

S6-VR VISCOSITY CONTROL SYSTEM

Automatic control of viscosity and temperature based on the vibration measuring principle



(Fig. Vibration viscometer with PentaSmart control unit installed and wired in stainless steel mounting box).

Features

- Substantial and sustainable cost reductions
- Improving print quality
- Productivity increase
- Optimal price-performance ratio
- Maintenance free
- Simple installation and commissioning
- Inline operation

Functions

- Precise control of viscosity and temperature
- Decentralised or centralised control
- Solvent mixing / consumption measurement
- Central colour database
- Print job management
- Reporting and analyses
- PLC Integration

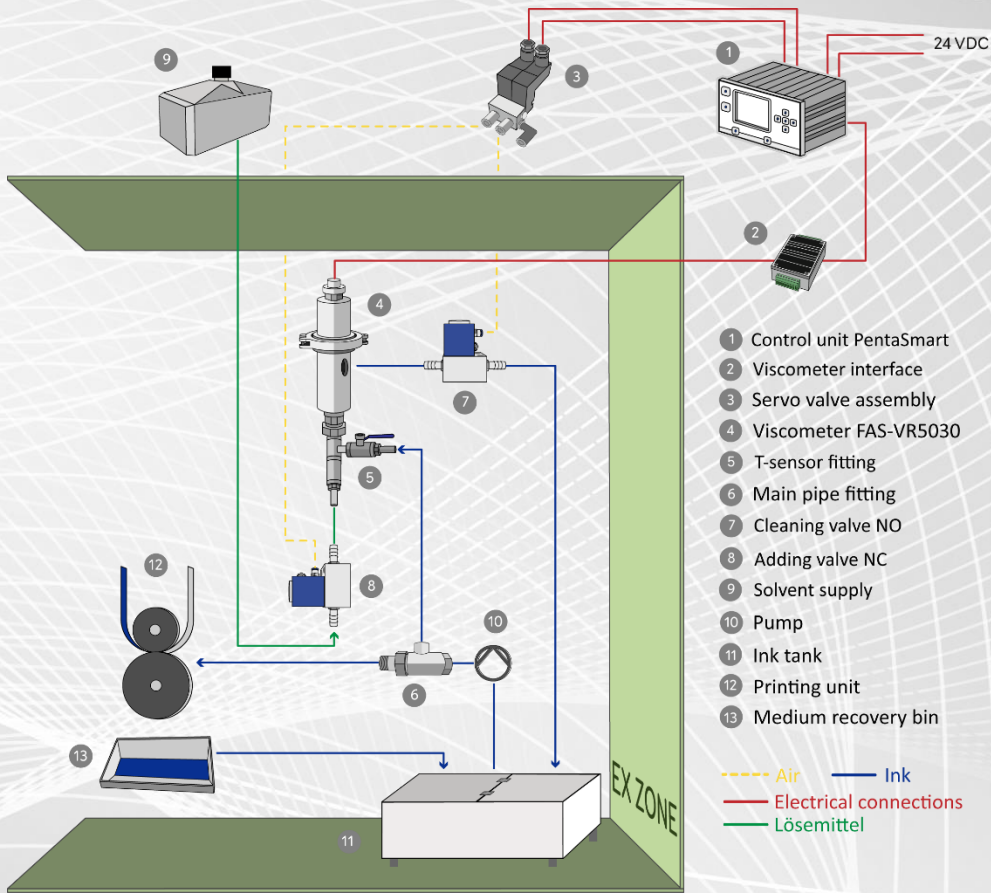
Areas of application

- Gravure printing
- Flexo printing
- Coating
- Lamination
- Paper and corrugated board printing
- Solvent and water-based media
- Lacquer, 2K lacquer, adhesives

Specifications

- Viscosity output: cup seconds
- Measuring principle: Vibrating resonator
- Std m. range: 0.2-500 cP, opt. up to 20'000 cP
- Tol. range: < 1% of the effective viscosity
- Standard interface: MODBUS RTU
- Power supply: 24V DC
- ATEX

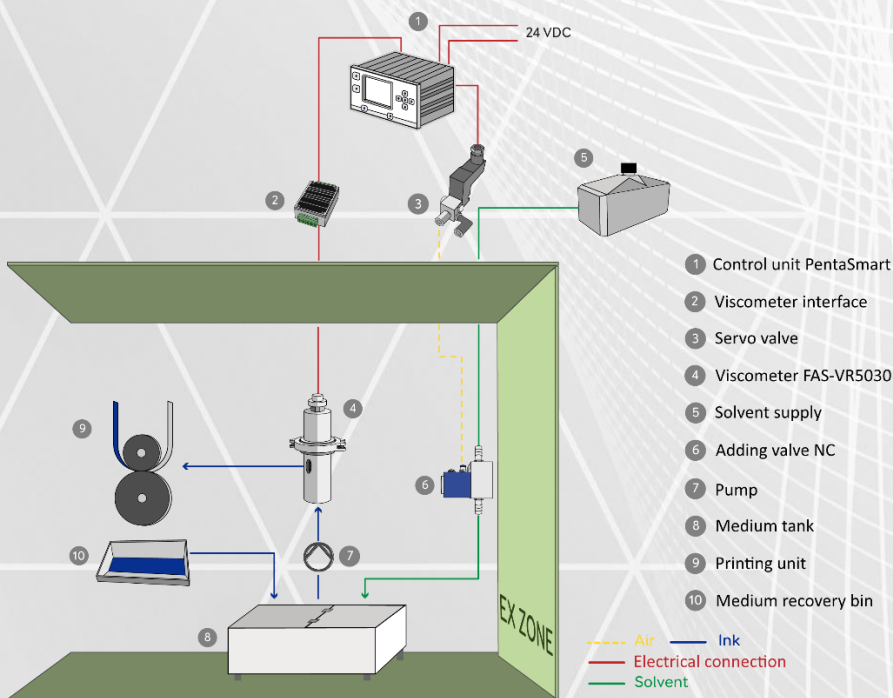
ByPass Installation / Gravure Setup



- 1 Control unit PentaSmart
- 2 Viscometer interface
- 3 Servo valve assembly
- 4 Viscometer FAS-VR5030
- 5 T-sensor fitting
- 6 Main pipe fitting
- 7 Cleaning valve NO
- 8 Adding valve NC
- 9 Solvent supply
- 10 Pump
- 11 Ink tank
- 12 Printing unit
- 13 Medium recovery bin

--- Air — Ink
 — Electrical connections
 — Lösemittel

InLine Installation / Flexo Setup



- 1 Control unit PentaSmart
- 2 Viscometer interface
- 3 Servo valve
- 4 Viscometer FAS-VR5030
- 5 Solvent supply
- 6 Adding valve NC
- 7 Pump
- 8 Medium tank
- 9 Printing unit
- 10 Medium recovery bin

--- Air — Ink
 — Electrical connection
 — Solvent