



PISTON DIAPHRAGM DOSING PUMP FKM IREG



Robust and proven and now with intelligent control iReg: the piston diaphragm dosing pumps FKM.

The piston diaphragm dosing pumps of Alltech are suitable for different applications. They fulfill the high demands on operational safety and accuracy. The dosing capacity of the piston diaphragm dosing pumps can be adjusted by changing two control variables. By adjusting the stroke length, the volume of hydraulic fluid displaced per stroke by the dosing piston can be adjusted. The setting of the displaced volume is done linearly from 0-100% at standstill or operation. In addition, the stroke frequency is changed with a second control variable, the drive speed. This ensures a high setting range with an even more accurate setting. All dosing pumps of the FKM series are equipped as standard with a TÜV certified pressure relief valve, integrated in the hydraulic unit of the pump.

Intelligent control ensures monitoring.

In addition, the new, intelligent control also ensures the over/under pressure surveillance and monitors a multitude of performance parameters. The piston diaphragm dosing pump controls and monitors the preselected dosing capacity and the system pressure autonomously. All operation and status messages are displayed, stored and provided as digital signals.

Unique is that the control and regulation system iReg can use two analogue inputs. Thus, the control of the dosing capacity, for example for phosphate elimination, is proportional to the amount of wastewater as well as depending on the phosphate-freight. The display of the dosing pump can be used to set a β -value, which modifies the ratio according to process needs. In addition, the dosing pump can also be set for batch operation, in which the quantity and duration can be selected individually.



Display and operating panel of piston diaphragm dosing pump FKM iReg

Dosing capacity

P_{max} 50 bar	0 – 3 l/h
	0 – 6 l/h
	0 – 25 l/h
P_{max} 25 bar	0 – 25 l/h
P_{max} 16 bar	0 – 40 l/h
P_{max} 8 bar	0 – 80 l/h
	0 – 130 l/h
P_{max} 6 bar	0 – 190 l/h
Control range	1 : 1000

Technical specifications

Ambient temperature:	-5°C bis +55°C
Operating voltage:	90 -265 V 50/60 Hz
Protection class:	IP 65
Materials:	PVC/PTFE
	PVDF/PTFE
	Stainless steel/PTFE
Seal materials:	EPDM, FKM, PTFE
Temperature range medium:	-5°C bis +120 °C

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