

Diaphragm metering pump EcoPro / EcoEvo / EcoAdd

EcoAdd



EcoPro



EcoEvo



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1 Diaphragm metering pump EcoPro / EcoEvo / EcoAdd

- ▲ Simple and fast operation thanks to plain text operation guidance and multicolor 3.5" graphic display with touch function
- ▲ Adjustable metering range up to 1:12000
- ▲ Different metering modes adjustable (e.g. for high-viscosity products)
- ▲ USB interface (EcoAdd, transmission of operating data, software updates)
- ▲ Bluetooth interface (EcoAdd, operating data retrievable via smartphone APP)
- ▲ Evaluation and visualization tool for PC/laptop (EcoAdd)
- ▲ Variable arrangement of control unit and mounting console



The EcoPro/EcoEvo/EcoAdd is a metering pump series with step motor technology. This drive technology provides a variety of advantages:

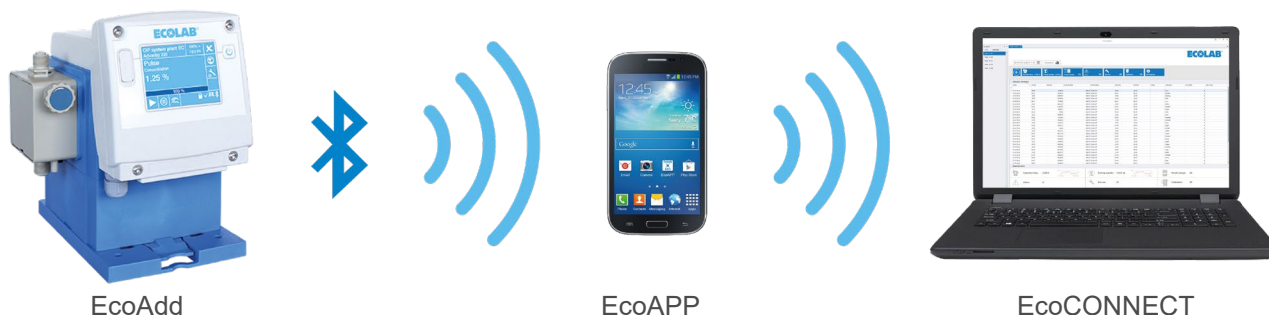
- Precise adjustable metering capacity from 1:100 (for EcoPro/EcoEvo) and 1:12000 (for EcoAdd)
- Almost pulsation-free injection
- Adjustment of the suction lift period for viscous products or difficult suction conditions
- Low-noise operation

The modular structure makes a simple modification of EcoPro to the EcoEvo or EcoAdd version possible.

The control unit can be turned by 90° with simple methods. This allows the adjustment to local conditions. Also the mounting console is for variable use. This makes it suitable for both installations, on a table or on the wall.

EcoAdd also enables a comfortable data exchange through communication interfaces such as USB or optionally Bluetooth.

The scope of delivery is rounded off by practical accessories, so forming a complete range of equipment for all metering uses.



Bluetooth communication by pinboard with smartphone, App and PC software.

Variable structure

Upgrade from EcoPro to EcoEvo or EcoAdd by replacing the control unit



EcoPro/EcoEvo

EcoAdd

Control unit can be rotated by 90°:



