

Multi-Function motor driven diaphragm metering pump

R130922

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, pulse, 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
- MODBUS option



STANDARD MOUNTING



ROTATED MOUNTING

Identification code

CIRCUIT

MF	Multifunction 230 VAC
M1	Multifunction 115 VAC
MM	Multifunction+Modbus

CUSTOM. PACKAGING INTERNAL

P D M F 0 1 0 0 6 0 M V 1 2 0 0 N 0 0 0

BAR L/H

CAPACITY

PRIUS D MF		PRIUS D MF AP	
010060	60 l/h @ 10 bar	100004	4 l/h @ 100 bar
010030	30 l/h @ 10 bar	100002	2 l/h @ 100 bar
010024	24 l/h @ 10 bar	1001,5	1,5 l/h @ 100 bar
010012	12 l/h @ 10 bar	050017	17 l/h @ 50 bar
010016	16 l/h @ 10 bar	050009	9 l/h @ 50 bar
010105	105 l/h @ 10 bar	050005	5 l/h @ 50 bar
010056	56 l/h @ 10 bar	05002,5	2,5 l/h @ 50 bar
010042	42 l/h @ 10 bar	030028	28 l/h @ 30 bar
010021	21 l/h @ 10 bar	030015	15 l/h @ 30 bar
007160	160 l/h @ 7 bar	030010	30 l/h @ 10 bar
007086	86 l/h @ 7 bar	030005	5 l/h @ 30 bar
007064	64 l/h @ 7 bar	030076	76 l/h @ 30 bar
007032	32 l/h @ 7 bar	030041	41 l/h @ 30 bar
005240	240 l/h @ 5 bar	030030	30 l/h @ 30 bar
005128	128 l/h @ 5 bar	030015	15 l/h @ 30 bar
005096	96 l/h @ 5 bar	020091	91 l/h @ 20 bar
005048	48 l/h @ 5 bar	020068	68 l/h @ 20 bar
005350	350 l/h @ 5 bar	020034	34 l/h @ 20 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		
0021000	1000 l/h @ 2 bar		
0051000	1000 l/h @ 5 bar		
004520	520 l/h @ 4 bar		
005390	390 l/h @ 5 bar		
005180	180 l/h @ 5 bar		
003750	750 l/h @ 3 bar		
005380	380 l/h @ 5 bar		
005290	290 l/h @ 5 bar		

UMS PUMP HEAD MATERIAL

M	SS
U	PVDF
V	PP

NM/TM PUMP HEAD MATERIAL

K	PVDF
P	PP
S	SS

MOTOR

2	0,37Kw
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COLOR

REDUCTION GEAR (50Hz)

1	8:1	175 s/min
2	15:1	94 s/min
4	20:1	70 s/min
5	40:1	35 s/min

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

"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
- Consumption 230VAC 2.3Arms 530VA | 115VAC 4.6Arms 530VA
- 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.



PVDF PUMP HEAD



SS PUMP HEAD



PP PUMP HEAD

PRIUS D MF

Data Sheet

Multi-Function motor driven diaphragm metering pump

PRIUS D MF

PRIUS D MF											
PRIUS D MF	Pressure bar	Capacity l/h	Stroke length	stroke/1'	Motor	HOSE CONNECTION			PUMP HEAD	ACCESSORIES	
						PVDF	SS	PP	Model		
010060	10	60	3 mm	175	0,37 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	0,37 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.)			
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.)			
005284		284		94							
005212		212		70							
005106		106		35							
0051000	5	1000	10 mm	175	0,55 kW	G1-1/2" 30 mm (i.d.)	R1"	G1-1/2" 30 mm (i.d.)			
0021000	2	1000		94							
004520	4	520		70							
005390	5	390		35							
005180		180									
003750	3	750	8 mm	175	0,37 kW	G1-1/2" 30 mm (i.d.)	R1"	G1-1/2" 30 mm (i.d.)			
005380	5	380		94							
005290		290		70							
005140		140		35							

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

Packaging of all models always includes:

