## **BOPP & REUTHER**

## VORTEX METER VTX 3 WITH P/T





Product Type: indirect volume and mass flow meter

Application: Flow and volume measurement with integrated

temperature and pressure compensation for liquids,

gases and steams

Measuring accuracy: from ±0.75 % of measured value

Ex-approval: Zone 1

-40°C up to +240°C Process temperature:

Process pressure: up to 100 bar stainless steel Housing material: Wetted parts: stainless steel

24 VDC Power supply:

Special features:

Process supply / Display: 2 x 4-20 mA, HART®, pulses, On-site display

Process connection: Flange or Sandwich version

## **MEASURING RANGE**

	Water		Air		Saturated steam (Values for170°C, 7 barg)	
DN	Qmin	Qmax	Qmin	Qmax	Qmin	Qmax
	m³/h		m³/h		kg/h	
15	0.36	5.07	4.34	32.57	9.73	135.7
25	0.81	11.4	9.77	114.00	21.88	474.9
40	2.04	28.58	24.50	326.60	54.86	1361
50	3.53	49.48	42.41	565.50	94.98	2356
80	7.74	108.3	92.90	1239	208.1	5160
100	13.3	186.2	159.60	2128	357.5	8866
150	30.13	421.89	361.60	4822	809.9	20086
200	56.61	792.50	679.30	9057	1521	37730
250	90.49	1267	1086	14478	2432	60316
300	131.40	1840	1577	21028	3532	87601

The values for water and air are operating

direct calculation of energy quantities

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

TIE/TOOKET / TOOOTO TO				
Volume flow	±0.75 % of measured value (Re ≥ 2000)			
(liquids)	±2.0 % of measured value (10000 Re ≥ 2000)			
Volume flow	±1 % of measured value (Re ≥ 2000)			
(gases and steams)	±2.0 % of measured value (10000 Re ≥ 2000)			
Mass flow	±1 % of measured value (Re ≥ 2000) 1			
(gases and steams)	±2.0 % of measured value (10000 Re ≥ 2000) <sup>1</sup>			
Mass flow	±1.5 % of measured value (Re ≥ 2000)			
(liquids)	±2.5 % of measured value (10000 Re ≥ 2000)			
Standard volume	±1.5 % of measured value (Re ≥ 2000) <sup>1</sup>			
(gases)	±2.5 % of measured value (10000 Re ≥ 2000) <sup>1</sup>			

<sup>&</sup>lt;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.

Further information and product variants are available on request

