

Meters and accessories for LPG

Application Brochure TCS900-200

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TOTAL
CONTROL
SYSTEMS



Listing No: MH45225



“The Standard of Measurement”

MADE IN AMERICA

About Us

Total Control Systems is a leading manufacturer of piston and rotary positive displacement flow meters located in Fort Wayne, Indiana. All meters are designed with the highest quality to provide superior performance in custody-transfer measurement of refined fuels, LPG, fertilizers, chemicals, alcohols, and solvents. Marketed to provide application-driven flow meter solutions for vehicles, dispensers, and fixed-site installations, we provide a full line of accessory equipment including strainers, air and vapor eliminators, control valves, pulse transmitters, and mechanical or electronic registration to complete system requirements. Meters are designed and created using sound engineering principles and state-of-the-art computer numerically controlled (CNC) machines in a world-class manufacturing facility. Each flow meter is completely assembled and tested by highly skilled members of our production team, who strive for excellence in workmanship and quality. Our reputation for providing innovative, high-quality, and reliable fluid measurement products is coupled with our sense of customer-driven services. Our first priority is to help our customers achieve increased productivity and provide value to your business today and tomorrow.

APPLICATIONS

Bobtails

Bulk Plants

Terminals

FEATURES

Sustained high accuracy

Long service life, low maintenance

Low pressure drop

Light-weight design

CONSTRUCTION

Housing and rotors:
anodized aluminum

Bearing plate and bearings:
Ni-Resist II (bearing plate)
Antimony carbon graphite (bearing)

Gears:
Stainless steel

Seals:
UL recognized Buna-N

ACCURACY ¹

10:1 = +/- 0.15%

REPEATABILITY ¹

0.02% of rated flow

(1) Accuracy tested at constant operating conditions with 700 Series meter and mechanical registration using 1CPS test fluid.

700 Series Rotary Flow Meters for LPG

The 700-LP Rotary Positive Displacement Flow Meter for liquefied petroleum gas (LPG) is available in a 2" meter size with flow rates up to 100 gpm. Meters reflect a tri-rotor design with no metal-to-metal contact between rotors and housing that minimizes internal wear, maintains high accuracy over time, and extends the time between meter calibrations.

Accessories

700 Series rotary meters are available with accessory equipment including vapor eliminators, strainers, and differential valves. Other accessories include mechanical and electronic registers with temperature volume compensation (TVC), and printers from industry leading suppliers.

Testing and Approvals

Meters are Weights & Measures approved for custody transfer (NIST Handbook 44), and are flow-tested for accuracy before leaving the factory. Meters are Underwriter's Laboratory listed (UL Listing No. MH45225). Other international approvals pending.

Meter Model No.	Flange Size NPT ⁺	Max. Capacity [#]		Working Pressure		Working Temperature	
		gpm	lpm	psi	bar	°F	°C
700-20-LP	2" *	100	380	350	24	-40 to 160	-40 to 71

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

* Optional 1-1/2" flange available upon request.

Minimum flow rate is 20 gpm.



Mechanical register is pictured.

Also available with Mid:Com and Veeder-Root electronic registers.

