



**Series PT / PS**  
Plastic tube variable area  
flowmeters



- \* 4 l/h ... 50 m<sup>3</sup>/h H<sub>2</sub>O
- \* 200 NI/h ... 1500 Nm<sup>3</sup>/h air
- \* Accuracy: 4% ... 6% ( $q_c=50\%$ )
- \* Materials:
  - Flow tube: plastic Polysulfone, Trogamid<sup>®</sup> T or NAS<sup>®</sup>
  - Connections: PVC, PP, steel, EN 1.4404 (AISI 316L)
- \* 1 or 2 switches
- \* 0 ... 4-20 mA output (max. resolution 18 points)
- \* Ex version and HART<sup>®</sup>, Profibus or Fieldbus protocols on request



**Series 2000**  
Glass tube variable area flowmeters  
for low flows



- \* 0.1 l/h ... 1000 l/h H<sub>2</sub>O
- \* 0.5 NI/h ... 30 Nm<sup>3</sup>/h air
- \* Accuracy: 1.6% ... 3.5% ( $q_c=50\%$ )
- \* Materials:
  - Flow tube: borosilicate glass
  - Connections: EN 1.4404 (AISI 316L)
- \* 1 or 2 switches
- \* Regulating valve
- \* Constant flow regulator



**Series 6000**  
Glass tube variable area  
flowmeters



- \* 2.5 l/h ... 50 m<sup>3</sup>/h H<sub>2</sub>O
- \* 50 NI/h ... 1500 Nm<sup>3</sup>/h air
- \* Accuracy: 1.6% ( $q_c=50\%$ )
- \* Materials:
  - Flow tube: borosilicate glass
  - Connections: steel, EN 1.4404 (AISI 316L), PVC, PP, PTFE, PVDF
- \* 1 or 2 switches
- \* 0 ... 4-20 mA output (max. resolution 18 points)
- \* Ex version and HART<sup>®</sup>, Profibus or Fieldbus protocols on request



**Series 60M1**  
Glass tube variable area  
flowmeters for low flows



- \* 0.1 l/h ... 100 l/h H<sub>2</sub>O
- \* 0.5 NI/h ... 3600 NI/h air
- \* Accuracy: 3% ( $q_c=50\%$ )
- \* Materials:
  - Flow tube: borosilicate glass
  - Connections: EN 1.4404 (AISI 316L)



**Series PR**  
Orifice plate flowmeters



- \* 2 m<sup>3</sup>/h ... 20000 m<sup>3</sup>/h H<sub>2</sub>O
- \* 30 Nm<sup>3</sup>/h ... 300000 Nm<sup>3</sup>/h air
- \* Accuracy:  $\pm 4\%$  f.s.
- \* Materials: steel, EN 1.4404 (AISI 316L), PVC, PP
- \* 1 or 2 switches
- \* 0 ... 4-20 mA output
- \* Ex version and HART<sup>®</sup>, Profibus or Fieldbus protocols on request depending on transmitter model



**Series AD / VH**  
Flow indicators and switches



- \* Series AD: 15 l/h ... 16000 l/h H<sub>2</sub>O  
300 NI/h ... 130 Nm<sup>3</sup>/h air
- \* Series VH: DN32 ... DN500
- \* Accuracy series AD:  $\pm 5\%$  f.s.
- \* Materials:
  - Series AD: brass, aluminium, EN 1.4404 (AISI 316L)
  - Series VH: EN 1.4404 (AISI 316L), PTFE
- \* 1 ... 4 switches for Series AD
- \* 4-20 mA output for Series AD
- \* Ex version and HART<sup>®</sup> protocol on request



**Series M21**  
Metal tube variable area  
flowmeters for low flows



- \* 0.4 l/h ... 1000 l/h H<sub>2</sub>O
- \* 12 NI/h ... 30 Nm<sup>3</sup>/h air
- \* Accuracy: 4% ( $q_c=50\%$ )
- \* Materials: EN 1.4404 (AISI 316L), Titanium
- \* 1 or 2 switches
- \* 4-20 mA output
- \* Ex version and HART® protocol on request
- \* Regulating valve
- \* Constant flow regulator
- \* Aluminium housing, optional in AISI 316L



**Series SC250**  
Metal tube variable area flowmeters



- \* 2.5 l/h ... 180 m<sup>3</sup>/h H<sub>2</sub>O
- \* 80 NI/h ... 5500 Nm<sup>3</sup>/h air
- \* Accuracy: 2.5% ( $q_c=50\%$ )  
(1.6% ( $q_c=50\%$ ) on request)
- \* Materials: EN 1.4404 (AISI 316L), PVC, PP, PTFE, Titanium, Hastelloy C
- \* 1 or 2 switches
- \* 4-20 mA output
- \* Totalizer
- \* Ex version and HART® protocol on request
- \* Aluminium housing, optional in AISI 316L or PP
- \* Suitable for all flow directions
- \* Programmable by means of PC and USB cable



