

Meters and accessories for Biodiesel, Ethanol & Methanol

Application Brochure TCS900-500

© Copyright 2009 Total Control Systems



**TOTAL
CONTROL
SYSTEMS**

"The Standard of Measurement"

MADE IN AMERICA

www.tcsmeters.com

700 Series Rotary Meters for Alternative Fuels

The 700 Series Rotary Positive Displacement Flow Meters in Types SP, SPA, and SPD are ideal for metering alternative fuels including Biodiesel, ethanol, and methanol. Meters reflect a tri-rotor design with no metal-to-metal contact between rotors and housing to minimize internal wear, maintain high accuracy over time, and to extend the time between meter calibrations. Meters are ideal for tank truck applications, as well as for metering into/out of storage, and for skid-mounted metering systems.



Accessories

The 700 Series meters are available with a full complement of accessories including air eliminators, strainers, and valves, as well as mechanical and electronic registers with temperature volume compensation (TVC), and printers from industry leading suppliers. Electronic encoders are available that mount directly to the meter for generating a pulse output to drive a local or remote register.

Testing and Approvals

Meters are Weights & Measures approved for custody transfer (NIST, OIML, NMI, and SABS), and are flow-tested for accuracy before leaving the factory. A test report is supplied with every meter.

700 Series Meter Specifications

Meter Model No.	Flange Size NPT **	Max. Capacity		Working Pressure		Working Temperature	
		gpm	lpm	psi	bar	°F	°C
700-15	1-1/2"	60	227	150	10.5	-40 to 160	-40 to 71
700-20	2"	100	380	150	10.5	-40 to 160	-40 to 71
700-25	2"	150	567	150	10.5	-40 to 160	-40 to 71
700-30	3"	200	760	150	10.5	-40 to 160	-40 to 71
700-35	3"	300	1135	150	10.5	-40 to 160	-40 to 71
700-40	4"	500	1893	150	10.5	-40 to 160	-40 to 71
700-45	4"	600	2271	150	10.5	-40 to 160	-40 to 71

+ NPT flange is standard. BSPT, Slip Weld, ANSI and others available on request.

* Optional flange sizes available upon request.



...Series 700 Rotary Meter with pulse output device for electronic registration

...Series 700 Rotary Meter for biodiesel

700 Series Meter Selection for Alternative Fuels

Fuel Type	Applica-tion	Meter Type	Meter Housing	Meter Internals	Seal Materials *
Biodiesel B2-B100	Vehicle/ Storage	700-SP/ SPA	Anodized Aluminum	Ni-Resist & S.S	Viton F
Ethanol E10	Vehicle	700-SP/ SPA	Anodized Aluminum	Ni-Resist & S.S	Viton F
	Storage	700-SPD	Ductile Iron	Ni-Resist & S.S	Teflon/ Simriz
Ethanol E10-E100	Vehicle	700-SPA	Anodized Aluminum	Ni-Resist & S.S	Viton F
	Storage	700-SPD	Ductile Iron	Ni-Resist & S.S	Teflon/ Simriz
Methanol M10-M85	Vehicle	700-SPA	Anodized Aluminum	Ni-Resist & S.S	Viton F
	Storage	700-SPD	Ductile Iron	Ni-Resist & S.S	Teflon/ Simriz



* Viton is a registered trademark of E.I. DuPont de Nemours & Co. Teflon is a registered trademark of DuPont Dow Elastomers, LLC. Simriz is a registered trademark of Freudenberg-NOK.