## **VORTEX METER VTX 3**



## MEASURING RANGE

DN

15 25

40

50

80

100 150

200

250

300

## Special features: Saturated steam Water Air (Values for 170°C, 7barg) Qmin Qmax Qmin Qmax Qmin m³/h m³/h kg/h 0.36 5.07 4.34 32.57 9.73 0.81 11.4 9.77 114.00 21.88 2.04 326.60 28.58 24.50 54.86 3.53 49.48 42.41 565.50 94.98 7.74 108.3 92.90 1239 208.1

159.60

361.60

679.30

1086

1577

2128

4822

9057

14478

21028

Product Type: indirect volume and mass flow meter

MAIN CHARACTERISTICS

Qmax

135.7

474.9

1361

2356

5160

8866

20086

37730

60316

87601

Application:

357.5

809.9

1521

2432

3532

Flow and volume measurement with integrated temperature and pressure compensation for liquids, gases and steams

Measuring accuracy:	from $\pm 0.75$ % of measured value
Ex-approval:	Zone 1
Process temperature:	-40°C up to +240°C
Process pressure:	up to 100 bar
Housing material:	stainless steel
Wetted parts:	stainless steel
Power supply:	24 VDC
Process supply / Display:	2 x 4-20 mA, HART <sup>®</sup> , pulses, on-site-Display
Process connection:	Flange or Sandwich version

direct calculation of energy quantities

The values for water and air are operating
volumes.

The values for saturated steam depend on pressure and temperature. As an example, the measuring ranges 170°C (7 barg) are given. More ranges can be found in the data sheet or operating instructions.

## MEASURING ACCURACY

186.2

421.89

792.50

1267

1840

13.3

30.13

56.61

90.49

131.40

Volume flow (liquids)	±0.75 % of measured value (Re ≥ 2000)
	±2.0 % of measured value (10000 Re ≥ 2000)
Volume flow (gases and steams)	±1 % of measured value (Re ≥ 2000)
	±2.0 % of measured value (10000 Re ≥ 2000)
Mass flow (gases and steams)	±1 % of measured value (Re $\ge$ 2000) <sup>1</sup>
	±2.0 % of measured value (10000 Re ≥ 2000) <sup>1</sup>
Mass flow (liquids)	±1.5 % of measured value (Re ≥ 2000)
	±2.5 % of measured value (10000 Re ≥ 2000)
Standard volume (gases)	$\pm 1.5$ % of measured value (Re $\ge 2000)^{1}$
	±2.5 % of measured value (10000 Re ≥ 2000) <sup>1</sup>

Further information and product variants are available on request



<sup>1</sup>The maximum measurement deviation refers to the measurement at an operating pressure > 65 % of the measuring range end value of the pressure sensor used.

