

Welcome!



ENGEL

be the first.

Conventional water flow regulators

- > Dirty inspection glasses → Service work
- > Service work → Labour costs
- > Service work → Material costs
- > Service work → Production stop
- > No process control



The intelligent alternative



fimo – the modular water manifold with process monitoring

Basic characteristics

- > Cost efficient and compact design with high-value stainless steel liners
- > *Flomos* with 4, 6 and 8 temperature control circuits can be combined
- > Integrated regulating and shut-off valves
- > Monitoring of flow, temperature and pressure
- > Visualisation and monitoring via machine control system
- > Mobile display (optional)

Water distribution in its most compact way



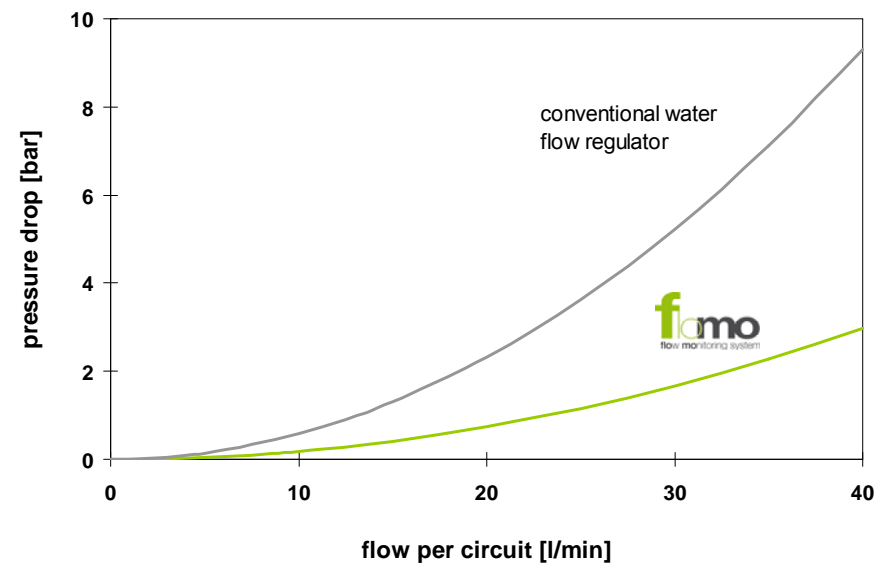
- > Integrated regulating and shut-off valves in every circuit
- > Blowing out possible in both directions
- > No service necessary

Reduction of cooling time

Larger pipe cross sections in fimo

→ Lower pressure drop

→ More flow








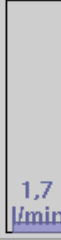




ENGEL

be the first.

Process monitoring

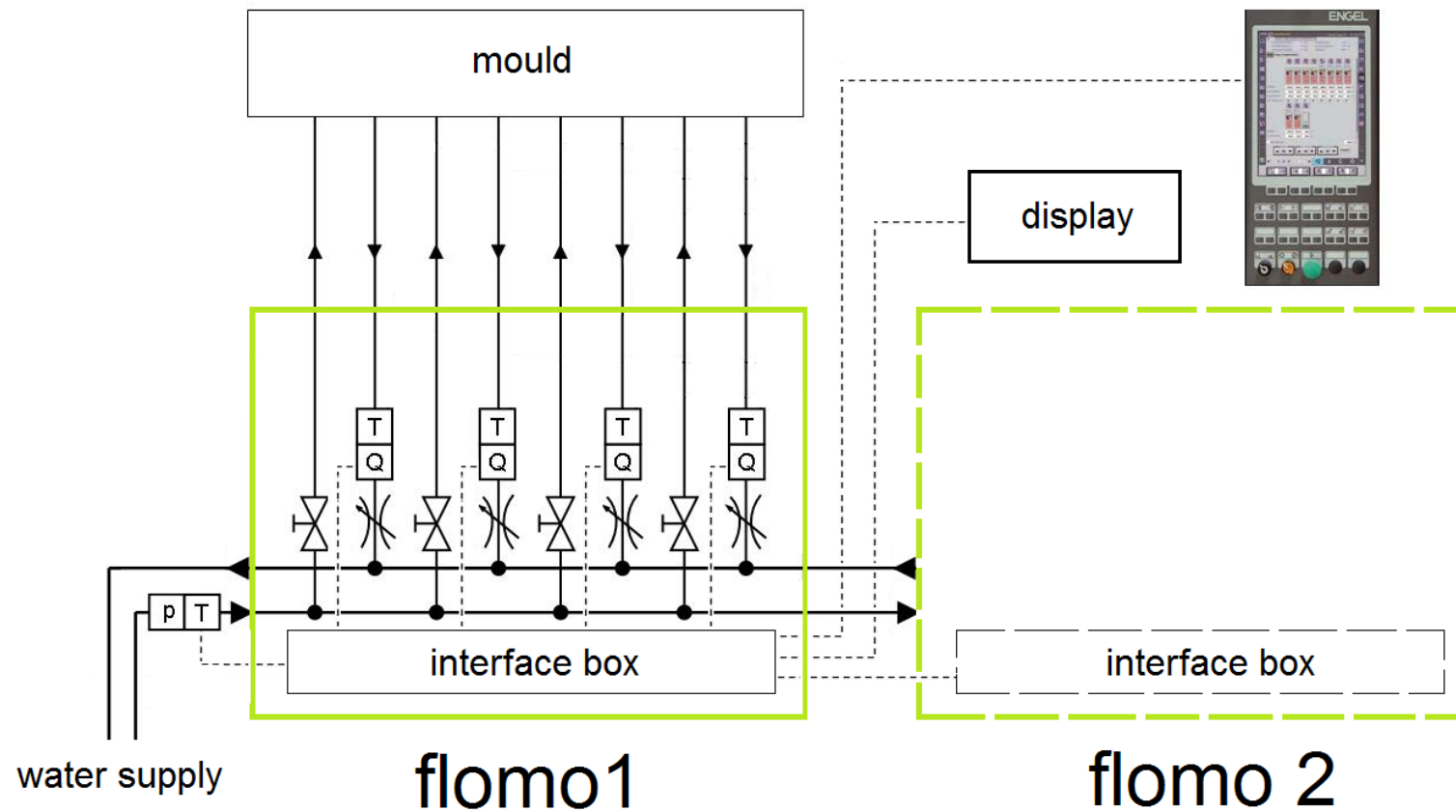
- > Visualisation of flow, temperature and pressure
- > Individual configuration of alarm points
- > Continuous documentation of process data

