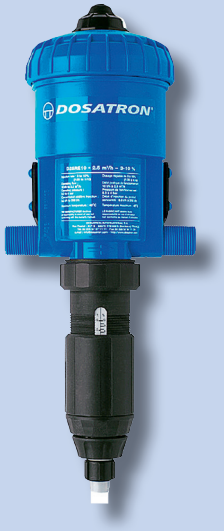
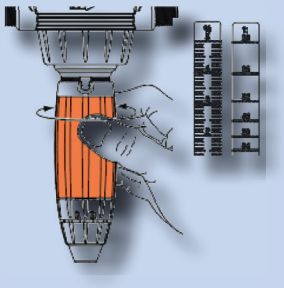
1.1.1. DOSA*Tec* Proportional doser **D25**





Proportional dosing with external adjustment.

Product description:

- Dosing range: 0.1 – 10 %
- Pressure range: 0.3 – 6 bar, depending on the model
- Water flow rate: 10 – 2500 l/h
- Dosing feed rate: 0.007 – 200 l/h
- Dosing: proportional, e.g. a setting of 1 %
  (corresponds to a dosage of 1 : 100)
- Average dosage tolerance: ±5 %
- Reproducibility: ±3 % (API675)
- Pressure loss: 0.3 – 1.9 bar
- Maximum temperature of drive water: 40 °C
- Minimum temperature of drive water: 5 °C
- Integrated mixing chamber
- Drive:
  - hydraulic differential piston motor
  - self-priming
- Seals:
  - AF (for alkaline solutions, pH 7 – 14)
  - VF (acid, pH 1 – 7)
- Maximum intake height: 4 m

Areas of application:

- Disinfection, cleaning, hygiene, odour neutralisation, environmental industry, water treatment, food industry, horticulture, crop protection, pest control, fertilisation, pH/TH regulation, flocculation, car washes, metal processing, lubrication, oil, printing industry, car washes.

Easy adjustment of the dosing rate:

- The tips of the notch on the adjustment ring points to the corresponding value. The amount of concentrate fed is proportional to the volume of water flowing through the doser: e.g.: setting 1 % = 1 : 100 = 1 part concentrate + 100 parts water.

Operating principle:

- When connected to the water mains, the doser uses the water pressure as its driving force, which causes it to suck concentrate in and dose it at the required concentration and mix it with the drive water. The stock solution made in this way flows through the doser. The amount of product dosed is proportional to the water flow rate, even if there are fluctuations in the flow rate or water pressure.

Scope of supply:

- **DOSA*Tec* D25** Proportional doser, inclusive suction hose with filter, wall mount

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Additional technical data:

Equipment:	Realisation:
Feed	Internal feed in discharge mixing chamber
Stroke	0.45 l (1 cycle = 2 clicks)
Dosing piston	Single-acting 10%, double acting from 10% upwards
Intake valve	Spring-loaded cone valve with seal
Ventilation:	Built-in ventilation
Max. viscosity of concentrate	200 – 800 cPs at 20 °C, from 400 cPs and > 2 % V-kit recommended for dosage
Intake	Intake filter with ballast
Connections:	¾ M : BSP – NPT – Ø 20 x 27 mm
Integrated anti-siphon system	No

Ordering data:

Type:	Dosing rate: %	Ratio:	Waterflow rate: l/h	Pressure: bar	Hose connection: mm	Housing:	Item number:
D25RE09 **AF** (seals for alkaline media)	0.1 – 0.9	1 : 1000 to 1 : 112	10 – 2500	0.3 – 6	6 x 9	Poly-acetal	4056350
D25RE09 **VF** (seals for acidic media)							4056150
D25RE2 **AF** (seals for alkaline media)	0.2 – 2	1 : 500 to 1 : 50					4056355
D25RE2 **VF** (seals for acidic media)							4056155
D25RE/IE2 **AF** (seals for alkaline media)							4056360
D25RE/IE2 **VF** (seals for acidic media)							4056160
D25RE4 **AF** (seals for alkaline media)	0.5 – 4	1 : 200 to 1 : 25			12 x 16		4056365
D25RE4 **VF** (seals for acidic media)							4056165
D25RE5 **AF** (seals for alkaline media)	1 – 5	1 : 100 to 1 : 20					4056370
D25RE5 **VF** (seals for acidic media)							4056170
D25RE/IE5 **AF** (seals for alkaline media)							4056375
D25RE/IE5 **VF** (seals for acidic media)							4056175
D25RE10 **AF** (seals for alkaline media)	3 – 10	1 : 33 to 1 : 10	10 – 2000	0,3 – 4			4056380
D25RE10 **VF** (seals for acidic media)							4056180
D25RE/IE10 **AF** (seals for alkaline media)							4056385
D25RE/*IE10* **VF** (seals for acidic media)							4056185
D25RE09 **AF** (seals for alkaline media)	0.1 – 0.9	1 : 1000 to 1 : 112	10 – 2500	0.3 – 6	6 x 9	PVDF	4056390
D25RE09 **VF** (seals for acidic media)							4056190
D25RE2 **AF** (seals for alkaline media)	0.2 – 2	1 : 500 to 1 : 50					4056405
D25RE2 **VF** (seals for acidic media)							4056205
D25RE/*IE2* **AF** (seals for alkaline media)							4056410
D25RE/IE2 **VF** (seals for acidic media)							4056210
D25RE4 **AF** (seals for alkaline media)	0.5 – 4	1 : 200 to 1 : 25			12 x 16		4056415
D25RE4 **VF** (seals for acidic media)							4056215
D25RE5 **AF** (seals for alkaline media)	1 – 5	1 : 100 to 1 : 20					4056420
D25RE5 **VF** (seals for acidic media)							4056220
D25RE/IE5 **AF** (seals for alkaline media)							4056425
D25RE/IE5 **VF** (seals for acidic media)							4056225
D25RE10 **AF** (seals for alkaline media)	3 – 10	1 : 33 to 1 : 10	10 – 2000	0,3 – 4			4056430
D25RE10 **VF** (seals for acidic media)							4056230
D25RE/IE10 **AF** (seals for alkaline media)							4056435
D25RE/IE10 **VF** (seals for acidic media)							4056235
D25RE/IE10 **AF** (seals for inorganic acids)	0,1 – 0,9	1 : 1000 to 1 : 112	10 – 2500	0,3 – 6	6 x 9	PVDF AO (Kalrez)	4056195
D25RE/IE10 **VF** (seals for inorganic acids)	0.2 – 2	1 : 500 to 1 : 50					4056200

/IE = with external injection

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Options:

<table>
<tr><th colspan="2">Type:</th><th>Item number:</th></tr>
<tr><td colspan="2">Product intake hose V as viscous kit version.</td><td rowspan="4">9156040</td></tr>
<tr><td>Type:</td><td>Hose connection:</td></tr>
<tr><td>D25RE2 ...</td><td>12 x 16 mm</td></tr>
<tr><td>D25RE5 ...
D25RE10 ...</td><td>20 x 27 mm</td></tr>
<tr><td colspan="2">An optional by-pass (BP) switch is available for series D25 and D3, which allows the intake system to be switched on/off.</td><td>9156045</td></tr>
</table>

Accessories:

Type:	Item number:
½" pressure reducer male thread with pressure gauge	9156050
¾" water filter with Plexiglass container - Washable 80 micron filter cartridge	9156060
½" backflow preventer BA Micro DVGW tested (max.1000l/h)	9156070
½" backflow preventer BA Compakt	9156080
½" stainless steel water-hammer-arrester	9156090

Recommendations:

- To maximise the service life of the doser, we recommend the following:
  - Install a filter (60 micron [300 mesh]) upstream of the doser if the water quality requires one
  - Change the dosing seals at least once a year
  - Rinse with clear water as often as possible, but at least when decommissioning
  - Adjust the doser with the pressure shut off
  - Install the necessary protective devices (flow limiters/pressure limiters and
  - water hammer arresters etc.) in the pipeline system for protection against
  - excess flow, excess pressure and pressure spikes.
  - Install dosers in a total by-pass system