

LC meter selection (by flow rate - NIST Standard)^a

Maximum nominal flow rate ^b			Flange size	Maximum non-shock working pressure ^c						Construction classes/typical application (see descriptions below)
GPM	L/min	m ³ /hr		150 PSI 10.5 BAR	275 PSI 19 BAR	300 PSI 21 BAR	350 PSI 24 BAR	720 PSI 50 BAR	1,440 PSI 100 BAR	
40	151	9	1'				MA-4			10
60	227	14	1W', 2' opt.	M-5	M-5 ^d		MA-5			1,2, 3, 4, 8, 10, 14, 16, 30
100	380	23	2', 1W' opt.	M-7	M-7 ^d		MA-7			1,2, 3, 4, 7, 8 ^e , 10, 12, 14, 15, 16, 20 ^f , 27, 37
100	380	23	2', 1W' opt.	MS-7	MSAA-7	MSA-7		MSB-7	MSC-7	1,2, 7, 10, 14, 16, 37
150	570	34	2'	M-10	M-10 ^d					1,2
200	757	45	3'	M-15	M-15 ^d		MA-15			1,2, 3, 4, 10, 14, 15, 16
200	757	45	3'	MS-15	MSA-15	MSA-15		MSB-15	MSC-15	1,2, 8, 10, 14, 16
301	1,140	68	3'	M-25	M-25 ^d					1,2
348	1,320	79	4', 3' opt.	M-30						1,2, 3, 4, 7, 14, 15, 16, 27, 37, 47
350	1,325	79	3', 4' opt.	MS-30	MSAA-30	MSA-30		MSB-30	MSC-30	1,2, 8, 10, 14, 16
450	1,700	102	4', 3' opt.	M-40						1,2
450	1,700	102	3', 4' opt.	MS-40						1,2
600	2,271	136	4', 6' opt.	M-60	M-60 ^d					1,2, 3, 14, 15
700	2,650	159	4'	MS-75	MSAA-75	MSA-75		MSB-75	MSC-75	1,2, 10, 14
800 ^f	3,000	182	6', 4' opt.	M-80	M-80 ^d					2
1,000	3,785	227	6' or 8'	MS-120	MSAA-120	MSA-120		MSB-120	MSC-120	1,2, 8, 10, 14

^aStandard LC meters (with the exception of the M-10, M-25, M-40 and M-80) are suitable for operation on products with viscosities up to 1,000,000 SSU.

^bAluminum-body meters are suitable for intermittent overspeed operation at 125% of rating for clean, lubricating fluids. Consult the factory for details.

^cMaximum, non-shock working pressure ratings are based on products at temperatures below 160°F (71°C). Consult the factory for pressure ratings at elevated temperatures.

^d275 working pressure available for meter only.

^eRecommended operation for Class 8 and Class 20 meters should not exceed 80% of maximum rated capacity. Recommended maximum flowrate may be less depending on viscosity.

^fM-80 Class Class 2 meter may be operated at flow rates up to 1,000 GPM for a limited period of time on jet fuel only.

Construction/application classes

Class 1 Refined petroleum products, biodiesel

Class 2 Aviation and jet fuel

Class 3 Variety of products including: liquid sugars, sweeteners, syrups, vegetable oils

Class 4 Treated waters and solvents where no red metals are allowed

Class 7 Chlorinated solvents, ethanol

Class 8 Acid pH liquids including: nitric, phosphoric, glacial acetic acids, citric juices, vinegar, ethanol

Class 10 Liquefied petroleum gas (LPG)

Class 12 Anhydrous ammonia (NH₃)

Class 14 Crude oil, heated products, viscous liquids

Class 15 Oil- or water-based latex products, polyester resins, adhesives, herbicides, nitrogen fertilizers

Class 16 General solvents, 200 proof alcohol, ethanol

Class 20 Batch process water meter service

Class 27 Alkaline pH liquids: latex products, adhesives, liquid fertilizers

Class 30 Herbicides

Class 37 Sodium hydroxide solutions, high sulfur crude oil, alkaline pH liquids

Class 47 Mildly abrasive liquids