

# Ultra Valve

## Basis Weight Dilution Profile Control



Dilution control systems are widely used in Pulp & Paper Industry to assure optimal CD basis weight profile and end product quality. Ultra Valve dilution profile control system has been on the market for more than three decades with various dilution control system deliveries for pulp and paper industry globally. Investments in R & D and focus on end customer needs guarantees that Ultra Valve dilution profile control stays in the frontline when reliable and trustworthy dilution control system is required.

Ultra Valve design is user friendly with special focus on ease of maintenance. Access to different valve components is assured by straight forward design. The Ultra Valve actuators are designed for high precision and torque guaranteeing accuracy on precise and trouble free dilution water distribution through each Ultra Valve.

Ultra Valve dilution profile control system utilizes Profic CD control software especially designed for Ultra Valve dilution profile control systems. Profic CD control software is made with an open architecture aimed to assure no expensive service contracts required. Profic CD control provides interactive support functions such as historic graphic trends as well as built in trouble shooting tools and control tuning support tools. 2 – sigma basis weight improvement with Ultra Valve and Profic CD has generally been over 60%.

Profic CD control is also provided with remote service capability assuring quick service and troubleshooting assistance as well as remote technical support at all times.

## BENEFITS

### Dilution Profile Control:

- Improved CD basis weight profile
- Improved fiber orientation
- Less brakes and broke
- Faster grade changes
- Faster start – ups
- Better runnability

### Ultra Valve:

- Robust design
- Easy to install
- Easy to maintain
- High precision and torque

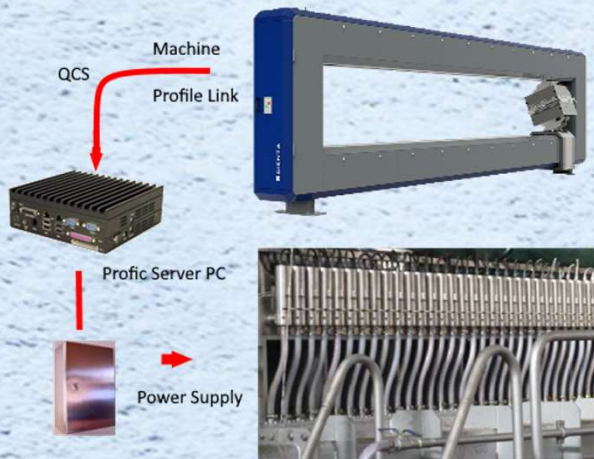
### Profic CD control:

- Open architecture
- No service contract required
- Historic graphic trends
- Trouble shooting tools
- Control tuning support tools
- Remote Service

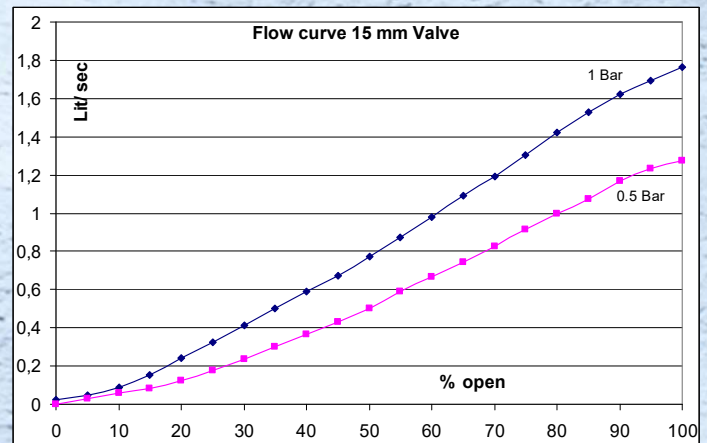


# Ultra Valve

## Basis Weight Dilution Profile Control



**System Lay – out**



**Very flat flow curve**

### Other features:

- All signals digital, reliable communication over a 2 – wire system
- Stand alone operation available also with Siemens PLC
- Profile CD control software can be incorporated into scanner PLC

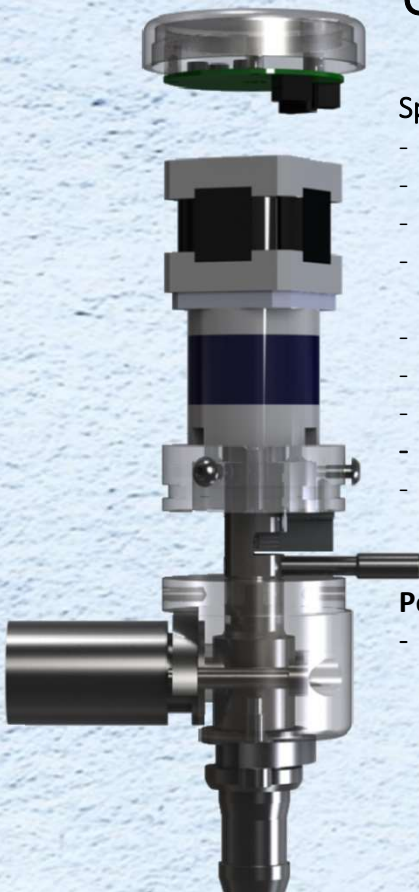
## Ultra Valve Va 20

### Specification:

- Control range: 0 – 90 °deg. = 5 – 100 %
- Torque nominal: 20 Nm
- Valve torque load: 2 Nm
- Interface options: Profibus, Modbus, Ethernet
- Power: +24 V, 0.25 A
- Ambient temp: 10 – 60 °C
- Body material: AISI 316L
- 1 step change: 0,018 °deg
- 0 – 100 % response: 10 s max.

### Position feedback:

- State of the art Hall sensor device
  - Ratio metric measurement interpreted by a 16 Bit resolution A / D converter which defines the signal range in > 65 000 units



**Fastpap Oy**  
 Vesimyllynkatu 3  
 FI-33310 Tampere, Finland  
 Tel. +358 3 3142 4400  
[info@fastpap.com](mailto:info@fastpap.com)  
[www.fastpap.com](http://www.fastpap.com)

**Fastpap**