

# Exact and Reproducible Metering of Flocculant with ProMinent

## DULCO®flex DF4a Peristaltic Pump for Flocculant Metering



The DULCO®flex DF4a peristaltic pump has been specifically developed for flocculant metering applications. It is used wherever flocculants need to be added constantly and accurately to treated water.

Typical applications include swimming pools and whirlpools.

### Advantages

- Sign-based user prompting and programming with four buttons for easy and convenient operation
- Safe operation by entering the reproducible throughput quantity and concentration
- Straightforward installation ensures flexible retrofit – also in existing installations
- Efficient operation, e.g. by reducing feed rates at night
- Hose change made easy by servicing-friendly design
- Proportional adaptation of metering rate via current and voltage input

### Features

- Silent-running speed-variable stepper motor with drive shaft mounted in ball bearings
- No mechanical gears means long service life
- 100 % duty factor
- Operating pressure up to 4 bar possible
- Infinitely variable adjustment of metering rate from 1 to 100 %
- Reproducible metering rates of 1.5, 6.0 and 12.0 l/h are shown on the display
- Operating and hose hours counter
- Intake function (continuous operation)
- Level input (1-stage or 2-stage contact)
- Hose break monitoring with alarm relay
- Switchable output rate change, e.g. night reduction or increased output



# DULCO<sup>®</sup>flex DF4a Peristaltic Pump

## Main applications

For metering flocculants in:

- Swimming pools
- Whirlpools

## Technical data

Pump type	Operating pressure Tygon* [bar]	Operating pressure Pharmed** [bar]	Metering rate [l/h]	Speed [rpm]	Pump hose o Ø x i Ø [mm]	Hose connection o Ø x i Ø / pressure [mm]
04015	4.0	3.0	1.5	0 - 85	1.6 x 4.8	6 x 4 /10 x 4
03060	2.5	2.0	6.0	0 - 85	3.2 x 6.4	6 x 4 /10 x 4
02120	2.0	1.5	12.0	0 - 80	4.8 x 8.0	6 x 4 /10 x 4

\* Operating pressure using Tygon<sup>®</sup> hose

\*\* Operating pressure using Pharmed<sup>®</sup> hose

<b>Dimensions</b>	226 x 162 x 155 mm (WxHxD)
<b>Weight</b>	Total weight (including installation material) approx. 1800 g Total weight (net) approx. 1300 g
<b>Electrical data</b>	Connection voltage: 110-240 V ±10 % at 50/60 Hz Power intake: Approx. 24 W Duty factor: 100 %
<b>Shock-hazard and moisture protection</b>	IP 65
<b>Permissible temperatures</b>	Ambient temperature: -10...45 °C Storage temperature: -10...55 °C Medium temperature: -10...45 °C
<b>Sound pressure level</b>	< 60 dB (A) at maximum backpressure (water) in accordance with DIN EN 12639

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