**Series DP**  
Target disk flowmeters



- \* 0.8 m<sup>3</sup>/h ... 1600 m<sup>3</sup>/h H<sub>2</sub>O
- \* Accuracy:
  - DP65: ±2.5% f.s.
  - (±1.6% f.s. on request)
  - DP500: ±4% f.s.
- \* Materials: Plastic coated steel, EN 1.4404 (AISI 316L)
- \* 1 or 2 switches
- \* 4-20 mA output
- \* Totalizer
- \* Ex version and HART® protocol on request
- \* Aluminium housing, optional in AISI 316L or PP
- \* Suitable for all flow directions
- \* Programmable by means of PC and USB cable



**Series CU**  
Ultrasonic flowmeters



- \* Suitable for clear liquids and different pipe materials
- \* Pipe sizes: DN80 ... DN2000
- \* Accuracy: ±1.5% reading value ± 0.02 m/s
- \* Power supply: 85 ... 265 VAC
- \* Flow rate and speed indication
- \* Programmable 4-20 mA output
- \* Totalizer
- \* 2 alarm outputs
- \* Programmable by means of PC and USB cable



**Series FLOMID**  
Electromagnetic flowmeters



- \* Pipe sizes: DN3 ... DN600  
Others on request
- \* Accuracy: ±0.5% reading value
- \* Materials:
  - Flow tube: EN 1.4301 (AISI 304)
  - Liner: PP, PVDF, Ebonite, PTFE
  - Electrodes: Hastelloy C, EN 1.4404 (AISI 316L), Zirconium, Titanium, Tantalum
- \* Flow indication
- \* Programmable 4-20 mA / Frequency outputs
- \* Totalizer
- \* 2 alarm outputs
- \* Batching function (depending on converter)
- \* HART® and Modbus RTU RS485 protocols on request
- \* Programmable by means of PC and USB cable



**Series FLOMAT**  
Insertion electromagnetic  
flowmeters



- \* Pipe sizes: DN40 ... DN2000
- \* Accuracy: ±3.5% reading value
- \* Materials:
  - Sensor: EN 1.4404 (AISI 316L), PVDF
  - Head: PVDF
  - Electrodes: EN 1.4404 (AISI 316L).
  - Others on request
- \* Flow indication
- \* Programmable 4-20 mA / Frequency outputs
- \* Totalizer
- \* 2 alarm outputs
- \* HART® and Modbus RTU RS485 protocols on request
- \* Flomat-Tap accessory for maintenance purposes without flow interruptions
- \* Programmable by means of PC and USB cable



**Series TM**  
Turbine flowmeters



- \* 300 l/h ... 650 m<sup>3</sup>/h H<sub>2</sub>O
- \* Accuracy: ±0.5% reading value
- \* Materials: EN 1.4404 (AISI 316L)
- \* Pick-up coil output signal
- \* Associated electronics
  - Series CIP / CP
  - Series MC01 / MT02
  - Series APTM / DFD2
- \* HART® protocol on request
- \* Ex d IIC T6 version on request



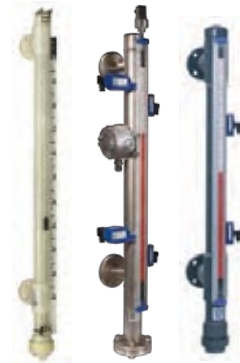
**Series COVOL**  
Oscillating piston flowmeters



- \* 25 l/h ... 60 m<sup>3</sup>/h H<sub>2</sub>O
- \* Accuracy: ±0.8% reading value
- \* Materials: EN 1.4404 (AISI 316L), PVC, PP, PTFE
- \* Viscosity up to 120000 mPa·s
- \* Reed switch output signal
- \* Associated electronics
  - Series CIP / CP
  - Series MC01 / MT02
  - Series APTM / DFD2
- \* HART® protocol on request
- \* Ex d IIC T6 version on request



**Series LT**  
Level indicators, transmitters and switches



- \* Tank side mounted
- \* Measuring range: 0.15 ... 15 m
- \* Accuracy: ±4 mm reading value
- \* Materials: EN 1.4404 (AISI 316L), PVC, PP, PTFE, PVDF
- \* Adjustable switches. Optional with Ex d IIC T6 version
- \* 4-20 mA output, Ex version and HART®, Profibus or Fieldbus protocols on request



