



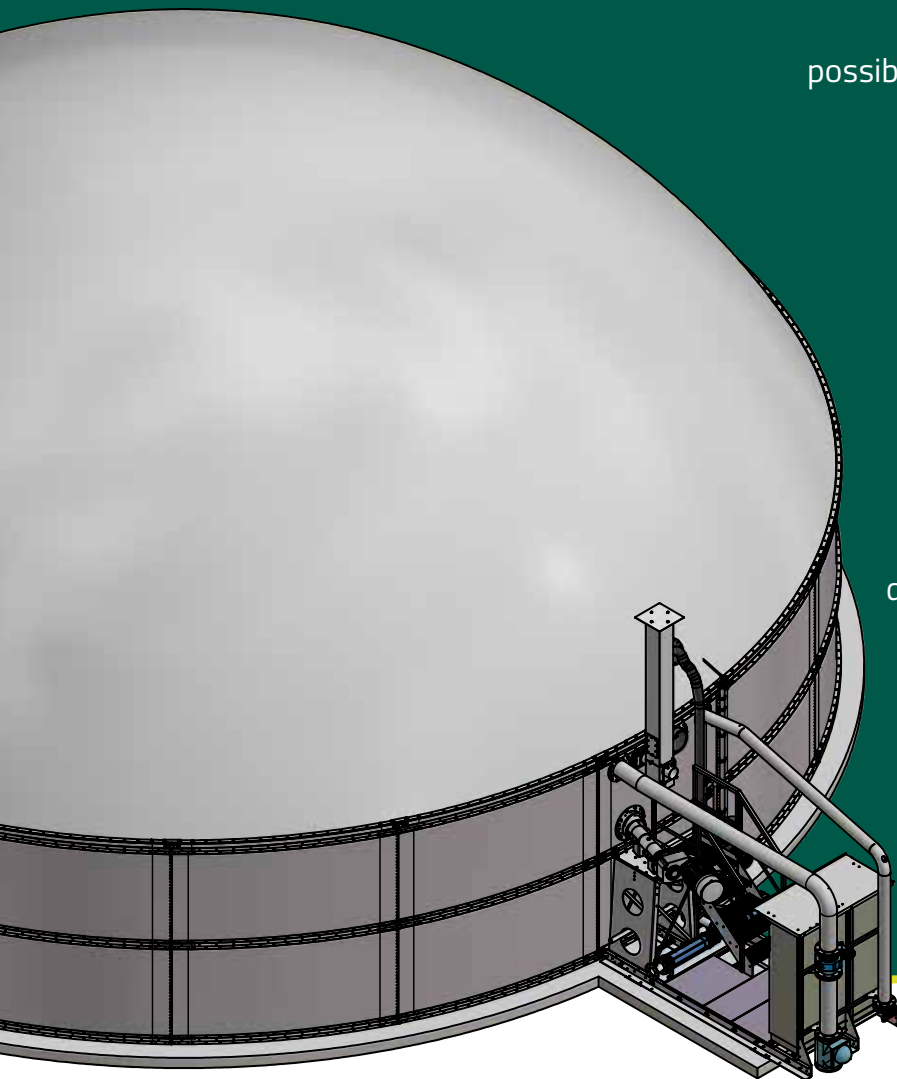
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VALENTIN

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

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Twice the right solution:

	VALENTIN 600	VALENTIN 900
Fermentation volume	580 m ³	891 m ³
Diameter VALENTIN	16,5 m	20,5 m
Wall height	3 m	3 m
Total height ca.	7,5 m	8,1 m
Diameter base plate	17,5 m	21,5 m
Substrate processing quantity max. ^{*1}	19 m ³ /d 7.000 m ³ /a	29,5 m ³ /d 10.500 m ³ /a
Recommended power range ^{*2}	40 kW - 80 kW	60 kW - 150 kW
Total gas storage volume ca.	600 m ³	900 m ³
Gas storage volume sufficient for ca. ^{*3}	14 h - 36 h	12 h - 27 h
Mixer running time/h ca. ^{*2}	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

Substrate supply pump	✓	✓
Substrate supply DN 200	✓	✓
Backflow preventer	✓	✓
Throughflow meter	✓	✓
Substrate discharge pump	✓	✓
Substrate drain DN 80	✓	✓
Gas extraction line DN 150	✓	✓
Condensate shaft	✓	✓
Stainless steel heating pipe	✓	✓
Electric heating elements 3 x 12 kW	✓	✓
Air roof	✓	✓
Integrated gas storage	✓	✓
Long-life rod mixer 15 kW	✓	✓
Test tap	✓	✓
Insulated fermenter wall	✓	✓
Technology locker	✓	✓
SPS control	✓	✓
Biological desulfurization	✓	✓
Activated carbon filter	✓	✓
Gas analyzer	✓	✓
CHP	✓	✓
Biogas flare	✓	✓

Safety engineering

Substrate level monitoring	✓	✓
Gas vacuum monitor	✓	✓
Gas level monitoring	✓	✓
Remote access and monitoring	✓	✓
Inspection window	✓	✓

^{*1} for 30 days retention time | ^{*2} substrate dependent | ^{*3} performance dependent