- LEVEL PROBE
- INPUT / STANDBY CABLE
- ALARM CABLE

PRIUS D MF

Data Sheet

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PRIUS D MF - HIGH PRESSURE

PRIUS D MF AP / HIGH PRESSURE							
PRIUS D MF AP	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			
050017	50	17	2 mm	175	0,37 kW	1/2"	M1
050009		9		94			
050005		5		70			
05002,5		2,5		35			
030028	30	28	2 mm	175	0,37 kW	1/2"	N
030015		15		94			
030010		10		70			
030005		5		35			
030076	30	76	4 mm	175	0,37 kW	1/2"	S
030041		41		94			
030030		30		70			
030015		15		35			
020091	20	91	6 mm	94	0,37 kW	3/4"	T
020068		68		70			
020034		34		35			

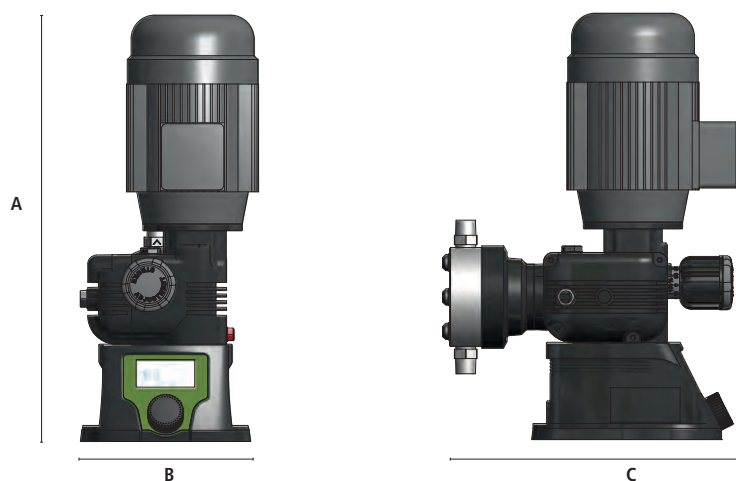
PRIUS D MF

Data Sheet

Multi-Function motor driven diaphragm metering pump

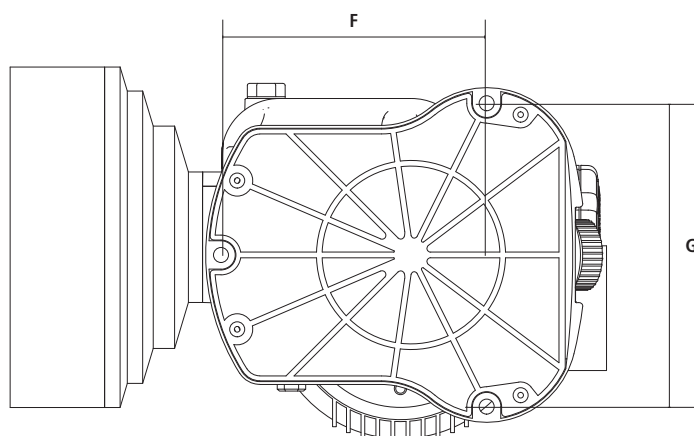
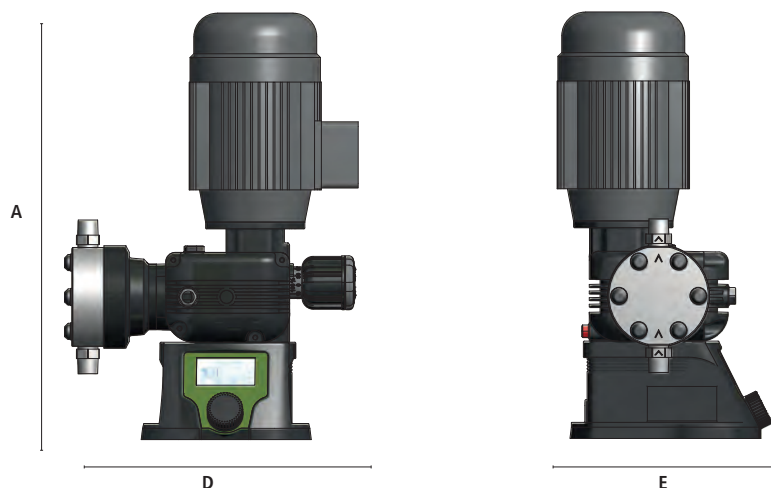
Dimensions