Standard version:
Operation from the front and
pump head at the side

Option:
Operation from the front and
pump head on the back side

2 Technical data

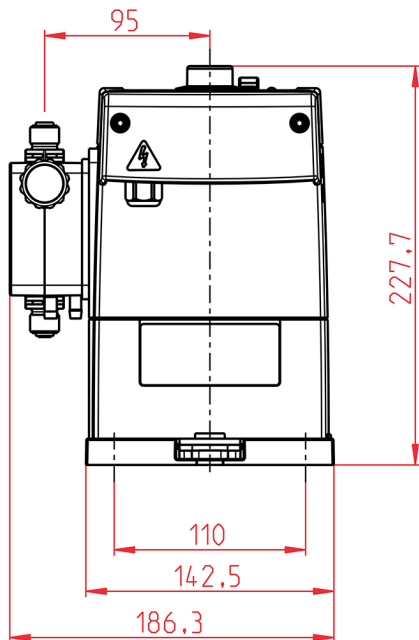
Pump type		5	11	30	50	120
EcoPro/EcoEvo						
EcoAdd						
Pump capacity range EcoPro/EcoEvo	l/h	0.05 - 5	0.11 - 11	0.3 - 30	0.5 - 50	1.2 - 120
Pump capacity range EcoAdd	l/h	0.01 - 5	0.01 - 11	0.01 - 30	0.01 - 50	0.01 - 120
Max. metering back pressure	bar	10	10	3	10	3
Connection thread	Zoll	3/8	3/8	5/8	5/8	1¼
Reproductivity		< ±3 %				
Max. suction height with wet valves	m	2				
Max. metering frequency	1/min	171	190	171	158	171
Max. viscosity (spring-loaded valves)	mPas	1000	1000	500	1000	500
Permissible ambient temperature	°C	2 - 45				
Power supply		115-240 V ±10 % 50/60 Hz				
Safety type		IP 65				
Weight	kg	3.1	3.1	3.8	5.2	5.7
Certificates		CE, UL, CSA				

Materials:

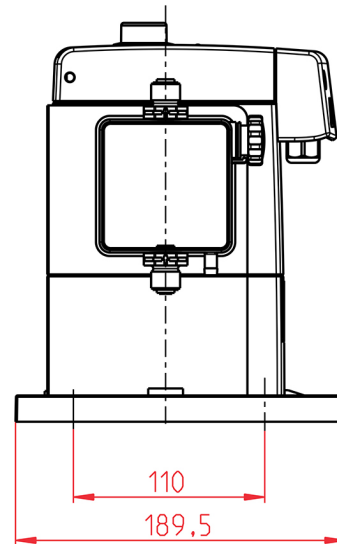
Housing:	PPO (Noryl)
Pump head:	PP or PVDF
Diaphragm:	PTFE – EPDM compound diaphragm
Seals:	FKM or EPDM optional PTFE or FFPM (Kalrez)
Valve balls:	ceramics optional PTFE or stainless steel 1.4401
Valve spring:	Hastelloy C4
Colour:	blue RAL 5007

Dimensions

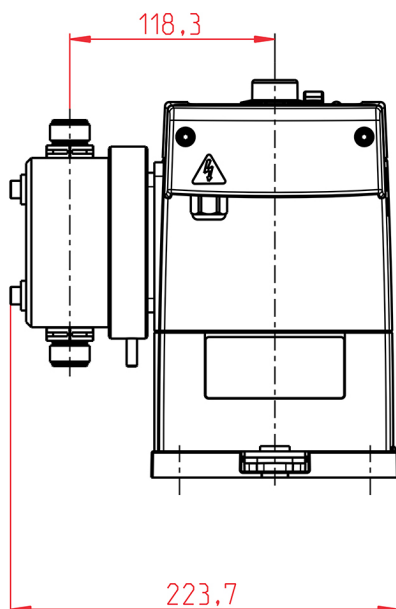
EcoPro/EcoEvo 5 / 10 / 30 l/h or EcoPro 50 l/h:



EcoPro/EcoEvo 5 / 10 / 30 l/h



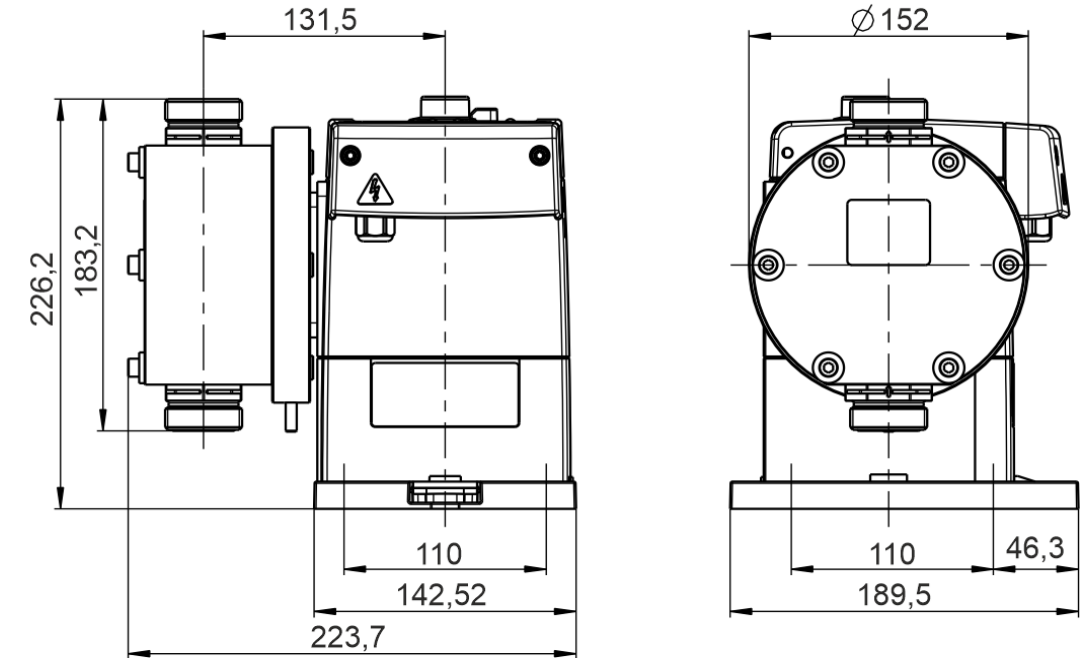
EcoPro/EcoEvo side view



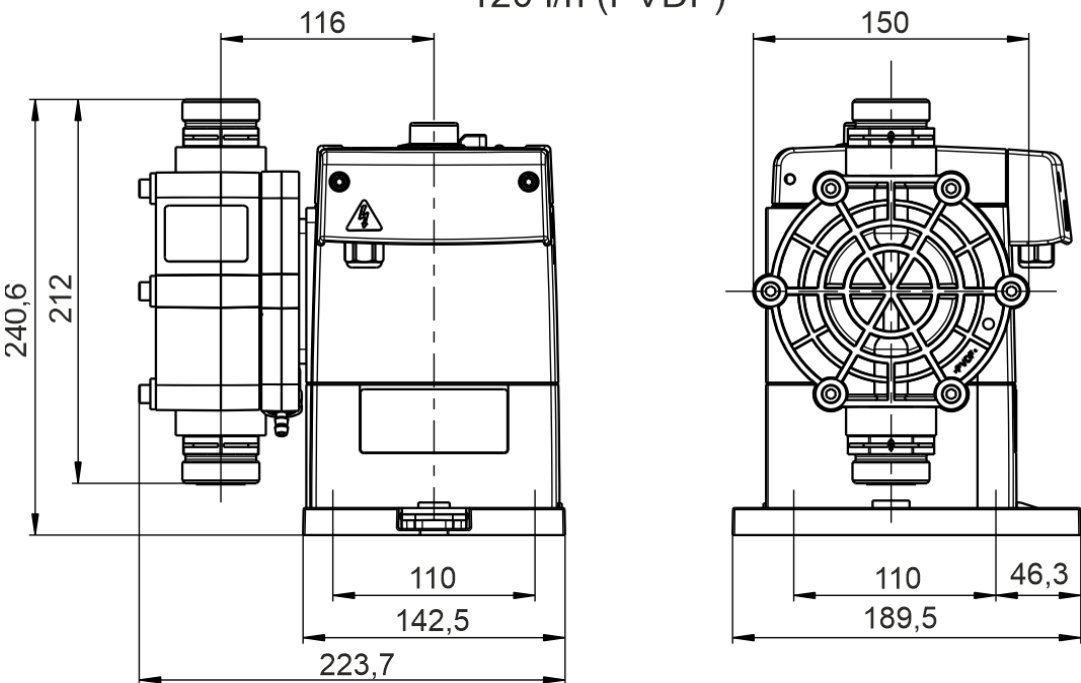
EcoPro/EcoEvo 30 l/h
EcoPro 50 l/h

Dimensions EcoPro 120 l/h:

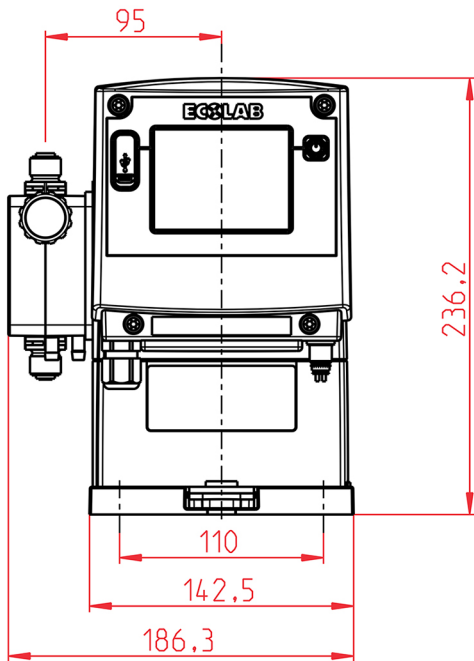
120 l/h (PP)



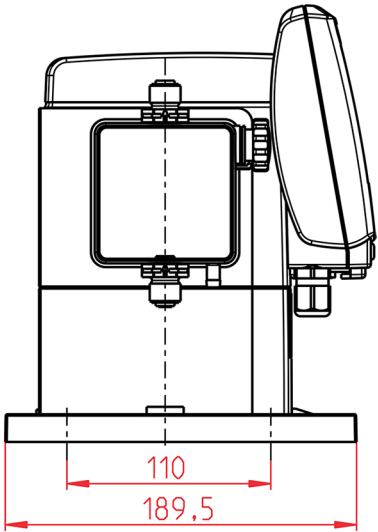
120 l/h (PVDF)



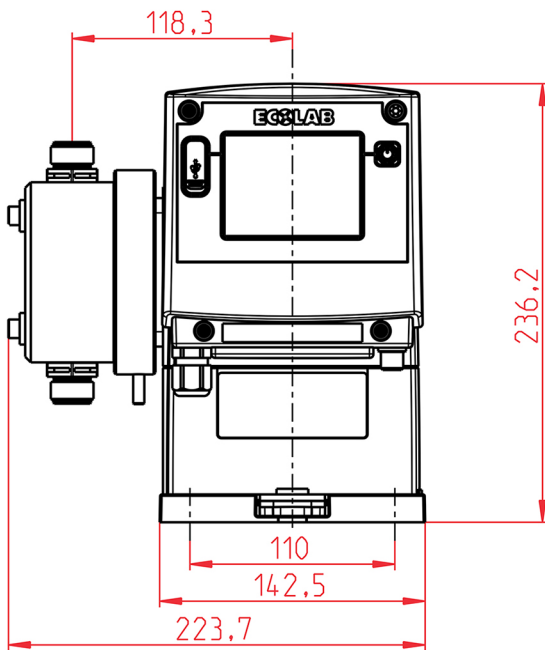
Dimensions EcoAdd 5 / 10 / 30 / 50 l/h:



