



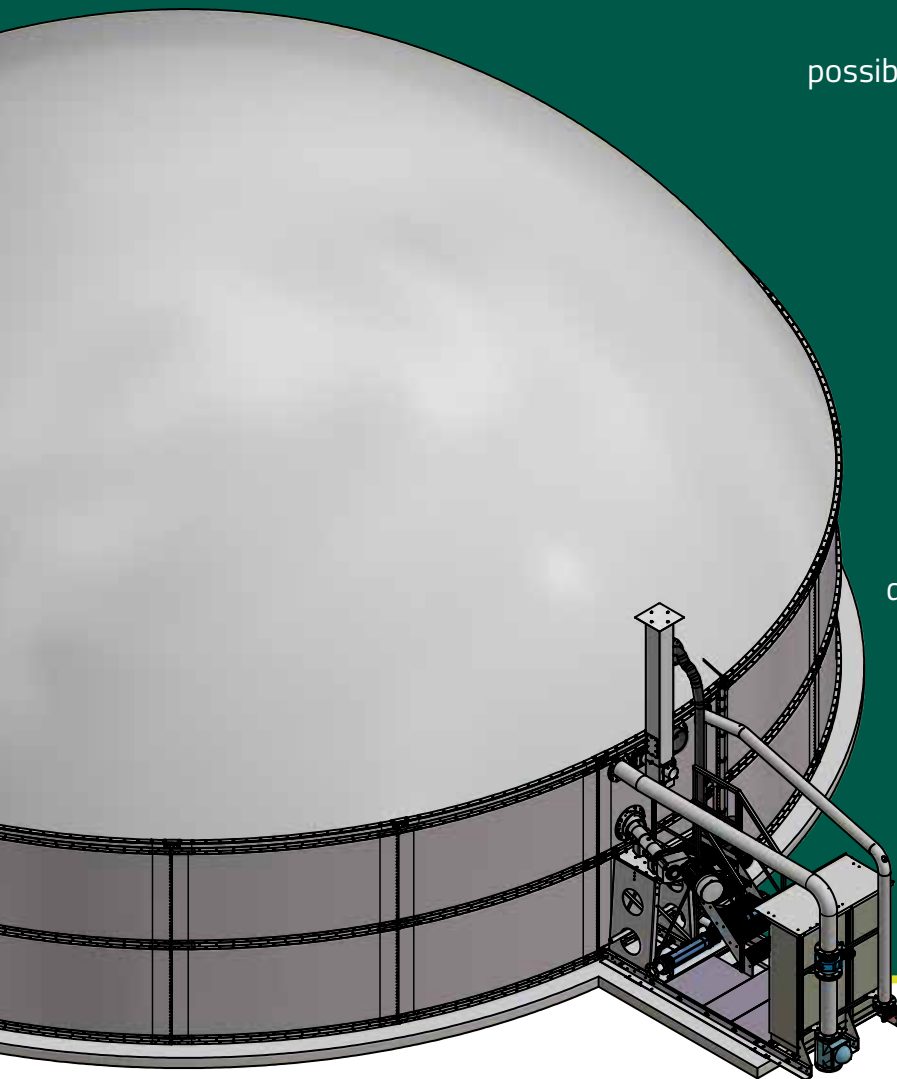
Biogas Group GmbH

**PlanE T Biogas Global**

+49 (0) 25 64 / 39 50 - 0  
sales@planet-biogas.com

# VALENTIN

The smart machinery concept



**Complete disassembly**  
possible with approx. 90 % residual recyclability

**Business growth**  
without additional space

**Large gas storage**  
for ease of use

**40 to 150 kWel**  
depending on the volume of substrate used

**Island solution**  
through own recycling of raw materials

[www.slurry-to.energy](http://www.slurry-to.energy)

# Twice the right solution:

	VALENTIN 600	VALENTIN 900
Fermentation volume ca.	587 m <sup>3</sup>	867 m <sup>3</sup>
Total volume ca.	683 m <sup>3</sup>	1010 m <sup>3</sup>
Diameter VALENTIN inside	16,7 m	20,3 m
Wall height	3,12 m	3,12 m
Total height ca.	7,5 m	8,1 m
Diameter base plate	17,5 m	21,5 m
Substrate processing quantity max. <sup>*1</sup>	19 m <sup>3</sup> /d	29,5 m <sup>3</sup> /d
	7.000 m <sup>3</sup> /a	10.500 m <sup>3</sup> /a
Recommended power range <sup>*2</sup>	40 kW - 80 kW	60 kW - 150 kW
Total gas storage volume ca.	570 m <sup>3</sup>	1050 m <sup>3</sup>
Gas storage volume sufficient for ca. <sup>*3</sup>	14 h - 36 h	12 h - 27 h
Mixer running time/h ca. <sup>*2</sup>	5 bis 10 Min	8 bis 15 Min



On-site base plate



1. Day



2. Day



3. Day



7. Day  
Pipeline construction completed and ready for operation

## Equipment

Non- return valve	✓	✓
Flow meter	✓	✓
Digestate pump	✓	✓
Gas extraction pipe DN 150	✓	✓
Stainless steel heating pipe	✓	✓
Electrical heater 3 x 12kW	✓	✓
Air- supported roof	✓	✓
Integrated gas- storage	✓	✓
Durable shaft mixer 15kW	✓	✓
Sampling valve	✓	✓
Insultated digester wall construction	✓	✓
Control cabinet	✓	✓
CPU control system	✓	✓
Biological desulphurization system	✓	✓

## Safety engineering

Tank level measurement	✓	✓
Gas underpressure switch	✓	✓
Gas level measurement	✓	✓
Remote dail-in	✓	✓
Inspection window	✓	✓

## Additional components for the VALENTIN

Manure feed-in pump	●	●
Manure feed-in pipe DN 200	●	●
Digestate extraction pipe DN 80	●	●
Condensate trap	●	●
Activated carbon filter	●	●
Gas analyzer	●	●
CHP	●	●
Gas flare	●	●

<sup>\*1</sup> for 30 days retention time | <sup>\*2</sup> substrate dependent | <sup>\*3</sup> performance dependent