PRIUS D



PVDF PUMP HEAD



PP PUMP HEAD



SS PUMP HEAD



UMS PUMP HEAD

MOTOR DRIVEN DIAPHRAGM METERING PUMP

SPRING RETURN MECHANISM

EN

OPERATING MANUAL

04-02-21



THIS OPERATING INSTRUCTIONS CONTAINS SAFETY INFORMATION THAT IF IGNORED CAN ENDANGER LIFE OR RESULT IN SERIOUS INJURY.

READ THESE INSTRUCTIONS **CAREFULLY** BEFORE USE AND KEEP THEM FOR FUTURE REFERENCE.
THE ORIGINAL INSTRUCTION IS IN ITALIAN. ALL NON-ITALIAN INSTRUCTIONS ARE TRANSLATIONS OF THE ORIGINAL INSTRUCTION.
INFORMATION AND SPECIFICATIONS ON THIS MANUAL COULD BE UNCORRECT OR COULD HAVE PRINTING ERRORS.
SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

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GENERAL SAFETY GUIDELINES

Operating, installing, or maintaining the unit in any way that is not covered in this manual could cause death, serious personal injury, or damage to the equipment.

ICON

This manual use the following safety message icon:

Danger!
Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

Warning!
Indicates a hazardous situation which, if not avoided, could result in death or serious injury

Important - A practice not related to personal injury or additional information.

METERING PUMP IS INTENDED FOR CHEMICAL DOSING.

Use of this pump with radioactive chemicals is forbidden!

Keep the pump protected from sun and water. Avoid water splashes.

In emergencies the pump should be switched off immediately! Disconnect the power cable from the power supply!

When using pump with aggressive chemicals observe the regulations concerning the transport and storage of aggressive fluids!

When installing always observe national regulations!

Manufacturer is not liable for any unauthorized use or misuse of this product that may cause injury, damage to persons or materials.

Pump must be accessible at all times for both operating and servicing. Access must not be obstructed in any way!

Feeder should be interlocked with a no-flow protection device.

Pump and accessories must be serviced and repaired by qualified and authorized personnel only!

Before any operation:

- **always read chemical Material Safety Data Sheet (MSDS);**
- **always wear protective clothing;**
- **always discharge the liquid end before servicing the pump!**
- **empty and rinse the liquid end before work on a pump which has been used with hazardous or unknown chemicals!**

1. DESCRIPTION

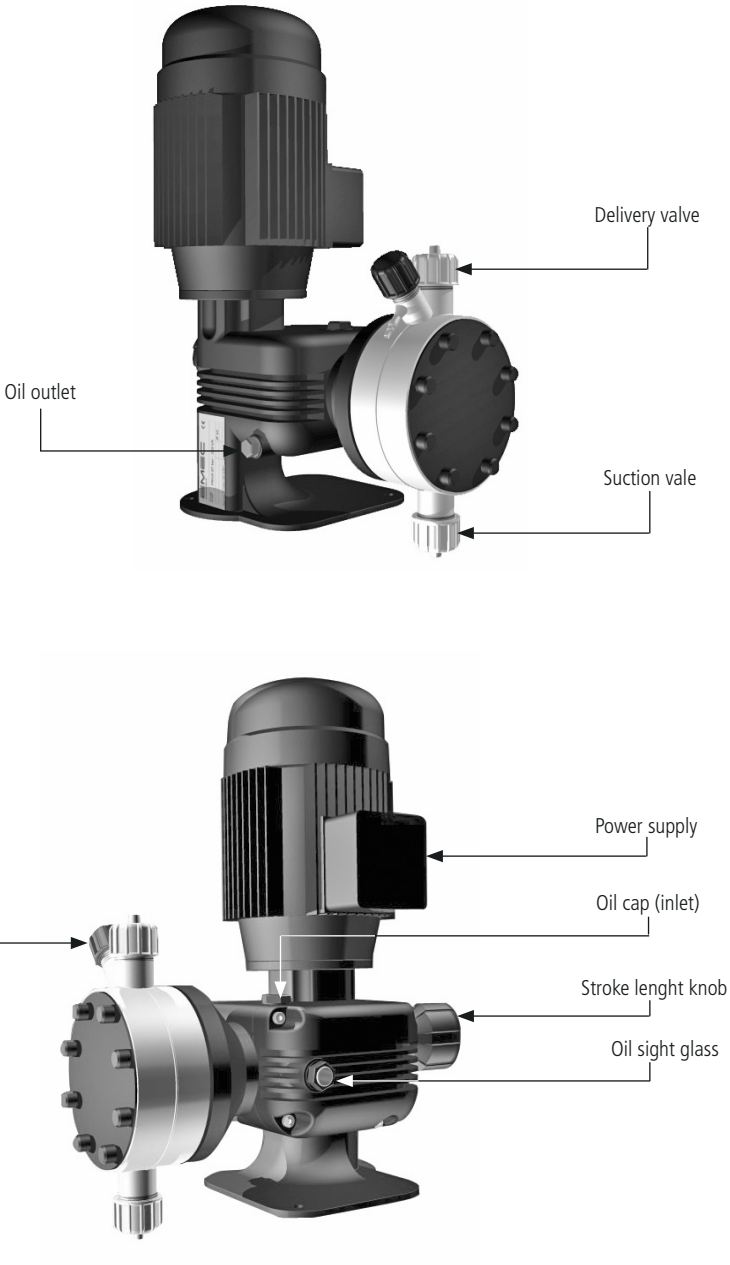
1.1 PRIUS Series

PRIUS series is a motor-driven diaphragm series pumps with spring return mechanism.
The mechanical diaphragm produces the flow thanks to the suction and delivery valves on the pump head
PRIUS is a constant dosing pump.
Flow rate is determined by the stroke length. The stroke length is adjustable from 0 to 100% using the stroke length adjustment knob.

Some functions described into this manual may need accessories not included into the pump packaging.

PLEASE DO NOT TRASH PACKAGING. IT CAN BE USED TO RETURN THE PUMP.

Fig. 1. PRIUS pump



1.3 Features

Power supply.....220-240/380-420 V - 50 Hz 3-PHASE
.....220/380 V - 60 Hz 3-PHASE
.....440/480 V - 60HZ 3-PHASE
.....220-240 V - 50 Hz SINGLE-PHASE
Aluminium enclosure
Spring return mechanism
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
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.

Tab. 1. Diaphragm replacement

LIQUID ENDS				
CODE	Pump head	O-ring	Valve	Chemical temperature
			Balls	
K	PVDF	FKM B or EPDM	Ceramic	0-65°C (32-149°F)
S	SS	FKM B or EPDM	Stainless steel	0-90°C (32-164°F)
P	PP	FKM B or EPDM	Ceramic	0-40°C (32-104°F)

1.3.1 Diaphragm

To prevent damages due to diaphragm rupture, replace the diaphragm according to the use as on the table below.

SUGGESTED REPLACEMENT FOR 24H WORKING PUMP	
PTFE	10.000 operating hours (24h)

Tab. 2. Reduction factor for different site altitudes.

Site altitude above sea level	Site altitude above sea level coolant temperature		
m	<30 °C	30 °C ... 40 °C	45 °C
1000	1,07	1	0,96
1500	1,04	0,97	0,93
2000	1	0,94	0,9
2500	0,96	0,9	0,86
3000	0,92	0,86	0,82
3500	0,88	0,82	0,79
4500	0,82	0,77	0,74

PRIUS D DIAPHRAGM 50Hz

1 | code PD00						pump head |	PVDF		AISI 316L		PP		Kit instal-lation
2 | bar	3 | l/h	p.h.	stroke mm	spm	6 | reduction	7 | motor	hoses connection	4 | K	hoses connection	4 | S	hoses connection	4 | P	
10	60	NM	3	175	1 8:1	1 0,18 kW	G 1/2" 13 mm (i.d.)		R 1/2"		G 1/2" 13 mm (i.d.)		A
10	30	NM	3	94	2 15:1	1 0,18 kW	G 1/2" 13 mm (i.d.)		R 1/2"		G 1/2" 13 mm (i.d.)		A
10	24	NM	3	70	4 20:1	1 0,18 kW	G 1/2" 13 mm (i.d.)		R 1/2"		G 1/2" 13 mm (i.d.)		A
10	12	NM	3	35	5 40:1	1 0,18 kW	G 1/2" 13 mm (i.d.)		R 1/2"		G 1/2" 13 mm (i.d.)		A
10	16	NM	4	35	5 40:1	1 0,18 kW	G 1/2" 13 mm (i.d.)		R 1/2"		G 1/2" 13 mm (i.d.)		A
10	105	TM	3	175	1 8:1	2 0,37 kW	G 3/4" 13 mm (i.d.)		R 3/4"		G 3/4" 13 mm (i.d.)		A
10	56	TM	3	94	2 15:1	2 0,37 kW	G 3/4" 13 mm (i.d.)		R 3/4"		G 3/4" 13 mm (i.d.)		A
10	42	TM	3	70	4 20:1	2 0,37 kW	G 3/4" 13 mm (i.d.)		R 3/4"		G 3/4" 13 mm (i.d.)		A
10	21	TM	3	35	5 40:1	2 0,37 kW	G 3/4" 13 mm (i.d.)		R 3/4"		G 3/4" 13 mm (i.d.)		A
7	160	TM	4	175	1 8:1	2 0,37 kW	G 3/4" 13 mm (i.d.)		R 3/4"		G 3/4" 13 mm (i.d.)		A
7	86	TM	4	94	2 15:1	2 0,37 kW	G 3/4" 13 mm (i.d.)		R 3/4"		G 3/4" 13 mm (i.d.)		A
7	64	TM	4	70	4 20:1	2 0,37 kW	G 3/4" 13 mm (i.d.)		R 3/4"		G 3/4" 13 mm (i.d.)		A
7	32	TM	4	35	5 40:1	2 0,37 kW	G 3/4" 13 mm (i.d.)		R 3/4"		G 3/4" 13 mm (i.d.)		A
5	240	TM	6	175	1 8:1	2 0,37 kW	G 3/4" 18 mm (i.d.)		R 3/4"		G 3/4" 18 mm (i.d.)		B
5	128	TM	6	94	2 15:1	2 0,37 kW	G 3/4" 18 mm (i.d.)		R 3/4"		G 3/4" 18 mm (i.d.)		B
5	96	TM	6	70	4 20:1	2 0,37 kW	G 3/4" 18 mm (i.d.)		R 3/4"		G 3/4" 18 mm (i.d.)		B
5	48	TM	6	35	5 40:1	2 0,37 kW	G 3/4" 18 mm (i.d.)		R 3/4"		G 3/4" 18 mm (i.d.)		B
2	1000	UMS	10	175	1 8:1	2 0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	1000	UMS	10	175	1 8:1	L 0,55 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	520	UMS	10	94	2 15:1	2 0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
4	520	UMS	10	94	2 15:1	2 0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	390	UMS	10	70	4 20:1	2 0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	180	UMS	10	35	5 40:1	2 0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	350	UMS	4	175	1 8:1	2 0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	188	UMS	4	94	2 15:1	2 0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	140	UMS	4	70	4 20:1	2 0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	70	UMS	4	35	5 40:1	2 0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	440	UMS	5	175	1 8:1	2 0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	236	UMS	5	94	2 15:1	2 0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	176	UMS	5	70	4 20:1	2 0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	88	UMS	5	35	5 40:1	2 0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	530	UMS	6	175	1 8:1	2 0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	284	UMS	6	94	2 15:1	2 0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	212	UMS	6	70	4 20:1	2 0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	106	UMS	6	35	5 40:1	2 0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
3	750	UMS	8	175	1 8:1	2 0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	750	UMS	8	175	1 8:1	L 0,55 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	380	UMS	8	94	2 15:1	2 0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	290	UMS	8	70	4 20:1	2 0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	141	UMS	8	35	5 40:1	2 0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C

