

# CONTOIL® VZF II

## Fuel oil meter

**NEW**  
VZF II series  
with Mass  
signal

The new VZF II series with integrated temperature sensor for volume compensation and mass signal. Up to three outputs!



### Features

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

### Benefits

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



## Specifications



Type			VZF(A) II 15	VZF(A) II 20	VZF(A) II 25	VZF(A) II 40	VZF(A) II 50
<b>Nominal diameter</b>	<b>DN</b>	<b>mm</b>	<b>15</b>	<b>20</b>	<b>25</b>	<b>40</b>	<b>50</b>
		<b>inch</b>	1/2	3/4	1	1 1/2	2
Installation length		mm	165	165	190	300	350
Nominal pressure with threaded ends with flanges	PN	bar	16	16	16	16	16
		bar	25	25	25	25	25
Maximum temperature	T <sub>max</sub>	°C	130, 180				
Maximum flow rate	Q <sub>max</sub> <sup>1)</sup>	l/h	600	1500	3 000	9 000	30 000
<b>Continuous flow rate</b>	<b>Q<sub>cont</sub><sup>1)</sup></b>	<b>l/h</b>	<b>400</b>	<b>1000</b>	<b>2 000</b>	<b>6 000</b>	<b>20 000</b>
Minimal flow rate	Q <sub>min</sub>	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%				
Safety filter mesh size		mm	0.400	0.400	0.400	0.800	0.800
<b>Dirt filter 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>
Volume of measuring chamber		approx. cm <sup>3</sup>	12	36	100	330	1200
Housing finish			enameled red RAL 3013				
Weight with threaded ends <sup>2)</sup> with flanges PN 25		approx. kg	2.2	2.5	4.2	17.3	–
		approx. kg	3.8	4.5	7.5	20.3	41.0
Smallest readable amount:							
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 at Q <sub>cont</sub> (m <sup>3</sup> ) until overrun			>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		Q <sub>min</sub> , Q <sub>max</sub>	minimum, maximum and hysteresis parameterized				
State switch		Alarm, Error	state and on/off parameterized				

1) For burners and engines or motors, the meter must be selected on the basis of the continuous flow rate.

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.

2) Weight without couplings.

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