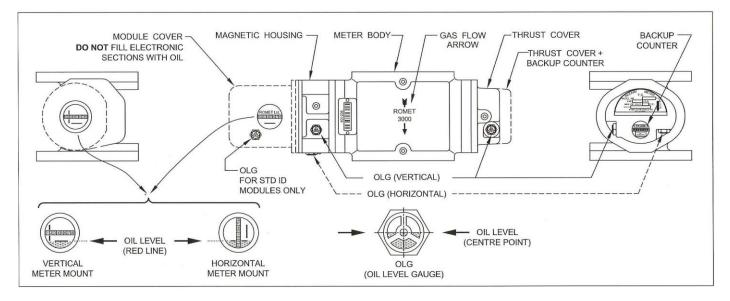
## **Installation Instructions for Line Mounted Romet Meters**

RM600-RM56000

This bulletin covers the general installation of all Romet Rotary Meters

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Caution:	Installation Instructions:					
•Rough handling of the meter must be avoided to prevent	•A quick check of the rotary meter should be performed					
damage. A Romet rotary meter is a precise gas volume	before installation. First remove the capping from each end of					
measuring instrument manufactured to very tight tolerances.	the meter openings. Blow air lightly into the meter inlet					
	(making sure the meter outlet is not obstructed) The meter					
•Always transports the meter capped at both ends and without	impellers should rotate freely and eventually come to a					
oil in order to prevent damage, dirt or oil contamination of the	gradual stop. Should the impellers stop suddenly or not rotate					
meter.	at all, it will be necessary to carefully remove any obstruction					
	before installation. If this is not possible the meter should be					
•Always add oil after the meter has been correctly installed.	returned to the service shop for further examination.					
Installation Considerations:	•Mount the meter in correct orientation. Ensure that gas will					
•The piping and flange position of the meter set should be	be flowing in the direction of the arrow on meter pressure					
such that there is adequate area spacing between the meter	body (see diagram 1). Meters should be installed using					
and any pipe, wall or other obstruction. This spacing will	hardware sizes listed in diagram 2. The use of incorrect					
allow for the addition or removal of devices, such as, a meter	hardware may result in meter error or failure. All bolts should					
module, batteries or any other auxiliary instrument (eg.	be tightened in an X pattern, in stages, up to a typical torque					
ROMET AdEC <sup>TM</sup> )	value of 20 ft lbs. Some Romet meters are supplied with					
~ - /	nippled connections at the inlet and outlet. These meters are					
•Furthermore all full faced pipe flanges installed (raised	built and tested with the connecting nipples in place. Care					
flanges are not recommended) must be level and spaced so	must be taken to avoid further tightening or loosening of thee					
that the meter together with the top and bottom gaskets can be	nipples to prevent meter damage.					
positioned between the flanges easily with the least amount of						
air gap (maximum 1/16" per linear foot of flange) before	•After the meter has been installed, approved meter oil must					
tightening. If the meter is not level, it is possible to	be added to all appropriate oil reservoirs to prevent meter					
improperly fill the oil reserves or over-stress the meter after	damage. Depending on the meter type and mounting position					
tightening the flange bolts. This condition may cause the	(vertical or horizontal) the required oil volumes will be					
meter to read incorrectly or result in complete meter failure.	different. Do not over or under-fill oil reservoirs. For the					
	thrust cover end and all the magnetic housing (not on all					
•Care must also be taken to ensure that the piping and flanges	meter types) oil must be added so that the oil reaches the					
are aligned correctly in relation to the meter (maximum 1/16"	center of the correct oil level gauge (OLG) in use. For the					
in all directions). DO NOT use the meter to correct	module cover, the oil must reach the appropriate Red oil level					
misaligned piping or flanges. Excessive misalignment or	line. DO NOT FILL ELECTRONIC SECTIONS WITH OIL.					
distance between piping or flanges may overstress the meter	Note: After meter start up, some oil levels may drop a little or					
body when the flange bolts are tightened. Severe over-stress	form a thing bubble layer due to oil splash. Do not mix oil					
may cause the meter to read incorrectly or result in complete	types.					
meter failure. The use of a spool piece to help level and align						
the pipe flanges with the meter can be helpful.	•Ensure all oil plugs (and other connections) are properly					
	tightened and secured before pressurizing the meter set.					
•A meter bypass is recommended to facilitate any future						
maintenance or calibration considerations.	•When the meter installation has been completed the meter set					
	should be pressurized SLOWLY (maximum 5 psi per second)					
•To protect the meter (and any other critical component) from	up to allowable pressure. This will help avoid over-speed or					
internal damage, the meter set must be free of foreign	slamming of the meter. Should the installation be subject to					
materials (weld beads, rust scale, grease, etc) The use of a	sudden "Instant On-Off" loads, a properly sized restricting					
filter upstream of the meter is strongly recommended.	orifice or venture flow nozzle should be installed					
Typical filters include the IMAC Gasket Strainer or flanged	Check for one gog looks on other results much over					
and threaded 'T' Strainers.	•Check for any gas leaks or other possible problems.					
	After start up, the readout counter or drive should be running smoothly and in the correct direction when the required gas					
	flow rate has been reached.					
	now rate has been reached.					

