

Section 5

Motor Driven Metering Pumps

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EMEC PRIUS D

Diaphragm Metering Pumps

Standard Features:

- Positive Displacement Pump with Spring Return Mechanism
- Stroke Length Adjustable from 0-100%
- Dosing Heads in PVDF, PP and SS
- Aluminium Enclosure with Chemical Resistant Epoxy Coating
- Manual Degassing Valve (PVDF & PP)
- Single Phase or 3 Phase
- Double Ball Check Valves
- ATEX (Explosive Atmosphere) Certified Versions also Available on Request
- 2 Year Warranty*

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Robust and accurate, these industrial quality pumps have been developed for reliable metering in larger commercial and industrial applications. With pressure capabilities up to 100 Bar and flow rates up to 1000 l/h, there is a PRIUS model suitable for most applications.

Specifications:

Power Supply	220-240V Single phase or 230/400V three phase
Chemical Temperature for PVDF**	-10 to 65°C
Chemical Temperature for SS**	-10 to 90°C
Chemical Temperature for PP	-10 to 40°C
Insulation	Class 2
Protection	IP55 standard, IP65 optional, ATEX options on request
Audible Level	78 dba (±5)
Max Suction Height	3M
Oil Capacity	0.3L

NOTE: ** Maximum Temperature can be exceeded for a short time during CIP.
Protection against blocked discharge is recommended for motor pumps.

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EMEC PRIUS D

Diaphragm Metering Pumps

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Sizes:

Model	Pressure Bar	Capacity l/h	Speed SPM	Pump Head	Installation Kit
010012	10	12	35	PVDF, SS, PP	A (Included)
010021	10	21	35	PVDF, SS, PP	A (Included)
010024	10	24	70	PVDF, SS, PP	A (Included)
010030	10	30	94	PVDF, SS, PP	A (Included)
007032	7	32	35	PVDF, SS, PP	A (Included)
010042	10	42	70	PVDF, SS, PP	A (Included)
005048	5	48	35	PVDF, SS, PP	B
010056	10	56	94	PVDF, SS, PP	A (Included)
010060	10	60	175	PVDF, SS, PP	A (Included)
007064	7	64	70	PVDF, SS, PP	A (Included)
005070	5	70	35	PVDF, SS, PP	C
007086	7	86	94	PVDF, SS, PP	A (Included)
005088	5	88	35	PVDF, SS, PP	C
005096	5	96	70	PVDF, SS, PP	B
010105	10	105	175	PVDF, SS, PP	A (Included)
005106	5	106	35	PVDF, SS, PP	C
005128	5	128	94	PVDF, SS, PP	B

More sizes next page

NOTE: B & C Installation Kits - sold separately when required for application. Installation kits do not fit SS pumps.

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EMEC PRIUS D

Diaphragm Metering Pumps

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Sizes:

Model	Pressure Bar	Capacity l/h	Speed SPM	Pump Head	Installation Kit
005140	5	140	70	PVDF, SS, PP	C
005141 *	5	141	35	PVDF, SS, PP	C
007160	7	160	175	PVDF, SS, PP	A (Included)
005176	5	176	70	PVDF, SS, PP	C
005188	5	188	94	PVDF, SS, PP	C
005212	5	212	70	PVDF, SS, PP	C
005236	5	236	94	PVDF, SS, PP	C
005240	5	240	175	PVDF, SS, PP	B
005284	5	284	94	PVDF, SS, PP	C
005350	5	350	175	PVDF, SS, PP	C
005440	5	440	175	PVDF, SS, PP	C
004520 *	4	520	94	PVDF, SS, PP	C
005520 *	5	520	94	PVDF, SS, PP	C
005530	5	530	175	PVDF, SS, PP	C
003750 *	3	750	175	PVDF, SS, PP	C
005750 *	5	750	175	PVDF, SS, PP	C
002M00 *	2	1000	175	PVDF, SS, PP	C
005M00 *	5	1000	175	PVDF, SS, PP	C

* 3 phase only

NOTE: B & C Installation Kits - sold separately when required for application. Installation kits do not fit SS pumps.

