

Reliable Dosing of Chemicals

Solenoid diaphragm dosing pumps play an important role in the reliable and accurate dosing of liquids.

Encore® EK metering pumps are specifically designed for water treatment and the process industry.

Wide Range of Applications

The Encore® EK is available in seven sizes for metering applications ranging to 14.98 lph with back pressures up to 16 bar. Double-ball valves ensure accurate, consistent dosing. The dosing rate can be adjusted by changing the stroke frequency manually or via external control contact.

Several different materials and connections are available for wetted-end components. By using appropriate and recommended materials, the Encore® EK can be used in a wide variety of process applications.

Matching accessory sets with tubing, injection nozzles and suction lines allow quick installation and reliable operation.

Simple to Use and Space-saving

Thanks to the sturdy, low-maintenance solenoid drive, the media being supplied (for example acids, alkalis, coagulants and flocculants) is reliably and accurately dosed.

The combination of the Encore® EK's solid design and the easy-to-use digital controls allow for short set up times and efficient operation.

The compact design and the small footprint allow for easy integration into dosing systems even for installations with limited space available.

Wall mounting is possible provided the check valves remain in a vertical orientation by rotating the head.



In Short

- Capacity range to 14.98 lph, up to 16 bar
- Power supply 110 VAC or 230 VAC, 50/60 Hz Multi-language menu support
- Easy-logic menu controls with graphical display guidance
- Calibration functionality
- Multi-unit capacity indication
- Eco-operation settings
- Integrated vented head (standard on plastic version)
- Wall and floor mounting possible without a bracket
- Double-ball valves ensure accurate dosing
- Materials available: PVC (standard), PP, PVDF
- and Stainless Steel
- Material consistency for pumps and accessories
- Dosing heads and valves for high-viscosity media are available



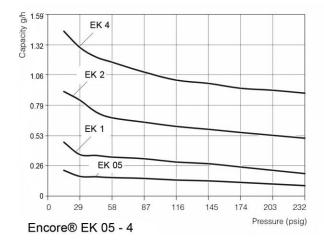
Technical Data

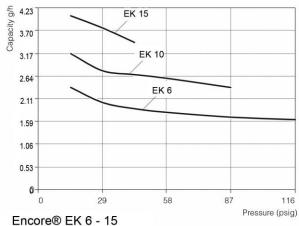
Encore® EK		05	1	2	4	6	10	15		
Delivery capacity at max. pressure		lph	0.34	0.75	1,89	3.36	6.20	9.08	12.98	
		ml/stroke	0.05	0.05	0.2	0.31	0.57	0.83	0.86	
Max. supply pressure		bar	16				8	6	2.96	
Delivery capacity at medium pressure		lph	0.52	1.09	2,30	3.78	6.81	10.0	14.98	
		ml/stroke	0.08	0.07	0.24	0.35	0.63	0.92	1.0	
Average back pressure		bar	8		4 2.96 0.96			0.96		
Max. stroke frequency		SPM	120	250	160		180 250			
Suction head for non-gassing media		MHO	4.8	4.87 2.75		2				
Max. supply pressure		bar	0.75 bar							
Nominal valve width			DN3				DN4			
Voltage supply			230 V AC +/- 10%, 50/60 Hz or 115 V AC +/- 10%, 50/60 Hz							
Power consumption		W	8	13	19	25 22				
Protection class			IP 65 (with covering caps on the connections)							
Insulation class			F							
Weight	PVC, PP, PVDF	lb	~ 7.0							
	Stainless Steel	10	~ 9.5							
Max. ambient temperature		°C	Stainless Steel/PVDF 45° (40° with PVC parts)							
Max. temperature of the medium		°C	Stainless Steel/PVDF 80° (with PVC parts 35°; with PP parts 60°)							

Flow Curves

The flow curves are valid for ambient temperatures of 20°C (68°F) and dosing water at 100% stroke frequency. The delivery capacities depend on the medium (density and viscosity) and temperature.

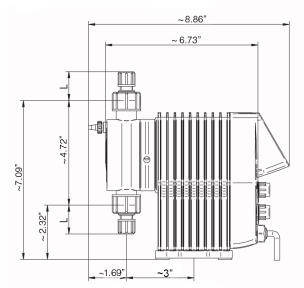
Phone: +44 (0)1622 719945

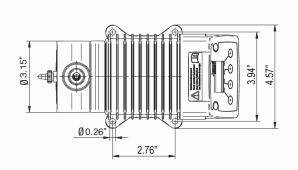




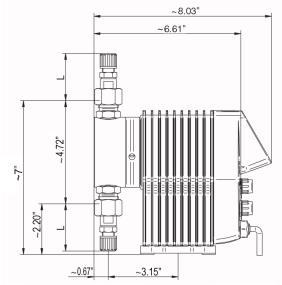


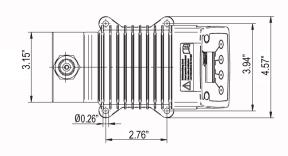
Dimensions





Encore®EK with dosing head made of PVC, PP or PVDF





Encore®EK with dosing head made of stainless steel

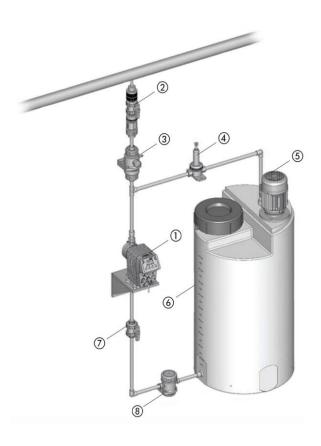
Material	Size	L
	1/4" x 3/8"	1.34"
PVC, PP, PVDF	1/4" x 7/16"	1.34"
	1/4" FNPT	1.34"
1.4571 / PVDF	1/4" FNPT	1.96"
1.43/1/ PVDF	1/4" FNPT	2.12"



Accessories

Even the best pump can be improved - simply by the addition of appropriate accessories.

Suitable sets of accessories, consisting of suction/ discharge tubing, foot valve and injection nozzle, are available for the dosing pumps.



To turn your dosing pump into an efficient dosing system, we recommend using the following accessories:

- Injection nozzles to dose the medium into the main line and to prevent it from flowing back into the pressure line
- Back pressure and pressure relief valves - to increase dosing accuracy or to protect the system against excessive pressure
- Pulsation dampener to dampen supply flow as well as to reduce discharge flow pulsations
- Priming aids to significantly ease priming of dosing pumps with low supply volumes per stroke, for large suction heights, highly viscous dosing media, for initial priming or when priming after the system has been
- Suction pressure regulator to prevent medium flow when the dosing pump is not running or to prevent a vacuum being formed in the event of a pipe failure

Please contact us for more information on accessories and metering pump systems.

Legend

- Encore® EK
- Injection nozzle with shut-off valve
- Pulsation dampener
- 4. Pressure relief valve
- 5. Electrical agitator
- 6. Dosingtank
- 7. Shut-off valve
- 8. Suction pressure regulator

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