

MV Series Turbine Meter

Choice of Design

Whatever the application, the Smith Meter MV Series ensures the most accurate results available from a turbine meter. With different options to choose from, performance can be optimized from low viscosity condensate to high viscosity crude oil.

Extended Measurement and Proving Capability

With Smith's UPC Compensator, the MV Series can achieve accurate measurement over a broad viscosity range. The greatest flow range available and the ability to prove with standard electronics further enhance the performance of the MV Series — *features available exclusively from Smith.*

Long Service Life

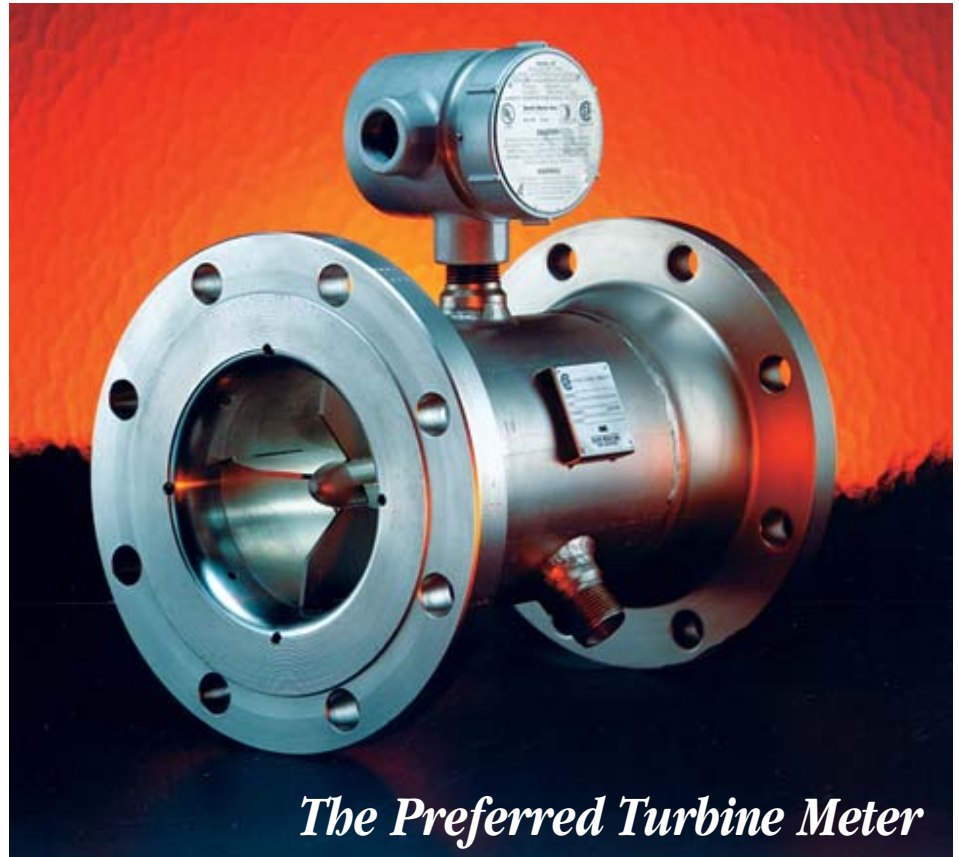
The MV Series utilizes the same tough Smith bearing system that has been proven in over 30 years of service for reliability and accuracy.

Lowest Pressure Drop

When used with the Smith Meter High Performance Flow Conditioner, created specifically for MV Series turbine meters, pressure drop is significantly reduced. The resulting increase in operating efficiency reduces energy use and operating costs.

Highly Versatile

The unique rotor design of the MV Series turbine meter minimizes the effects of wax and other deposits,



*The Preferred Turbine Meter
for Crude Oil Service*

making it the choice turbine meter for difficult applications.