PRIUS D DIAPHRAGM 50Hz SINGLE-PHASE HIGH PRESSURE

1 | code PD00						pump head |	AISI 316L	
2 | bar	3 | l/h	p.h.	stroke mm	spm	6 | reduction	7 | motor	hoses connection	4 | S
100	4	LM AP	1.5	175	1 8:1	6 0,37 kW	R 3/8"	
100	2	LM AP	1.5	94	2 15:1	6 0,37 kW	R 3/8"	
100	1,5	LM AP	1.5	70	4 20:1	6 0,37 kW	R 3/8"	
50	17	MM AP	2	175	1 8:1	6 0,37 kW	R 1/2"	
50	9	MM AP	2	94	2 15:1	6 0,37 kW	R 1/2"	
50	5	MM AP	2	70	4 20:1	6 0,37 kW	R 1/2"	
50	2,5	MM AP	2	35	5 40:1	6 0,37 kW	R 1/2"	
30	28	NM AP	2	175	1 8:1	6 0,37 kW	R 1/2"	
30	14	NM AP	2	94	2 15:1	6 0,37 kW	R 1/2"	
30	10	NM AP	2	70	4 20:1	6 0,37 kW	R 1/2"	
30	5	NM AP	2	35	5 40:1	6 0,37 kW	R 1/2"	
30	76	SM AP	4	175	1 8:1	6 0,37 kW	R 1/2"	
30	41	SM AP	4	94	2 15:1	6 0,37 kW	R 1/2"	
30	30	SM AP	4	70	4 20:1	6 0,37 kW	R 1/2"	
30	15	SM AP	4	35	5 40:1	6 0,37 kW	R 1/2"	
20	170	TM AP	6	175	1 8:1	8 0,55 kW	R 3/4"	
20	91	TM AP	6	94	2 15:1	8 0,55 kW	R 3/4"	
20	68	TM AP	6	70	4 20:1	6 0,37 kW	R 3/4"	
20	34	TM AP	6	35	5 40:1	6 0,37 kW	R 3/4"	

PRIUS D DIAPHRAGM 50Hz SINGLE-PHASE

1 | code PD00						pump head |	PVDF		AISI 316L		PP		Kit instal-lation
2 | bar	3 | l/h	p.h.	stroke mm	spm	6 | reduction	7 | motor	hoses connection	4 | K	hoses connection	4 | S	hoses connection	4 | P	
10	60	NM	3	175	1 8:1	6 0,37 kW	G 1/2" 13 mm (i.d.)		R 1/2"		G 1/2" 13 mm (i.d.)		A
10	30	NM	3	94	2 15:1	6 0,37 kW	G 1/2" 13 mm (i.d.)		R 1/2"		G 1/2" 13 mm (i.d.)		A
10	24	NM	3	70	4 20:1	6 0,37 kW	G 1/2" 13 mm (i.d.)		R 1/2"		G 1/2" 13 mm (i.d.)		A
10	12	NM	3	35	5 40:1	6 0,37 kW	G 1/2" 13 mm (i.d.)		R 1/2"		G 1/2" 13 mm (i.d.)		A
10	105	TM	3	175	1 8:1	6 0,37 kW	G 3/4" 13 mm (i.d.)		R 3/4"		G 3/4" 13 mm (i.d.)		A
10	56	TM	3	94	2 15:1	6 0,37 kW	G 3/4" 13 mm (i.d.)		R 3/4"		G 3/4" 13 mm (i.d.)		A
10	42	TM	3	70	4 20:1	6 0,37 kW	G 3/4" 13 mm (i.d.)		R 3/4"		G 3/4" 13 mm (i.d.)		A
10	21	TM	3	35	5 40:1	6 0,37 kW	G 3/4" 13 mm (i.d.)		R 3/4"		G 3/4" 13 mm (i.d.)		A
7	160	TM	4	175	1 8:1	6 0,37 kW	G 3/4" 13 mm (i.d.)		R 3/4"		G 3/4" 13 mm (i.d.)		A
7	86	TM	4	94	2 15:1	6 0,37 kW	G 3/4" 13 mm (i.d.)		R 3/4"		G 3/4" 13 mm (i.d.)		A
7	64	TM	4	70	4 20:1	6 0,37 kW	G 3/4" 13 mm (i.d.)		R 3/4"		G 3/4" 13 mm (i.d.)		A
7	32	TM	4	35	5 40:1	6 0,37 kW	G 3/4" 13 mm (i.d.)		R 3/4"		G 3/4" 13 mm (i.d.)		A
5	240	TM	6	175	1 8:1	6 0,37 kW	G 3/4" 18 mm (i.d.)		R 3/4"		G 3/4" 18 mm (i.d.)		B
5	128	TM	6	94	2 15:1	6 0,37 kW	G 3/4" 18 mm (i.d.)		R 3/4"		G 3/4" 18 mm (i.d.)		B
5	96	TM	6	70	4 20:1	6 0,37 kW	G 3/4" 18 mm (i.d.)		R 3/4"		G 3/4" 18 mm (i.d.)		B
5	48	TM	6	35	5 40:1	6 0,37 kW	G 3/4" 18 mm (i.d.)		R 3/4"		G 3/4" 18 mm (i.d.)		B
5	350	UMS	4	175	1 8:1	8 0,55 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	188	UMS	4	94	2 15:1	6 0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	140	UMS	4	70	4 20:1	6 0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	70	UMS	4	35	5 40:1	6 0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	440	UMS	5	175	1 8:1	8 0,55 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	236	UMS	5	94	2 15:1	6 0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	176	UMS	5	70	4 20:1	6 0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	88	UMS	5	35	5 40:1	6 0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	530	UMS	6	175	1 8:1	8 0,55 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	284	UMS	6	94	2 15:1	6 0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	212	UMS	6	70	4 20:1	6 0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	106	UMS	6	35	5 40:1	6 0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C

PRIUS D DIAPHRAGM 50Hz HIGH PRESSURE

1 | code PD00						pump head |	AISI 316L		PVDF	
2 | bar		p.h.	stroke mm	spm	6 | reduction	7 | motor	hoses connec-	4 | S	hoses connection	4 | K
100	4	LM AP	1.5	175	1 8:1	2 0,37 kW	R 3/8"		-	/
100	2	LM AP	1.5	94	2 15:1	2 0,37 kW	R 3/8"		-	/
100	1,5	LM AP	1.5	70	4 20:1	2 0,37 kW	R 3/8"		-	/
50	17	MM AP	2	175	1 8:1	2 0,37 kW	R 1/2"		-	/
50	9	MM AP	2	94	2 15:1	2 0,37 kW	R 1/2"		-	/
50	5	MM AP	2	70	4 20:1	2 0,37 kW	R 1/2"		-	/
50	2,5	MM AP	2	35	5 40:1	2 0,37 kW	R 1/2"		-	/
30	28	NM AP	2	175	1 8:1	2 0,37 kW	R 1/2"		-	/
30	14	NM AP	2	94	2 15:1	2 0,37 kW	R 1/2"		-	/
30	10	NM AP	2	70	4 20:1	2 0,37 kW	R 1/2"		-	/
30	5	NM AP	2	35	5 40:1	2 0,37 kW	R 1/2"		-	/
30	76	SM AP	4	175	1 8:1	2 0,37 kW	R 1/2"		-	/
30	41	SM AP	4	94	2 15:1	2 0,37 kW	R 1/2"		-	/
30	30	SM AP	4	70	4 20:1	2 0,37 kW	R 1/2"		-	/
30	15	SM AP	4	35	5 40:1	2 0,37 kW	R 1/2"		-	/
20	170	TM AP	6	175	1 8:1	2 0,37 kW	R 3/4"		-	/
20	91	TM AP	6	94	2 15:1	2 0,37 kW	R 3/4"		-	/
20	68	TM AP	6	70	4 20:1	2 0,37 kW	R 3/4"		-	/
20	34	TM AP	6	35	5 40:1	2 0,37 kW	R 3/4"		-	/
20	30	NM AP	2	175	1 8:1	2 0,37 kW	R 3/4"	-	8x10 (PVDF) / 8x12 (PVC)	
20	16	NM AP	2	94	2 15:1	2 0,37 kW	R 3/4"	-	8x10 (PVDF) / 8x12 (PVC)	
20	12	NM AP	2	70	4 20:1	2 0,37 kW	R 3/4"	-	8x10 (PVDF) / 8x12 (PVC)	
20	6	NM AP	2	35	5 40:1	2 0,37 kW	R 3/4"	-	8x10 (PVDF) / 8x12 (PVC)	

PRIUS D DIAPHRAGM 50Hz ATEX 2G/2D

1 l code PD00							pump head l	II 2G Ex h IIC T3 Gb AISI 316L		II 2 D Ex h IIIC T120°C Db AISI 316L	
2 l bar	3 l l/h	p.h.	stroke mm	spm	6 l reduction	hoses connection	7 l motor	4 l S		7 l motor	4 l S
10	6	NM	1.5	35	5 40:1	R 1/2"	A 0,25 kW			B 0,25 kW	
10	60	NM	3	175	1 8:1	R 1/2"	A 0,25 kW			B 0,25 kW	
10	30	NM	3	94	2 15:1	R 1/2"	A 0,25 kW			B 0,25 kW	
10	24	NM	3	70	4 20:1	R 1/2"	A 0,25 kW			B 0,25 kW	
10	12	NM	3	35	5 40:1	R 1/2"	A 0,25 kW			B 0,25 kW	
10	16	NM	4	35	5 40:1	R 1/2"	A 0,25 kW			B 0,25 kW	
10	105	TM	3	175	1 8:1	R 3/4"	C 0,37 kW			D 0,37 kW	
10	56	TM	3	94	2 15:1	R 3/4"	C 0,37 kW			D 0,37 kW	
10	42	TM	3	70	4 20:1	R 3/4"	C 0,37 kW			D 0,37 kW	
10	21	TM	3	35	5 40:1	R 3/4"	C 0,37 kW			D 0,37 kW	
7	160	TM	4	175	1 8:1	R 3/4"	C 0,37 kW			D 0,37 kW	
7	86	TM	4	94	2 15:1	R 3/4"	C 0,37 kW			D 0,37 kW	
7	64	TM	4	70	4 20:1	R 3/4"	C 0,37 kW			D 0,37 kW	
7	32	TM	4	35	5 40:1	R 3/4"	C 0,37 kW			D 0,37 kW	
5	240	TM	6	175	1 8:1	R 3/4"	C 0,37 kW			D 0,37 kW	
5	128	TM	6	94	2 15:1	R 3/4"	C 0,37 kW			D 0,37 kW	
5	96	TM	6	70	4 20:1	R 3/4"	C 0,37 kW			D 0,37 kW	
5	48	TM	6	35	5 40:1	R 3/4"	C 0,37 kW			D 0,37 kW	

PRIUS D DIAPHRAGM HIGH PRESSURE 50Hz ATEX 2G/2D

1 l code PD00							pump head l	II 2G Ex h IIC T3 Gb AISI316L		II 2 D Ex h IIIC T120°C Db AISI316L	
2 l bar	3 l l/h	p.h.	stroke mm	spm	6 l reduction	hoses connection	7 l motor	4 l S		4 l S	
100	4	LM AP	1.5	175	1 8:1	R 3/8"	C 0,37 kW				
100	2	LM AP	1.5	94	2 15:1	R 3/8"	C 0,37 kW				
100	1,5	LM AP	1.5	70	4 20:1	R 3/8"	C 0,37 kW				
50	17	MM AP	2	35	5 40:1	R 1/2"	C 0,37 kW				
50	9	MM AP	2	94	2 15:1	R 1/2"	C 0,37 kW				
50	5	MM AP	2	70	4 20:1	R 1/2"	C 0,37 kW				
50	2,5	MM AP	2	35	5 40:1	R 1/2"	C 0,37 kW				
30	28	NM AP	2	175	1 8:1	R 1/2"	C 0,37 kW				
30	15	NM AP	2	94	2 15:1	R 1/2"	C 0,37 kW				
30	10	NM AP	2	70	4 20:1	R 1/2"	C 0,37 kW				
30	5	NM AP	2	35	5 40:1	R 1/2"	C 0,37 kW				
30	76	SM AP	4	175	1 8:1	R 1/2"	C 0,37 kW				
30	41	SM AP	4	94	2 15:1	R 1/2"	C 0,37 kW				
30	30	SM AP	4	70	4 20:1	R 1/2"	C 0,37 kW				
30	14	SM AP	4	35	5 40:1	R 1/2"	C 0,37 kW				
20	170	TM AP	6	175	1 8:1	R 3/4"	C 0,37 kW				
20	91	TM AP	6	94	2 15:1	R 3/4"	C 0,37 kW				
20	68	TM AP	6	70	4 20:1	R 3/4"	C 0,37 kW				
20	34	TM AP	6	35	5 40:1	R 3/4"	C 0,37 kW				

