Calibration Solutions for Pressure and Flow™

Installation of 1/2 in. Filter Kit

P/N 401888

Instruction Sheet

This kit is used to provide filtration for 1/2 in. molbloc flowpaths, especially for 1/2 in. molstic-S and molbloc-S installations. Unlike most DHI molstics, the1/2 in. molstic-S does not include a filter because contamination is not a likely problem for the larger diameter molbloc-S elements that are normally installed on it. For customers who expect the presence of significant particulate contamination, or want to maintain very clean gas, this 1/2 in. filter kit can be installed upstream of critical molstic-S components. The kit may also be used for extra filtration on 1/2 in. supply lines to other molstics.

INSTALLATION OF 1/2 IN. FILTER KIT ONTO 1/2 IN. MOLSTIC-S (SINGLE OR DUAL)

The filter kit can be installed on the upstream side of a single or dual channel 1/2 in. molstic-S. If there is no regulator installed on the molstic-S, the filter will fit completely over the molstic base.

If there is a regulator installed on the molstic-S, the filter kit should generally be installed upstream of the regulator. In this installation, the filter will extend beyond the upstream side of the molstic. If this is inconvenient, the filter kit can be installed on a supply line upstream of the molstic instead.

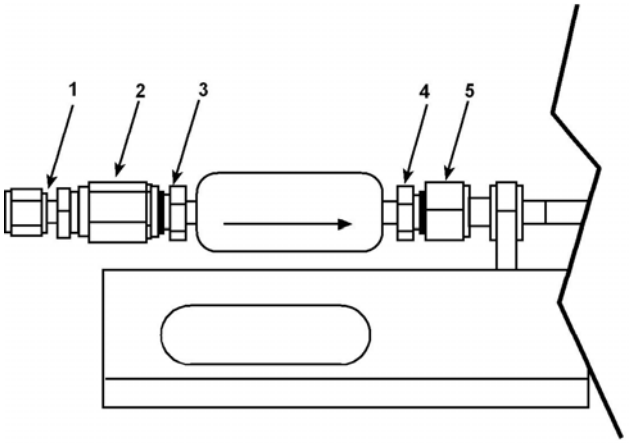

Figure 1. Dual 1/2 in. molstic-S, with 1/2 in. Filter Kit

To **permanently** install the filter kit:

❶ Using a pair of properly sized wrenches, remove the VCR x tube adaptor that is on the inlet end of the molstic-S. This will leave a female VCR swivel nut (5) as the molstic interface. Retain the tube adaptor for future use. The VCR gaskets used in this connection are for one-time use and should therefore be discarded.

❷ Place a new VCR gasket securely against the sealing surface inside the female VCR swivel nut .

❸ Align the filter downstream fitting (4) in the VCR nut (5) and thread the nut onto the fitting by hand. The filter should be installed with the printed arrow pointing in the direction of the gas flow.

❹ Using two wrenches, tighten the filter's downstream male VCR connector (4) into the female nut (5) 1/8 turn past finger-tight.

❺ Thread the 8VCR female coupling (2) onto the filter upstream connector (3). Place a new VCR gasket securely against the sealing surface of the filter upstream fitting inside the 8VCR female coupling.

❻ Thread the VCR x tube adaptor fitting (1) from the original molstic inlet into the 8VCR female coupling (2). The coupling should be threaded onto both male fittings so that the VCR gasket is centered in the coupling.

❼ Using two wrenches, tighten the two male nuts from the tube adaptor (1) and filter upstream fitting (3) against each other in the coupling. The connection should be tightened 1/8 turn past finger-tight.

To **temporarily** install the filter kit:

❶ Using a pair of properly sized wrenches, remove the VCR x tube adaptor that is on the inlet end of the molstic-S. This will leave a female VCR swivel nut (5) as the molstic interface. Retain the adaptor for future use. The VCR gaskets used in this connection are for one-time use and should therefore be discarded.

❷ Place a new 8VCR o-ring securely against the sealing surface inside the female VCR swivel nut.

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DH Instruments, Inc.
4765 East Beautiful Lane
Phoenix AZ 85044-5318
USA

Tel 602.431.9100
Fax 602.431.9559
dhi@dhinstruments.com
www.dhinstruments.com

❸ Align the filter downstream fitting (4) in the VCR nut (5) and thread the nut onto the fitting so it is hand-tight. The filter should be installed with the printed arrow pointing in the direction of the gas flow.

❹ Using two wrenches, tighten the filter's male VCR connector (4) into the female nut (5) approximately 1/2 turn beyond hand-tight.

❺ Thread the 8VCR female coupling (2) onto the filter upstream connector (3). Place a new 8VCR o-ring securely against the sealing surface of the filter upstream fitting inside the 8VCR female coupling.

❻ Thread the VCR x tube adaptor fitting (1) from the original molstic inlet into the 8VCR female coupling (2). The coupling should be threaded onto both male fittings so that the o-ring is centered in the coupling.

❼ Using two wrenches, tighten the two male nuts from the tube adaptor and filter upstream fitting against each other in the coupling. The o-ring connection should be tightened only 1/2 turn past finger-tight.

Over-tightening VCR connections will damage the sealing beads and/or o-rings and possibly cause system leakage. Do not re-use metallic VCR gaskets.

The following parts are included in the shipment:

DESCRIPTION	QTY	PART NO.
Filter, SS, 5 micron, 8VCR	1	103129
Adaptor, 8VCR female coupling	1	103606
Gasket, 8VCR	2	102923
O-ring, Viton, 8VCR	2	102912

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