

Technical data sheet No. 302-41-E/ E

Grouting unit VS 41-E

Application area: filling and grouting of geothermal drillings, pipe drilling, cave filling
 Equipment of the machines: colloidal mixer, storage tank with grout pump



Simultaneous typical values	
Delivery pressure	Delivery rate
P – bar	Q – l/min
10	36.0
20	35.6
30	34.5
40	32.0
50	28,4
55	26,8

Performance delivery pump

Mixer performance:

max. 3.9 m³/h at 30 batches/h
 2.4 m³/h at 19 batches/h

Technical data

Min/max. pump volume	: 4 – 36 l/min ¹⁾
Max. pump pressure	: 55 bar ²⁾
Rotating displacement pump as grout pump	
Especially suitable for viscous suspensions	
Electrical drive	
Electric connection	: CEE 32 A
Voltage and frequency in Volt/ Hz	: 400/ 50
Total power required in kW	: 9.5 (5.5 kW mixer, 4.0 kW pump/storage tank)
Water connection (option)	: BSP 1"/ GEKA-coupling DN 25
Pump pressure connection	: G1"/ RD 38
Dimensions (L x W x H) in mm	: 1850 x 1100 x 2320
Weight:	: approx. 660 kg

¹⁾ Performance: typical pump performance, calculated with water

²⁾ The lowest pressure can be reached with water; the higher pressure is possible with suspension

1 bar = 1 x 10⁵ N/ m²

Date: May 2016 - subject to change

VS 41-E

Assembly groups/ Machine technology

Frame:

- Skid mounted steel frame
- Forklift slots
- Paint RAL 1007 (yellow)

1 pc. mixer tank:

- Round tank, inclined bottom, of steel plate, painted
- Working capacity: 130 l
- Feed hopper with bag ripper

Tools in mixer tank:

- High-speed mixer tool, for colloidal exposure
- Drive bearing above the mixer level,
- No stuffing box, therefore running dry without problems

1 pc. storage tank:

- Working capacity 260 l, of steel plate, painted

Delivery pump:

- Rotating displacement pump without pump valves
- Suction connection of the pump is part of the storage tank
= delivery volume from min. 5 up to max. 40 l/min

Operating elements:

- Rotary knob for adjustment of the delivery speed (l/min)
- ON/ OFF switch for delivery pump (grout pump)
- ON/ OFF switch for electric motor mixer drive
- Remote and control connection

Electrics:

- Electric motors 400 V, 50 Hz, IP 55 – 1x5.5 kW + 1x4 kW
- Frequency converter – 1 pc.
- Phase control
- Electric connection CEE 32 A/ 400 V/ 50 Hz/ 5-poles

Water dosage:

- water dosage tank ca. 100 l, stainless steel
- water input valve manual
- water output valve manual
- water dosage semi-automatic (SA6-180 E) with level control

Special equipment:

- (SF8) Drive voltage and frequency as requested
- (S6) Special paint as requested
- (SD9) Remote control connection with supply voltage

Delivery pressure measurement at pump:

- Optional: MAP-M or MAP-4

Accessories:

- Special tools for repair and maintenance,
- Operating manual and spare parts list

Optional accessories:

- Spare parts sets
- Pressure hoses
- Remote controls

Supplementary machines and products:

- Electronical measuring devices for pressure, flow rate, suspension density
- LOG-data registration units and software, also suitable for remote control of the grout pump

¹⁾ Value determined via pump rotation speed

²⁾ Value determined via pressure sensor in pressure outlet of the delivery pump, Removable on separate pressure sensor, e.g. at grout point