



When performance is vital

ELADOS[®] EMP IV

- ▲ High delivery capacity at low number of strokes
- ▲ Electronics with display and mode switch for simple pre-selection of menu
- ▲ Mechanical stroke adjustment
- ▲ Empty signal and stroke signal output
- ▲ Extensive range of accessories

ECOLAB[®]
Everywhere It Matters.

The ELADOS® EMP IV within the metering system

- ▲ Modular structure permits simple all-in solutions
- ▲ In-house project planning team ensures application-driven system engineering
- ▲ Variant-configurator guarantees need-orientated selection of materials

Metering valve

Precision metering with no after-dripping, secure isolation of metering line from process zone



Flowmeter (optional)

Registration of consumptions, flow monitoring

Pulsation attenuator

Elimination of pressure surges, reduction of pressure peaks

Multi-function valve

4 functions in 1 valve!
Cost-efficient safety

ELADOS® EMP IV diaphragm metering pump

When performance is vital

Suction lance

Safe and trouble-free chemicals sampling with reserve and empty signalization

Safety catch tray

An integral component of professional standard chemicals storage and handling

Chemical storage



ELADOS® EMP IV

Motor-driven diaphragm metering pump for delivery rates from 140 to 750 l/h

- ▲ Self-priming
- ▲ High metering accuracy
- ▲ Low-noise
- ▲ Careful materials selection for high resistance to chemicals
- ▲ Flexible use thanks to electronic variants
- ▲ Extensive range of accessories



Pump capacity: 140 l/h (10 bar); 210 l/h (8 bar); 450 l/h (6 bar); 630 l/h (4 bar); 750 l/h (3 bar)

Electrical version:

- E00** Terminal box on motor, mechanical stroke adjustment
- E10** On/Off switch, terminal box on motor, mechanical stroke adjustment
- E60** Mechanical stroke adjustment
 - back-lit graphic display, 4 operating keys
 - Single stroke control (each stroke is completely executed)
 - Metering monitoring via stroke-signal output or via external metering-monitoring system (e.g. oval gear meter) possible
 - Registration of operating and consumption data
 - Diaphragm failure detection (optional)

Selectable operating modes:

Internal mode	External mode
Selection of metering rate/ metering frequency via: <ul style="list-style-type: none"> • Strokes/min • Percent • Liter/h (or gallon/h) 	<ul style="list-style-type: none"> • Pulse mode (actuation via pulses) <ul style="list-style-type: none"> - Pulse multiplication (one incoming pulse = n metering strokes) - Pulse division (n incoming pulses = 1 metering stroke) • Standard signal mode (actuation via external standard signal 0/4-20mA or 20-0/4mA) • Charge mode (a previously selected quantity is metered, with initiation via an external initiation pulse)
Inputs: <ul style="list-style-type: none"> • Level monitoring, package vessel (reserve and empty signal) • Pulse • Standard signal • Enable 	Outputs: <ul style="list-style-type: none"> • Level monitoring package vessel • Stroke signal • Malfunction

E60^{PLUS} (E60 + Dongle Plate E60) as E60, but additional display of real metering quantity/time and automatic readjustment of pump output (only in combination with external flow monitoring system, e.g. oval gear meter)

Pump head material: PP = Polypropylen, PV = PVDF (Polyvinylidenfluorid); VA = stainless steel 1.4571

Valve ball material: GL = glass; VA = stainless steel 1.4401; KE = ceramics; PT = PTFE (Teflon)

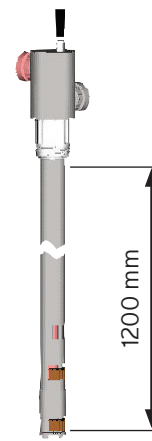
Sealing material: FP = FPM (Viton B); EP = EPDM; KA = FFPM (Kalrez); PT = PTFE (Teflon)

Power supply: 230 V 50/60Hz; 115 V 50/60 Hz; 3 PE 400/230 V 50/60 Hz

DN 25 suction lance

- ▲ Robust construction
- ▲ Reserve and empty signalization
- ▲ Integrated drum adapter
- ▲ With return line option

Length:	1200 mm
Suction lance material:	PVC
Sealing material:	FPM (Viton B) / EPDM
Valve ball material:	glass



Multi-function valve

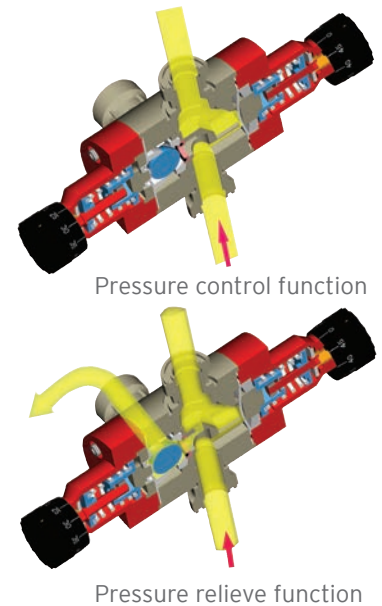
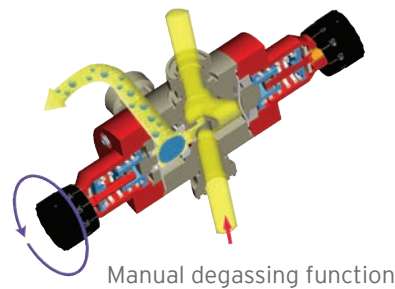
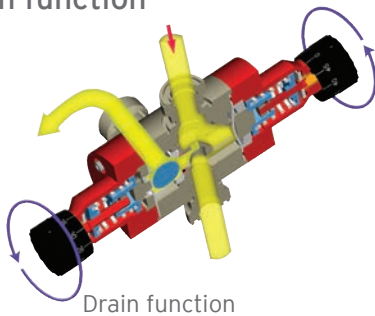
- ▲ Maximum process reliability
- ▲ Simple installation
- ▲ Easy operation
- ▲ **4 in 1** for cost savings

Thread connecting side:	G1 1/4" oder G2"
Housing material:	PP or PVDF
Sealing material:	FPM (Viton B) or EPDM
Diaphragm material:	EPDM/PTFE coated
Valve ball:	glass



4 functions in 1 valve!

1. Pressure control function: adjustable 0.5 - 3 bar (preset to 0.5 bar)
2. Pressure relieve function: adjustable 1 - 10 bar (preset to 3 bar)
3. Manual degassing function
4. Drain function



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