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

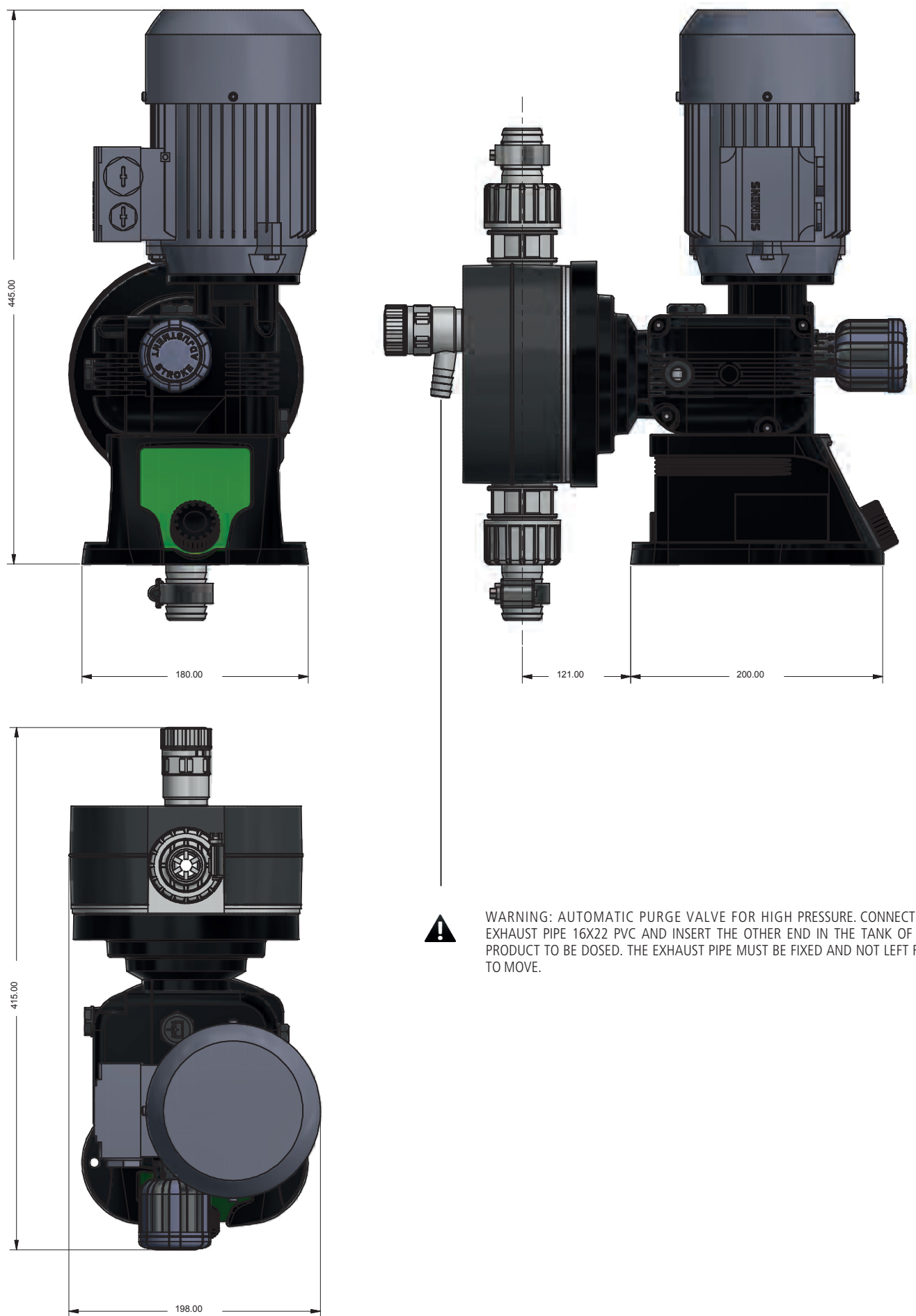


DIMENSIONS (mm)	
	UM pump (PP)
A	440 (0,37 kW) , 540 (0,55 kW)
B	200
C	340
D	340
E	200
F	140
G	160
Ø fixing hole	8

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



DIMENSIONS (MM) PRIUS WITH UMS PUMP HEAD (0,37KW)



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Specifications subject to change without notice | R2025

