

# Motor driven plunger metering pump



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



## 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

MATERIAL pump head + plunger	
D	PP + CERAMIC (SIALOX 96)
E	SS (AISI316) + SS (AISI316)

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

CAPACITY	
50 Hz	60 Hz
010024	24 l/h @ 10 bar
010013	13 l/h @ 10 bar
010010	10 l/h @ 10 bar
010080	80 l/h @ 10 bar
010043	43 l/h @ 10 bar
010032	32 l/h @ 10 bar
010130	130 l/h @ 10 bar
010070	70 l/h @ 10 bar
010052	52 l/h @ 10 bar
010210	210 l/h @ 10 bar
010113	113 l/h @ 10 bar
010084	84 l/h @ 10 bar
010320	320 l/h @ 10 bar
010172	172 l/h @ 10 bar
010128	128 l/h @ 10 bar
010023	23 l/h @ 10 bar
010011	11 l/h @ 10 bar
010076	76 l/h @ 10 bar
010038	38 l/h @ 10 bar
010126	126 l/h @ 10 bar
010063	63 l/h @ 10 bar
010195	195 l/h @ 10 bar
010097	97 l/h @ 10 bar
010300	300 l/h @ 10 bar
010150	150 l/h @ 10 bar

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

Motor driven plunger metering pump

**“PRIUS P” SERIES - 50/60 Hz / 3-PHASE MOTOR**

Features

- Aluminium enclosure
- Ceramic (SIALOX96 ) piston and PP pump head or SS (AISI316) 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**



## Motor driven plunger metering pump

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

PRIUS P / PP + CERAMIC / 50 Hz								
LENGHT	PLUNGER diameter (mm)	PRIUS P	stroke/1'	Pressure bar	Capacity l/h	Motor	HOSES CONNECTION	INSTALLATION KIT
							PP	
15 mm	14	010024	175	10	24	0,18 kW	G1/2" 12x18	A
		010013	94		13			
		010010	70		10			
	25	010080	175	10	80	0,18 kW	G1/2" 12x18	A
		010043	94		43			
		010032	70		32			
	32	010130	175	10	130	0,18 kW	G1/2" 12x18	A
		010070	94		70			
		010052	70		52			
	40	010210	175	10	210	0,37 kW	G3/4" i.d. 18 mm	B
		010113	94		113			
		010084	70		84			
	50	010320	175	10	320	0,37 kW	G3/4" i.d. 18 mm	B
		010172	94		172			
		010128	70		128			

#### 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

Motor driven plunger metering pump

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

PRIUS P / SS PUMP HEAD / 50 Hz							
LENGHT	PLUNGER diameter (mm)	PRIUS P	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		
	25	010080	175	10	80	0,18 kW	R1/2"
		010043	94		43		
		010032	70		32		
	32	010130	175	10	130	0,18 kW	R1/2"
		010070	94		70		
		010052	70		52		
	40	010210	175	10	210	0,37 kW	R3/4"
		010113	94		113		
		010084	70		84		
	50	010320	175	10	320	0,37 kW	R3/4"
		010172	94		172		
		010128	70		128		

Stainless Steel pump does not fit installation kit.

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

PRIUS P 60 Hz / 3-PHASE MOTOR / 60 Hz							
LENGHT	PRIUS P	stroke/1'	Pressure bar	Capacity l/h	Motor	HOSES CONNECTION	PLUNGER
						PP	Diameter (mm)
15 mm	010023	175	10	23	0,18 kW	G1/2" 12x18	14
	010011	87		11			
	010076	175	10	76		G1/2" 12x18	25
	010038	87		38			
	010126	175	10	126		G1/2" 12x18	32
	010063	87		63			
	010195	175	10	195	G3/4" i. d. 18 mm	40	
	010097	87		97			
	010300	175	10	300	0,37 kW	G3/4" i. d. 18 mm	50
	010150	87		150			

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

PRIUS P 60 Hz / 3-PHASE MOTOR / 60 Hz							
LENGHT	PRIUS P	stroke/1'	Pressure bar	Capacity l/h	Motor	HOSES CONNECTION	PLUNGER
						SS	Diameter (mm)
15 mm	010023	175	10	23	0,18 kW	R1/2"	14
	010011	87		11			
	010076	175	10	76		R1/2"	25
	010038	87		38			
	010126	175	10	126		R1/2"	32
	010063	87		63			
	010195	175	10	195	0,37 kW	R3/4"	40
	010097	87		97			
	010300	175	10	300	0,37 kW	R3/4"	50
	010150	87		150			