PRIUS D DIAPHRAGM 50Hz ATEX 3G/3D

1 | code PD00								II 3G Ex h IIC T3 Gc			II 3 D Ex h IIIC T120°C Dc			
							pump head |	PVDF	AISI316L	PP	pump head |	PVDF	AISI316L	PP	Kit instal-lation
2 | bar	3 | l/h	p.h.	stroke	spm	6 | reduction	7 | motor	4 | K	4 | S	4 | P	7 | motor	4 | K	4 | S	4 | P	
10	60	NM	3	175	1 8:1	A 0,18 kW		/		B 0,25 kW		/		A
10	30	NM	3	94	2 15:1	A 0,18 kW		/		B 0,25 kW		/		A
10	24	NM	3	70	4 20:1	A 0,18 kW		/		B 0,25 kW		/		A
10	12	NM	3	35	5 40:1	A 0,18 kW		/		B 0,25 kW		/		A
10	16	NM	4	35	5 40:1	A 0,18 kW		/		B 0,25 kW		/		A
10	105	TM	3	175	1 8:1	C 0,37 kW		/		D 0,37 kW		/		A
10	56	TM	3	94	2 15:1	C 0,37 kW		/		D 0,37 kW		/		A
10	42	TM	3	70	4 20:1	C 0,37 kW		/		D 0,37 kW		/		A
10	21	NM	3	35	5 40:1	C 0,37 kW		/		D 0,37 kW		/		A
7	160	TM	4	175	1 8:1	C 0,37 kW		/		D 0,37 kW		/		A
7	86	TM	4	94	2 15:1	C 0,37 kW		/		D 0,37 kW		/		A
7	64	TM	4	70	4 20:1	C 0,37 kW		/		D 0,37 kW		/		A
7	32	TM	4	35	5 40:1	C 0,37 kW		/		D 0,37 kW		/		A
5	240	TM	6	175	1 8:1	C 0,37 kW		/		D 0,37 kW		/		B
5	128	TM	6	94	2 15:1	C 0,37 kW		/		D 0,37 kW		/		B
5	96	TM	6	70	4 20:1	C 0,37 kW		/		D 0,37 kW		/		B
5	48	TM	6	35	5 40:1	C 0,37 kW		/		D 0,37 kW		/		B
5	1000	UMS	10	175	1 8:1	C 0,55 kW				B 0,25 kW				C
2	1000	UMS	10	175	1 8:1	C 0,37 kW				D 0,37 kW				C
5	520	UMS	10	94	2 15:1	C 0,37 kW				D 0,37 kW				C
4	520	UMS	10	94	2 15:1	C 0,37 kW				D 0,37 kW				C
5	390	UMS	10	70	4 20:1	C 0,37 kW				D 0,37 kW				C
5	180	UMS	10	35	5 40:1	C 0,37 kW				D 0,37 kW				C
5	350	UMS	4	175	1 8:1	C 0,37 kW				D 0,37 kW				C
5	188	UMS	4	94	2 15:1	C 0,37 kW				D 0,37 kW				C
5	140	UMS	4	70	4 20:1	C 0,37 kW				D 0,37 kW				C
5	70	UMS	4	35	5 40:1	C 0,37 kW				D 0,37 kW				C
5	440	UMS	5	175	1 8:1	C 0,37 kW				D 0,37 kW				C
5	236	UMS	5	94	2 15:1	C 0,37 kW				D 0,37 kW				C
5	176	UMS	5	70	4 20:1	C 0,37 kW				D 0,37 kW				C
5	88	UMS	5	35	5 40:1	C 0,37 kW				D 0,37 kW				C
5	530	UMS	6	175	1 8:1	C 0,37 kW				D 0,37 kW				C
5	284	UMS	6	94	2 15:1	C 0,37 kW				D 0,37 kW				C
5	212	UMS	6	70	4 20:1	C 0,37 kW				D 0,37 kW				C
5	106	UMS	6	35	5 40:1	C 0,37 kW				D 0,37 kW				C
5	750	UMS	8	175	1 8:1	C 0,55 kW				B 0,25 kW				C
3	750	UMS	8	175	1 8:1	C 0,37 kW				D 0,37 kW				C
5	380	UMS	8	94	2 15:1	C 0,37 kW				D 0,37 kW				C
5	290	UMS	8	70	4 20:1	C 0,37 kW				D 0,37 kW				C
5	141	UMS	8	35	5 40:1	C 0,37 kW				D 0,37 kW				C

PRIUS D DIAPHRAGM 60Hz ATEX 2G/2D HIGH PRESSURE

1 | code PD00							II 2G Ex h IIC T3 Gb	II 2 D Ex h IIIC T120°C Db
						pump head |	AISI316L	AISI316L
2 | bar	3 | l/h	p.h.	stroke mm	spm	6 | reduction	hoses connection	7 | motor	4 | S	4 | S
100	3	LM AP	1.5	175	3 10:1	R 3/8"	D 0,43 kW		
100	1,5	LM AP	1.5	70	4 20:1	R 3/8"	D 0,43 kW		
50	14	MM AP	2	175	3 10:1	R 1/2"	V 0,43 kW		
50	7	MM AP	2	87	4 20:1	R 1/2"	V 0,43 kW		
50	3,5	MM AP	2	44	5 40:1	R 1/2"	V 0,43 kW		
30	26	NM AP	2	175	3 10:1	R 1/2"	V 0,43 kW		
30	13	NM AP	2	87	4 20:1	R 1/2"	V 0,43 kW		
30	6	NM AP	2	44	5 40:1	R 1/2"	V 0,43 kW		
30	72	SM AP	4	175	3 10:1	R 1/2"	V 0,43 kW		
30	36	SM AP	4	87	4 20:1	R 1/2"	V 0,43 kW		
30	18	SM AP	4	44	5 40:1	R 1/2"	V 0,43 kW		
20	153	TM AP	6	175	3 10:1	R 3/4"	V 0,43 kW		
20	76	TM AP	6	87	4 20:1	R 3/4"	V 0,43 kW		
20	38	TM AP	6	44	5 40:1	R 3/4"	V 0,43 kW		

PRIUS D DIAPHRAGM 60Hz

1 l code							pump head l		PVDF		AISI 316L		PP		Kit instal-lation
PD00															
2 l bar	3 l l/h	p.h.	stroke mm	spm	6 l reduction		7 l motor		hoses connection	4 l K	hoses connection	4 l S	hoses connection	4 l P	
10	55	NM	3	175	3	10:1	3	0,18 kW	G 1/2" 13 mm (i.d.)		R 1/2"		G 1/2" 13 mm (i.d.)		A
10	27	NM	3	87	4	20:1	3	0,18 kW	G 1/2" 13 mm (i.d.)		R 1/2"		G 1/2" 13 mm (i.d.)		A
10	14	NM	3	44	5	40:1	3	0,18 kW	G 1/2" 13 mm (i.d.)		R 1/2"		G 1/2" 13 mm (i.d.)		A
10	100	TM	3	175	3	10:1	4	0,37 kW	G 3/4" 13 mm (i.d.)		R 3/4"		G 3/4" 13 mm (i.d.)		A
10	50	TM	3	87	4	20:1	4	0,37 kW	G 3/4" 13 mm (i.d.)		R 3/4"		G 3/4" 13 mm (i.d.)		A
10	25	TM	3	44	5	40:1	4	0,37 kW	G 3/4" 13 mm (i.d.)		R 3/4"		G 3/4" 13 mm (i.d.)		A
7	150	TM	4	175	3	10:1	4	0,37 kW	G 3/4" 13 mm (i.d.)		R 3/4"		G 3/4" 13 mm (i.d.)		A
7	75	TM	4	87	4	20:1	4	0,37 kW	G 3/4" 13 mm (i.d.)		R 3/4"		G 3/4" 13 mm (i.d.)		A
7	37	TM	4	44	5	40:1	4	0,37 kW	G 3/4" 13 mm (i.d.)		R 3/4"		G 3/4" 13 mm (i.d.)		A
5	230	TM	6	175	3	10:1	4	0,37 kW	G 3/4" 18 mm (i.d.)		R 3/4"		G 3/4" 18 mm (i.d.)		B
5	115	TM	6	87	4	20:1	4	0,37 kW	G 3/4" 18 mm (i.d.)		R 3/4"		G 3/4" 18 mm (i.d.)		B
5	57	TM	6	44	5	40:1	4	0,37 kW	G 3/4" 18 mm (i.d.)		R 3/4"		G 3/4" 18 mm (i.d.)		B
2	950	UMS	10	175	3	10:1	4	0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	950	UMS	10	175	3	10:1	N	0,55 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
2	472	UMS	10	87	4	20:1	4	0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
2	238	UMS	10	44	5	40:1	4	0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	335	UMS	4	175	3	10:1	4	0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	165	UMS	4	87	4	20:1	4	0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	84	UMS	4	44	5	40:1	4	0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	420	UMS	5	175	3	10:1	4	0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	210	UMS	5	87	4	20:1	4	0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	105	UMS	5	44	5	40:1	4	0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	505	UMS	6	175	3	10:1	4	0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	250	UMS	6	87	4	20:1	4	0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	126	UMS	6	44	5	40:1	4	0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
3	720	UMS	8	175	3	10:1	4	0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
3	357	UMS	8	87	4	20:1	4	0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
3	181	UMS	8	44	5	40:1	4	0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C

PRIUS D DIAPHRAGM 60Hz SINGLE-PHASE

1 l code							pump head l		PVDF		AISI 316L		PP		Kit instal-lation
PD00															
2 l bar	3 l l/h	p.h.	stroke mm	spm	6 l reduction		7 l motor		hoses connection	4 l K	hoses connection	4 l S	hoses connection	4 l P	
10	55	NM	3	175	3	10:1	R	0,37 kW	G 1/2" 13 mm (i.d.)		R 1/2"		G 1/2" 13 mm (i.d.)		A
10	27	NM	3	87	4	20:1	R	0,37 kW	G 1/2" 13 mm (i.d.)		R 1/2"		G 1/2" 13 mm (i.d.)		A
10	14	NM	3	44	5	40:1	R	0,37 kW	G 1/2" 13 mm (i.d.)		R 1/2"		G 1/2" 13 mm (i.d.)		A
10	100	TM	3	175	3	10:1	R	0,37 kW	G 3/4" 13 mm (i.d.)		R 3/4"		G 3/4" 13 mm (i.d.)		A
10	50	TM	3	87	4	20:1	R	0,37 kW	G 3/4" 13 mm (i.d.)		R 3/4"		G 3/4" 13 mm (i.d.)		A
10	25	TM	3	44	5	40:1	R	0,37 kW	G 3/4" 13 mm (i.d.)		R 3/4"		G 3/4" 13 mm (i.d.)		A
7	150	TM	4	175	3	10:1	R	0,37 kW	G 3/4" 13 mm (i.d.)		R 3/4"		G 3/4" 13 mm (i.d.)		A
7	75	TM	4	87	4	20:1	R	0,37 kW	G 3/4" 13 mm (i.d.)		R 3/4"		G 3/4" 13 mm (i.d.)		A
7	37	TM	4	44	5	40:1	R	0,37 kW	G 3/4" 13 mm (i.d.)		R 3/4"		G 3/4" 13 mm (i.d.)		A
5	230	TM	6	175	3	10:1	R	0,37 kW	G 3/4" 18 mm (i.d.)		R 3/4"		G 3/4" 18 mm (i.d.)		B
5	115	TM	6	87	4	20:1	R	0,37 kW	G 3/4" 18 mm (i.d.)		R 3/4"		G 3/4" 18 mm (i.d.)		B
5	57	TM	6	44	5	40:1	R	0,37 kW	G 3/4" 18 mm (i.d.)		R 3/4"		G 3/4" 18 mm (i.d.)		B
5	335	UMS	4	175	3	10:1	E	0,55 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	165	UMS	4	87	4	20:1	R	0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	84	UMS	4	44	5	40:1	R	0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	420	UMS	5	175	3	10:1	E	0,55 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	210	UMS	5	87	4	20:1	R	0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	105	UMS	5	44	5	40:1	R	0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	505	UMS	6	175	3	10:1	E	0,55 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	250	UMS	6	87	4	20:1	R	0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C
5	126	UMS	6	44	5	40:1	R	0,37 kW	G 1 1/2" 30 mm (i.d.)		R 1"		G 1 1/2" 30 mm (i.d.)		C

