

Rosemount™ Magnetic Flow Meters Flow Rate Tables

for Third-party approvals

Water custody transfer standards such as OIML R49 and MID001 define flow rates and ratios required for flow meters to meet these certifications. [Table 1](#) below shows the various flow rates and ratios for a Rosemount magnetic flow meter that would meet the requirements set forth in those standards.

Table 1: Magnetic flow meter flow rates for various certifications

Line Size (mm)	Q4 (m3/hr)	Q3 (m3/hr)	Q2 (m3/hr)	Q1 (m3/hr)	Q3/Q1	Q4/Q3	Q2/Q1
25	20	16	0.128	0.08	200	1.25	1.6
40	50	40	0.32	0.2	200	1.25	1.6
50	78.8	63	0.504	0.315	200	1.25	1.6
80	200	160	2.56	1.6	100	1.25	1.6
100	313	250	4	2.5	100	1.25	1.6
150	788	630	10.1	6.3	100	1.25	1.6
200	1250	1000	16	10	100	1.25	1.6
250	2000	1600	25.6	16	100	1.25	1.6
300	3125	2500	40	25	100	1.25	1.6
350	3125	2500	50	31.3	80	1.25	1.6
400	3125	2500	63.5	39.7	63	1.25	1.6
450	3125	2500	80	50	50	1.25	1.6
500	5000	4000	101.6	63.5	63	1.25	1.6
600	5000	4000	128	80	50	1.25	1.6
750	7875	6300	201.6	126	50	1.25	1.6
900	12500	10000	320	200	50	1.25	1.6

These flow rates can be used to determine suitability of the Rosemount magnetic flow meter for use in applications where custody transfer may be required, however, a third-party certification is not required.

While most custody transfer certifications limit claims of accuracy to between 1% and 3%, the Rosemount magnetic flow meter has a more accurate laboratory reference accuracy specification and total installed performance when properly installed.

For more information: www.emerson.com

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