

Metering System DULCODOS UL1a (Inline System Liquid)

Metering system specifically designed for the batching of a fully activated liquid polymer solution



The polymer preparation system DULCODOS UL1a is an inline system and processes liquid polymers to produce a fully activated solution. It is ideally equipped for your application with integrated mixing and maturing chamber and novel peristaltic metering pump.

Technical Details

- Proportional metering as standard
- 3 system types with different equipment can be selected:
 - basic - manual flow adjustment, manual flushing
 - medium - automatic flow control, manual flushing
 - comfort - automatic flow control, automatic flushing
- Integrated post dilution unit available as an option
- Choice of peristaltic or metering pumps:
 - Peristaltic pumps DFXa 0530 and 0565 for back pressures of up to max. 4.5 bar
 - Metering pumps gamma/ X with HV head up to 4.5 bar
 - Metering pumps Sigma up to 4.5 bar
- Compact controller Schneider Electric TM241 and touch panel STO735 4.3"
 - Optionally fitted with Ethernet/Modbus TCP
 - Optionally fitted with PROFIBUS®



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The following types of polymer can be processed:

- Liquid polymers (0.05 – 1.0 %)
- As emulsions or dispersions

Selectable components:

- Freely selectable preparation capacity
- Configuration versions
- Electrical connection
- Control versions with or without data communication
- Operating versions
- Liquid polymer metering pumps
 - Peristaltic pump DFXa
 - Metering pump gamma/ X
 - Metering pump sigma/ X S1Cb
- Monitoring of low liquid polymers
- Raw water booster pump
- Post dilution unit
- Language

Type		100	200	400
Max. extraction rate	l/h	100	200	400
Max. extraction rate/Inline with post-dilution	l/h	450	900	1,800
Maturation time	min	15	15	15
Max. water pressure	bar	8	8	8
Min. water pressure*	bar	4	4	4
Back pressure, max.	bar	4.5	4.5	4.5
Length	mm	1,200	1,200	1,200
Width	mm	800	800	800
Height	mm	1,900	1,900	1,900
Water connection DN	mm	25	25	25
Discharge nozzle DN	mm	25	25	25
Protection class		IP 55	IP 55	IP 55
Power supply V/Hz		220-240/50-60	220-240/50-60	220-240/50-60

* if the water pressure is lower, use the pressure boost option