

**RWO**

# Dosing Units for Water Treatment



 **VEOLIA**  
WATER

Solutions & Technologies

## Chemical Dosing Systems for Water Treatment

### Dosing Units on Board:

Fresh water and service water on board of ships is necessarily taken from various sources. To compensate the varying water quality the water has to be treated with chemicals.

With RWO dosing units you can easily and reliably condition the water to serve the intended use and to meet the technical requirements. The field of applications includes the dosing of:

- ① Acids for alkalinity reduction and scale prevention.
- ① Polyelectrolytes for coagulation of suspended solids and an improved subsequent filtration.
- ① Scale inhibitors to avoid scale deposits on reverse osmosis membranes.
- ① Disinfectants for shock treatment in order to avoid bacterial growth.
- ① Chlorine to avoid biological growth in pipes and storage tanks.
- ① Hydrated lime or caustic soda for pH adjustment to neutralize dissolved free carbon dioxide.

RWO dosing units feature solenoid driven diaphragm metering pumps. The combination of solenoid drive and diaphragm guarantees durability and dosing accuracy. All parts in contact with media are chosen for their resistance against the standard chemicals used for water treatment.

The control of the pump allows a continuous adjustment of injection volume and frequency. This guarantees an adaptation to the dosing characteristics of the dosing agents.

### Advantages:

- ① high dosing accuracy
- ① local control for adjustment of dosing rate
- ① integral dosing head deaeration for degasing of chemicals
- ① easy installation and maintenance
- ① high operational reliability
- ① high quality materials
- ① accessories in great variety



### Dosing Units AM:

The AM line of products is designed for dosing proportionally to the flow. Contact signals from a water meter guarantee the appropriate dosing rate. This is important where regulations must be observed or the chemicals are expensive.

### Dosing Units HM:

Dosing units of the HM type are designed for applications where proportional dosing rates are not necessary or not applicable.

### Accessories:

- ① Automatic control units for dosing units
- ① Water meters for in-line installation, generating the timing pulse which is necessary for flow controlled dosing rates
- ① A range of containers of different sizes for dosing chemicals
- ① Handoperated mixers or motor driven mixers with timer and protection against dry running
- ① Level switches for low level alarms and dry-running alarm
- ① external failure signal

