PRODUCT INFORMATION

POLYLINE FLOW COMPACT

INSPIRED. SOLUTIONS. FOR CUSTOMERS.

POLYLINE – THE SIMPLE AND EFFICIENT WATER TREATMENT SOLUTION

Polymer solutions are used everywhere where sedimentation or flotation of suspended solids in water is to be accelerated and the dewatering behaviour of thickened sludge improved, such as in wastewater treatment, paper manufacture, drinking water treatment, and sewage sludge dewatering.

PolyLine® from **sera** is a series of simple and flexible, economical and powerful systems for preparing polymers. The series covers preparation systems that can be used with dry or liquid polymers. The systems are equipped with precise flow measurement for solution preparation and filling level measurement, to ensure the efficient and economical operation of the systems.

SAMPLE APPLICATIONS

- Sludge dewatering / conditioning
- Wastewater treatment
- Paper manufacturing
- Drinking water treatment
- Chemical industry
- Process water treatment
- Power stations
- Shipbuilding

ADVANTAGES AT A GLANCE

- Client and application-specific, modular polymer preparation systems
- High-grade PP tanks
- Versatile use with powdered polymers, liquid polymers, or powdery/liquid composite polymers
- High process efficiency due to a virtually complete solution of newly prepared polymer
- The solution concentration is accurately adhered to, as the dry material feeder and the liquid concentrate pump can be calibrated in a reproducible manner
- Low-maintenance filling level measurement due to a continuous, contactless ultrasound sensor
- Very easy to use thanks to its compact PLC and built-in process visualisation and touchscreen
- Modular design based on an intelligent modular system
- Can be optionally customised and expanded with products from the **sera** range
- Compact design