PRIUS D DIAPHRAGM 60Hz HIGH PRESSURE

1 | code								pump head |	AISI 316L		PVDF	
PD00													
2 | bar	3 | l/h	p.h.	stroke mm	spm	6 | reduction	7 | motor			hoses connection	4 | S	hoses connection	4 | K
100	3	LM AP	1.5	175	3 10:1	4	0,37 kW		R 3/8"		-	/
100	1,5	LM AP	1.5	87	4 20:1	4	0,37 kW		R 3/8"		-	/
50	14	MM AP	2	175	3 10:1	4	0,37 kW		R 1/2"		-	/
50	7	MM AP	2	87	4 20:1	4	0,37 kW		R 1/2"		-	/
50	3,5	MM AP	2	44	5 40:1	4	0,37 kW		R 1/2"		-	/
30	26	NM AP	2	175	3 10:1	4	0,37 kW		R 1/2"		-	/
30	13	NM AP	2	87	4 20:1	4	0,37 kW		R 1/2"		-	/
30	6	NM AP	2	44	5 40:1	4	0,37 kW		R 1/2"		-	/
30	72	SM AP	4	175	3 10:1	4	0,37 kW		R 1/2"		-	/
30	36	SM AP	4	87	4 20:1	4	0,37 kW		R 1/2"		-	/
30	18	SM AP	4	44	5 40:1	4	0,37 kW		R 1/2"		-	/
20	153	TM AP	6	175	3 10:1	4	0,37 kW		R 3/4"		-	/
20	76	TM AP	6	87	4 20:1	4	0,37 kW		R 3/4"		-	/
20	38	TM AP	6	44	5 40:1	4	0,37 kW		R 3/4"		-	/
20	27	NM AP	2	175	3 10:1	4	0,37 kW		-	-	8x10 (PVDF) / 8x12 (PVC)	
20	13	NM AP	2	87	4 20:1	4	0,37 kW		-	-	8x10 (PVDF) / 8x12 (PVC)	
20	7	NM AP	2	44	5 40:1	4	0,37 kW		-	-	8x10 (PVDF) / 8x12 (PVC)	

PRIUS D DIAPHRAGM 60Hz HIGH PRESSURE SINGLE-PHASE

1 | code							pump head |	AISI316L	
PD00									
2 | bar	3 | l/h	p.h.	stroke mm	spm	6 | reduction	7 | motor		hoses connection	4 | S
100	3	LM AP	1.5	175	3 10:1	R 0,37 kW		R 3/8"	
100	1,5	LM AP	1.5	87	4 20:1	R 0,37 kW		R 3/8"	
50	14	MM AP	2	175	3 10:1	R 0,37 kW		R 1/2"	
50	7	MM AP	2	87	4 20:1	R 0,37 kW		R 1/2"	
50	3,5	MM AP	2	44	5 40:1	R 0,37 kW		R 1/2"	
30	26	NM AP	2	175	3 10:1	R 0,37 kW		R 1/2"	
30	13	NM AP	2	87	4 20:1	R 0,37 kW		R 1/2"	
30	6	NM AP	2	44	5 40:1	R 0,37 kW		R 1/2"	
30	72	SM AP	4	175	3 10:1	R 0,37 kW		R 1/2"	
30	36	SM AP	4	87	4 20:1	R 0,37 kW		R 1/2"	
30	18	SM AP	4	44	5 40:1	R 0,37 kW		R 1/2"	
20	153	TM AP	6	175	3 10:1	E 0,55 kW		R 3/4"	
20	76	TM AP	6	87	4 20:1	R 0,37 kW		R 3/4"	
20	38	TM AP	6	44	5 40:1	R 0,37 kW		R 3/4"	

PRIUS D DIAPHRAGM 60Hz ATEX 2G/2D

1 | code						pump head |	II 2G Ex h IIC T3 Gb AISI 316L		II 2 D Ex h IIIC T120°C Db AISI 316L	
PD00											
2 | bar	3 | l/h	p.h.	stroke mm	spm	6 | reduction	hoses connection	7 | motor		4 | S	7 | motor	4 | S
10	7	NM	1.5	35	5 40:1	R 1/2"	3 0,37 kW			3 0,43 kW	
10	55	NM	3	175	3 10:1	R 1/2"	3 0,37 kW			3 0,43 kW	
10	27	NM	3	70	4 20:1	R 1/2"	3 0,37 kW			3 0,43 kW	
10	14	NM	3	35	5 40:1	R 1/2"	3 0,37 kW			3 0,43 kW	
10	100	TM	3	175	3 10:1	R 1/2"	V 0,37 kW			3 0,43 kW	
10	50	TM	3	87	4 20:1	R 3/4"	V 0,37 kW			3 0,43 kW	
10	25	TM	3	44	5 40:1	R 3/4"	V 0,37 kW			3 0,43 kW	
7	150	TM	4	175	3 10:1	R 3/4"	V 0,37 kW			3 0,43 kW	
7	75	TM	4	87	4 20:1	R 3/4"	V 0,37 kW			3 0,43 kW	
7	37	TM	4	44	5 40:1	R 3/4"	V 0,37 kW			3 0,43 kW	
5	230	TM	6	175	3 10:1	R 3/4"	V 0,37 kW			3 0,43 kW	
5	115	TM	6	87	4 20:1	R 3/4"	V 0,37 kW			3 0,43 kW	
5	57	TM	6	44	5 40:1	R 3/4"	V 0,37 kW			3 0,43 kW	

PRIUS D DIAPHRAGM 60Hz ATEX 3G/3D

1 | code

PD00

2 | bar	3 | l/h	p.h.	stroke mm	spm	6 | reduction	pump head | 7 | motor	II 3G Ex h IIC T3 Gc PVDF 4 | K	II 3G Ex h IIC T3 Gc AISI316L 4 | S	II 3G Ex h IIC T3 Gc PP 4 | P	II 3 D Ex h IIIC T120°C Dc pump head | 7 | motor	II 3 D Ex h IIIC T120°C Dc PVDF 4 | K	II 3 D Ex h IIIC T120°C Dc AISI316L 4 | S	II 3 D Ex h IIIC T120°C Dc PP 4 | P	Kit instal-lation
10	55	NM	3	175	3 10:1	A 0,25 kW		/		B 0,29 kW		/		A
10	27	NM	3	70	4 20:1	A 0,25 kW		/		B 0,29 kW		/		A
10	14	NM	3	35	5 40:1	A 0,25 kW		/		B 0,29 kW		/		A
10	100	TM	3	175	3 10:1	V 0,37 kW		/		V 0,43 kW		/		A
10	50	TM	3	87	4 20:1	V 0,37 kW		/		V 0,43 kW		/		A
10	25	TM	3	44	5 40:1	V 0,37 kW		/		V 0,43 kW		/		A
7	150	TM	4	175	3 10:1	V 0,37 kW		/		V 0,43 kW		/		A
7	75	TM	4	87	4 20:1	V 0,37 kW		/		V 0,43 kW		/		A
7	37	TM	4	44	5 40:1	V 0,37 kW		/		V 0,43 kW		/		A
5	230	TM	6	175	3 10:1	V 0,37 kW		/		V 0,43 kW		/		B
5	115	TM	6	87	4 20:1	V 0,37 kW		/		V 0,43 kW		/		B
5	57	TM	6	44	5 40:1	V 0,37 kW		/		V 0,43 kW		/		B
5	335	UMS	4	175	3 10:1	V 0,37 kW				V 0,43 kW				C
5	165	UMS	4	87	4 20:1	V 0,37 kW				V 0,43 kW				C
5	84	UMS	4	44	5 40:1	V 0,37 kW				V 0,43 kW				C
5	420	UMS	5	175	3 10:1	V 0,37 kW				V 0,43 kW				C
5	210	UMS	5	87	4 20:1	V 0,37 kW				V 0,43 kW				C
5	105	UMS	5	44	5 40:1	V 0,37 kW				V 0,43 kW				C
5	505	UMS	6	175	3 10:1	V 0,37 kW				V 0,43 kW				C
5	250	UMS	6	87	4 20:1	V 0,37 kW				V 0,43 kW				C
5	126	UMS	6	44	5 40:1	V 0,37 kW				V 0,43 kW				C

PRIUS D DIAPHRAGM 60Hz ATEX 3G/3D

1 | code

PD00

2 | bar	3 | l/h	p.h.	stroke mm	spm	6 | reduction	pump head | 7 | motor	II 3G Ex h IIC T3 Gc PVDF 4 | K	II 3G Ex h IIC T3 Gc AISI316L 4 | S	II 3G Ex h IIC T3 Gc PP 4 | P	II 3 D Ex h IIIC T120°C Dc pump head | 7 | motor	II 3 D Ex h IIIC T120°C Dc PVDF 4 | K	II 3 D Ex h IIIC T120°C Dc AISI316L 4 | S	II 3 D Ex h IIIC T120°C Dc PP 4 | P	Kit instal-lation
10	55	NM	3	175	3 10:1	A 0,25 kW		/		B 0,29 kW		/		A
10	27	NM	3	70	4 20:1	A 0,25 kW		/		B 0,29 kW		/		A
10	14	NM	3	35	5 40:1	A 0,25 kW		/		B 0,29 kW		/		A
10	100	TM	3	175	3 10:1	V 0,37 kW		/		V 0,43 kW		/		A
10	50	TM	3	87	4 20:1	V 0,37 kW		/		V 0,43 kW		/		A
10	25	TM	3	44	5 40:1	V 0,37 kW		/		V 0,43 kW		/		A
7	150	TM	4	175	3 10:1	V 0,37 kW		/		V 0,43 kW		/		A
7	75	TM	4	87	4 20:1	V 0,37 kW		/		V 0,43 kW		/		A
7	37	TM	4	44	5 40:1	V 0,37 kW		/		V 0,43 kW		/		A
5	230	TM	6	175	3 10:1	V 0,37 kW		/		V 0,43 kW		/		B
5	115	TM	6	87	4 20:1	V 0,37 kW		/		V 0,43 kW		/		B
5	57	TM	6	44	5 40:1	V 0,37 kW		/		V 0,43 kW		/		B
5	335	UMS	4	175	3 10:1	V 0,37 kW				V 0,43 kW				C
5	165	UMS	4	87	4 20:1	V 0,37 kW				V 0,43 kW				C
5	84	UMS	4	44	5 40:1	V 0,37 kW				V 0,43 kW				C
5	420	UMS	5	175	3 10:1	V 0,37 kW				V 0,43 kW				C
5	210	UMS	5	87	4 20:1	V 0,37 kW				V 0,43 kW				C
5	105	UMS	5	44	5 40:1	V 0,37 kW				V 0,43 kW				C
5	505	UMS	6	175	3 10:1	V 0,37 kW				V 0,43 kW				C
5	250	UMS	6	87	4 20:1	V 0,37 kW				V 0,43 kW				C
5	126	UMS	6	44	5 40:1	V 0,37 kW				V 0,43 kW				C

DIMENSIONS (mm)			
	NM pump head (PVDF)	TM pump head (PVDF)	UM pump head (PP)
A	~ 320	~ 330	~ 350
B	~ 280	~ 315	~ 320
C	157	157	157
L	177	220	300
G	163	163	180
H	~ 190	~ 190	~ 190
I	97,5	110	150
F	~ 400	~ 460	~ 460
E	125,2	125,2	125,2
D	108,6	108,6	108,6
∅ fixing holes	8	8	8

