

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



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:	EOO Terminal box on motor, mechanical stroke adjustment
	<u>E10</u> 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: • Strokes/min • Percent • Liter/h (or gallon/h)	 Pulse mode (actuation via pulses) 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:	Outputs:
 Level monitoring, package vessel (reserve and empty signal) Pulse Standard signal Enable 	 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

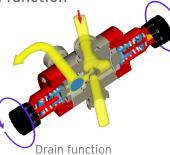
Thread connecting side:	G1 1/4" oder G2"
Housing material:	PP or PVDF
Sealing material:	FPM (Viton B) or EPDM
Diaphragm material:	EPDM/PTFE coated
Valve ball:	glass

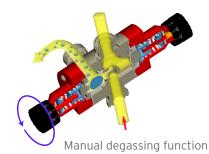
4 functions in 1 valve!

1200 mm

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





Pressure control function

Pressure relieve function

