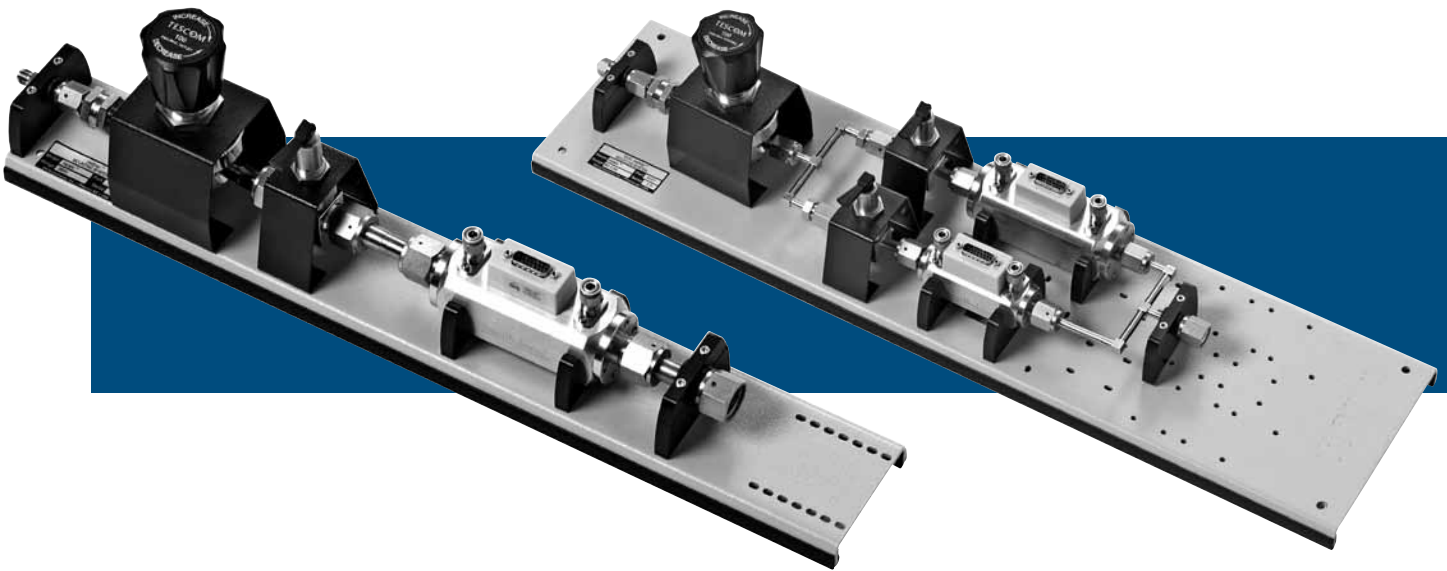


molstic-L™ Mounting Systems for molbloc-L® Mass Flow Elements

Technical Data



molstic molbloc mounting systems are available to assist you in realizing the full performance benefits of your molbloc/molbox™ system. molstics provide an engineered solution to the practical issues of mounting the molbloc, connecting a gas supply, regulating the pressure and connecting the device to be tested. Highest quality components are integrated into a compact assembly to assure optimum molbloc/molbox performance.

molstics provide a quick connector input for convenient connection to the gas supply. This is followed by a 2 micron (0.5 micron for low flow) filter to protect the downstream components. Then, an adjustable regulator sets and regulates optimum molbloc upstream pressure and protects the molbloc transducers against accidental overpressure. The regulator range supports all standard molbloc operating pressure ranges. A bellows shut-off valve, just before the molbloc, allows the gas supply to be shut-off for configuration changes and/or system leak checking.

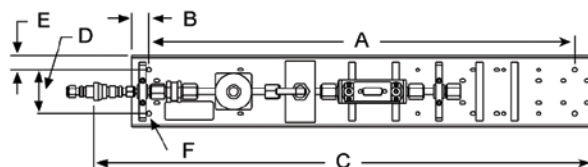
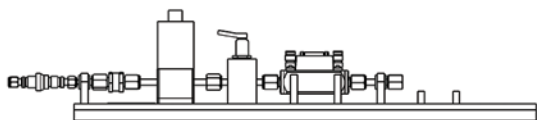
Special cradles support the molbloc(s). A connection and pads are provided downstream of the molbloc for mounting the MFC (mass flow controller), another device under test, or the optional metering valve kit for manual flow control.

Single channel molstics are available to accommodate single molblobs. Dual channel models allow two molblobs to be mounted simultaneously to switch between two different molbloc ranges without changing hardware or to take advantage of molbox1's capability to run two molblobs in parallel.