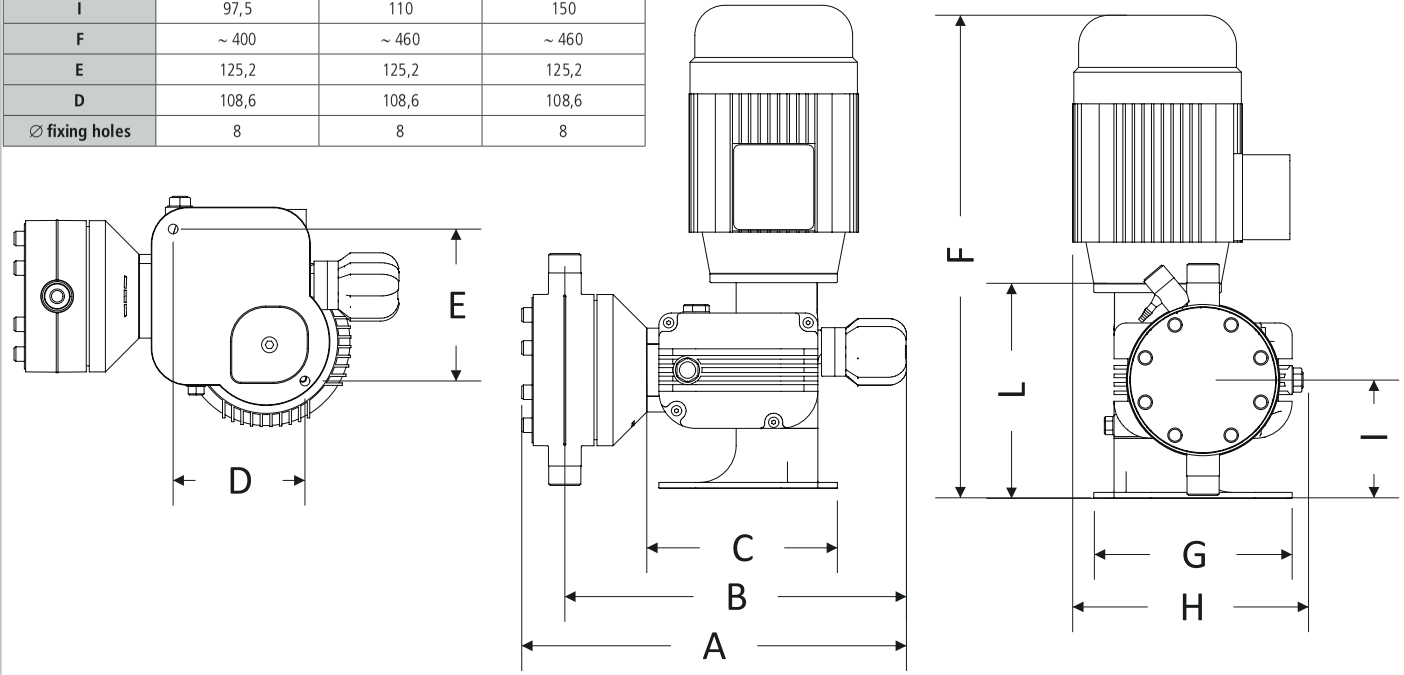
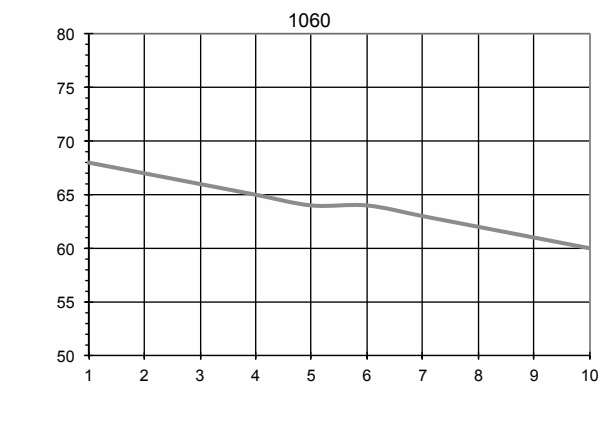
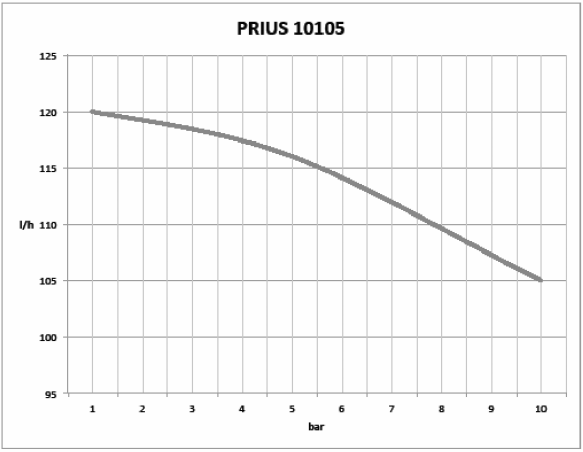


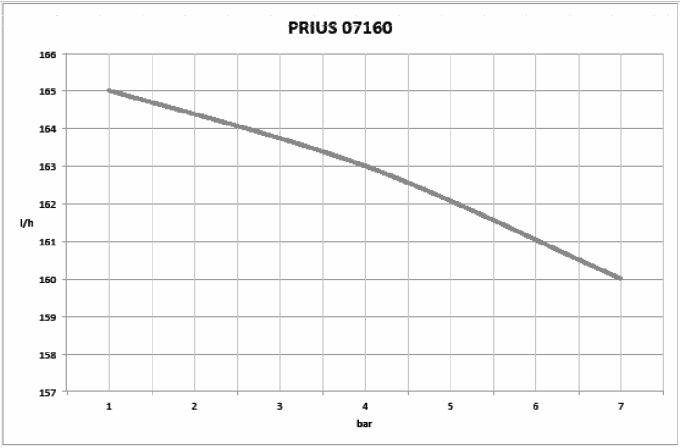
Fig. 2. Pump dimension

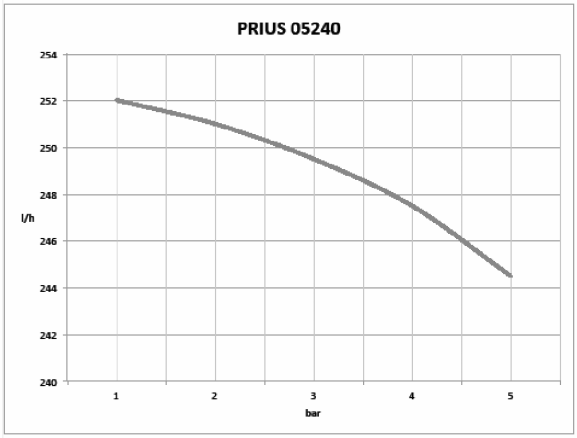
1.5 Delivery curves

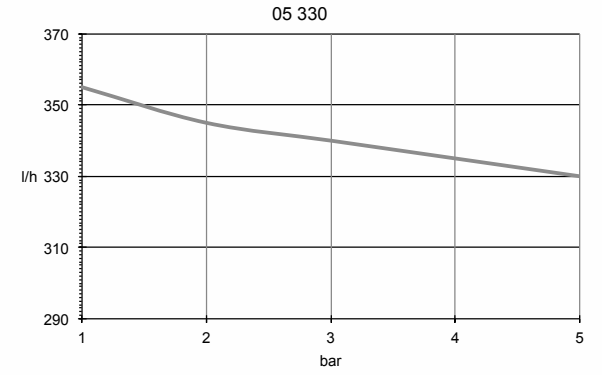
Flow rate indicated is for H_2O at 20°C at the rated pressure. Dosing accuracy ± 2% at rated pressure.

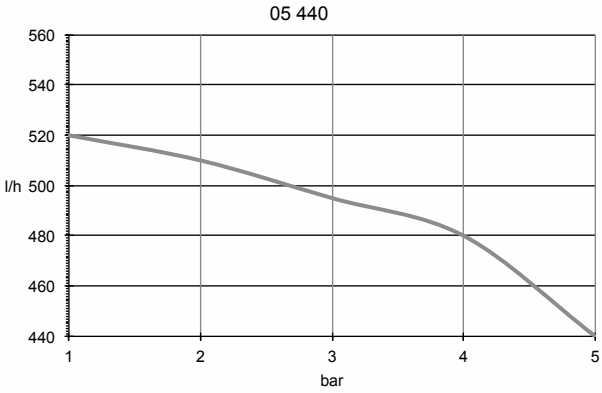


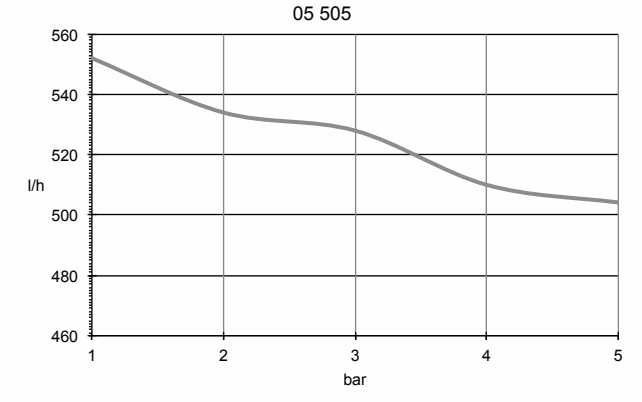


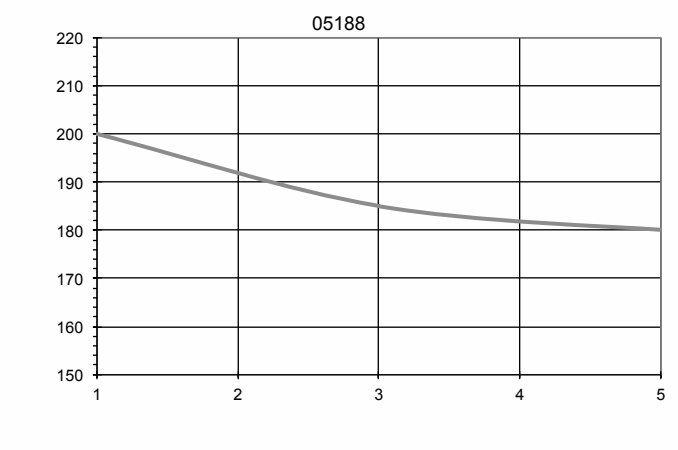


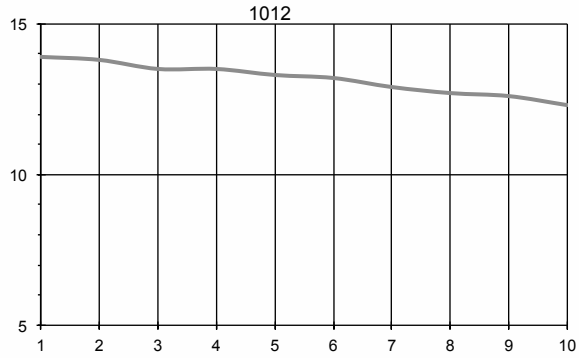

PRIUS 05240
254
252
250
248
l/h
246
244
242
240
1
2
3
4
5
bar

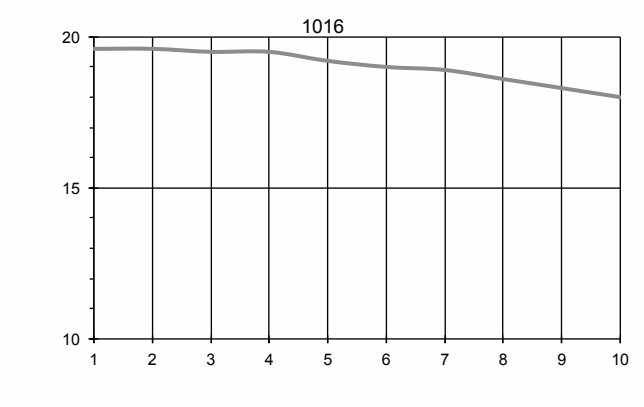

05 330
370
350
l/h 330
310
290
1
2
3
4
5
bar


05 440
560
540
520
l/h 500
480
460
440
1
2
3
4
5
bar


05 505
560
540
520
l/h
500
480
460
1
2
3
4
5
bar


05188
220
210
200
190
180
170
160
150
1
2
3
4
5


1012
15
10
5
1
2
3
4
5
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1016
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2. INSTALLATION

2.1 Installation warning

Before start installation, the operator must be aware of safety precautions to prevent physical injury.

OPERATOR PROTECTION

Use safety equipment according to the company regulations.
Use this safety equipment within the work area during installation, service and when handling chemicals:

- **protective mask**
- **protective gloves**
- **safety goggles**
- **ear plugs or hear muffs**
- **further security device, if necessary.**

POWER SUPPLY DISCONNECTION

Always disconnect power to the motor before you perform any installation or maintenance tasks. Failure to disconnect power will result in serious physical injury.

