Next generation simplicity and precision for critical dosing tasks

Grundfos DDA SMART Digital Dosing pumps have been redesigned while keeping renowned functionality.

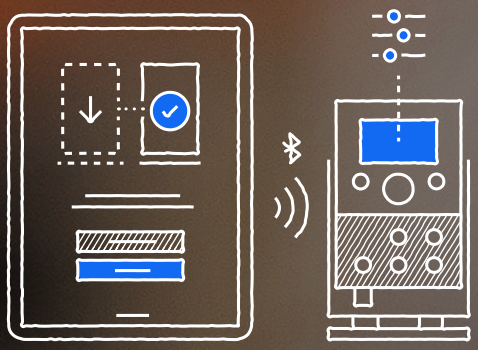
reddot winner 2024

GRUNDFOS

Possibility in every drop

Grundfos DDA SMART Digital Dosing pumps are known to be the highest performing and most accurate dosing pumps available, particularly for complex and demanding applications.

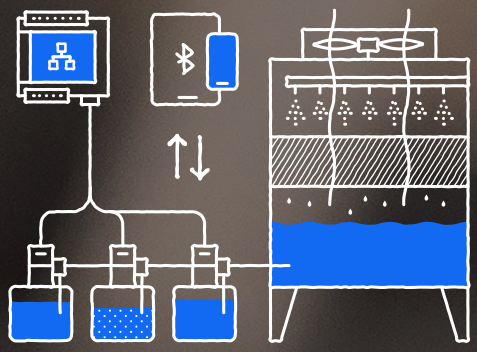
- Smooth and continuous dosing from the powerful variable-speed stepper motor with a turn-down ratio of up to 1:3000
- Patented FCM (FlowControl and Measurement) sensor reliably measures the dosed flow and the pressure on each suction and discharge stroke
- Enhanced connectivity and comprehensive remote monitoring capabilities, making the need for external communication modules redundant and saving costs
- Easy commissioning using the Grundfos GO app
- Increased repairability and serviceability drastically improves the lifetime of the pump while keeping the same accuracy
- Spare part kits are available, making it possible to replace the pump's main electronics, the hydraulic wear parts and the FCM sensor



The easiest and safest to commission

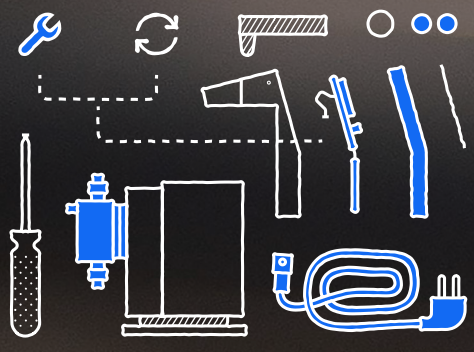
The high-resolution display and the user interface with guided setup menus make the DDA the simplest pump to commission. Setup remotely using the Grundfos GO app, with no need to access the pump or chemical area. This saves time and valuable resources, particularly when commissioning multiple pumps by selecting the 'store-recall' feature available on the app, enabling copy-paste of settings from one pump to another.

A 'condition check' performed at start-up analyses each stroke and reports any faults in the system setup, making sure your system is safe and reliable – and avoiding costly errors.



Enhanced connectivity and supervision

Grundfos communication technology elevates the DDA to the highest level. The Grundfos GO app allows clear guided setup and firmware upgrades. The DDA has integrated Modbus RTU and Modbus TCP – replacing the need for external communication modules or protocols leading to cost savings and simpler integration into a fieldbus setup. Further communication integration options such as Profibus, Profinet and Ethernet are available using Grundfos CIM modules.



The easiest and safest to repair, service and maintain

Built to last, we've increased options for repair and service, and the design not only extends the pump's life, but also reduces waste. Spare part kits will be available making it possible to replace the pump's main electronic board, the hydraulic wear parts and the FCM flow and pressure sensor. The power cable/plug is now an industry standard, making it easy to remove or replace.

The control cube can be positioned in three ways: left, front and right. The mounting plate allows for easy wall or surface or tank mounting, and you can lock the pump to block or avoid unauthorised access.

Renowned and enhanced capabilities

- Turn-down ratio up to 1:3000 with constant 100% stroke length
- Flow intelligence: The pump monitors the dosing process and measures the actual dosed flow of liquids when the FlowControl function is activated, for advanced process reliability
- Integrated Modbus RTU and Modbus TCP in a fieldbus setup, making the need for external communication modules redundant and saving costs
- ProfiBus, ProfiNet or Ethernet IP network integration using the Grundfos CIM communication modules
- Clear setup guidance, copy and pasting of pump settings and firmware upgrades using the Grundfos GO app
- Auto-deaeration during pump standby; avoiding vapor lock when pumping off-gassing liquids

Specifications

Flow (Q):	0.0025 to 30 l/h
Operating pressure:	4 to 16 bar
Setting range:	Up to 1:3000
Liquid temperature:	-10 to 45 °C

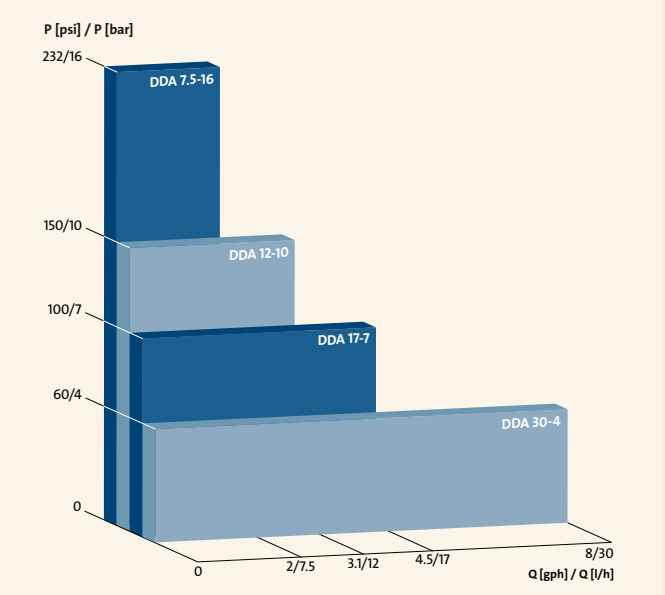
Used typically for

- Antiscalant (CT; RO)
- pH Correction (+/-)
- Disinfection
- Precipitation/Flocculation
- Coagulation
- Backwash chemicals
- CIP
- Anti-foaming (CT)
- Biocides

Applications

- Process water in e.g. Food and beverage, Semiconductors, Automotive, Pulp & paper
- Recycle & reuse: ultrafiltration and reverse osmosis
- Boiler feed water
- Cooling towers
- Drinking water
- Industrial and municipal wastewater
- Irrigation

Performance



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