

PULP AND PAPER

KPM Pulp Samplers

KPM Products | Process Measurements



Manual & pneumatic versions available

KS/2 is available in manual and pneumatic versions; KS/4 and KS/6 are pneumatically operated only. Saddle and threaded mounts are options for KS/2 and KS/4 samplers, while KS/6 is saddle mounted only.

Safe and representative sampling

The KS-line sample heads penetrate the water layer inside the pipe, eliminating dewatering from the sampling process. KS/4 and KS/6 have stroke depth adjustment for sample flow, ensuring reliable operation with unscreened pulp.

High performance sampling for screened and unscreened applications

KPM introduces cost-effective, durable and versatile sample valves for all applications, screened or unscreened. The KS/2 covers low (0-8%) consistency screened applications. The KS/4 (0-8%) and KS/6 (0-18%) samplers handle unscreened extractions with a cutting piston.

Water flushing

A separate water connection allows cleaning of the sample valve after a collection. Flushing ensures a repeatable and representative sampling procedure.

Service friendly

KS sample valves do not use seals, allowing users maintenance free operation.

Pneumatic operating valve

All pneumatic KS samplers are equipped with an operation valve. An optional electric switch detects the pistons position.

Options

Electric Position Switch for sampling pistons. Enables time stamping in the DCS

Specifications

Consistency range	KS/2: Low consistency 0 - 8%Cs screened pulp KS/4: Low consistency 0 - 8%Cs screened and unscreened pulps, no knots. KS/6: Medium consistency 0 - 18%Cs screened and unscreened pulps.		
Process connection	KS/2: NS40 Sandvik Saddle or threaded NPT1½” Materials: AISI316L, Titanium Gr2, 254SMO, SAF2205 KS/4: NS40 Sandvik Saddle or threaded NPT1½” Materials: AISI316L, Titanium Gr2, 254SMO, SAF2205 KS/6: NS70 Sandvik Saddle or Materials: AISI316L, Titanium Gr2, 254SMO, SAF2205, Titanium saddle for FRP-pipes DN80 flange AISI316L, Titanium Gr2, 254SMO, SAF2205		
Flush water connection	KS/2: R¼” internal thread, compatible with NPT¼” KS/4: R½” external thread, compatible with NPT½” KS/6: R½” external thread, compatible with NPT½”		
Flush water pressure	2 - 10 bar (30 - 150 psi)		
AIR PRESSURE (P-models)	KS/2: 2 – 10 bar (30 – 150 psi), KS/4: 2 – 10 bar (30 – 150 psi), recommendation min 4 bar (60 psi) KS/6: 5 – 10 bar (30 – 150 psi), recommendation min 5 bar (75 psi)		
Sample outlet connection	KS/2: 38mm, (1 ½”) hose connection KS/4: 38mm (1 ½”) hose or welded hard pipe connection KS/6: 50mm (2”) hose or welded hard pipe connection		
Process pressure	Maximum pressure: 25 bar (370 psi) The minimum operating pressure required is a function of the sample consistency. KS/2 and KS/4 min. process pressure: KS/6 min. process pressure: 0 - 3 % 0.5 bar (7 psi) below 8% 1.0 bar (15 psi) 3 - 5 % 1.0 bar (15 psi) over 8% 2.0 bar (30 psi) 5 - 8 % 2.0 bar (30 psi)		
Sample flow	The sample flow is a function of process pressure, fiber type and consistency. The flow diminishes at higher consistencies. KS/4 and KS/6 piston stroke opening and piston orientation are adjustable.		
Materials	KS/2: AISI 316L, Titanium Gr2, 254SMO KS/4: AISI 316L KS/6: AISI 316L, Titanium Gr2		
Weight	KS/2-M: 1.8 kg (4,0 lbs) KS/4: 2.3 kg (5,1 lbs)	KS/2-P: 2.0 kg (4,4 lbs) KS/6 Sandvik: 3.7 kg (8,2 lbs) KS/6 Flange: 5.0 kg (11 lbs)	
Options	Electric position switch of sampling piston for stamping the time in the DCS		

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