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Smith Meter® Genesis™ Series Positive Displacement Meters

FMC Technologies

We put you first.
And keep you ahead.

REVOLUTIONARY POSITIVE DISPLACEMENT DESIGN TECHNOLOGY

FMC Technologies Smith Meter Positive Displacement Meters have long been the industry standard for unsurpassed reliability and superior custody transfer accuracy. Relying on over 80 years of experience in custody transfer petroleum measurement, FMC Technologies has revolutionized the industry with the cutting edge design of the new Smith Meter Genesis Series line of PD meters for refined products and biofuels.

The Smith Meter Genesis Series PD Meters unique patent pending integrated electronics with direct pulse output offers longevity and application versatility for economical measurement.

The Smith Meter Genesis Series is the future in positive displacement meter technology. FMC Technologies continues to set the standard for custody transfer measurement for today and tomorrow.

Genesis Single Case Meters

- Revolutionary design
- Electronic output
- Improved linearity and performance

Model	Size Inches (mm)	Maximum Flow Rate GPM (L/min)
GSC2	2 (50)	150 (570)
GSC3	3 (75)	500 (1,900)

UNIQUE BENEFITS

The Smith Meter Genesis Series is compact, lightweight, versatile, and is ideal for refined products blending.

Wide Flow Range[1]	Linear performance up to a 50:1 flow turndown makes the Genesis Series ideal for terminal blending and low flow applications.
Improved Performance	Every meter is factory optimized which allows a "master meter" performance as standard.
Reliability	Reduction in mechanical parts from traditional meters by over 40% and all gear trains are eliminated. By design the Genesis meters offer a significantly higher capability to pass product contaminates than other PD designs.
Integrity	This robust meter provides the highest measurement stability through the combination of less wear and significantly better accuracy increasing the integrity of your measurement data.
Integrated Electronics	The meter's electronics are mounted directly into the meter for direct dual pulse output.
Low Cost of Ownership	Horizontal shaft design with ceramic hybrid ball bearings and (PEEK™) polyetheretherketone wear strips significantly reduce wear on the blade tip. The elimination of the gear train allows for low maintenance, less wearable components, and reduced downtime.
Environmentally Friendly	Risk-reduced design prevents Volatile Organic Compounds (VOC) from leaking into the environment.
Easy Integration	Vertical and horizontal installation possibilities.

1 Refer to Specification Bulletin Number SS01060 for flow turndown, viscosity applications, and maximum pressure.

Genesis Series Options

PROGRAMMABLE PULSE OUTPUT (OUTPUT RESOLUTION)

Pulses per unit of registration (K factor) are factory programmed. A wide variety of pulse resolution factors can be selected.

FLUID VISCOSITY RANGE

The meter is programmed to the customer's viscosity range, therefore, optimizing the meter output for improved accuracy directly from the factory.

FLOW RANGE

Each meter is factory flow tested. The standard flow turndown is 15:1 and optionally 50:1 from 0.7 to 20 cSt. For applications outside of this range see specification bulletin number SS01060.

UNITS OF REGISTRATION

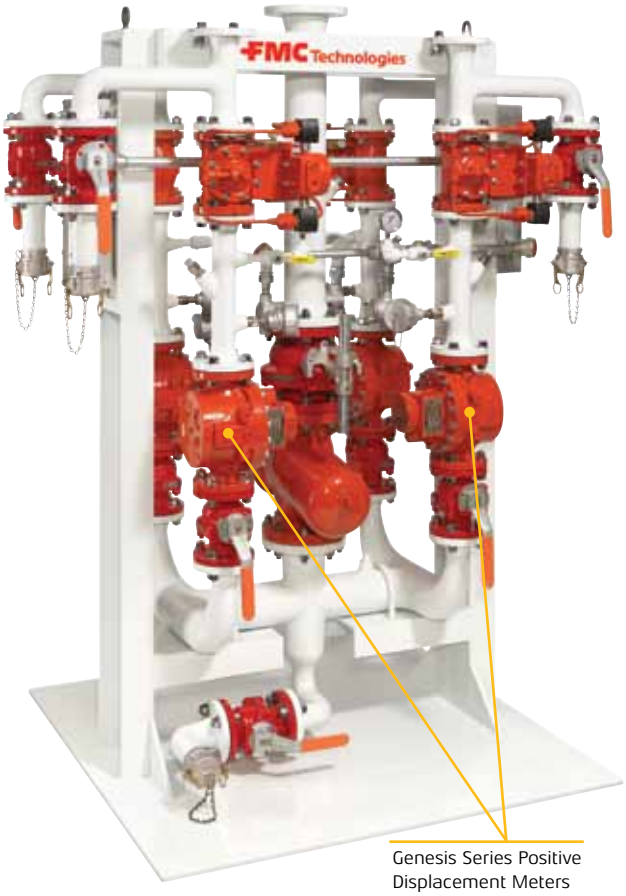
Several volumetric measurement units are available including liter, deka liter, barrel, or gallon.