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Motor Driven Metering Pumps

EMEC PRIUS D AP

High Pressure Diaphragm Metering Pumps



Sizes:

Model	Pressure Bar	Capacity l/h	Speed SPM	Pump Head	Motor Size kW
10001.5	100	1.5	70	SS	0.37
100002	100	2	94	SS	0.37
05002.5	50	2.5	35	SS	0.37
100004	100	4	175	SS	0.37
030005	30	5	35	SS	0.37
050005	50	5	70	SS	0.37
020006 *	20	6	35	PVDF	0.37
050009	50	9	94	SS	0.37
030010	30	10	70	SS	0.37
020012 *	20	12	94	PVDF	0.37
030014	30	14	94	SS	0.37
030015	30	15	35	SS	0.37
020016 *	20	16	70	PVDF	0.37
050017	50	17	175	SS	0.37
030028	30	28	175	SS	0.37
020030 *	20	30	35	PVDF	0.37
030030	30	30	70	SS	0.37
020034	20	34	35	SS	0.37
030041	30	41	94	SS	0.37
020068	20	68	70	SS	0.37
030076	30	76	175	SS	0.37
020091	20	91	94	SS	0.37, 0.55
020170	20	170	175	SS	0.37, 0.55

* 3 phase only

NOTE: B & C Installation Kits - sold separately when required for application. Installation kits do not fit SS pumps.

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EMEC PRIUS D MF

Diaphragm Metering Pumps

Standard Features:

- Motor Driven Diaphragm Pump with Built-in Speed Control
- Stroke Length Adjustable from 0-100%
- Level Control
- Alarms
- Aluminium Enclosure with Chemical Resistant Epoxy Coating. IP55.
- Manual Degassing Valve
- Single Phase
- IP55
- Modbus Option Available
- 2 Year Warranty*

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Alternate

Default

The PRIUS D MF version has sophisticated electronics built-in. These versatile pumps can accept a range of standard process signals and a weekly timer, for automatic control. With pressure capabilities up to 100 Bar and flow rates up to 1000 l/h, there is a PRIUS model suitable for most applications.

Options:

Power Supply	220 - 240VAC 1PH
Pump Heads Available in	PVDF, PP or SS
Chemical temperature for PVDF	-10 to 65°C
Chemical temperature for SS	-10 to 90°C
Chemical temperature for PP	-10 to 40°C
Insulation	Class 2
Protection	IP55 standard, IP65 optional.
Audible Level	78 dba (±5)
Max Suction Height	3M
Oil Capacity	0.3L
Operating Modes	Constant, PPM, %, mlq, mA, volt, batch, pause/Work, low Chemical Level Input, alarm output, standby Input

NOTE: Protection against blocked discharge is recommended for motor pumps.

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Motor Driven Metering Pumps

EMEC PRIUS D MF

Diaphragm Metering Pumps



Sizes:

Model	Pressure Bar	Capacity l/h	Speed SPM	Pump Head	Motor Size kW	Installation Kit
010012	10	12	35	PVDF, SS, PP	0.18	A (Included)
010016	10	16	35	PVDF, SS, PP	0.18	A (Included)
010021	10	21	35	PVDF, SS, PP	0.37	A (Included)
010024	10	24	70	PVDF, SS, PP	0.18	A (Included)
010030	10	30	94	PVDF, SS, PP	0.18	A (Included)
007032	7	32	35	PVDF, SS, PP	0.37	A (Included)
010042	10	42	70	PVDF, SS, PP	0.37	A (Included)
005048	5	48	35	PVDF, SS, PP	0.37	B
010056	10	56	94	PVDF, SS, PP	0.37	A (Included)
010060	10	60	175	PVDF, SS, PP	0.18	A (Included)
007064	7	64	70	PVDF, SS, PP	0.37	A (Included)
005070	5	70	35	PVDF, SS, PP	0.37	C
007086	7	86	94	PVDF, SS, PP	0.37	A (Included)
005088	5	88	35	PVDF, SS, PP	0.37	C
005096	5	96	70	PVDF, SS, PP	0.37	B
010105	10	105	175	PVDF, SS, PP	0.37	A (Included)
005106	5	106	35	PVDF, SS, PP	0.37	C
005128	5	128	94	PVDF, SS, PP	0.37	B
005140	5	140	70	PVDF, SS, PP	0.37	C
005141	5	141	35	PVDF, SS, PP	0.37	C

More sizes next page

NOTE: B & C Installation Kits - sold separately when required for application. Installation kits do not fit SS pumps.

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EMEC PRIUS D MF

Diaphragm Metering Pumps

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Sizes:

Model	Pressure Bar	Capacity l/h	Speed SPM	Pump Head	Motor Size kW	Installation Kit
007160	7	160	175	PVDF, SS, PP	0.37	A (Included)
005176	5	176	70	PVDF, SS, PP	0.37	C
005180	5	180	35	PVDF, SS, PP	0.37	C
005188	5	188	94	PVDF, SS, PP	0.37	C
005212	5	212	70	PVDF, SS, PP	0.37	C
005236	5	236	94	PVDF, SS, PP	0.37	C
005240	5	240	175	PVDF, SS, PP	0.37	B
005284	5	284	94	PVDF, SS, PP	0.37	C
005290	5	290	70	PVDF, SS, PP	0.37	C
005350	5	350	175	PVDF, SS, PP	0.37	C
005380	5	380	94	PVDF, SS, PP	0.37	C
005390	5	390	70	PVDF, SS, PP	0.37	C
005440	5	440	175	PVDF, SS, PP	0.37	C
004520	4	520	94	PVDF, SS, PP	0.37	C
005530	5	530	175	PVDF, SS, PP	0.37	C
003750	3	750	175	PVDF, SS, PP	0.37	C
002M00	2	1000	175	PVDF, SS, PP	0.37	C
005M00	5	1000	175	PVDF, PP	0.55	C

