

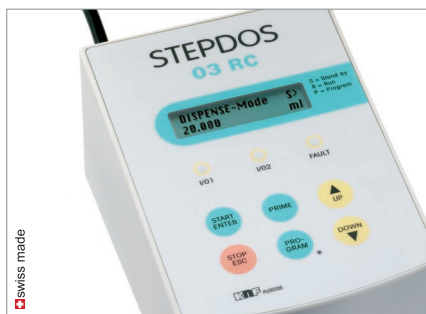
Stepdos®

the metering pump for liquids



First class pumps for first class science
www.knflab.com

The newest way to meter aggressive and neutral liquids



- Continuous and steady flow from 0.03 ml/min to 80 ml/min
- Self priming up to 4 mWg
- Able to run dry
- Analog and digital control
- Splashproof IP 65
- Practically pulsation free

One solution, two versions, countless applications

Pump type Stepdos®	Flow rate at atmos. pressure (ml/min) (with water at 20°C)	Max. suction head (mWg)	Max. pressure head (mWg)
FEM 03	0.03 - 30	4	60
FEM 08	0.08 - 80	3	20

- Protection class IP 65
- Mains supply 100-230V / 50-60Hz
- Allowed ambient temperature ... 5-40°C
- Allowed liquid temperature 5-80°C
- Repeatability +/- 1%
- Accuracy +/- 2%
- Weight 1.5 kg
- Dimensions 190 x 115 x 80mm

Manual or external controlling

Version	Control	Function
18S - Version	Manual operation through keypad	<ul style="list-style-type: none"> • Run mode for continuous dosing • Dispense mode by volume (min. 50 µl), time and repeatable metering • Rapid suction feature
18RC - Version	Either manual operation or external control	<ul style="list-style-type: none"> • Analog control: 0-20mA, 4-20mA, 0-10V, 0-5V • Digital control: RS232 and RS485 (up to 99 pumps) • Impulse operation, 2 Logic input • Output signal fault alarm • Windows compatible software and cables included

Extremely high chemical resistance

- Our diaphragms are PTFE covered, our valves are made from FFPM
- The head is available in PP/PVDF/PTFE or Stainless Steel

Connections

Model	FEM 03*	FEM 08
PP - PVDF	UNF (F) 1/4" - 28	For tubing 4/6 mm
SS - PTFE	UNF (F) 1/4" - 28	NPT 1/8" (F)

*Supply with 1 meter tubing PTFE 3.2 x 1.6 mm and connectors

Choose your pump. Example: FEM 08 KT.18RC

Model	+	Head material	+	Control	=	Your Stepdos®
FEM 03		KT (PP)		18S - Version		
FEM 08		TT (PVDF)		18RC - Version		
		FT (PTFE)				
		ST (Stainless Steel)				