INSTALLATION PUMP GUIDELINES

Install the pump
- in a safety place and fixed to the table / wall to avoid vibration problems;
- in an easy accessible place;
- in horizontal position.

Use only hoses compatibles with product to dose.

See "8.1 Chemical compatibility table" page 31.
If dosing product is not listed please consult full compatibility table or contact chemical's manufacturer.

2.2 Commissioning steps

5 steps of installation procedure:

1. Pump location
2. Oil filling
3. Piping connection
4. Electric wiring
5. Start-up

2.2.1 Pump location

Pump must be installed on a flat base at max **3 m** height from tank's bottom.
Fasten the pump by clamping screws.

Injection point must be higher of tank to avoid accidental chemical injection.

Otherwise, connect a **multifunction valve** on delivery pipeline.

2.2.2 Oil filling

Pumps are shipped WITH OIL AND WITH A BLIND CAP.
At the job site you must replace the blind cap with the one supplied. Keep the blind cap for further shipping.

Fill the oil reservoir through oil inlet ("Fig. 1. PRIUS pump" page 6).
The required amount of oil is 0,30 lt. For acceptable lubricants see the table below.
Check oil level regularly. Change the oil every 8.000-10.000 operating hours.

You must never start the pump without oil.

Tab. 3. Acceptable oil for lubricating

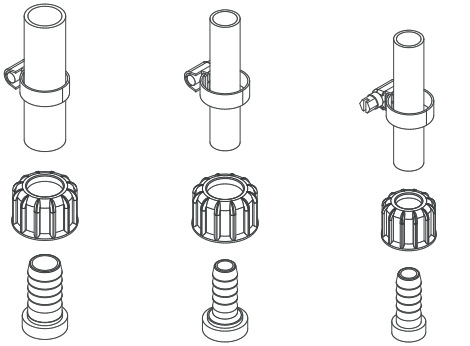
BRAND	LUBRICANT TYPE
MOBIL	MOBILGEAR 632
SHELL	OMALA OIL 320
BP	ENERGOL GR-XP 320
IP	MELLANA OIL 320
ESSO	SPARTAN EP 320
AGIP	BLASIA 320

2.2.3 Piping connection

Never operate any pumping system with a blocked suction and discharge. Operation, even for a brief period under these conditions, can cause motor to overheat. You must take all necessary measures to avoid this condition.

Suction piping should be as short as possible and installed in vertical position to avoid air bubbles suction.

Fig. 3. Hose connections



18x22 - 3/4" 13x16 - 3/4" 13x16 - 1/2"

Suction and delivery valves must be installed in vertical position.

Hand-tighten the nuts firmly.
Do not use tongs or any other tool.

Delivery hose must be firmly fixed to avoid suddenly movements that could damage near objects

2.2.4 Pump head

Pump head has got manual venting by opening discharge knob.

For priming procedure see "5. PRIMING" page 27.

It's allowed to lightly bend discharge hose.

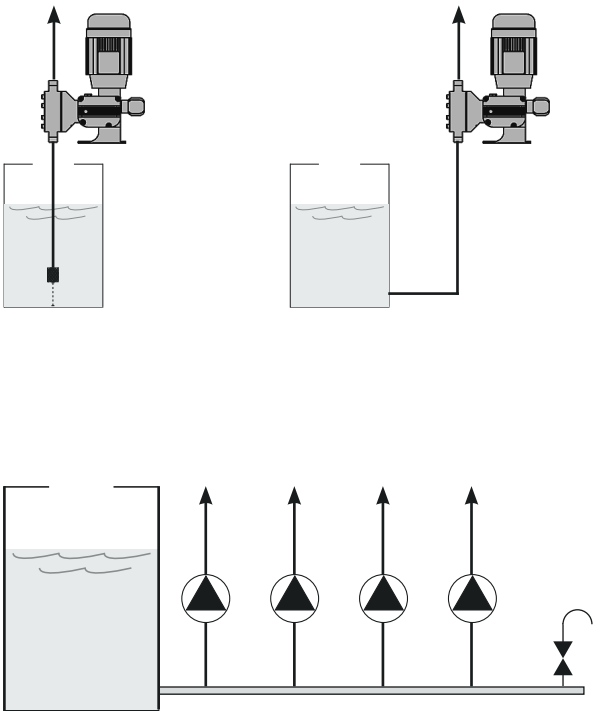
During calibration procedure ("TEST") insert discharge hose into BECKER test-tube.

2.2.5 Foot filter

Foot filter is always recommended.
Foot filter should be adequate to suction piping and installed al least 10 cm from the tank bottom.

2.2.6 Installation drawings

Fig. 4. Installation drawings



3. ELECTRICAL WIRING

3.1 Preliminary checks

⚠ The electrical wirings should be carried out by AUTHORIZED AND QUALIFIED PERSONNEL only in accordance with local regulations.

Before to proceed, verify the following steps:

1. **Verify the data on nameplate.**
   Make sure that the electrical data on the nameplate of the motor corresponds to the electrical supply.

2. **Verify the grounded power outlet.**
   The pump must be plugged to a grounded power outlet.

3. **Install a motor protection switch.**
   Pump must be connected to a motor protection switch (Residual Current Circuit Breaker - MCCB).

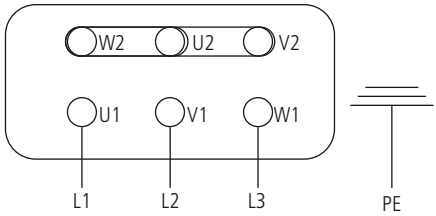
4. **Verify the cable.**
   Cable type and cross-section must be in accordance to motor data.

5. **Verify the motor rotation.**
   Start up the pump to check the motor's direction of rotation. It must comply with that indicated by the arrow marked on the motor fan cover. If the direction is reversed, rewire the motor power wires in accordance with the wiring diagram, refer to "3.2 Connection diagrams" page 24.

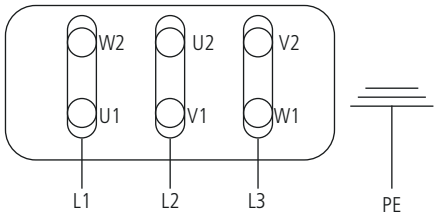
3.2 Connection diagrams

CONNECTION DIAGRAMS for 3~PHASE MOTOR 50 Hz

"Y" CONNECTION
380-420 Vac

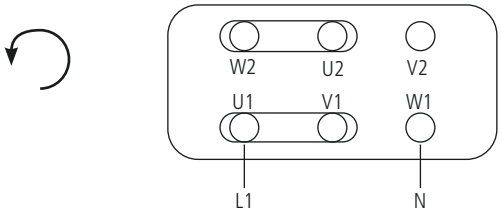


"Δ" (DELTA) CONNECTION
220-240 Vac



CONNECTION DIAGRAMS for 1~PHASE MOTOR

⚠ MOTOR SUITABLE FOR INSERTIONS WITH RANGE OF AT LEAST 6" INTERVAL



4. START UP

4.1 Start up

All operation before described must be carried out before starting the pump.

1. Pump location
2. Oil filling
3. Piping connection
4. Electric wiring

Follow the **"GENERAL SAFETY GUIDELINES" PAGE 4**.

1. Start the pump at minimum pressure.
2. Turn the stroke lenght knob on 20%.
3. After 5 minutes, gradually increase the capacity until reaching the prescribed value for the operating condition.

⚠ **Control the pressure correspond to the one on the nameplate. If not, stop the pump immediatly.**

If the pump does not start to dose:
a) Stop the pump.
b) Prime the pump head ("5. PRIMING" PAGE 27)
c) Start the pump again.

4. Monitor periodically the pump functioning.

5. PRIMING

5.1 How to prime the pump

The first time and where use of the pump is suspended for a long period of time, priming may be necessary. It allows suction piping and pump head to fill with liquid before pumping against pressure.

1. Connect all pipings (suction, delivery and discharge).
2. Rotate discharge knob to open discharge valve.
3. Rotate stroke lenght knob on 100%;
4. Power the pump.
5. When the chemical starts to flow into discharge hose, close discharge knob.
6. Proceed to standard operating condition.

Priming the pump is also recommended when there is air into pump head or into suction pipe.

6. MAINTENANCE

6.1 Maintenance schedule

Before start maitenance, the operator must be aware of safety precautions to prevent physical injury.

OPERATOR PROTECTION
Use safety equipment according to the company regulations.
Use this safety equipment within the work area during installation, service and when handling chemicals:

- **protective mask**
- **protective gloves**
- **safety goggles**
- **ear plugs or hear muffs**
- **further security device, if necessary.**

POWER SUPPLY DISCONNECTION
Always disconnect power to the motor before you perform any installation or maintenance tasks. Failure to disconnect power will result in serious physical injury.

Installation and maintenance tasks should be carried out by AUTHORIZED AND QUALIFIED PERSONNEL only in accordance with local regulations.

Before starting any maintenance or before long downtimes, drain the chemical from pump head.

Use original spare parts.

6.2 Maintenance inspection

A maintenance schedule includes these types of inspections:

- Routine maintenance and inspoections
- Three-month inspections
- Annual inspections

Shorten the inspection intervals appropriately if the pumped chemical is abrasive or corrosive.

Routine maitenance and inspections

Perform these tasks whenever you perform routine maintenance:

- Inspect the seal. Ensure that there are no leaks from the mechanical seal.
- Check electrical wiring
- Check the level and condition of the oil through the sight glass
- Check for unusual noise and vibration (noise allowed 78 dbA; ± 5 dB).
- Check the pump and piping for leaks.
- Inspect the discharge pressure.
- Check temperature (motor temperature max 70°C; pump head max 40°C)
- Check for corrosion on parts of the pump and / or on hoses.

Three-month inspections

Perform these tasks every three months:

- Check that the bolts are tight.
- Check the mechanical seal if the pump has been left idle.

Annual inspections

Perform these inspections one time each year:

- Check the pump capacity (as per nameplate).
- Check the pump pressure (as per nameplate).
- Check the pump power (as per nameplate).
- Change the oil every year (8.000-10.000 operating hours).
- Change the oil more often if there are adverse conditions

If the pump performance does not satisfy your process requirements, and the process requirements have not changed, then perform these steps:

1. Disassemble the pump.
2. Inspect it.
3. Replace worn parts.

6.3 Shutdown

Shutdown the dosing pump before any maintenance operation or before long downtimes.
Disconnect power to the motor and ensure it cannot be restarted.
Drain the chemical from pump head.
Release the pressure and disconnect the disharge pipe from the discharge valve.
Rinse the pump head and clean all valves.

7. TROUBLESHOOTING

Tab. 4. Guide to troubleshooting.

PROBLEM	CAUSE	REMEDY
Dosing pump not delivering or output too low	Suction valve leaking or blocked	Clean or replace suction valve
	Suction pipe leaking or blocked	Replace suction pipe
	Air bubbles into pump head or into suction pipe	Prime the pump as described in "5.1 How to prime the pump" page 27
	Viscosity too high	Increase the pipe diameter or contact manufacturer
	Suction lift too high	Decrease lift
	Foot filter obstruction	Clean the foot filter
Motor and pump head too hot	Wrong wiring or defecting contact	Check wiring
	Pressure too high	Install a valve
	Delivery pipe obstructed or blocked	Clean delivery pipe
	Low level oil	Refill oil
Liquid loss	Diaphragm rupture	Contact manufacturer for diaphragm replacement

If the problem can not be solved, please contac after-sales service or return the dosing pump to the manufacturer.

7.1 Repair service

Before return the dosing pump to the manufacturer Repair service, drain the chemical from pump head and rinse it.
If there is the possibility that residual corrosive liquid into pump head could cause damages, declare it on REPAIR FORM.

Remove oil and replace operating cap with the blind cap.

Complete the PRODUCT SERVICE REPAIR FORM and send it with the dosing pump.
Repair service is not accepted if PRODUCT SERVICE REPAIR FORM is missing.

8. COMPATIBILITY TABLE

8.1 Chemical compatibility table

Solenoid driven metering pumps are widely used to dose chemical fluids and it is important that the most suitable material in contact with fluid is selected for each application. This compatibility table serves as a useful help in this respect. All the informations in this list are verified periodically and believed to be correct on the date of issuance. All the informations in this list are based on manufacturer's data and its own experience but since the resistance of any material depends by several factors this list is supplied only as an initial guide, in no way manufacturer makes warranties of any matter respect to the informations provided in this list.