NOTE: B & C Installation Kits - sold separately when required for application. Installation kits do not fit SS pumps.

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Motor Driven Metering Pumps

EMEC PRIUS D MF AP

High Pressure Diaphragm Metering Pumps



PRIUS



Sizes:

Model	Pressure Bar	Capacity l/h	Speed SPM	Pump Head	Motor Size kW
10001.5	100	1.5	70	SS	0.37
100002	100	2	94	SS	0.37
05002.5	50	2.5	35	SS	0.37
100004	100	4	175	SS	0.37
050005	50	5	70	SS	0.37
030005	30	5	35	SS	0.37
050009	50	9	94	SS	0.37
030010	30	10	70	SS	0.37
030014	30	14	35	SS	0.37
030015	30	15	94	SS	0.37
050017	50	17	175	SS	0.37
030028	30	28	175	SS	0.37
030030	30	30	70	SS	0.37
020034	20	34	94	SS	0.37
030041	30	41	94	SS	0.37
020068	20	68	70	SS	0.37
030076	30	76	175	SS	0.37
020091	20	91	94	SS	0.37

NOTE: Accessories for SS pumps are ordered separately.

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EMEC PRIUS P

Plunger Metering Pumps

Standard Features:

- PP or SS Pump Head
- Stainless or Ceramic Plunger
- Aluminium Enclosure with Chemical Resistant Epoxy Coating
- Stroke Length Adjustable from 0-100%
- ATEX (Explosive Atmosphere) Versions also available
- 220-240VAC Single Phase or 230/400V 3 Phase
- 2 Year Warranty*

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Sizes:

Model	Pressure Bar	Capacity l/h	Speed SPM	Installation Kit
010005	10	5	35	A (Included)
010010	10	10	70	A (Included)
010013	10	13	94	A (Included)
010016	10	16	35	A (Included)
010024	10	24	175	A (Included)
010026	10	26	35	A (Included)
010032	10	32	70	A (Included)
010042	10	42	35	B
010043	10	43	94	A (Included)
010052	10	52	70	A (Included)
010064	10	64	35	B
010070	10	70	94	A (Included)
010080	10	80	175	A (Included)
010084	10	84	70	B
007101 *	7	101	35	C
010113	10	113	94	B
010128	10	128	70	B
010130	10	130	175	A (Included)
010172	10	172	94	B
007203 *	7	203	70	C
010210	10	210	175	B
007273 *	7	273	94	C
010320	10	320	175	B
007508 *	7	508	175	C

NOTE: B & C Installation Kits - sold separately when required for application. * Available in SS only.

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Motor Driven Metering Pumps

EMEC PRIUS P MF

Plunger Metering Pumps

Standard Features:

- Motor Driven Plunger Pump with Built-in Speed Control
- Stroke length Adjustable from 0-100%
- PP or SS Head, Ceramic or Stainless Plunger
- Working Modes: Constant, PPM, %, mA Volt, Batch
- Level Control
- Alarms
- Aluminium Enclosure with Chemical Resistant Epoxy Coating. IP55
- Single Phase
- 2 Year Warranty*



Sizes:

Model	Pressure Bar	Capacity l/h	Speed SPM	Installation Kit
010005	10	5	35	A (Included)
010010	10	10	70	A (Included)
010013	10	13	94	A (Included)
010016	10	16	35	A (Included)
010024	10	24	175	A (Included)
010026	10	26	35	A (Included)
010032	10	32	70	A (Included)
010042	10	42	35	B
010043	10	43	94	A (Included)
010052	10	52	70	A (Included)
010064	10	64	35	B
010070	10	70	94	A (Included)
010080	10	80	175	A (Included)
010084	10	84	70	B
010113	10	113	94	B
010128	10	128	70	B
010130	10	130	175	A (Included)
010172	10	172	94	B
010210	10	210	175	B
010320	10	320	175	B

NOTE: B & C Installation Kits - sold separately when required for application.
Installation kits do not fit pumps with SS heads.
Protection against blocked discharge is recommended for motor pumps.

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