Data sheet

L&W Pulp Tester LC Sampler (low consistency)
L&W Pulp Tester MC Sampler (medium consistency)
Lorentzen & Wettre Products | Pulp Measurements

To guarantee high uptime the sampling process is of great importance. ABB's L&W Samplers are robust, simple and designed with a cutting edge to prevent jamming. The samplers are mounted into the pipe to avoid pipe edge effects.

L&W Pulp Samplers are installed on process lines and takes out a defined sample volume directly from the process. The mounting and installation of L&W Pulp Sampler must be made during a stop of the process. L&W Pulp samplers are available in two versions and are designed to collect samples of pulp with different consistency.

To eliminate dewatering in the sampling process all L&W Pulp Samplers break through the water layer inside the pipe. As the sample valves do not have seals a minimum of maintenance is required. L&W Pulp Tester can be connected with several pulp samplers in the process (recommended maximum 10) with a maximum distance of 300 metres. The samplers range from low (0–8%) to medium consistency (0–15%), and are based on the same technology as ABB's KPM pulp samplers.

Function of the samplers

A pneumatically driven piston goes into the process pipe and collects the sample. The stroke length can be adjusted by limiting the pneumatic cylinder movement. The sample is then diluted with water in the sampler, and transported to L&W Pulp Tester through plastic tubes (13 mm or 19 mm). Each sampler has its own tube to avoid contamination. The diluted sample is transported in the tube by instrument air.

If a medium-consistency pulp sampler is used, the sample is poured into an extra tank for further dilution before it is transported to L&W Pulp Tester. After the transportation a small amount of water is sent through the tube, also with instrument air, to ensure cleanliness of the sampling system.

L&W Pulp LC Sampler, low consistency

L&W Pulp Sampler, low consistency – handles a consistency range of 0–8 %. The sampling distance must be less than 100 m if the low-consistency pulp sampler is to be used.

L&W Pulp MC Sampler, medium consistency

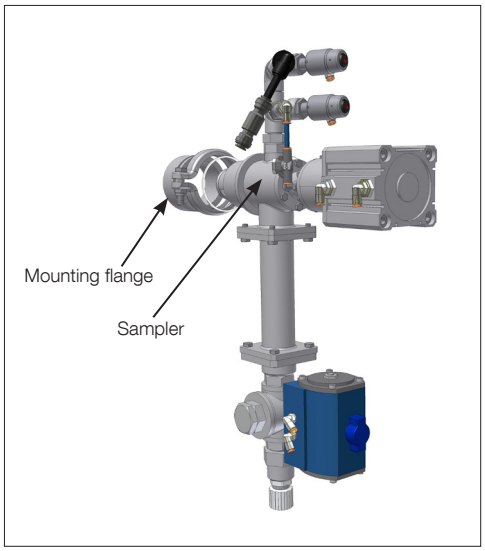
L&W Pulp Sampler, medium consistency – handles a consistency range of 0–15%. This medium-consistency pulp sampler must be used for sampling distances above 100 m.

Technical specifications

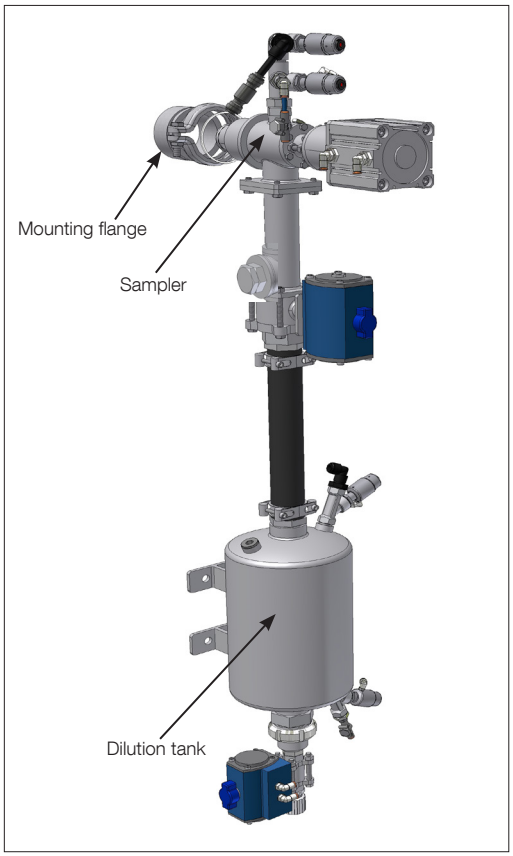
L&W Pulp Tester Sampler	Low consistency – code 962	Medium consistency – code 963
Consistency*	0–8 % Cs screened and unscreened pulp	0–15 % Cs screened and unscreened pulp
Process connection	NS70 Sandvik saddle	NS70 Sandvik saddle
Flushing water connection	2–10 bar (30–150 psi)	2–10 bar (30–150 psi)
Air pressure	5 bar (75 psi)	5 bar (75 psi)
Maximum process pressure for both sampler type 25 bar (370 psi), PN25	Minimum pressure for cons. below 8% = 1.0 bar (15 psi) and over 8 % = 2.0 bar (30 psi)	Minimum pressure for cons. below 8% = 1.0 bar (15 psi) and over 8 % = 2.0 bar (30 psi)
Maximum required operating pressure depends on the sample consistency		
Sample flow	The sample flow is a function of process pressure, fibre type and consistency. The flow diminishes at higher consistencies. The piston stroke and piston orientation are adjustable.	
Materials	Standard wetted parts AISI 316L. Titanium available.	
Weight	3.7 kg	16.7 kg
Sampler output to L&W Pulp Tester	¾” alt 19.1 mm/15.1 mm	19.1 mm/15.1 mm
Air	6 mm	6 mm
Water	10 mm	10 mm
Sampling distance	Up to 100 m	Above 100 m (max. 350 m)

* This is the consistency range that the samplers can handle. The consistency that the L&W Pulp Tester can handle depends on the configuration of the system. Please contact ABB/Lorentzen & Wettre Technical Support for further information.

3 BLW 962_96300den100



L&W Pulp Tester Sampler low consistency – code 962.



L&W Pulp Tester Sampler medium consistency – code 963.

For more information, please contact:

ABB AB / Lorentzen & Wettre
P.O. Box 4
SE-16493 Kista
Sweden
Tel: +46 8 477 90 00

www.abb.com/pulpandpaper

Power and productivity
for a better world™