Tab. 5. Chemical compatibility table.

Product	Formula	Ceram.	PVDF	PP	PVC	SS 316	PMMA	Hastel.	PTFE	FPM	EPDM	NBR	PE
Acetic Acid, Max 75%	CH3COOH	2	1	1	1	1	3	1	1	3	1	3	1
Hydrochloric Acid, Concentrate	HCl	1	1	1	1	3	1	1	1	1	3	3	1
Hydrofluoric Acid 40%	H2F2	3	1	3	2	3	3	2	1	1	3	3	1
Phosphoric Acid, 50%	H3PO4	1	1	1	1	2	1	1	1	1	1	3	1
Nitric Acid, 65%	HNO3	1	1	2	3	2	3	1	1	1	3	3	2
Sulphuric Acid, 85%	H2SO4	1	1	1	1	2	3	1	1	1	3	3	1
Sulphuric Acid, 98.5%	H2SO4	1	1	3	3	3	3	1	1	1	3	3	3
Amines	R-NH2	1	2	1	3	1	-	1	1	3	3	1	1
Sodium Bisulphite	NaHSO3	1	1	1	1	2	1	1	1	1	1	1	1
Sodium Carbonate (Soda)	Na2CO3	2	1	1	1	1	1	1	1	2	1	1	1
Ferric Chloride	FeCl3	1	1	1	1	3	1	1	1	1	1	1	1
Calcium Hydroxide (Slaked Lime)	Ca(OH)2	1	1	1	1	1	1	1	1	1	1	1	1
Sodium Hydroxide (Caustic Soda)	NaOH	2	3	1	1	1	1	1	1	2	1	2	1
Calcium Hypochlor.(Chlor. ted Lime)	Ca(OCl)2	1	1	1	1	3	1	1	1	1	1	3	1
Sodium Hypochlorite, 12.5%	NaOCl + NaCl	1	1	2	1	3	1	1	1	1	1	2	3
Potassium Permanganate, 10%	KMnO4	1	1	1	1	1	1	1	1	1	1	3	1
Hydrogen Peroxide, 30% (Perydrol)	H2O2	1	1	1	1	1	3	1	1	1	3	3	1
Aluminium Sulphate	Al2(SO4)3	1	1	1	1	1	1	1	1	1	1	1	1
Copper-II-Sulphate (Roman Vitriol)	CuSO4	1	1	1	1	1	1	1	1	1	1	1	1

1 - Good resistance rating

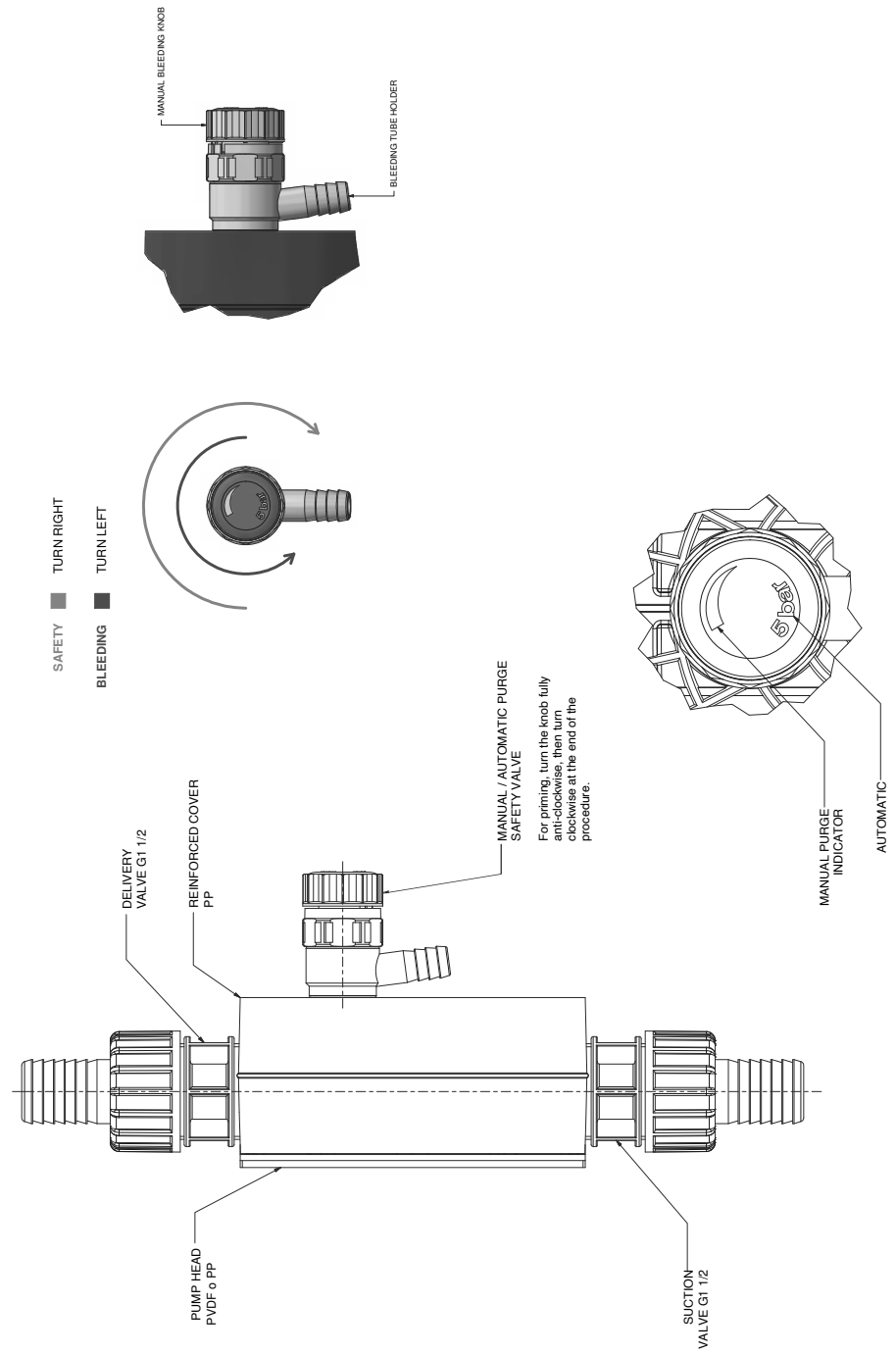
2 - Fairly resistance rating

3- Not resistant

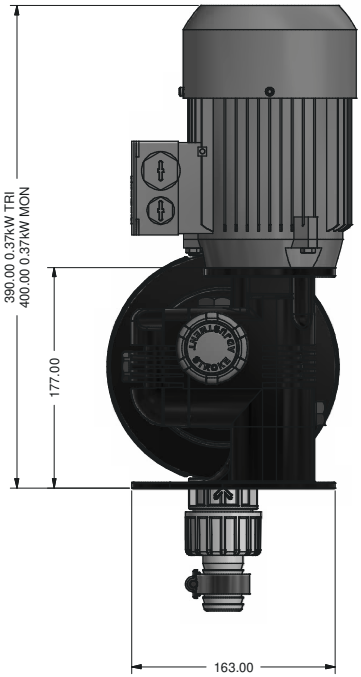
8.2 Materials

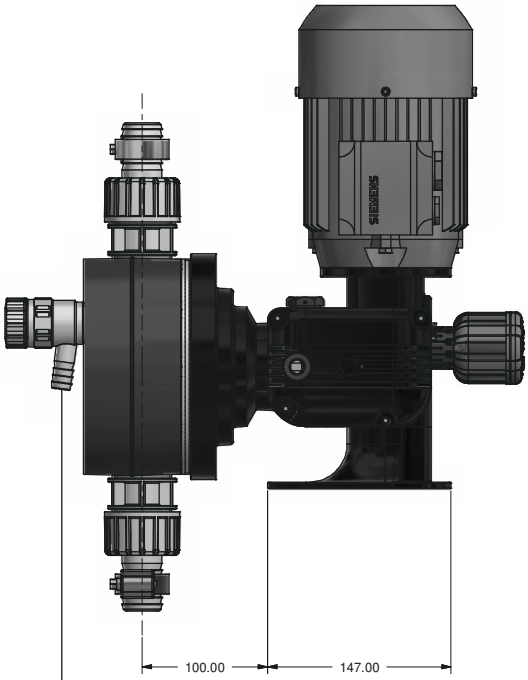
Polyvinyldene fluoride (PVDF) .....Pump heads, Valves, Fittings
Polypropylene (PP).....Pump heads, Valves, Fittings
Stainless steel (SS 316).....Pump heads, Valves
Polymethyl Metacrilate Acrylic (PMMA) ...Pump heads
Polytetrafluoroethylene (PTFE) .....Diaphragm
Fluorocarbon (FPM).....O-ring
Ethylene propylene (EPDM).....O-ring
Nitrile (NBR).....O-ring

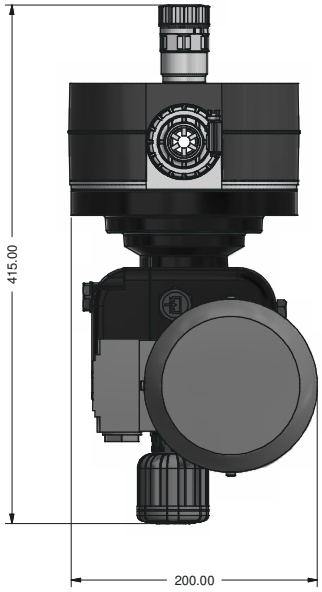
9. UMS PUMP HEAD VERSION



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

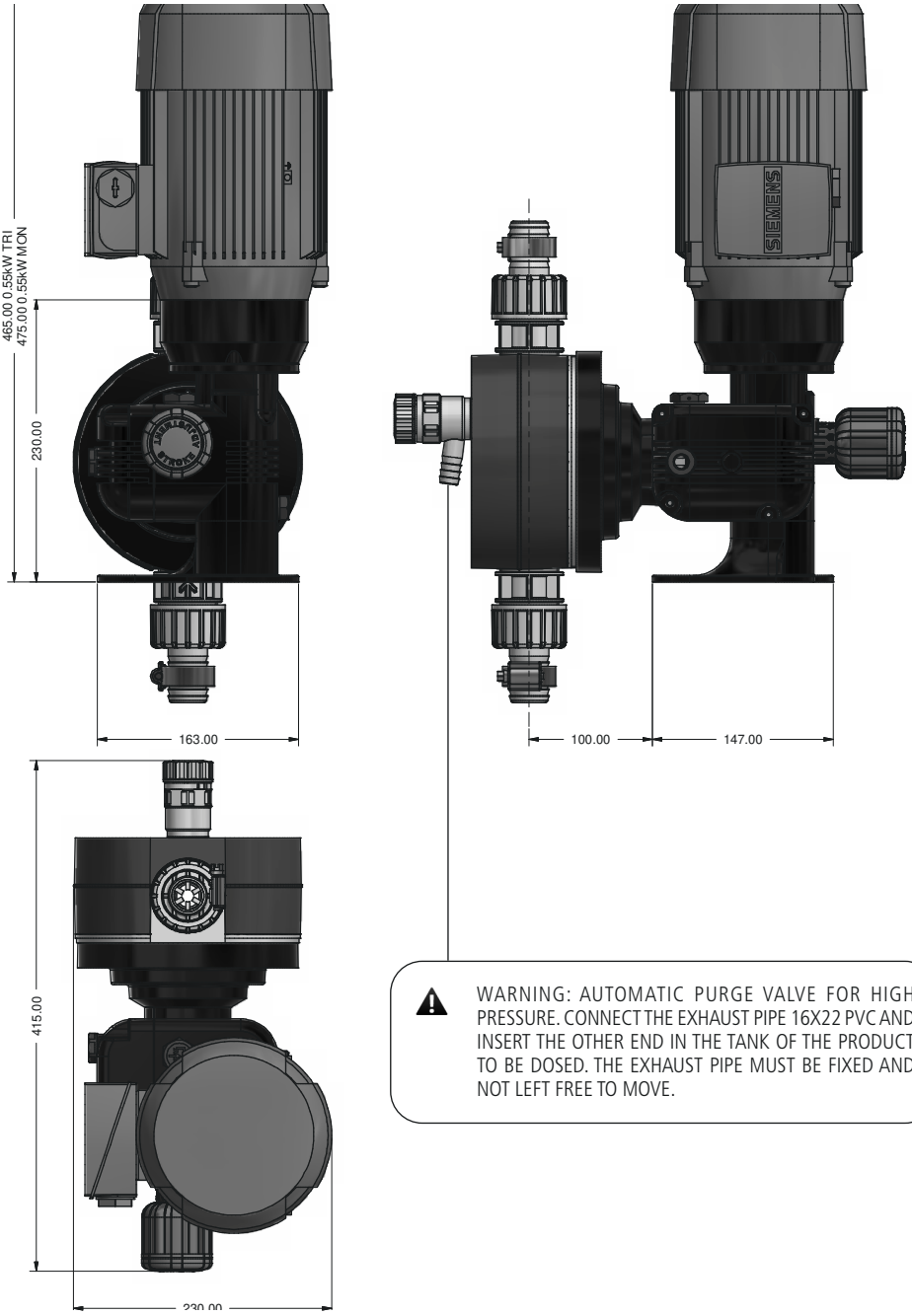






⚠ WARNING: AUTOMATIC PURGE VALVE FOR HIGH PRESSURE. CONNECT THE EXHAUST PIPE 16X22 PVC AND INSERT THE OTHER END IN THE TANK OF THE PRODUCT TO BE DOSED. THE EXHAUST PIPE MUST BE FIXED AND NOT LEFT FREE TO MOVE.

