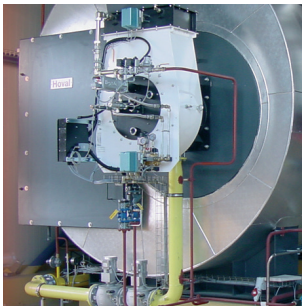


## CONTOIL® VZF II

Fuel oil meter with mass flow calculation



Fuel Management has been of the hottest topics for many years now, as registration of Fuel Consumption is required for environmental and efficiency purposes. The new CONTOIL® VZF II flow meters with integrated temperature sensor, provides for temperature compensated flowrate and calculated MASS-FLOW.

### Features

- Integrated temperature sensor
- Mass & Massflow calculation
- Optional linearization
- Volume compensation
- "Auto" detection of medium change

### Benefits

- Multiple signals
- Compareable to Coriolis meter
- Increased full range accuracy
- Easier cable connection

## Specifications



Type		VZF(A) II					
Nominal diameter		DN mm	15	20	25	40	50
		inch	1/2	3/4	1	1 1/2	2
Installation length		mm	165	165	190	300	350
Nominal pressure:							
- threaded ends		PN bar	16	16	16	16	16
- flanges		PN bar	25	25	25	25	25
Max. medium temperature	Tmax	°C	130, 180				
Maximum flow rate	Qmax <sup>1)</sup>	l/h	600	1500	3000	9000	30000
<b>Continuous flow rate</b>	<b>Qcont<sup>1)</sup></b>	<b>l/h</b>	<b>400</b>	<b>1000</b>	<b>2000</b>	<b>6000</b>	<b>20000</b>
Minimum flow rate	Qmin	l/h	20	40	75	225	750
Approx. starting flow rate		l/h	4	12	30	90	300
Max. permissible error			<±1 %, (A) ±0.5 % of actual value				
Repeatability			±0.2 %, (A) ±0.1 %				
Measuring chamber volume	approx.	cm <sup>3</sup>	12	36	100	330	1200
Safety filter mesh size		mm	0.400	0.400	0.400	0.800	0.800
<b>Dirt filter max. mesh size</b>		<b>mm</b>	<b>0.100</b>	<b>0.100</b>	<b>0.250</b>	<b>0.250</b>	<b>0.250</b>
Housing finish			enameled red RAL 3013				
Weight with:							
- threaded ends <sup>2)</sup>	approx.	kg	2.2	2.5	4.2	17.3	-
- flanges PN 25	approx.	kg	3.8	4.5	7.5	20.3	41.0
<b>Smallest readable amount</b>							
Total volume		l, m <sup>3</sup> , G	Up to 3 decimal places (dynamic)				
Total mass		kg, t, lb	Up to 3 decimal places (dynamic)				
Digital flow rate display		(l, G, m <sup>3</sup> , kg, t, lb) / (s, min, h)	Up to 3 decimal places (dynamic)				
Registration capacity		l, m <sup>3</sup> , G	8 digits				
Registration time until overrun		Qcont (m <sup>3</sup> )	>100 years				
<b>Outputs</b>							
Three (2 pulse/freq., 1 4...20 mA)			freely selectable outputs are available, totally independent of each other				
Pulse value for totalizer			volume or mass pulse 0...200 pulse/sec. (50 % duty cycle)				
Current 4...20 mA for flowrate			volume flow, mass flow or temperature signal to 4...20 mA				
Frequency for flow			volume flow, mass flow or temperature signal to frequency 0...200 Hz (50 % duty cycle)				
Limiting switch		Qmin, Qmax	minimum, maximum and hysteresis parameterized				
State switch			Alarm, error state and on/off parameterized				

<sup>1)</sup> For burners and engines or motors, the meter must be selected on the basis of the continuous flow rate (only differential measurement). For higher viscosities, or if the meter is installed on the suction side, the pressure drop and any reduction in the measuring range must be taken into consideration.

<sup>2)</sup> Weight without couplings.

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