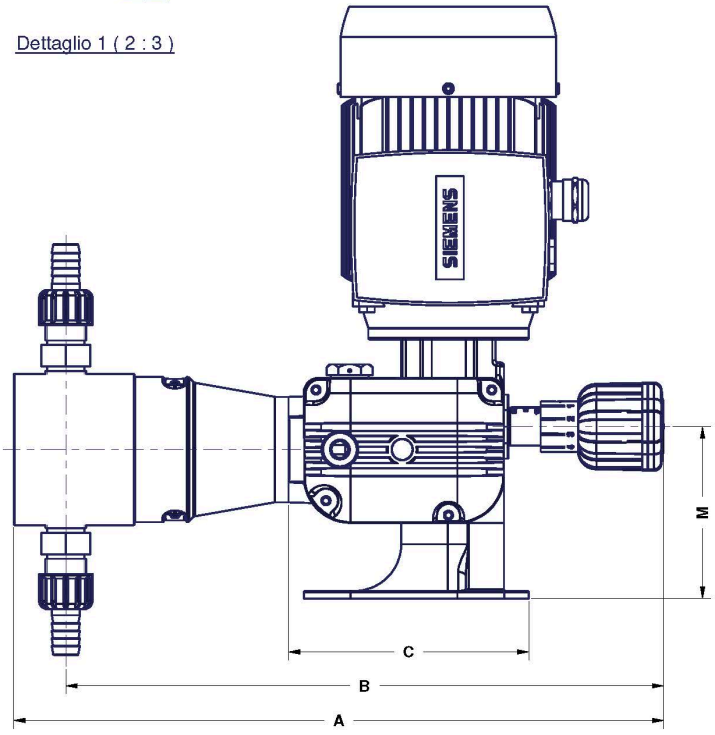



| | Ø14 | Ø25 | Ø32 | Ø40 | Ø50 | Ø63 | Ø63 07/508 |
|---|---|---|---|---|---|---|---|
| A | 410 | 410 | 410 | 412 | 412 | 420 | 420 |
| B | 394 | 394 | 394 | 394 | 394 | 394 | 394 |
| C | 157 | 157 | 157 | 157 | 157 | 157 | 157 |
| D | 108.60 | 108.60 | 108.60 | 108.60 | 108.60 | 108.60 | 108.60 |
| E | 125.20 | 125.20 | 125.20 | 125.20 | 125.20 | 125.20 | 125.20 |
| F | 356.70 | 356.70 | 356.70 | 387.20 | 387.20 | 387.20 | 481.20 |
| G | 163.50 | 163.50 | 163.50 | 163.50 | 163.50 | 163.50 | 163.50 |
| H | 193.70 | 193.70 | 193.70 | 219.50 | 219.50 | 219.50 | 237 |
| I | 177.20 | 177.20 | 177.20 | 177.20 | 177.20 | 177.20 | 229.20 |
| L | Ø8.00 | Ø8.00 | Ø8.00 | Ø8.00 | Ø8.00 | Ø8.00 | Ø8.00 |
| M | 112.50 | 112.50 | 112.50 | 112.50 | 112.50 | 112.50 | 112.50 |




Dettaglio 1 ( 2 : 3 )





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