EcoAdd 5/11 l/h



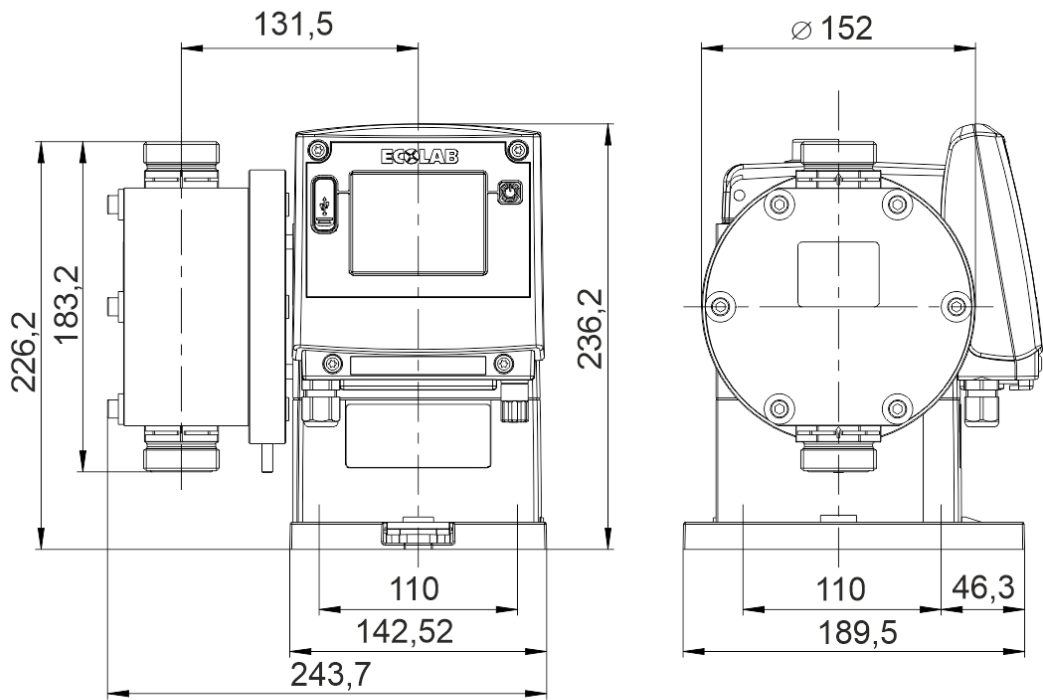
EcoAdd side view



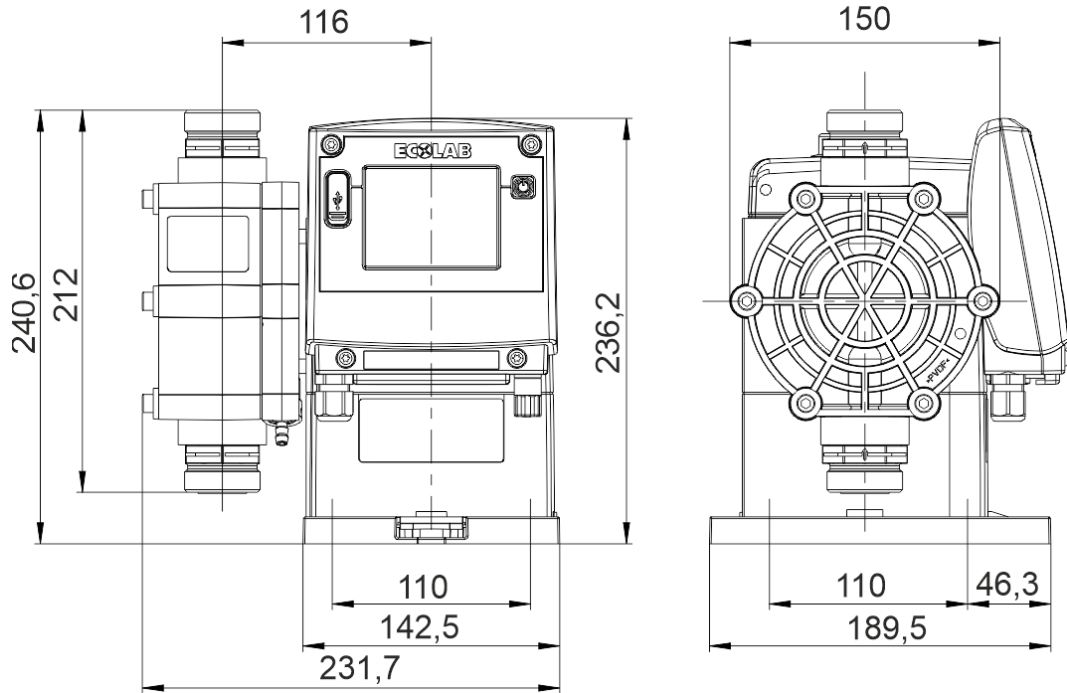
EcoAdd 30/50 l/h

Dimensions EcoAdd 120 l/h:

120 l/h (PP)



120 l/h (PVDF)



3 Ordering data

Ordering data – standard pumps:

Article	Pump code	Article no.
EcoPro		
PP/FKM	EcoPro-ES-00510X-PFC-00S-1S-S0	15201000
	EcoPro-ES-01110S-PFC-00S-1S-S0	15202000
	EcoPro-ES-03003S-PFC-00S-1S-S0	15203000
	EcoPro-ES-05010M-PFC-00S-1S-S0	15205000
	EcoPro-ES-12003M-PFC-00S-1S-S0	15206000
PP/EPDM	EcoPro-ES-00510X-PEC-00S-1S-S0	15201100
	EcoPro-ES-01110S-PEC-00S-1S-S0	15202100
	EcoPro-ES-03003S-PEC-00S-1S-S0	15203100
	EcoPro-ES-05010M-PEC-00S-1S-S0	15205100
	EcoPro-ES-12003M-PEC-00S-1S-S0	15206100
PVDF/FKM	EcoPro-ES-00510X-DFC-00S-1S-S0	15201300
	EcoPro-ES-01110S-DFC-00S-1S-S0	15202300
	EcoPro-ES-03003S-DFC-00S-1S-S0	15203300
	EcoPro-ES-05010M-DFC-00S-1S-S0	15205300
	EcoPro-ES-12003M-DFC-00S-1S-S0	15206300
PVDF/EPDM	EcoPro-ES-00510X-DEC-00S-1S-S0	15201400
	EcoPro-ES-01110S-DEC-00S-1S-S0	15202400
