

Antiscalant dosing for UO-D AS/FU and UO-D BW/FU

The dosing station is used for automatic, continuous dosing of antiscalant directly from the delivery canister and is designed for use with a reverse osmosis unit of the UO-D AS/FU and UO-D BW/FU series.

The compact diaphragm dosing pump operates with speed-controlled stepper motor drive and intelligent control electronics. Thanks to integrated dosing monitoring and volume flow measurement, it is ideally suited for complex dosing tasks. Due to the stepper motor drive, low-pulsation and continuous metering is possible even with low metering volume flows.

BENEFITS

- Optimum suction behavior, even with outgassing media, as the pump always operates with full suction stroke volume
- Continuous metering, as the pump is primed with a short suction stroke and dosed with the longest possible metering stroke, regardless of the current metering capacity

APPLICATIONS

- For automatic, continuous dosing of antiscalant directly from the delivery canister
- Suitable for RO units of the UO-D AS/FU and UO-D BW/FU series



DOSIN AS-K

Antiscalant dosing for UO-D AS/FU and UO-D BW/FU

DESCRIPTION

Dosing pump

Dosing pump mechanically driven by stepper motor for continuous dosing incl. integrated dosing monitoring via patented characteristic curve monitoring, by means of pressure sensor (Flow Control) for selective fault diagnosis.

Operating modes

- Manual dosing with input in ml/h, l/h or gph
- Proportional dosing via pulse input in ml/pulse (incl. memory function)
- Batch dosing via 0/4-20 mA analog input (scalable)
- Batch dosing via pulse, time interval and weekly timer (16 events/week)

Available inputs and outputs

- Input for pulse signal, analog signal 0/4-20mA, ext. stop
- Input for two-stage level monitoring
- Two parameterizable output relays (30 V AC/DC) for fault, warning, stroke signal, operation, timer for time interval/weekly timer
- Analog output for dosing volume flow or system pressure

Further features

- Pressure monitoring (min / max)
- Auto-vent function for outgassing media during pump standstill
- Manual operation button for quick venting
- Total operating hours counter and dosing quantity counter
- Additional information in the display (e.g. current mA input signal)
- Coding function to protect against unauthorized or unintentional adjustment
- Two-stage tank empty signal

Dosing accessories included

- Wall bracket WK1 made of stainless steel for safe mounting of the dosing pump on the RO system
- Suction lance SLI 4/6 mm made of PP with 2-stage level switch and NC contacts, suitable for canister sizes 20 - 60 l, length min/max 105/600 mm
- Injection point ISI 4/6 mm made of PP with spring-loaded ball check valve
- Control cable and fault signal cable (length 5 m) for forwarding fault signals to the CCS
- Dosing hose 4/6 mm made of PE

CONDITIONS OF USE

For RO unit sizes from 450 to 1,650 l/h, it might be necessary dilute antiscalant before use to ensure constant dosing and thus stable operation.

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TECHNICAL DATA OF SERIES

Counter pressure	1 – 16 bar
Suction height max.	6 mWS
Hose connection id/od	4/6 mm
Material	PP / EPDM / PTFE / Ceramic
Protection class	IP 65

Product name	Description	Size tank	Item number
DOSIN AS-K	Dosing pump with dosing control	25 kg canister (from client)	450 301