

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 for low power ratings
- 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

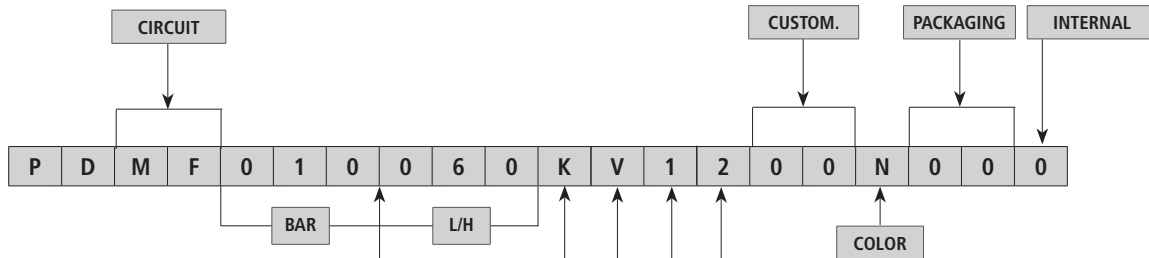


STANDARD MOUNTING



ROTATED MOUNTING

Identification code



CAPACITY			
50 Hz		60 Hz	
010060	60 l/h @ 10 bar	010055	55 l/h @ 10 bar
010105	105 l/h @ 10 bar	010027	27 l/h @ 10 bar
007160	160 l/h @ 7 bar	010014	14 l/h @ 7 bar
005240	240 l/h @ 5 bar	010100	100 l/h @ 10 bar
005350	350 l/h @ 5 bar	010050	50 l/h @ 10 bar
005440	440 l/h @ 5 bar	010025	25 l/h @ 10 bar
005530	530 l/h @ 5 bar	007150	150 l/h @ 7 bar
010030	30 l/h @ 10 bar	007075	75 l/h @ 7 bar
010056	56 l/h @ 10 bar	007037	37 l/h @ 7 bar
007086	86 l/h @ 7 bar	005230	230 l/h @ 5 bar
005128	128 l/h @ 5 bar	005115	115 l/h @ 5 bar
005188	188 l/h @ 5 bar	005057	57 l/h @ 5 bar
005236	236 l/h @ 5 bar	005335	335 l/h @ 5 bar
005284	284 l/h @ 5 bar	005165	165 l/h @ 5 bar
010024	24 l/h @ 10 bar	005084	84 l/h @ 5 bar
010042	42 l/h @ 10 bar	005420	420 l/h @ 5 bar
007064	64 l/h @ 7 bar	005210	210 l/h @ 5 bar
005096	96 l/h @ 5 bar	005105	105 l/h @ 5 bar
005140	140 l/h @ 5 bar	005505	505 l/h @ 5 bar
005176	176 l/h @ 5 bar	005250	250 l/h @ 5 bar
005212	212 l/h @ 5 bar	005126	126 l/h @ 5 bar
010012	12 l/h @ 10 bar		
010016	16 l/h @ 10 bar		
010004	4 l/h @ 100 bar		
010002	2 l/h @ 100 bar		
060017	17 l/h @ 60 bar		
060009	9 l/h @ 60 bar		
040028	28 l/h @ 40 bar		
040015	15 l/h @ 40 bar		
030076	76 l/h @ 30 bar		
030041	41 l/h @ 30 bar		
020146	146 l/h @ 20 bar		
020078	78 l/h @ 20 bar		

PUMP HEAD MATERIAL	
K	PVDF
S	SS
P	PP

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

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

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



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



Via Donatori di sangue, 1 - 02100 Rieti - Italy
Tel. +39 0746 2284 1 - Fax +39 0746 2284 2 - http://www.emec.it

Specifications subject to change without notice.
EN R1-02-16

Multi-Function motor driven diaphragm metering pump

“PRIUS D MF” SERIES - SINGLE PHASE SUPPLY

Features

- Aluminium enclosure (epoxy coating)
- Spring return mechanism
- Power supply: 220-240 V - Δ/Y connection
- 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	ACCESSORIES
						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						
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.)	TM	A
007086		86		94						
007064		64		70						
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.)	UM	B
005128		128		94						
005096		96		70						
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						
005440	5	440	5 mm	175	0,37 kW	G1-1/2" 30 mm (i.d.)	R1"	G1-1/2" 30 mm (i.d.)	UM	C
005236		236		94						
005176		176		70						
005530	5	530	6 mm	175	0,37 kW	G1-1/2" 30 mm (i.d.)	R1"	G1-1/2" 30 mm (i.d.)	UM	C
005284		284		94						
005212		212		70						

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			
060017	60	17	2 mm	175	0,37 kW	1/2"	M1
060009		9		94			
040028	40	28	2 mm	175	0,37 kW	1/2"	N
040015		15		94			
030076	30	76	4 mm	175	0,37 kW	1/2"	S
030041		41		94			
020146	20	146	6 mm	175	0,37 kW	3/4"	T
020078		78		94			