| Feste Platte | Bewegliche Platte | Funktionen | Toleranz | Konfiguration | | | | |
|-------------------------|-------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------|-------|
| | |  |  |  |  |  | | |
| Verteilernummer | | 1 | 1 | 1 | 1 | 1 | | |
| | |  |  |  |  |  | | |
| | | 6,3 l/min | 10,2 l/min | 1,7 l/min | 4,2 l/min | 9,8 l/min | 7,2 l/min | |
| Rücklauf Solldurchfluss | | 6,0 | 10,0 | 2,0 | 4,5 | 9,7 | 7,1 | l/min |
| Rücklauf Solltemperatur | | 10,0 | 10,0 | 10,0 | 10,0 | 10,0 | 10,0 | °C |
| Rücklauf Isttemperatur | | 10,4 | 9,7 | 9,5 | 10,5 | 8,9 | 9,5 | °C |
| Vorlauf Istdruck | | 5,5 | 5,5 | 5,5 | 5,5 | 5,5 | 5,5 | bar |

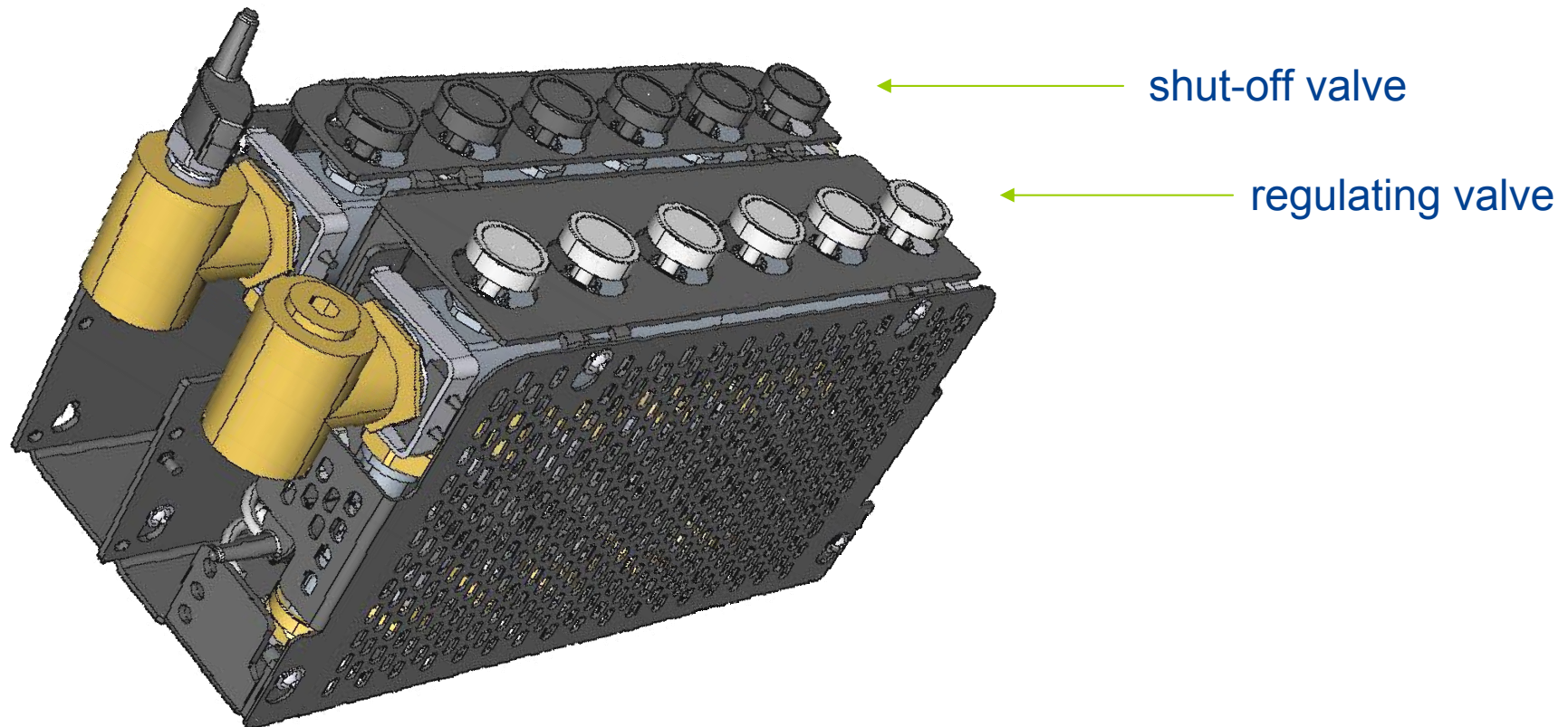
