G800 **Revision 3** 16.08.2016

SAVE Sampler

SAVE has been designed for controlled and safe sampling of pulp slurry.

SAVE's head is shaped and dimensioned to ensure a representative sample. The sampler head is inserted deep into the process pipe, past the water layer flowing along the pipe wall.

SAVE's interior parts can be flushed with water after the sample has been taken, to prevent build up or blockage of sampler. Since the sampling valve's shut-off mechanism is at the head of the sampler, SAVE will not get blocked even during long duty intervals.

SAVE's piston utilizes metal-to-metal sealing and does not include any wearing parts, such as rubber seals.

TECHNICAL SPECIFICATIONS

Applicability

- Concistency range 0...8 % Cs

Process pressure

- Minimum process pressure for differen consistencies: refer to Fig 1
- Maximum process pressure: 2,5 MPa (25 bar), except when coupling material is fibreglass-reinforced plastic: 1,6 MPa
- Pneumatic actuator has a return spring that shuts the valve when pressure is lost.

Supply air pressure p (AD actuator)

- p_s min = 1/3 x process pressure;
- p max = 1,0 MPa (10 bar)

Max. discharge rate of pulp

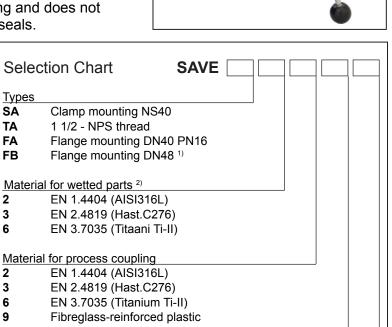
- at different process pressure: refer to Fig. 2.

Connectors

- Water flushing connector: G1/4
- Pneumatic connections for cylinder and regulating valve: G1/8 (5 pcs)

Materials

- Parts in constant contact with process medium: refer to Selection Chart
- Other parts: EN 1.4404 (AISI316L)
- Pneumatic cylinder: aluminium alloy
- Piston rod: hard chrome plated steel



Function

2

3

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2

3

6

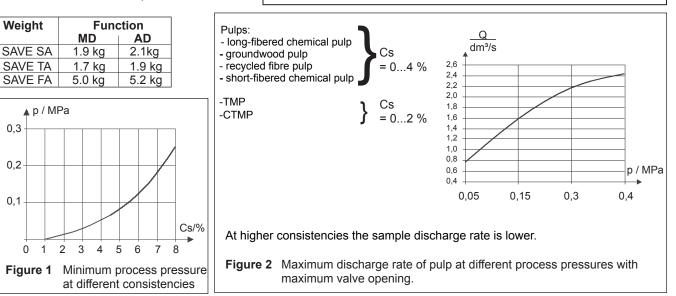
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- Manual MD
- AD Pneumatic

Open / closed detector

- None
- Special size for 4 x M6 bolted flange, dimensions on page 3 Only parts in constant contact with process medium; other parts 2) always EN 1.4404 (AISI316L)





SAVE Sampler

Pressure Equipment Directive (PED) (97/23/EC) Sound Engineering Practice

Installation

SAVE is mounted at a point in the process line that will provide a representative sample. It must not be installed in a dead zone of flow. Refer to the illustrations and instructions in SAVE sampler's user's guide (document G800AV).

SAVE is mounted is an opening made on the process pipe through a process coupling selected in accordance with the Selection Chart. TA and SA couplings are welded on the process pipe, while FA type is laminated on plastic process pipe.

After SAVE has been mounted on the process pipe you attach the supplied 400 mm plastic discharge tube with a hose clamp. This will ensure that the sample will not splash.

Flushing with water is recommended in all installations. For this purpose a waterline equipped with a shutoff valve is needed to be connected to the sampler. Samplers with Titanium or Hastelloy C276 wetted parts flushing must be connected to prevent corrosion of the samplers interior parts.

Solenoid valves (SAVE AD) must be equipped with restrictors at outlet side to dampen the piston movement.

NOTE!

If the process pressure exceeds 1,0 MPa (10 bar) the strength of the connection between process coupling and process pipe has to be calculated separately in accodance with the pipework's pressure endurance. If necessary, the connection must be reinforced.

