



Pulptec™

MPS-1000, PPS-1000 and APS-1000

Pulp samplers

- Simple and reliable design.
- Mechanism provides consistent samples, independent of operator skill.
- Representative sampling, as the sample is extracted away from the water layer around the pipe wall.
- Water flushing available for cleaning.
- Simple installation through a weld-in stud, FRP-stud or thread connection.
- Highly serviceable few moving parts.

General

The sampler is used for the extraction of representative screened pulp samples from pressurized pipes.

There are three different models of the sampler. Each model can be connected flanged or threaded:

- MPS-1000/1010, hand operated.
 For manual sampling.
- PPS-1000/1010, pneumatic push button control. For manual sampling.
- APS-1000/1010, pneumatic and electric control. For automatic sampling.

Technical data

Type MPS-1000, PPS-1000 and APS-

1000

Manufactured by BTG, Säffle, Sweden

must be pumpable.

Max calculating

pressure

16 bar (230 psi)

Max media pressure10 bar (145 psi)Min media pressureSee figure 1Max media90°C (194°F)

temperature

Material

nperature

All wetted parts made of stainless steel quality SS 2343 or 254 SMO.

Connection to Flanged weld-in stud or FRP-stud (only with 254 SMO)

Connection to NPT 1½" thread connection (only

process line (-1010) in SS2343)

Connection for flushing water ISO-Rp 1/4



Pulp samplers – PPS-1000, MPS-1000 and APS-1000.

Air connections ISO-G 1/8

PPS- and APS-1000

Air pressure, 4–8 bar (58–100 psi)

PPS- and APS-1000

Voltage 24/48/110/220/240 V **APS-1000** 50-60 Hz, 24 V DC

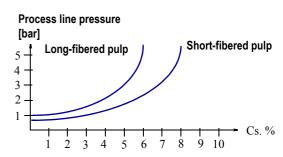


Fig 1 Minimum pressure in process line at different consistencies (Note! These values are only approximate)

Working principle

Solid arrows indicate the pulp's path through the sampler.

(2) Flushing water connection.

On the outlet a tube of max. 5 m can be connected.

MPS-1000

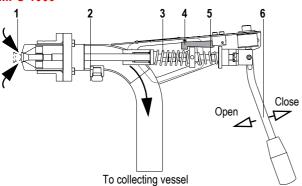


Fig 2 MPS-1000

The plug (1) is kept closed by return spring (3) in closed position.

Move lever arm (6) towards the pulp line during sampling. At first the opening spring (5) is compressed, whereupon the lock catch (4) is released. The plug will now open entirely, which prevents dewatering during sampling.

Move the lever arm backwards after sampling. The return spring will now close the plug. A better seal can be achieved by pulling the lever arm firmly backwards.

PPS-1000

The pneumatic version controlled by a push button is adapted for installation in difficult to access locations.

Otherwise it is the same design and function as the MPS-1000.

The plug (1) is kept in closed position by the return spring (3) and the air cylinder (7).

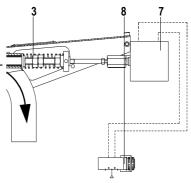


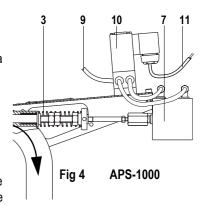
Fig 3 PPS-1000

Sampling takes place when the push button (8) of the manual air valve is pushed. The air cylinder will then open the plug. Sampling is finished when the push button is released.

APS-1000

Electric version, automatically controlled by a programmable control system. Otherwise it is the same design and function as the MPS-1000 and PPS-1000.

Sampling takes place when the solenoid valve (10) receives an impulse



from the programmable control system/DCS. The air cylinder (7) will then open the plug.

Compressed air to the solenoid valve (9). Cable to the solenoid valve (11).

Dimensions

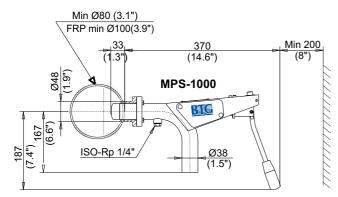
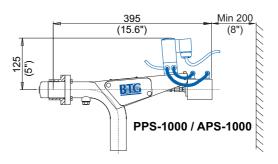


Fig 5 Dimensions and mounting



BTG reserves the right to make technical improvements without previous notice.