

molbloc-L ranges with low pressure and downstream calibrations

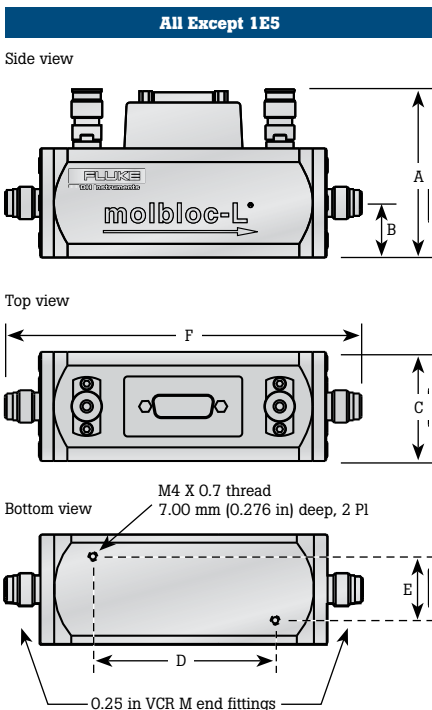
FLUKE®

— DH Instruments

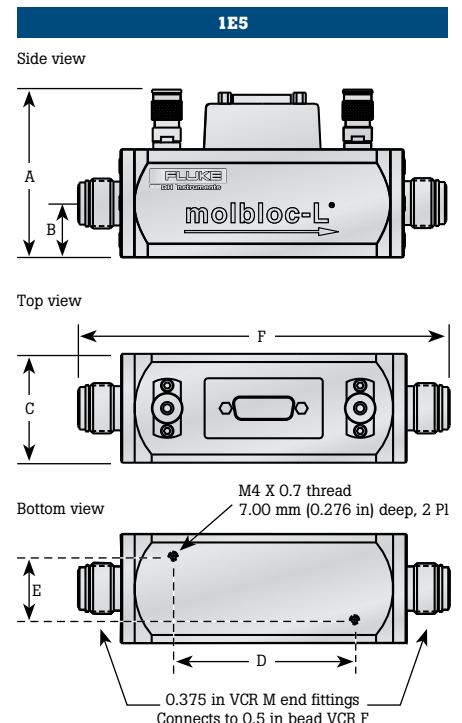
		molbloc size and full scale flow (sccm @ 0 °C)										
		Size										
Gases		1E1	5E1	1E2	2E2	5E2	1E3	5E3	1E4	3E4	1E5	
Inert	Nitrogen	N ₂	10	50	100	200	500	1000	5000	10000	30000	100000
	Argon	Ar	10	50	100	200	500	1000	5000	10000	30000	80000
	Helium	He	10	50	100	200	500	1000	5000	10000	30000	100000
	Sulfur hexafluoride	SF ₆	10	50	100	200	500	1000	2000 500	6000 1000	6000 4000	—
	Xenon	Xe	10	40	80	150	400	800	3500 500	8000	11000 3000	30000 20000
Flammable	Butane	C ₄ H ₁₀	20	100	130 30	270 50	670 140	2300	2200 1400	7000 3000	— —	—
	Ethane	C ₂ H ₆	20	100	200	400	1000	2000	6000 1000	18000 2000	18000 6000	60000 50000
	Ethylene	C ₂ H ₄	16	18	160	320	800	1600	7000 1000	16000	20000 5000	70000 40000
	Hydrogen	H ₂	20	100	200	400	1000	2000	10000	20000	60000	200000
	Methane	CH ₄	16	80	160	320	800	1600	8000	16000	40000 5000	120000 40000
	Propane	C ₃ H ₈	20	100	200	400	1000	2000	3000 1000	10000 2000	10000 7000	—
Fluoro-carbons	Carbon tetrafluoride	CF ₄	10	50	100	200	500	1000	4000 600	10000	12000 3000	36000 25000
	Hexafluoroethene	C ₂ F ₆	10	50	100	200	500	1000	2000 600	6000 1200	6000 4000	—
	Trifluoromethane	CHF ₃	10	50	100	200	500	1000	4000 600	10000	12000 4000	38000 30000
Other	Air	Air	10	50	100	200	500	1000	5000	10000	30000	100000
	Carbon dioxide	CO ₂	10	50	100	200	500	1000	5000	10000	20000 4000	60000 30000
	Carbon monoxide	CO	10	50	100	200	500	1000	5000	10000	30000	100000
	Nitrous oxide	N ₂ O	10	50	100	200	500	1000	5000	10000	20000 4000	60000 30000
	Octafluorocyclobutane ¹	C ₄ F ₈	15	60 9	65 17	130 34	330 85	1100 175	1050 840	3400 1700	— —	—
	Oxygen	O ₂	10	50	100	200	500	1000	5000	10000	30000	80000

See page 2 for footnotes.