	EcoPro-ES-03003S-DEC-00S-1S-S0	15203400
	EcoPro-ES-05010M-DEC-00S-1S-S0	15205400
	EcoPro-ES-12003M-DEC-00S-1S-S0	15206400
EcoEvo		on request
EcoAdd		
PP/FKM	EcoAdd-ES-00510X-PFC-00S-1S-S0	15221000
	EcoAdd-ES-01110S-PFC-00S-1S-S0	15222000
	EcoAdd-ES-03003S-PFC-00S-1S-S0	15223000
	EcoAdd-ES-05010M-PFC-00S-1S-S0	15225000
	EcoAdd-ES-12003M-PFC-00S-1S-S0	15226000
PP/EPDM	EcoAdd-ES-00510X-PEC-00S-1S-S0	15221100
	EcoAdd-ES-01110S-PEC-00S-1S-S0	15222100
	EcoAdd-ES-03003S-PEC-00S-1S-S0	15223100
	EcoAdd-ES-05010M-PEC-00S-1S-S0	15225100
	EcoAdd-ES-12003M-PEC-00S-1S-S0	15226100
PVDF/FKM	EcoAdd-ES-00510X-DFC-00S-1S-S0	15221300
	EcoAdd-ES-01110S-DFC-00S-1S-S0	15222300
	EcoAdd-ES-03003S-DFC-00S-1S-S0	15223300
	EcoAdd-ES-05010M-DFC-00S-1S-S0	15225300
	EcoAdd-ES-12003M-DFC-00S-1S-S0	15226300
PVDF/EPDM	EcoAdd-ES-00510X-DEC-00S-1S-S0	15221400
	EcoAdd-ES-01110S-DEC-00S-1S-S0	15222400
	EcoAdd-ES-03003S-DEC-00S-1S-S0	15223400
	EcoAdd-ES-05010M-DEC-00S-1S-S0	15225400
	EcoAdd-ES-12003M-DEC-00S-1S-S0	15226400