9.2. DIMENSIONS (MM) PRIUS WITH UMS PUMP HEAD (0,55KW)



⚠ WARNING: AUTOMATIC PURGE VALVE FOR HIGH PRESSURE. CONNECT THE EXHAUST PIPE 16X22 PVC AND INSERT THE OTHER END IN THE TANK OF THE PRODUCT TO BE DOSED. THE EXHAUST PIPE MUST BE FIXED AND NOT LEFT FREE TO MOVE.

PRODUCT SERVICE REPAIR FORM

ENCLOSE THE PRESENT FORM TO THE DELIVERY NOTE

DATE .....

SENDER

Company name.....

Address .....

Phone no. .....

Contact person.....

PRODUCT TYPE (see product label)

DEVICE CODE .....

S/N (serial number).....

OPERATING CONDITIONS

Location/installation description .....

.....

Chemical .....

Start-up (date) ..... Running time (approx. hours).....

REMOVE ALL THE LIQUID INTO THE PUMP HEAD AND DRY IT BEFORE PACKAGING IN ITS ORIGINAL BOX.

DESCRIPTION OF PROBLEM

☐ MECHANICAL

- Wear parts.....
- Brekage/other damages .....
- Corrosion.....
- Other.....

☐ ELECTRICAL

- Connections, connector, cables .....
- Operating controls (keyboard, display, etc.) .....
- Elettronics.....
- Other.....

☐ LEAKS

- Connections.....
- Pump head .....

☐ NOT OR INADEQUATE FUNCTION/OTHER

.....

.....

.....

I declare that the dosing pump is free of any hazardous chemical.

Signature of the compiler

Company stamp

PRECAUTIONS RELATING TO DIRECTIVES, REGULATIONS AND STANDARDS

§ CE/EU and UKCA marking

EMEC S.r.l. guarantees that this product meets the essential requirements of the applicable Directives and Regulations based on the following specifications. Please carefully consider the following specifications for use of the product in European Union member countries and the United Kingdom.

• CE/EU harmonized directives and standards

Directives
DIRECTIVE 2006/42/EC
DIRECTIVE 2014/35/EU
DIRECTIVE 2014/30/EU
DIRECTIVE 2011/65/EU
DELEGATED DIRECTIVE (EU) 2015/863

Harmonized standards
EN ISO 12100
EN 809
EN ISO 20361
EN IEC 61326-1
EN 61010-1
EN IEC 63000

• UKCA harmonized regulations and standards

Regulations
2008 No. 1597
2008 2016 No. 1091
2016 No. 1101
2012 No. 3032

Harmonized standards
BS EN ISO 12100
BS EN 809
BS EN ISO 20361
BS EN IEC 61326-1
BS EN 61010-1
BS EN IEC 63000

§ Other compliances

Decree 6 April 2004, n. 174 of the Ministry of Health (Gazzetta Ufficiale n. 166 of 17-7-2004)
Decree 7 February 2012, n.25 of the Ministry of Health (Gazzetta Ufficiale n. 166 of 17-7-2004)

EC/EU declaration of conformity model

emec
SIMPLE AS WATER

DICHIARAZIONE DI CONFORMITA' CE
DECLARATION OF CONFORMITY EC

La Società
The Company
EMEC S.r.l.

Indirizzo della Società
Company Address
Via Donatori di Sangue, 1
02100 Rieti (RI) - Italia

DICHIARA, sotto la propria responsabilità che il prodotto:
***DECLARES**, under it own responsibility, that the product:*

Descrizione Prodotto
Product Description
Pompa dosatrice a motore, serie PRIUS D
Motor-driven dosing pump, PRIUS D series

Codici Identificativi Prodotto
(i simboli "_" completano il codice del prodotto in base alla configurazione delle varianti)
Product Identification Codes
(the "_" symbols complete the product code based on the configuration of the variants)
PD00 _ _ _ _ _ _ _ _ _ _ _ _ _ _ _

Numero di Serie
Serial Number
Si veda l'etichetta sul prodotto
See the label on the product

È conforme a quanto previsto dalle seguenti direttive comunitarie:
It complies with the provisions of the following community directives:

- **DIRETTIVA 2006/42/CE DEL PARLAMENTO EUROPEO E DEL CONSIGLIO** del 17 maggio 2006 relativa alle macchine e che modifica la direttiva 95/16/CE;
  ***DIRECTIVE 2006/42/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL** of 17 May 2006 relating to machinery and amending Directive 95/16/EC;*
- **DIRETTIVA 2014/35/UE DEL PARLAMENTO EUROPEO E DEL CONSIGLIO** del 26 febbraio 2014 concernente l'armonizzazione delle legislazioni degli Stati membri relative alla messa a disposizione sul mercato del materiale elettrico destinato a essere adoperato entro taluni limiti di tensione **(LVD)**;
  ***DIRECTIVE 2014/35/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL** of 26 February 2014 concerning the harmonization of the laws of the Member States relating to the making available on the market of electrical equipment intended for use within certain voltage limits (LVD);*
- **DIRETTIVA 2014/30/UE DEL PARLAMENTO EUROPEO E DEL CONSIGLIO** del 26 febbraio 2014 concernente l'armonizzazione delle legislazioni degli Stati membri relative alla compatibilità elettromagnetica **(EMC)**;
  ***DIRECTIVE 2014/30/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL** of 26 February 2014 concerning the harmonization of the laws of the Member States relating to electromagnetic compatibility (EMC);*
- **DIRETTIVA 2011/65/UE DEL PARLAMENTO EUROPEO E DEL CONSIGLIO** dell'8 giugno 2011 sulla restrizione dell'uso di determinate sostanze pericolose nelle apparecchiature elettriche ed elettroniche **(RoHS)**;
  ***DIRECTIVE 2011/65/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL** of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS);*
- **DIRETTIVA DELEGATA (UE) 2015/863 DELLA COMMISSIONE** del 31 marzo 2015 recante modifica dell'allegato II della direttiva 2011/65/UE del Parlamento europeo e del Consiglio per quanto riguarda l'elenco delle sostanze con restrizioni d'uso **(RoHS 3)**;
  ***COMMISSION DELEGATED DIRECTIVE (EU) 2015/863** of 31 March 2015 amending Annex II to Directive 2011/65/EU of the European Parliament and of the Council as regards the list of substances with restricted use (RoHS 3);*

Autorizza:
Authorizes:
Ing. Fabio Farina
Via Donatori di Sangue, 1 – 02100 Rieti (RI) - Italia – EMEC S.r.l.
A costituire il fascicolo tecnico per suo conto (punto 2, allegato II, Direttiva 2006/42/CE)
To compile the technical file on its behalf (point 2, annex II, Directive 2006/42/EC)

Data
Date
18/12/2024

Firma del fabbricante
Manufacturer's signature
Cioglì Claudia - Presidente EMEC S.r.l.

EMEC S.r.l.
Via Donatori di Sangue, 1
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T +39 0746 22841
F +39 0746 22842
info@emecpumps.com – www.emecpumps.com

Sede legale
Corso Vittorio Emanuele II, 15
20122 Milano (MI) – Italia
Codice SDI: KRRH6B9
P.IVA e Cod. Fisc.: 00620840579
Registro imprese Milano REA MI - 2050351

UKCA declaration of conformity model

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DECLARATION OF CONFORMITY
DICHIARAZIONE DI CONFORMITA'
In accordance with UK Government guidance
In conformità con le linee guida del governo del Regno Unito

UK CA

The Company *La Società*	**EMEC S.r.l.**
Company Address *Indirizzo della Società*	**Via Donatori di Sangue, 1** **02100 Rieti (RI) - Italia**

This declaration is issued under the sole responsibility of the manufacturer
La presente dichiarazione è rilasciata sotto la sola responsabilità del produttore

Product Description *Descrizione Prodotto*	Motor-driven dosing pump, PRIUS D series *Pompa dosatrice a motore, serie PRIUS D*
Product Identification Codes (the "_" symbols complete the product code based on the configuration of the variants) *Codici Identificativi Prodotto* *(i simboli "_" completano il codice del prodotto in base alla configurazione delle varianti)*	**PD00 _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _**
Serial Number *Numero Seriale*	See the label on the product *Si veda l'etichetta sul prodotto*

The object of the declaration described above is in conformity with the relevant UK Statutory Instruments (and their amendments):
L'oggetto della dichiarazione sopra descritta è conforme ai pertinenti strumenti normativi del Regno Unito (e ai loro emendamenti):

2008 No. 1597	**The Supply of Machinery (Safety) Regulations** *Regolamento sulla sicurezza della fornitura di macchine del 2008*
2008 2016 No. 1091	**The Electromagnetic Compatibility Regulations 2016** *Regolamento sulla compatibilità elettromagnetica del 2016*
2016 No. 1101	**The Electrical Equipment (Safety) Regulations 2016** *Regolamento sull'equipaggiamento elettrico (Sicurezza) del 2016*
2012 No. 3032	**The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012** *Regolamento sulla restrizione dell'uso di determinate sostanze pericolose nelle apparecchiature elettriche ed elettroniche del 2012*

UKCA declaration of conformity model

DECLARATION OF CONFORMITY
DICHIARAZIONE DI CONFORMITA'
In accordance with UK Government guidance
In conformità con le linee guida del governo del Regno Unito

and complies with the following technical standards:
ed è conforme alle seguenti norme tecniche:

BS EN ISO 12100:2010	Safety of machinery - General principles for design - Risk assessment and risk reduction
BS EN 809:1998+A1:2009/AC:2010	Pumps and pump units for liquids - Common safety requirements
BS EN ISO 20361:2019+A11:2020	Liquid pumps and pumps units - Noise test code - Grades 2 and 3 of accuracy (ISO 20361:2019)
BS EN IEC 61326-1:2021	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements
BS EN 61010-1:2010+A1:2019	Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 1: General requirements
BS EN IEC 63000:2018	Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

Authorizes:
Autorizza:
Ing. Fabio Farina
Via Donatori di Sangue, 1 – 02100 Rieti (RI) - Italia – EMEC S.r.l.
To compile the technical file on its behalf (point 2, PART 2, The Supply of Machinery (Safety) Regulations 2008)
A costituire il fascicolo tecnico per suo conto (punto 2, PARTE 2, Regolamento sulla sicurezza della fornitura di macchine del 2008)

Signed for and on behalf of EMEC
Firmato per conto e a nome di EMEC

Date 18/12/2024

Cioglia Claudio – Presidente EMEC S.r.l.

EMEC S.r.l.
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Registro imprese Milano REA MI - 2050351



Disposal of end-of-life equipment by users

This symbol warns you not to dispose of the product with normal waste. Respect human health and the environment by giving the discarded equipment to a designated collection center for the recycling of electronic and electrical equipment. For more information visit the online site.



When dismantling a pump please separate material types and send them according to local recycling disposal requirements. We appreciate your efforts in supporting your local Recycle Environmental Program. Working together we'll form an active union to assure the world's invaluable resources are conserved.