END CONNECTION TYPE[1]

Steel Meters – DIN flanges up to PN25 and ANSI flanges up to class 300.

INTEGRATED TEMPERATURE WELLS (OPTIONAL)

When the optional temperature probe is selected, the meter is equipped with a PT100/RTD and a W&M temperature calibration well for lower installation and maintenance costs.



FMC Technologies integrated biofuels blending skids, shown above includes Smith Meter Genesis Series Meters.

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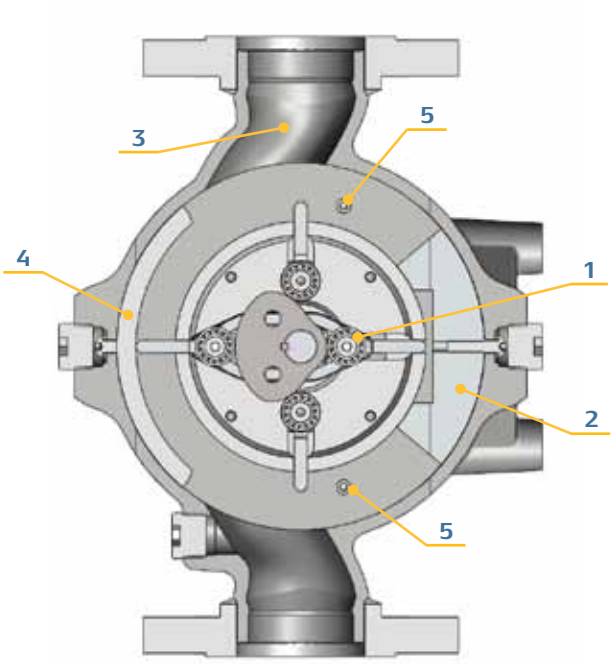

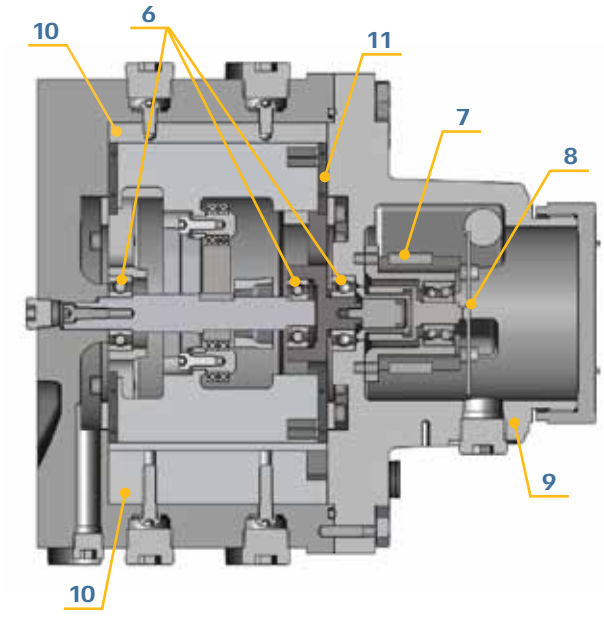

UNIQUE FEATURES	
1	Ceramic hybrid dual ball bearing blade rollers
2	Cast channels in the meter block ensures proper draining
3	Smooth transition to direct flow around rotor with minimal pressure drop
4	Stainless steel clearance adjustors between the housing and measuring chamber and/or block control the blade tip tolerance. The block and measuring chamber are replaceable
5	Temperature wells for integrated PT100/RTD and W&M temperature probes making the proving and installation process easy (optional)
6	Ceramic hybrid bearings are utilized to handle both radial and thrust loads and ensure that contaminants will not build up
7	Contact-free coupling eliminates packing gland, linkage, and gears as well as eliminates VOC gases
8	Hall-effect sensor increases accuracy in measuring rotational position and reduces mechanical drag
9	The pulse transmitter is integrated into the electronics housing thus reducing part count and cost
10	Stainless steel clearance adjustors and spring washers are used throughout the meter assembly to reduce hand fitted parts and provide simple serviceability
11	PEEK™ wear strips reduce wear on the blade tip ensuring longer service life

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