

PRIUS D MF

Data Sheet

Multi-Function motor driven diaphragm metering pump

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



- Multifunction motor pump with inverter
- Working mode: Constant, ppm, %, mlq, pause-work, weekly, mA, Volt and Batch
- Level control
- Alarms
- Stand-by
- Double position of the electronic unit (standard or rotated mounting)
- PTFE diaphragm
- Aluminium enclosure
- Spring return mechanism
- Manual degassing valve (PVDF and PP pump heads)
- Flow regulation
- Liquid ends available in different sizes and materials
- Double ball check valve
- Tropicalized motors



STANDARD MOUNTING



ROTATED MOUNTING

Identification code

CIRCUIT

CUSTOM. **PACKAGING** **INTERNAL**

BAR **L/H** **COLOR**

REDUCTION GEAR

O RING

LUBRICANT TYPE

CAPACITY		PUMP HEAD MATERIAL		MOTOR		POWER SUPPLY		PHASE	
PRIUS D MF		PRIUS D MF HIGH PRESSURE							
010060	60 l/h @ 10 bar	100004	4 l/h @ 100 bar	1	0,18Kw	220-240 - 50 Hz	3-PHASE		
010030	30 l/h @ 10 bar	100002	2 l/h @ 100 bar	2	0,37Kw	220-240 - 50 Hz	3-PHASE		
010024	24 l/h @ 10 bar	1001,5	1,5 l/h @ 100 bar						
010012	12 l/h @ 10 bar	060017	17 l/h @ 60 bar						
010016	16 l/h @ 10 bar	060009	9 l/h @ 60 bar						
010105	105 l/h @ 10 bar	060005	5 l/h @ 60 bar						
010056	56 l/h @ 10 bar	040028	28 l/h @ 40 bar						
010042	42 l/h @ 10 bar	040015	15 l/h @ 40 bar						
010021	21 l/h @ 10 bar	040010	10 l/h @ 40 bar						
007160	160 l/h @ 7 bar	030076	76 l/h @ 30 bar						
007086	86 l/h @ 7 bar	030041	41 l/h @ 30 bar						
007064	64 l/h @ 7 bar	030030	30 l/h @ 30 bar						
007032	32 l/h @ 7 bar	020146	146 l/h @ 20 bar						
005240	240 l/h @ 5 bar	020078	78 l/h @ 20 bar						
005128	128 l/h @ 5 bar	020057	57 l/h @ 20 bar						
005096	96 l/h @ 5 bar								
005048	48 l/h @ 5 bar								
005350	350 l/h @ 5 bar								
005188	188 l/h @ 5 bar								
005140	140 l/h @ 5 bar								
005070	212 l/h @ 5 bar								
005440	440 l/h @ 5 bar								
005236	236 l/h @ 5 bar								
005176	176 l/h @ 5 bar								
005088	088 l/h @ 5 bar								
005530	530 l/h @ 5 bar								
005284	284 l/h @ 5 bar								
005212	212 l/h @ 5 bar								
005106	106 l/h @ 5 bar								
003M00	1000 l/h @ 3 bar								
003750	750 l/h @ 3 bar								

REDUCTION GEAR

REDUCTION GEAR	REDUCTION GEAR
1	8:1
2	15:1
3	10:1
4	20:1
5	40:1

O RING

O RING	O RING
V	FKM B
D	Dutral

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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ISO 9001:2008
ISO 14001:2004
OHSAS 18001:2007



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"PRIUS D MF" SERIES - SINGLE PHASE SUPPLY

Features

- Aluminium enclosure (epoxy coating)
- Spring return mechanism
- Power supply: 230 VAC (+/-10%) - 50/60 Hz - single-phase
- Environment temperature: -10-40°C (14-104°F)
- Chemical temperature with PVDF pump head: -10-65°C (14-149°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)

High pressure ranges available (SS pump head).

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

MOTOR

0,37 kW: 3-phase 230 V 1370 g/min



PVDF PUMP HEAD



SS PUMP HEAD



PP PUMP HEAD

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PRIUS D MF - 50 Hz

Power supply..... 220-240 V

PRIUS D MF 50 Hz										
PRIUS D MF	Pressure bar	Capacity l/h	Stroke length	stroke/1'	Motor	HOSE CONNECTION			PUMP HEAD	ACCESSO- RIES
						PVDF	SS	PP	Model	
010060	10	60	3 mm	175	0,18 kW	1/2" 13 mm (i.d.)	R1/2" G1/2"	1/2" 13 mm (i.d.)	NM	A
010030		30		94						
010024		24		70						
010012		12		35						
010016	10	16	4 mm	35	0,18 kW	1/2" 13 mm (i.d.)	R1/2" G1/2"	1/2" 13 mm (i.d.)	NM	A
010105	10	105	3 mm	175	0,37 kW	3/4" 13 mm (i.d.)	R3/4" G3/4"	3/4" 13 mm (i.d.)	TM	A
010056		56		94						
010042		42		70						
010021		21		35						
007160	7	160	4 mm	175	0,37 kW	3/4" 13 mm (i.d.)	R3/4" G3/4"	3/4" 13 mm (i.d.)		A
007086		86		94						
007064		64		70						
007032		32		35						
005240	5	240	6 mm	175	0,37 kW	3/4" 18 mm (i.d.)	R3/4" G3/4"	3/4" 18 mm (i.d.)		B
005128		128		94						
005096		96		70						
005048		48		35						
005350	5	350	4 mm	175	0,37 kW	G1-1/2" 30 mm (i.d.)	R1"	G1-1/2" 30 mm (i.d.)	UM	C
005188		188		94						
005140		140		70						
005070		70		35						
005440	5	440	5 mm	175	0,37 kW	G1-1/2" 30 mm (i.d.)	R1"	G1-1/2" 30 mm (i.d.)		C
005236		236		94						
005176		176		70						
005088		88		35						
005530	5	530	6 mm	175	0,37 kW	G1-1/2" 30 mm (i.d.)	R1"	G1-1/2" 30 mm (i.d.)		C
005284		284		94						
005212		212		70						
005106		106		35						
003M00	3	1000	10 mm	175	0,37 kW	G1-1/2" 30 mm (i.d.)	R1"	G1-1/2" 30 mm (i.d.)	UM	C
003750		750	8 mm	175						

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 30 mm (int. diam.) hose fitting (G1 1/2" - 30 mm)
- 1 1/2" injection valve

Stainless Steel pump does not fit installation kit.