Scope of supply: Diaphragm metering pump (EcoPro/EcoAdd), mounting console,
operating instructions
without hose connection material

Hose connection material, see accessories.

4 Pump code

Control unit

1. Pump name / electrical version

EcoPro	=	Keys / settings:	on/off, test, viscosity high/low, adjustment range 1:100
		LEDs:	operation, viscosity high/low, alarm
		Inputs:	release
EcoEvo	=	Keys / settings:	on/off, test, operating mode, viscosity high/low, adjustment range 1:100
		LEDs:	operation, operating mode, viscosity high/low, alarm
		Inputs:	release, pulse, level
		Outputs:	dosing quantity, alarm
EcoAdd	=	Keys / settings:	on/off, 4 viscosity modes, 5 operating modes adjustment range 1:12000
		Display:	touch display
		Operation mode:	manual, pulse, current, timer, charge
		Inputs:	release, pulse, current, charge, level, flow, diaphragm break
		Outputs:	dosing quantity, alarm
		Communication:	USB
		Option:	Bluetooth extension module

2. Mains supply

E	=	mains cable 2.5 m with EU plug
U	=	mains cable 2.5 m with US plug
N	=	mains cable 2.5 m without plug (end splices)

3. Control unit versions

S	=	standard
B	=	Bluetooth extension (EcoAdd)
T	=	rotated control unit
1	=	Bluetooth extension and rotated control unit (EcoAdd)

EcoPro- E S - 00510X- P F C - 00 S - 1 S - S 0

Diaphragm metering pump EcoPro / EcoEvo / EcoAdd

Pump code



Pump head

		4. Pump capacity (max.) / back pressure / drive
	00510X	= 5 l/h / 10 bar / drive size XS
	01110S	= 11 l/h / 10 bar / drive size S
	03003S	= 30 l/h / 3 bar / drive size S
	05010M	= 50 l/h / 10 bar / drive size M
	12003M	= 120 l/h / 3 bar / drive size M
		5. Material pump head / valves
	P	= PP
	D	= PVDF
		6. Sealing material
	F	= FKM
	E	= EPDM
	T	= PTFE-coated
	K	= FFPM (Kalrez)
		7. Valve ball material
	C	= ceramics
	T	= PTFE
	S	= stainless steel V4A
		8- Valve spring
	0	= without spring (--)
	1	= suction valve (SV): --, pressure valve (PV): 0.1 bar
	2	= SV: --, PV: 0.2 bar (5, 11 l/h)
	3	= SV: --, PV: 0.4 bar (5, 11 l/h)
	5	= SV: 0.1 bar, PV: 0.1 bar
		9. Hydraulic connection
	0	= without hose connection
		10. Pump head version
	S	= standard
EcoPro- E S -	00510X- P F C - 00 S - 1 S - S 0	

Miscellaneous

		11. Power supply
	1	= 115 – 240 V 50/60 Hz
		12. Housing / drive version
	S	= standard
		13. Packaging
	0	= without packaging
	S	= standard packaging
		14. Accessories
	0	= without accessories
EcoPro- E S - 00510X- P F C - 00 S -	1 S - S 0	

5 Pump kits

The pump kit is a complete system. The components of this set have been selected to match the respective pump size and to be compatible with the pump head materials. With this operational metering system, the user no longer has to go through the tedious search for suitable individual parts for the metering task.