MODEL DEFINITIONS

PolyLine ... S

S = solid

for use with powdery polymer

PolyLine Flow Compact S

PolyLine ... L

L = liquid

for use with liquid polymer

PolyLine Flow Compact L

PolyLine ... SL

SL = solid/liquid

for use with powdery and liquid polymer

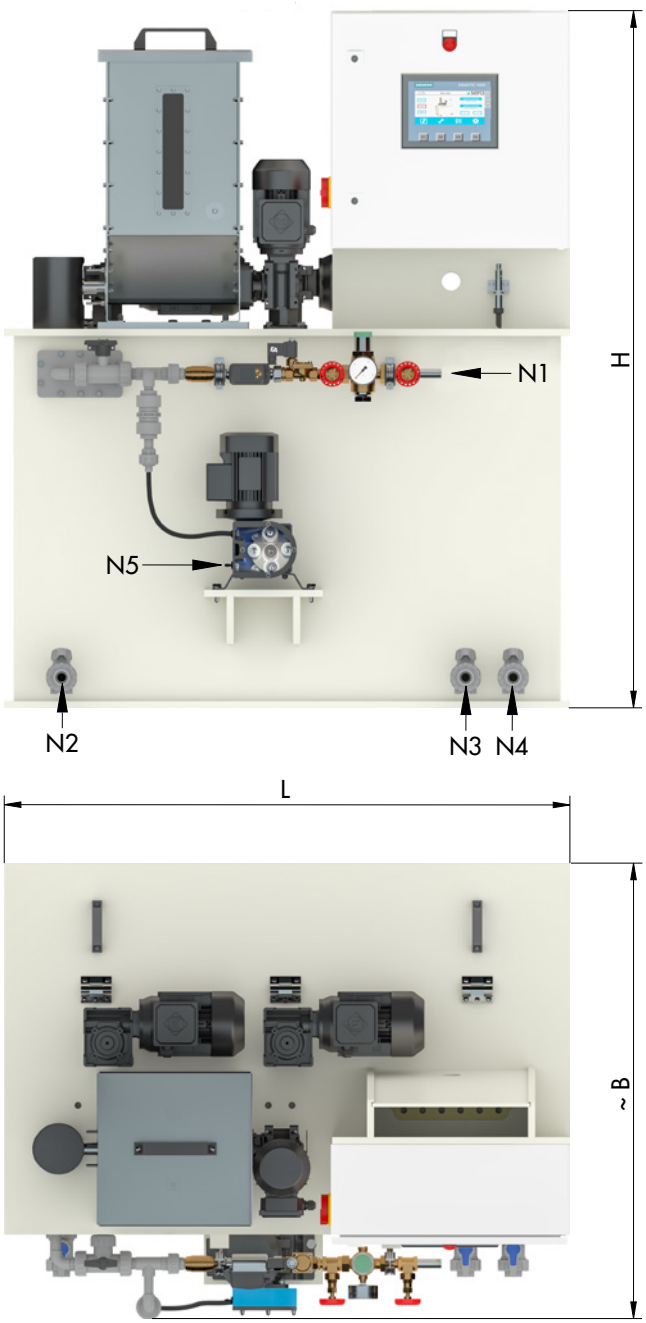
PolyLine Flow Compact SL

TECHNICAL DATA

UNIT DATA			PolyLine Flow Compact
Preparation capacity (at **45** min. maturing time)	l/h		500
Weight (empty)	kg	S	210
		L	200
		SL	230

ELECTRICAL DATA		PolyLine ...
Connection voltage		~3/400 V /Hz + N + PE
Power consumption	approx. kW	2,0
Control voltage	V DC	24
Protection class	Control cabinet	IP 54
	elec. consumers	IP 55

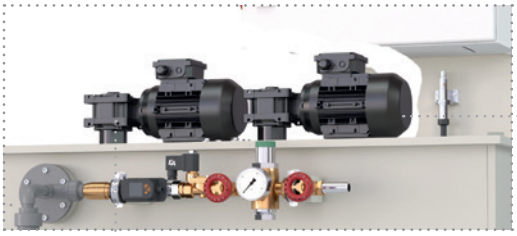
DIMENSIONS



		PolyLine Flow Compact
W	max. width	960
H	max. height	1470
L	max. length	1200
N1	Product removal	DN25
N2	Tank drainage	DN25
N3	Tank drainage	DN25
N4	Water supply	DN15/IG½
N5	Liquid polymer supply (SL, L variant)	Ø8

Dimensions in mm

BASIC DESIGN



2nd electric agitator

PolyLine ... S/SL

Dry material feeder DMF

with 25 litre feed hopper

PLC control system

for fully automatic preparation

1st electric agitator

Ultrasound sensor

PolyLine ... SL

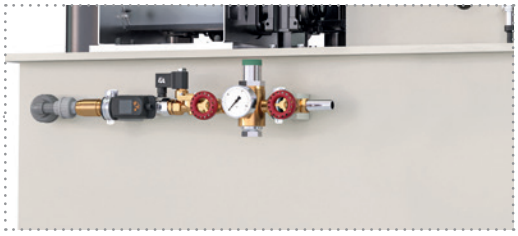
Supply unit

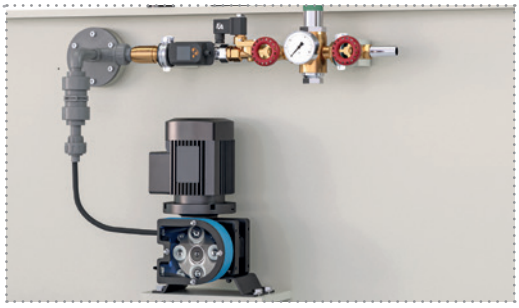
PolyLine ... L

Supply unit

PolyLine ... S

Supply unit





ADDITIONAL FEATURES

PolyLine ... S/SL

Sensor with indicator for when the hopper is full

PolyLine ... S/SL

Small-part conveyor device

incl. hose pack and mounting cover for DMF

Overfill prevention device

PolyLine ... S/SL

Hopper design

Volume expansion: 25 litres

PolyLine ... S/SL

Sensor with indicator for when the hopper is empty

PolyLine ... S/SL

Suction nozzle

for small-part conveyor devices

(no illustration)

Vibrator

BUS connection

- PROFIBUS DP/slave
- Industrial Ethernet

(no illustration)

Overflow

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