Flowmeter Selection Guide — LIQUID APPLICATIONS

PRODUCT FAMILY	Technology	Product Series	Clean	Dirty[1]	Corrosive	Viscous	Slurries	Cyrogenic	Non-Electrically Conductive[2]	Mass Flow Metering	Thermal Energy Metering (BTU)[3]	Bidirectional Flow Metering	Non-disruptive Installation[4]
Pro-V® • Multivariable Vortex • Inline and Insertion models • Compensated mass flow • Rugged design, no moving parts • Thermal energy (BTU) metering	Inline Vortex	M22	✓	✓	(i)	(i)	(i)	✓	✓	✓	✓	✗	✗
	Insertion Vortex	M23	✓	✓	(i)	(i)	(i)	✓	✓	✓	✓	✗	✓ (Hot Tap Model)
	Inline Vortex	M24	✓	✓	(i)	(i)	(i)	✓	✓	✓	✓	✗	✗
Turbo Pro® • Multivariable insertion turbine • Low flow metering	Insertion Turbine	Pro-T	✓	✓	(i)	(i)	(i)	(i)	✓	✓	✓	✗	✓ (Hot Tap Model)
VorCone® • Measures fluid density, volumetric flow rate, and mass flow rate	Hybrid Vortex & Cone DP	MVC	✓	✓	(i)	(i)	(i)	(i)	✓	✓	✓	✗	✗
SonoPro® • Transit-time ultrasonic • Insertion and clamp-on transducer options • Non-invasive installation on clamp-on models • Fixed mount & portable models • No wetted or moving parts on clamp-on models • Bi-directional flow measurement • No pressure drop with clamp-on models • Thermal energy (BTU) metering	Fixed Mount Ultrasonic	U43	✓ (Water Only)	✓ (Water Only)	✓ (Water Only)	✗	✗	✗	✓	✗	✓ (Water Only)	✓	✓
	Fixed Mount Ultrasonic	U42	✓	✓	✓	(i)	✗	✗	✓	✗	✓	✓	✓
	Fixed Mount Ultrasonic	S36	✓	✓	✓	(i)	✗	✗	✓	✓	✓	✓	✓
	Portable Ultrasonic	U44	✓	✓	✓	(i)	✗	✗	✓	✗	✓	✓	✓
	Portable Ultrasonic	S34	✓	✓	✓	(i)	✗	✗	✓	✓	✓	✓	✓
Pro-M™ • Volumetric flow metering of conductive liquids • Rugged design, no moving parts	Electromagnetic	Pro-M	✓	✓	(i)	✓	✓	✗	✗	✗	✓	✓	✗

LEGEND ✓ Suitable   ✗ Not Suitable   (i) Application Dependent (Consult Factory)

[1] Small amounts of particulate. [2] Electrical conductivity of less than 20 µs/cm. [3] Only applicable for water & thermal oils. [4] Process shutdown not required for installation.

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Flowmeter Selection Guide STEAM & GAS APPLICATIONS

PRODUCT FAMILY	Technology	Product Series	Clean	Dirty [1]	Mass Flow Metering	Thermal Energy Metering (BTU) [2]	Saturated Steam	Super Heated Steam	Wet Steam Metering & Steam Quality Measurement [3]	Wet Gas Metering & Liquid Loading Measurement [4]	Expanded Low-Flow Measuring Range	Non-disruptive Installation [5]
Pro-V® • Multivariable Vortex • Inline and Insertion models • Compensated mass flow • Rugged design, no moving parts • Thermal energy (BTU) metering	Inline Vortex	M22	✔	✔	✔	✔	✔	✔	✘	✘	✘	✘
	Insertion Vortex	M23	✔	✔	✔	✔	✔	✔	✘	✘	✘	✔ (Hot Tap Model)
	Inline Vortex	M24	✔	✔	✔	✔	✔	✔	✘	✘	✔ (Reduced Bore Model)	✘
Turbo Pro® • Multivariable insertion turbine • Low flow metering	Insertion Turbine	Pro-T	✔	✔	✔	✔	✔	✔	✘	✘	✔	✔ (Hot Tap Model)
VorCone® • Wet steam metering & steam quality measurement • Wet gas metering & liquid loading measurement	Hybrid Vortex & Cone DP	MVC	✔	✔	✔	✔	✔	✔	✔	ⓘ	✔ (Reduced Bore Model)	✘

LEGEND ✔ Suitable   ✘ Not Suitable   ⓘ Application Dependent (Consult Factory)

[1] Small amounts of moisture/particulate.
[2] Only applicable for steam.
[3] Steam/condensate mixture. Steam quality measurement also know as dryness fraction.
[4] Gas/liquid mixture.
[5] Process shutdown not required for installation.

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