No Other Turbine Meter Comes Close

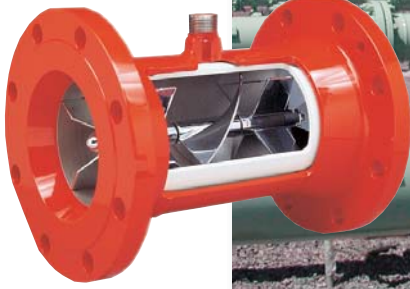
All helical blade turbine meters are not created equal — the Smith Meter MV Series turbine meter is a cut above. From the only supplier with over 70 years experience in custody transfer measurement — FMC Measurement Solutions, *The Most Trusted Name in Measurement.*

Crude Oil Applications

- Pipeline Terminals
- LACT Skids
- Marine Terminal Loading/Offloading
- Floating Storage and Offloading Vessels (FSOs and FPSOs)
- Line Balance
- Inventory Control

All Helical Blade Turbine Meters Are NOT Created Equal

MV Series



Smith 6" MV Series Turbine Meters installed at a pipeline terminal facility.

Operating Specifications

Linearity

±0.15% linearity over normal flow range.

Repeatability

±0.02% over normal flow range.

Standard Meter Maximum Viscosity

Size	Maximum Viscosity (cSt)
3"	30
4"	40
6"	60
8"	80
10"	100
12"	120
16"	160

Note: The viscosity range depends on the Flow range. Refer to MV Series Turbine Meter Application Guide AB02008 for details.

Special Meter Viscosity Range

Meters may be tuned to meet operating conditions outside the standard meter viscosity range or configured with a Universal Performance Curve Compensator (UPCC). Refer to MV Series Turbine Meter Application Guide AB02008 for details.

When you need...

- Long service life
- Extended measurement and proving capability
- Low pressure drop
- Choice of design

**You need the Smith Meter
MV Series Turbine Meter – no other turbine meter comes close**

Flow Range

Meter Size	Units	Linear Flow Range		Flange to Flange
		Minimum	Maximum	
3"	BPH	90	900	10.0"
	m ³ /h	14	140	254 mm
4"	BPH	190	1,900	12.0"
	m ³ /h	30	300	305 mm
6"	BPH	400	4,000	14.0"
	m ³ /h	64	640	356 mm
8"	BPH	750	7,500	16.0"
	m ³ /h	119	1,190	406 mm
10"	BPH	1,250	12,500	20.0"
	m ³ /h	199	1,990	508 mm
12"	BPH	1,900	19,000	24.0"
	m ³ /h	302	3,020	610 mm
16"	BPH	2,700	27,000	32.0"
	m ³ /h	429	4,290	813 mm

From the world's leading supplier of measurement solutions

- Over 70 years experience
- Unsurpassed in-house petroleum testing capacity to 42,000 BPH (6,700 m³/h)
- The industry's most extensive worldwide sales, service, manufacturing and distribution network

Headquarters:

1803 Gears Road, Houston, TX 77067 USA, Phone: 281/260-2190, Fax: 281/260-2191

Gas Measurement Products:

Houston, TX USA Phone 281/260-2190

Thetford, England Phone (44) 1842-82-2900

Kongsberg, Norway Phone (47) 32/286-700

Buenos Aires, Argentina Phone 54 (11) 4312-4736

Integrated Measurement Systems:

Corpus Christi, TX USA Phone 361/289-3400

Kongsberg, Norway Phone (47) 32/286-700

San Juan, Puerto Rico Phone 787/274-3760

United Arab Emirates, Dubai Phone 971 +4/331-3646

Liquid Measurement Products:

Erie, PA USA Phone 814/898-5000

Los Angeles, CA USA Phone 661/702-8660

Slough, England Phone (44) 1753-57-1515

Ellerbek, Germany Phone (49) 4101-3040

Barcelona, Spain Phone (34) 93/201-0989

Moscow, Russia Phone (7) 095/564-8705

Melbourne, Australia Phone (61) 3/9807-2818

Beijing, China Phone (86) 10/6500-2251

Singapore Phone (65) 6861-3011

Chennai, India Phone (91) 44/450-4400

Visit our website at www.fmcmeasurementsolutions.com