EcoAdd pump kit

5.1 Pump kits EcoPro

Pump kit EcoPro 5 l/h DFC with bottom admission valve

Consisting of:

	Article	Article no.
	Diaphragm metering pump EcoPro EcoPro-ES-00510X-DFC-00S-1S-S0	15201300
	Bottom admission valve BSV VC PV FP KE 000 G 3/8 - 22	243129
	Hose PE 4/6 mm Length: 5 m	417400301
	Metering valve DVP DDFC-H03-G1/2-G3/8-045-S00	252157
	Connection sets (3 pcs.) Connection set Di4/Da6-G3/8-PVDF-NA	252101

Diaphragm metering pump EcoPro / EcoAdd Pump kits



Pump kit EcoPro 11 l/h DFC with bottom admission valve

Consisting of:



Article

Article no.

Diaphragm metering pump EcoPro

EcoPro-ES-01110X-DFC-00S-1S-S0

15202300



Bottom admission valve

BSV VC PV FP KE 000 G 3/8 - 23

243130



Hose PE 6/8 mm

Length: 5 m

417400310



Metering valve

DVP DDFC-H03-G1/2-G3/8-045-S00

252157



Connection sets (3 pcs.)

Connection set Di6/Da8-G3/8-PVDF-NA

252105

Diaphragm metering pump EcoPro / EcoAdd Pump kits



Pump kit EcoPro 50 l/h PFC with bottom admission valve

Consisting of:

Article

Article no.



Diaphragm metering pump EcoPro

EcoPro-ES-05010M-PFC-00S-1S-S0

15202500



Bottom admission valve

BSV PV PV FP GL 000 G 5/8 – 06

249018



PVC-fabric PE 6/12 mm

Length: 5 m

417400123



Metering valve

DVP PPFC-H07-G1/2-G5/8-045-S00

252177



Connection sets (3 pcs.)

Connection set Di6/Da12-G5/8-PP-GY

252118

5.2 Pump kits EcoAdd

Pump kit EcoAdd 5 l/h DFC with suction lance 540 mm

Consisting of:

	Article	Article no.
	Diaphragm metering pump EcoAdd EcoAdd-ES-00510X-DFC-00S-1S-S0	15221300
	Suction lance, 540 mm A-SGL-VVF0C-G3/8-06-2SS-0540-99-99-p	10240524
	Hose PE 4/6 mm Length: 5 m	417400301
	Metering valve DVP DDFC-H03-G1/2-G3/8-045-S00	252157
	Connection sets (4 pcs.) Connection set Di/Da 4/6-6/8-6/12-G3/8-PV-NA	252138

Diaphragm metering pump EcoPro / EcoAdd Pump kits



Pump kit EcoAdd 11 l/h DFC with suction lance 540 mm

Consisting of:



Article

Article no.

Diaphragm metering pump EcoAdd

EcoAdd-ES-01110S-DFC-00S-1S-S0

15222300



Suction lance, 540 mm

A-SGL-VVF0C-G3/8-06-2SS-0540-99-99-p

10240524



Hose PE 5/8 mm

Length: 5 m

417400300



Metering valve

DVP DDFC-H03-G1/2-G3/8-045-S00

252157



Connection sets (4 pcs.)

Connection set Di5/Da8-G3/8-PVDF-NA

252103

Diaphragm metering pump EcoPro / EcoAdd Pump kits



Pump kit EcoAdd 50 l/h DFC with suction lance 475 mm

Consisting of:



Article

Article no.

Diaphragm metering pump EcoAdd

EcoAdd-ES-05010M-PFC-00S-1S-S0

15225000



Suction lance, 475 mm

A-SGL-VVF0C-G3/8-06-2SS-0540-99-99-p

10240410



PVC-fabric PE 10/16 mm

Length: 5 m

417400126



Metering valve

DVP PPFC-H07-G1/2-G5/8-045-S00

252177



Connection sets (4 pcs.)

Connection set Di/Da 6/12-10/16-G5/8-PP-GY

249237