

OnQ ModuleTap CD profile control with ball valves on the headbox



Over 30,000 Voith actuators on headboxes worldwide

With OnQ ModuleTap, Voith offers an actuator for use in headboxes with ball tap dilution water valves. OnQ ModuleTap is based on the proven OnQ ModuleJet control system which controls the inflow of dilution water using a ball tap valve's rotary motion.

There are over 30,000 Voith actuators already in use worldwide. OnQ ModuleJet's expanded OnQ ModuleTap functionality also allows the control of ball tap valves. With the aid of an integrated control gear, OnQ ModuleTap can execute a rotary motion of 0-90°, whereby the shut-off valve is opened or closed automatically and very precisely.

Uniform CD basis weight profiles

With many headboxes, control of the CD basis weight profile is still done by the operating personnel and via comparatively imprecise manual setting of the valves.

This often leads to undesirable fluctuations of the CD basis weight profile which is reflected in correspondingly poor 2-sigma values and unnecessary, avoidable production costs.

With OnQ ModuleTap, the paper maker gets an automatic control system that ensures the consistently high quality of the CD basis weight profile.

Also outstandingly suitable for rebuilds

The OnQ ModuleTap actuator system from Voith is also suitable for rebuilds of existing headboxes and can be used in headboxes from third-party manufacturers. The system can thus be installed independently of any existing dilution water system.

Moreover, existing dilution water systems with manual control can also be provided with an automatic CD profile control.

OnQ Profilmatic

OnQ ModuleTap has all the capabilities and functions of the Voith OnQ Profilmatic control systems. The combination of OnQ Profilmatic control software and the OnQ ModuleTap actuator system guarantees extraordinarily good and uniform CD basis weight profiles and also provides for short setting times after felt or fabric changes, web breaks or grade changes.

In this way, production of broke is reduced and the paper manufacturer gets a set of diagnostic tools such as trend display, trend correlation and calculation of shrinkage curves. In addition, support by Voith can be requested at any time via a remote-access server.

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Specifications Actuator gear

Max. torque	20 Nm
Angle of rotation	90° (clockwise or counter-clockwise)
Resolution	0.0076°/step
Speed	1.53°/sec.
Transmission ratio	235:1

Specification Stepper motor

Power supply	24–28 V, 1 A
Steps per revolution	200
Pulse generator	2,370 steps/90°
Speed 1 rev./sec.	(200 Hz)

Example Network design with OnQ ModuleTap