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PRIUS D MF - HIGH PRESSURE

Power supply..... 220-240 V

PRIUS D MF 50 Hz / HIGH PRESSURE							
PRIUS D MF	Pressure bar	Capacity l/h	Stroke length	stroke/1'	Motor	HOSE CONNECTION	PUMP HEAD
						SS	Model
100004	100	4	1.5 mm	175	0,37 kW	3/8"	L1
100002		2		94			
1001,5		1,5		70			
060017	60	17	2 mm	175	0,37 kW	1/2"	M1
060009		9		94			
060005		5		70			
040028	40	28	2 mm	175	0,37 kW	1/2"	N
040015		15		94			
040010		10		70			
030076	30	76	4 mm	175	0,37 kW	1/2"	S
030041		41		94			
030030		30		70			
020146	20	146	6 mm	175	0,37 kW	3/4"	T
020078		78		94			
020057		57		70			

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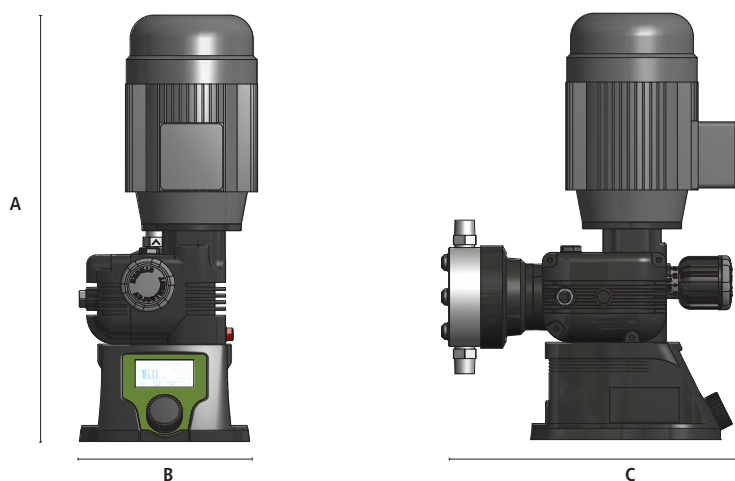
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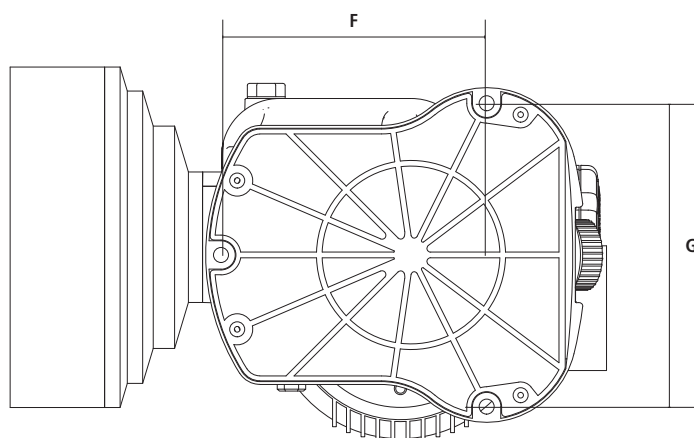
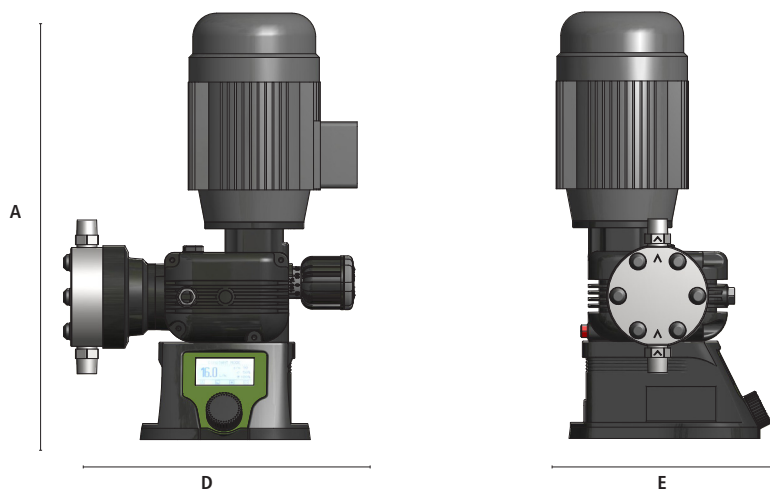
Dimensions

WEIGHTS AND DIMENSIONS ARE REFERRED TO MOTOR PUMPS WITH UM PUMP HEAD MOD.



DIMENSIONS (mm)	
	UM pump (PP)
A	450
B	200
C	340
D	340
E	200
F	140
G	160
Ø fixing holes	8

WEIGHT (kg)	
with PP pump head	16
with SS pump head	25



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