•Pete's Plugs may be installed to facilitate future oil changes while meter is pressurized. Other optional accessories & services are available such as strainers, gaskets, valves Teflon tape, flange kits, meter flow reverse, meter repair, and more.



## Oil Table:

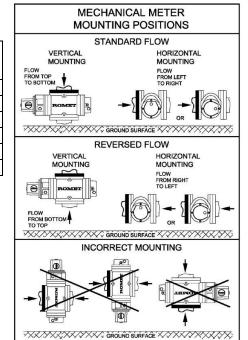
Standard Counter & Instrument Drive								
	RM600-RM1500		RM2000-RM5000		RM7000-RM23000		RM25000-RM56000	
	Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical
Counter Module	6.3 oz.	6.3 oz.	6.3 oz.	6.3 oz.	6.3 oz.	6.3 oz.	6.3 oz.	6.3 oz.
Magnet Housing	1.8 oz.	1.8 oz.	2.3 oz.	3.5 oz.	3.5 oz.	11.6 oz.	10.5 oz.	32.4 oz.
Thrust End	0.9 oz.	2.1 oz.	0.9 oz.	2.5 oz.	1.4 oz.	8.8 oz.	10.5 oz.	38.2 oz.
Temperature Compensated & Temperature Compensated Instrument Drive								
	Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical
Counter Module	n/a	n/a	5.6 oz.	8.8 oz.	8.4 oz.	20.8 oz.	n/a	n/a
Magnet Housing	n/a	n/a	2.3 oz.	3.5 oz.	3.5 oz.	11.6 oz.	n/a	n/a
Thrust End	n/a	n/a	0.9 oz.	2.5 oz.	1.4 oz.	8.8 oz.	n/a	n/a

\*ECM2 Series and AdEM Series modules being electronic do not require oil.

## **Hardware Specification Table:**

Meter Model	Flange/Gasket (Full-Face)	Bolts and washers (Steel, Zinc Plated or PTFE Coated)
RM600-RM1500	1.5" NPT Threaded	N/A
RM1000-RM1500	ANSI 125/150 2"	5/8" – 11 x 1.5" long Hex Head SAE Grade 5
RM2000-RM3000	ANSI 125/150 2"	5/8" – 11 x 1.75" long Hex Head SAE Grade 5
RM5000-RM7000	ANSI 125/150 3"	5/8" – 11 x 1.75" long Hex Head SAE Grade 5
RM11000-RM23000	ANSI 125/150 4"	5/8" – 11 x 1.75" long Hex Head SAE Grade 5
RM25000-RM56000	ANSI 125/150 6"	3/4" – 10 x 2.5" long Hex Head SAE Grade 5

\*All bolts should be installed with approved anti-seize grease and standard steel zinc plate flat washers.



\*To install in meter in a reversed flow configuration, flow configuration must be switched by factory\*