

## ISTEC OIL METERS

- Measurement of Oil Consumption
- Measurement of Fuel Consumption



### Features

- Complete range of products offering the best solutions for the measurement of oil consumption
- State-of-the-art design with electronic counter, flow indication, analogue and digital output signals and limiting value switch
- Mounting on the pressure or suction side of a pump, with no straight inlets or outlets required
- Independent of viscosity and temperature
- High vibration resistance
- Classical version with mechanical display

### Your benefits

- The reliable solution with everything from a single supplier
- Reliable monitoring and flexible control of the system. Simplifies burner settings and optimising consumption
- Highly flexible mounting with very small space requirements
- Accurate measurements
- Maximum safety in the shipbuilding and automobile industries
- Cost-effective metering point

# 1 9204 (9205) and 9208 (9209)

## Specification Sheet 1)

Type designation		9204 USG	9208 USG
Nominal diameter	mm	4	8
	Inch	1/8	3/8
Connection threads of the meter	Inch G-I	1/8"	1/4"
Maximum temperature	°F	<b>140</b>	<b>140</b>
	°C	60	60
Nominal pressure	<b>PSI</b>	<b>355</b>	<b>355</b>
	bar	25	25
Maximum flow rate      Qmax    2)	<b>gph</b>	<b>20</b>	<b>50</b>
	l/h	80	200
<b>Nominal flow rate      Qcont    2)</b>	<b>gph</b>	<b>14</b>	<b>35</b>
	l/h	50	135
Minimum flow rate      Qmin    3)	<b>gph</b>	<b>1/4</b>	<b>1</b>
	l/h	1	4
Approx. starting flow rate	gph	0,1	0,4
	l/h	0.4	1.6
Smallest readable amount	USG	0.001	0.01
Registration capacity	USG	100000	1000000
Registration at Qn before return to zero	approx. h	7140	28570
Safety filter mesh width	Inch	0.0049	0.0059
	mm	0.125	0.150
Max. mesh width for dirt trap/strainer	Inch	0.0031	0.0040
	mm	0.080	0.100
Weight without couplings	approx. lbs	1.44	1.66
	approx. kg	0.65	0.75
Reed Pulsers RE 10 ppg		9205	9209

- 1) Manufacturer's figures
- 2) Meters for burners and engines have to be selected according to the nominal flow rate.  
On two-stage burners the meter can be run at Qmax at stage 2.
- 3) Accuracy limits 1/4 ... 1/2 gph (1 ... 2 l/h) = +1/-2 %

Note:

- All flow rates are indicated in gallons per hour (gph = gallons per hour)
- The pulse values are indicated in number of pulses per gallon (ppg = pulses per gallon)
- 1 Gallon equals 3.785 litres

Specification Sheet

Classic type meter		9215	9220	9225	9240	9250	
Pulse output meter		9216	9221	9226	9241	9251	
Electronic type meter 1)		9218	9223	9228	9242	9252	
Nominal diameter	DN	mm	15	20	25	40	50
		Inch	1/2	3/4	1	1 1/2	2
Connection threads of the meter		Inch G	3/4	1	1 1/4	2	--
Maximum temperature		°F	266				
		°C	130				
Nominal pressure with threaded ends		PSI	225			--	
		bar	16				
Nominal pressure with flanges 2)		PSI	150				
		bar	10				
Maximum flow rate	Qmax 3)	gph	160	400	800	2400	8000
		l/h	600	1500	3000	9000	30000
Nominal flow rate	Qcont 3)	gph	105	265	530	1600	5300
		l/h	400	1000	2000	6000	20000
Minimum flow rate	Qmin	gph	4	8	20	60	200
		l/h	15	30	75	225	750
Approx. starting flow rate		gph	1	3	8	24	80
Smallest readable amount		USG	0.01	0.01	0.01	0.1	0.1
Registration capacity		USG	999999	999999	999999	9999999	9999999
Registration at Qcont before return to zero		≈ h	9520	3770	1880	6250	1880
Safety filter mesh width		Inch	0.0157	0.0157	0.0157	0.0315	0.0315
		mm	0.400	0.400	0.400	0.800	0.800
Max. mesh width for dirt trap/strainer		Inch	0.0098	0.0157	0.0157	0.0236	0.0236
		mm	0.250	0.400	0.400	0.600	0.600
Weight	with threaded ends, without couplings	≈ lbs	4.9	5.5	9.3	38.2	--
		≈ kg	2.2	2.5	4.2	17.3	
Weight	with flanges ANSI 150	≈ lbs	8.4	9.9	16.5	44.7	90.2
		≈ kg	3.8	4.5	7.5	20.3	41