Technical characteristics

- > Types: modules with 4, 6 and 8 temperature control circuits
- > Temperature control medium: water
- > Max. medium temperature: 95°C [203°F]
- > Max. medium pressure: 10 bar
- > Measuring range
 - 1 – 15 l/min oder 2 – 40 l/min
 - Practically attainable flows in temperature control systems are always below 25 l/min
- > Connection to water supply: 1 ¼“
- > Connection to supply tools: ⅜“

Construction scheme



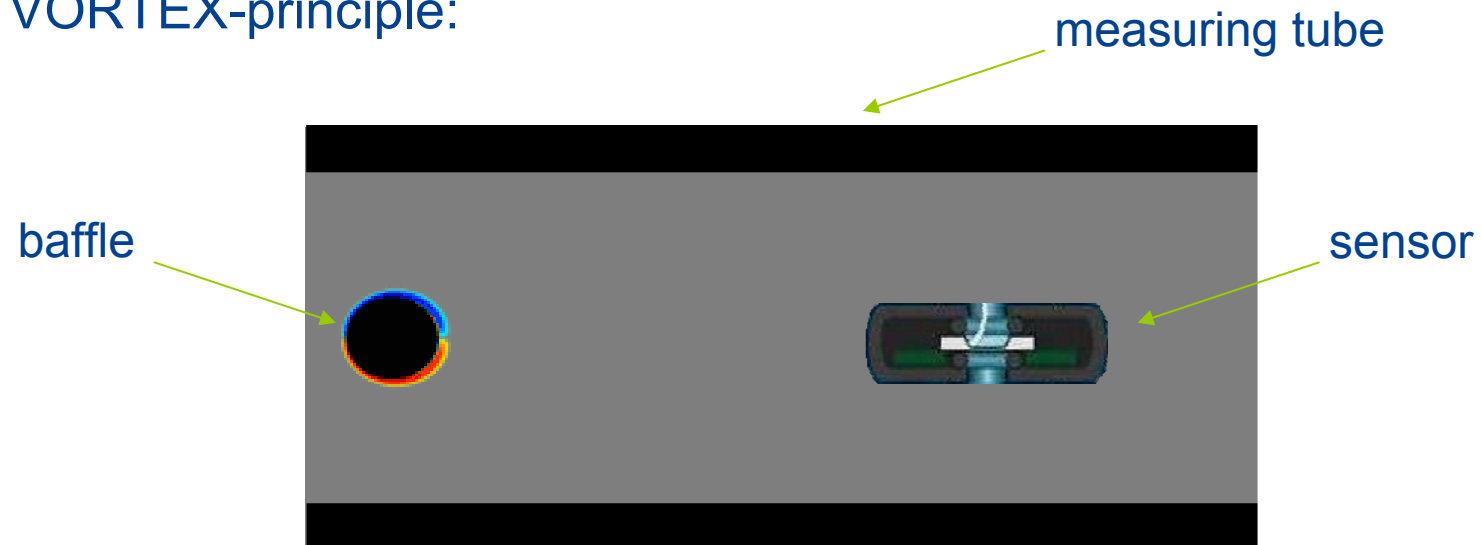
Operating elements



VORTEX – flow sensor

- > Insensitive to contamination → no service
- > No moving parts
- > Very low pressure drop

The VORTEX-principle:



ENGEL

Thank you!