molbloc-L dimensions



	5E3 and lower	1E4,3E4	1E5
A	58.50 mm (2.303 in)	74.50 mm (2.933 in)	74.50 mm (2.933 in)
B	16.00 mm (0.630 in)	24.00 mm (0.945 in)	24.00 mm (0.945 in)
C	32.00 mm (1.260 in) sq	48.00 mm (1.890 in) sq	48.00 mm (1.890 in) sq
D	68.84 mm (2.750 in)	80.00 mm (3.150 in)	80.00 mm (3.150 in)
E	19.06 mm (0.750 in)	28.00 mm (1.102 in)	28.00 mm (1.102 in)
F	124.00 mm (4.881 in)	157.00 mm (6.181 in)	164.00 mm (6.458 in)



End views

molbloc-L ranges with high pressure calibrations

		molbloc size and full scale flow (sccm @ 0 °C)										
		Size										
Gases		1E1	5E1	1E2	2E2	5E2	1E3	5E3	1E4	3E4	1E5	
Inert	Nitrogen	N ₂	20	100	200	400	1000	2000	10000	20000	40000 7500	N/A
	Argon	Ar	20	100	200	400	1000	2000	10000	17000	35000 6000	N/A
	Helium	He	20	100	200	400	1000	2000	10000	20000	65000	N/A
	Sulfur hexafluoride	SF ₆	25	100 15	120 30	250 50	600 150	2000 300	2000 1400	6200 2800	– –	N/A N/A
	Xenon	Xe	20	100	150	350	650	1700	3350 950	11000 1900	11000 5700	N/A
Flammable	Butane ²	C ₄ H ₁₀	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Ethane	C ₂ H ₆	40	200	350 50	700 100	1800 200	4000	6000 2300	20000 4500	20000 13800	N/A N/A
	Ethylene	C ₂ H ₄	40	200	350	700	1800	4000	7000 2000	22000 4000	22000 12700	N/A
	Hydrogen	H ₂	40	200	400	900	2000	4500	22000	45000	130000	N/A
	Methane	CH ₄	35	175	350	700	1700	3500	13000 2000	33000	42000 12000	N/A
	Propane	C ₃ H ₈	50	200 25	200 50	400 100	1000 250	3500 500	3500 2600	11000 5400	– –	N/A
Fluoro-carbons	Carbon tetrafluoride	CF ₄	20	100	200	400	1000	2000	3700 1200	12000 2400	12000 7300	N/A
	Hexafluoroethene	C ₂ F ₆	25	100 15	120 30	250 50	600 150	2000 300	1800 1500	6000 3000	– –	N/A
	Trifluoromethane	CHF ₃	25	125	240 30	450 60	1200 150	2500	4000 1500	12000 3000	12000 8800	N/A
Other	Air	Air	20	100	200	400	1000	2000	10000	20000	40000 7200	N/A
	Carbon dioxide	CO ₂	25	125	250	500	1250	2500	6600 1400	20000 2500	40000 8800	N/A
	Carbon monoxide	CO	20	100	200	400	1000	2000	10000	20000	40000 7500	N/A
	Nitrous oxide	N ₂ O	25	125	250	500	1250	2500	11000 1500	20000 3000	20000 9000	N/A
	Octafluorocyclobutane ²	C ₄ F ₈	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Oxygen	O ₂	20	100	200	400	1000	2000	10000	20000	40000 6500	N/A

A bold value indicates that the maximum flow is limited by the maximum Reynolds number value of 1 200 which is reached before the normal differential pressure range is reached. In that case, the second value gives the minimum flow for which measurement uncertainty (accuracy) is equal to the nominal uncertainty specification. Divide the second value by 10 when using molbox RPM micro-range option.

Where there is no value in the field (–), this indicates that the maximum Reynolds number is reached before the differential pressure reaches 5 kPa (1 kPa in the case of the 1E5 molbloc), therefore calibration with that gas is not useful.

¹ Due to low vapor pressure, only downstream calibration type is available.

² The operating pressure range is greater than the vapor pressure value for this gas.

Fluke. Keeping your world up and running.®

Fluke Corporation

DH Instruments Division
4765 East Beautiful Lane
Phoenix, AZ 85044-5318 U.S.A.
Phone (602) 431-9100
Fax (602) 431-9559

Fluke Europe B.V.

PO Box 1186, 5602 BD
Eindhoven, The Netherlands

For more information call:

In the U.S.A. (800) 443-5853 or
Fax (425) 446-5116
In Europe/M-East/Africa +31 (0) 40 2675 200 or
Fax +31 (0) 40 2675 222
In Canada (800)-36-FLUKE or
Fax (905) 890-6866
From other countries +1 (425) 446-5500 or
Fax +1 (425) 446-5116
Web access: <http://www.fluke.com>

©2009 Fluke Corporation.
Specifications subject to change without notice.
Printed in U.S.A. 10/2009 3542583A F-EN-N Rev A

Modification of this document is not permitted without written permission from Fluke Corporation.