Reed Pulsar RV for VZO						
RV	10 ppg		X	X		
	1 ppg				X	
	0.1 ppg					X

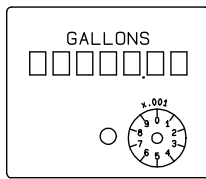
- 1) The electronic type VZF can be set to indicate volume in US Gallons, litres or cubic metres.  
Outputs can be set to volume pulses (10 ...0.01ppg), analog flow rate (4...20mA, 0...100Hz) or min./max. limit switch.
- 2) The nominal pressure of the meter is 355 PSI / 25 bar. The limitation to 150 PSI is caused by the flange drillings.  
Flange drillings for higher pressure on request.
- 3) Meters for burners and engines have to be selected according to the nominal flow rate.  
On two-stage burners the meter can be run at Qmax at stage 2.

The meters with threaded ends include two cap nuts which may be combined to a coupling by using locally purchased tail pieces.

- Note:**
- All flow rates are indicated in gallons per hour (gph = gallons per hour)
  - The pulse values are indicated in number of pulses per gallon (ppg = pulses per gallon)
  - 1 Gallon equals 3.785 litres

### 3 Dials

9204, 9208



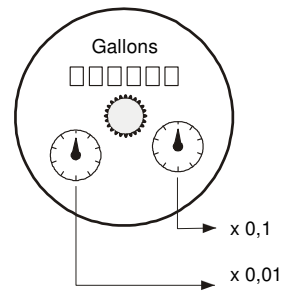
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9218 ... 9252



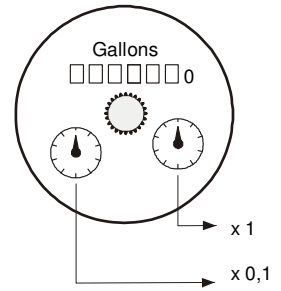
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9215, 9220, 9225



66017A

9240 9250



66017B

### 4 Ordering information

PRODUCT NUMBER	DESCRIPTION
<b>OIL METERS WITH MECHANICAL COUNTER</b>	
9204	1/8" Oil Meter - NPT
9208	1/4" Oil Meter - NPT
9215	1/2" Oil Meter - NPT
9220	3/4" Oil Meter - NPT
9225	1" Oil Meter - NPT
9240	1-1/2" Oil Meter - NPT
9250	2" Oil Meter - Flanged

<b>OIL METERS WITH LCD DISPLAY &amp; OUTPUTS</b>	
9205	1/8" - NPT, Mechanical Counter, Dry Contact Pulse (10PPG)
9209	1/4" - NPT, Mechanical Counter, Dry Contact Pulse (10PPG)
9216	1/2" - NPT, Mechanical Counter, Dry Contact Pulse (10PPG)
9218	1/2" - NPT, LCD, Analog & Digital Output
9221	3/4" - NPT, Mechanical Counter, Dry Contact Pulse (10PPG)
9223	3/4" - NPT, LCD, Analog & Digital Output
9226	1" - NPT, Mechanical Counter, Dry Contact Pulse (1PPG)
9228	1" - NPT, LCD, Analog & Digital Output
9241	1-1/2" - NPT, Mechanical Counter, Dry Contact Pulse (0.1PPG)
9242	1-1/2" - NPT, LCD, Analog & Digital Output
9251	2" - Flanged, Mechanical Counter, Dry Contact Pulse (0.1PPG)
9252	2" - Flanged, LCD, Analog & Digital Output

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