Precise and user-friendly

DME Digital Dosing pumps up to 940 l/h

General

Dosing is precision work, Digital Dosing represents state-of-the-art technology. Grundfos DME Digital Dosing pumps combine perfect precision with user-friendlyness, covering large dosing quantities in the range from 375 l/h to 940 l/h with few variants.

Familiar Digital Dosing benefits

The DME pump range has all the benefits of the highly acclaimed smaller Digital Dosing range, making accurate dosing easier than ever.

Precise and easy setting

The operator can easily install and set the pump to dose exactly the quantity of dosing medium required in the application. In the display, the setting of the pump is read out directly in ml/h or l/h, pulse or batch, and the operation mode is easily identified by means of icons.

Turndown ratio 1:800

With a turndown ratio ten times better than that of traditional equipment, DME Digital Dosing pumps offer maximum flexibility and accuracy.

Turndown of the suction stroke to 75 %, 50 % or 25 % of the maximum speed ensures optimal priming and displacement of even the most difficult liquids.

Unique technology

A unique drive and microprocessor control ensure that the medium is dosed precisely and with low pulsation, even if the pump is operating with high-viscosity or degassing media. Instead of the conventional stroke-length adjustment, the capacity of the DME is regulated by automatic adjustment of the motor speed during the discharge stroke and by fixed suction stroke speed, ensuring optimal and uniform mixing.

Fieldbus communication

Available with Profibus interface to supply performance data and status information for quality control, preventive maintenance and future reference.

Overload protection

Built-in overload protection monitors the counterpressure of the pump and protects it against too high pressure loads.

Switch-mode power supply

The switch-mode power supply makes sure that Grundfos DME Digital Dosing pumps can be used worldwide within the 100-240 VAC – 50/60 Hz range.

Several material variants

The dosing heads of DME pumps are available in stainless steel, polyvinylidene fluoride and recyclable, degradable, cost-efficient polypropylene.

Applications

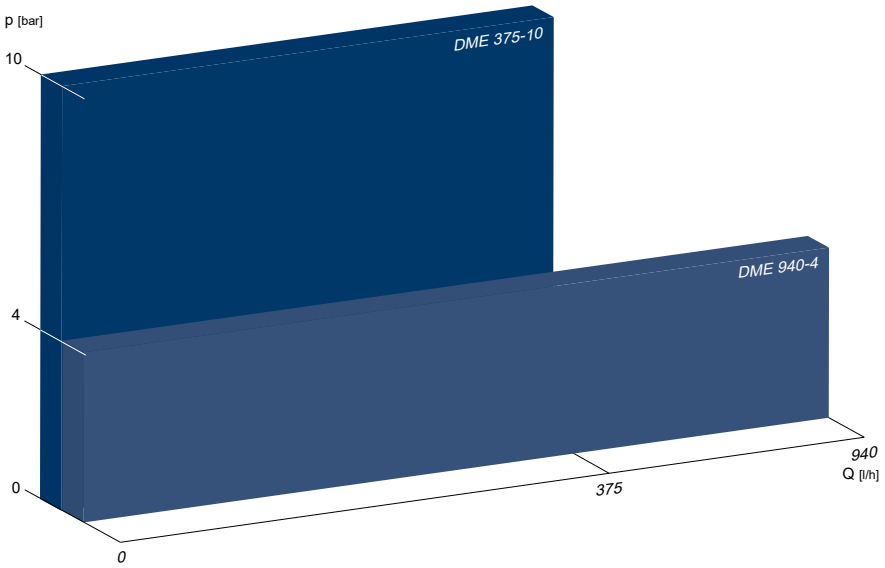
- Pulp and paper industry
- Textile industry
- Food and beverage industry
- Industrial process water and waste water treatment
- Drinking water treatment

Technical data

Pump type			DME 375	DME 940
Mechanical data	Max. capacity	[l/h]	376	940
	Max. capacity with anti-cavitation 75 %*	[l/h]	282	705
	Max. capacity with anti-cavitation 50%*	[l/h]	210	525
	Max. capacity with anti-cavitation 25 %*	[l/h]	101	252
	Max. pressure	[bar]	10	4
	Max. stroke frequency	[strokes/min]	160	
	Max. suction lift during operation	[m]	6	
	Liquid temperature	[°C]	0 to 50	
	Ambient temperature	[°C]	0 to 45	
	Accuracy of repeatability	[%]	± 1	
Electrical data	Supply voltage	[VAC]	1 x 100-240 V, 50/60 Hz	
	Max. current consumption at 100 V	[A]	2.4	
	Max. current consumption at 230 V		1.0	
	Max. power consumption P_1	[W]	240	
	Enclosure class		IP65	
	Insulation class		B	
Signal output	Max. load of alarm relay output (at ohmic load)	[A]	2	
	Max. voltage, alarm relay output	[V]	42	
Signal input	Voltage in level sensor input	[VDC]	5	
	Voltage in pulse input	[VDC]	5	
	Min. pulse-repetition period	[ms]	3.3	
	Impedance in analog 0/4-20 mA input	[Ω]	250	
	Max. loop resistance in pulse signal circuit	[Ω]	250	
Weight		[kg]	21	22.5
Sound pressure level	Max. sound pressure level	[dB(A)]	70	

* Irrespective of the counterpressure

Performance range



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