**Series CIP / CP**  
Associated electronics



- \* Input for Series COVOL, TM and others
- \* Power supply:
  - Series CIP: battery
  - Series CP: 24 VDC, 2-wire system
- \* Series CIP:
  - CIP: totalizer
  - CIPII: non-resetable totalizer and resetable partial
- \* Series CP: flow indication, totalizer, programmable 4-20 mA output
- \* HART® protocol for CH420 models



**Series MC01 / MT02 / DFD2 / APTM**  
Associated electronics



- \* Input for Series COVOL and TM, as well as TTL and others
- \* Power supply: 24, 110, 230, 240 VAC, 24 VDC
- \* MC01: flow indication, totalizer, batching function with relay output, optional with 4-20 mA output
- \* MT02: totalizer, batching function with relay output
- \* DFD2: frequency divider with TTL 5V or optoisolated output
- \* APTM: pulse amplifier with TTL 5V or optoisolated output



**Series LP**  
Level displacers, transmitters and switches



- \* Tank top or side mounted
- \* Measuring range: 0.3 ... 6 m
- \* Accuracy: ±5 mm reading value
- \* Materials:
  - Body: EN 1.4404 (AISI 316L), Hastelloy C, Titanium
  - Rod: EN 1.4404 (AISI 316L), PVC, PP, PVDF, Hastelloy C, Titanium
- \* 1 or 2 switches
- \* 4-20 mA output
- \* Ex version and HART® protocol on request
- \* Aluminium housing, optional in AISI 316L or PP
- \* Programmable by means of PC and USB cable



**Series LTDR**  
Guided radar TDR level transmitters



- \* Suitable for liquids and solids
- \* Measuring range:
  - Single rod probe: 100 ... 3000 mm
  - Coaxial probe: 100 ... 6000 mm
  - Rope probe: 1 ... 20 m
- \* Accuracy:  $\pm 3$  mm
- \* Materials: EN 1.4404 (AISI 316L), PTFE coating on request
- \* Power supply: 12 ... 30 VDC, 4-wire system
- \* Programmable 4-20 mA output
- \* 1 programmable alarm output
- \* Extended temperature range version on request
- \* Ex version on request



**Series LU**  
Ultrasonic level transmitters



- \* Suitable for liquids and solids
- \* Measuring range:
  - Liquids: up to 12 m
  - Solids: up to 7 m
- \* Accuracy:  $\pm 2$  mm (between 0.30 ... 2 m)
- \* Materials: PP, PVDF
- \* Power supply: 24 VDC, 2 or 4-wire system
- \* Local or remote level indication
- \* 2 programmable alarm outputs
- \* Programmable 4-20 mA output
- \* HART® protocol on request



**Series LD**  
Vibrating fork level switches



- \* Suitable for liquids and solids
- \* Detection length: up to 2 m
- \* Hysteresis:  $\pm 2$  mm (with H<sub>2</sub>O)
- \* Materials: EN 1.4404 (AISI 316L), HALAR® coating on request
- \* Power supply: 24 ... 250 VAC / 10 ... 55 VDC
- \* NAMUR Exi version and relay output on request



**Series LC / LE**  
Float level switches and transmitters



- \* Tank top mounted
- \* Side mounted with special design
- \* Measuring range: up to 6 m
- \* Accuracy:  $\pm 2$  mm
- \* Materials: EN 1.4404 (AISI 316L), PVC, PP, PTFE, PVDF
- \* Ex version and HART®, Profibus or Fieldbus protocols on request
- \* Series LC: 1 ... 6 switches depending on model
- \* Series LE: 0 ... 4-20 mA output



**Series LC40**  
Float level switches



- \* Side mounted or tank top
- \* Switching differential: 52 ... 1100 mm
- \* Accuracy:  $\pm 3$  mm
- \* Materials: EN 1.4404 (AISI 316L), PVC, PP, PTFE, PVDF
- \* Alarm switches: micro-switch (AMM), reed switch (AMR), pneumatic switch (AMP), inductive detector (AMD)
- \* Ex d IIC T6 version on request
- \* Aluminium housing, optional in AISI 316L or PP



**Series NPC**  
Level indicators



- \* Measuring range: up to 15 m
- \* Materials:
  - Pulleys: PVC
  - Float: PP, PVC, PVDF, EN 1.4404 (AISI 316L)
  - External counterweight-indicator: PVC
- \* Local indication by means of external counterweight
- \* Adjustable switches
- \* 4-20 mA output, Ex version and HART®, Profibus or Fieldbus protocols on request