

Table 13.2 Broad areas of application of the common types of meter

Meter type	Application												
	1	2	3	4	5	6	7	8	9	10	11	12	13
Orifice	+	?	+	+	+	+	+	+	+	?	+	+	+
Nozzle	+	+	+	+	+	+	+	+	+	+	?	?	+
Rotameter (VA)	+	+	+	?	?	?	+	+	+	+	+	+	+
Annubar	+	+	+	+	+	?	+	+	+	+	+	+	+
Target	+	+	?	?	?	?	+	+	+	+	+	+	+
Vane PD	+	?	?	?	?	?	+	+	+	+	+	+	+
Piston meter	+	?	?	?	?	?	+	+	+	+	+	+	+
Rotary gas PD	+	+	+	?	?	?	+	+	+	+	?	?	?
Turbine meter	+	+	+	?	?	?	+	+	+	+	?	?	?
Insertion meter	+	+	+	+	+	+	+	+	+	+	?	?	?
Pellon wheel	+	+	+	+	+	+	+	+	?	?	?	?	?
Vortex meter	+	+	+	+	+	+	+	+	+	+	+	+	+
Electromagnetic	+	+	+	+	?	?	+	+	+	+	+	+	+
Doppler	+	?	?	?	?	?	?	?	?	?	?	?	?
Transit time	+	?	+	+	?	?	?	+	?	?	?	?	?
Coriolis mass	+	+	+	+	?	?	+	+	?	?	?	?	?
Thermal mass	+	?	?	?	?	?	+	+	+	+	+	+	+
Hot film anemometer	+	+	?	?	?	?	+	+	+	+	+	+	+
Laser anemometer	+	+	?	?	?	?	+	+	+	+	?	?	+
Tracer	+	?	+	+	+	+	+	+	?	?	?	?	+

1, low viscosity liquids; 2, low liquid flows; 3, large liquid flows; 4, large bore pipes; 5, hot liquids (>200 °C); 6, viscous liquids; 7, cryogenic fluids; 8, hygienic liquids; 9, general gases; 10, low gas flows; 11, large air ducts; 12, hot gases; 13, steam.

Key: +, generally suitable or applicable; ?, worth considering or sometimes applicable also size or costs limitations to the application; no sign, generally unsuitable or not applicable.

Note: This table is for guidance only and manufacturers' advice should always be sought.