# The world's largest closed loop

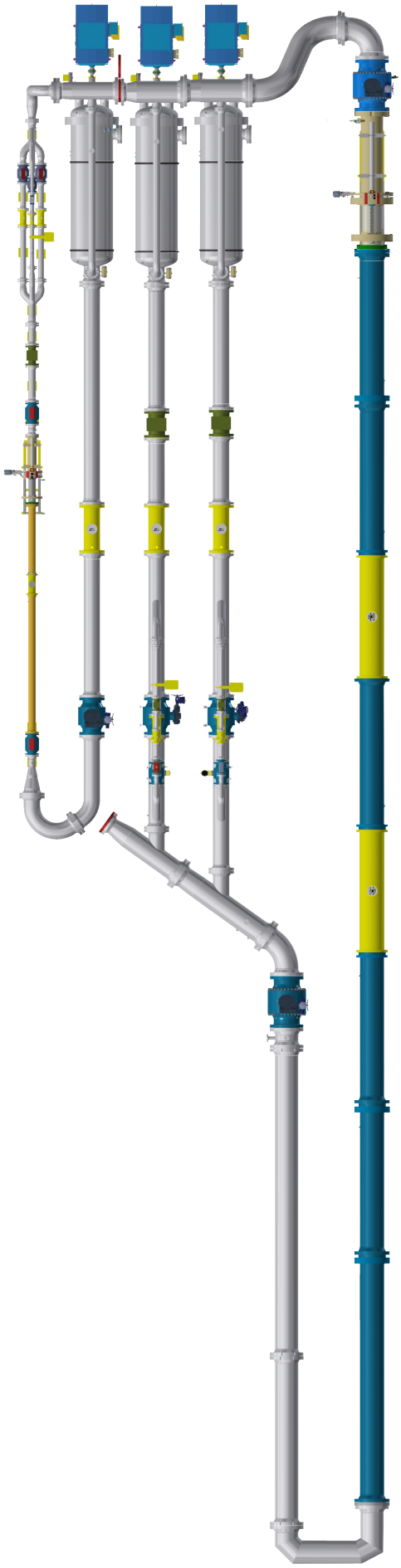
## For high-pressure calibration of flowmeters

- 12" (300 mm) high-pressure closed loop for calibration of flow meters
- 10" (250 mm) high-pressure closed loop for calibration
- 4" primary twin Piston prover system
- 24" (600 mm) and 65 bar high-pressure closed loop for calibration of flow meters
- 34" (850 mm) and 65 bar high-pressure closed loop for calibration of flow meters, with meter line of 48 metres in length, and a 30" length compensator with a horizontal movement of 2 meters
- Dp over the MUT system up to 1,5 bar
- The length compensator ensures that customer meter lines are calibrated under operation conditions equivalent to on-site conditions.
- Four monitors control the meter (MUT) during the calibration to register differences in the reading between the monitors and the working standards.
- The parallel working standards enable adjusting the calibration conditions to the customer meter.

### Unique high-pressure calibration system

The technology behind the high-pressure calibration system is unique in the world. It is built as a closed loop with low pressure loss, allowing calibration at maximum pressure and flow all year round, irrespective of the season.

| Specification | |
|---|---|
| Calibration pressure | 3-65 bar |
| Flow | 3 - 65.000 $m^3$/hour |
| Power | Variable up to 4,5 MW |
| Meter sizes | 2" - 60" |
| Maximum N flow | Depends on static pressure |
| CMC | 0,13 - 0,22% |



All closed loops are connected to a transmission pipeline, allowing a fast supply of gaseous flows like air, natural gas and biogas within an hour.

After the calibration, the gas is carefully discharged to the grid, ensuring maximum environmental caution.

## Types of meters calibrated in the closed loops

- Turbine meters
- Swirl meters
- Ultrasonic measuring instruments
- Ultrasound meters
- V-cone meters
- Vortex meters
- Coriolis meters
- Thermal mass flow meters

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