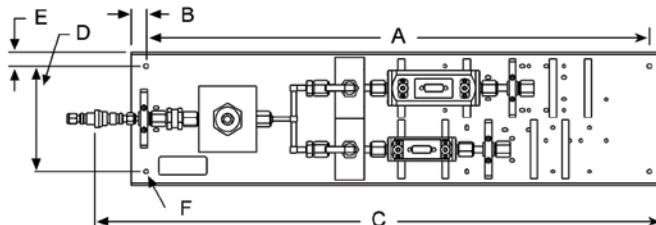
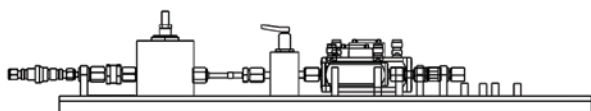
There are low, mid and high flow versions of molstic. Low flow molstics use a unique, very high stability pressure regulator and minimize dead volumes. They are required for effective use of 2E2-L and lower molblobs and can be used up to the 1E3-L molbloc size. The mid flow molstics cover the ranges of all the molblobs from as low 2E2-L up to the 3E4-L. The high flow molstic is required for the 1E5-L (100 slm) molbloc and supports that molbloc only.

Pneumatic schematic

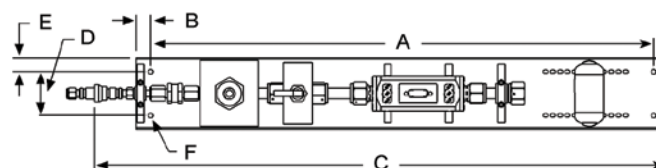
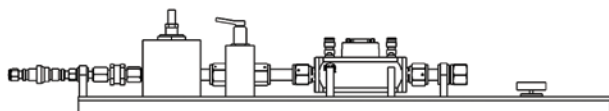
single, low flow



dual, mid flow



single, hi flow



Dimensions

	A	B	C	D	E	F
Single, low flow	584 mm (22.99 in)	26 mm (1.02 in)	687.3 mm (27.06 in)	60 mm (2.36 in)	19 mm (0.75 in)	6.40 mm (0.252 in) mounting holes, 4 PL
Dual, mid flow	690 mm (27.17 in)	20 mm (0.79 in)	752.4 mm (29.62 in)	144 mm (5.67 in)	19 mm (0.75 in)	6.40 mm (0.252 in) mounting holes, 4 PL
Single, hi flow	690 mm (27.17 in)	20 mm (0.79 in)	787.7 mm (31.01 in)	60 mm (2.36 in)	19 mm (0.75 in)	6.40 mm (0.252 in) mounting holes, 4 PL

Configuration notes

- 1E1-L to 5E3-L molblocs are "small" molblocs. 1E4-L to 1E5-L molblocs are "large" molblocs. The 1E5-L molbloc is unique due to its end fittings.
- The hi flow molstic supports only the 1E5-L molbloc with 1/2 in. VCR male end fittings. Low and mid flow molstics can only be used with molblocs having 1/4 in. VCR male end fittings (1E1-L to 3E4-L molblocs).
- The downstream connection of low and mid flow molstics is 1/4 in. VCR female and an adaptor to 1/4 in. male Swagelok is provided. The downstream connection of the hi flow molstic is 1/2 in. VCR female and a 1/4 in. VCR female adaptor is provided.
- The optimum range distribution between low and mid flow molstics is low for molblocs of 1E3-L and below and mid for molblocs from 5E3-L to 3E4-L. The 1E5-L molbloc requires the hi flow molstic which supports no other molbloc size.
- Mid molstics are designed to mount either large or small sized molblocs. Same size molblocs can be interchanged quickly on any molstic. More effort is required to interchange molblocs of different sizes.

Ordering information

Model

- molstic single, low flow** Single molbloc, 1E3-L or lower
- molstic dual, low flow** Two molblocs, 1E3-L or lower
- molstic single, mid flow** Single molbloc, 2E2-L to 3E4-L
- molstic single, mid flow** Two molblocs, 2E2-L to 3E4-L
- molstic single, hi flow** Single molbloc, 1E5-L only

Accessories

- Tee, Downstream for dual mid molstic** Connect two same size molblocs together at outlet
- Tee, Downstream, lrg/sml for dual mid molstic** Connect large and small size molblocs together at outlet
- Metering Valve low flow molstic** Install on molstic downstream of molbloc for manual flow control
- Metering Valve mid/hi flow molstic** Install on molstic downstream of molbloc for manual flow control

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