

AIR FLOW MEASUREMENT

3AFM

Air Flow Meter

Precision air-flow monitoring for thermal spray systems

Professional monitoring for controlled spray-air delivery

The 3AFM monitors spray-air delivery and shows both normal litres per minute and standard cubic feet per minute. The pointer helps operators repeat validated process settings.

**0-840**

NLPM @ 4.83 bar

0-32

SCFM @ 70 psig

125 psig

Maximum pressure

2.3 kg

Instrument weight

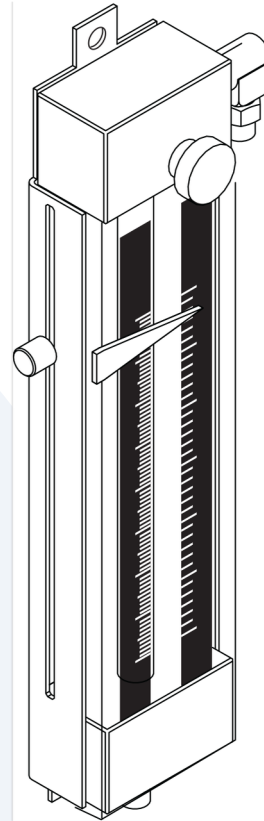
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2 Product Description

2.1 Overview



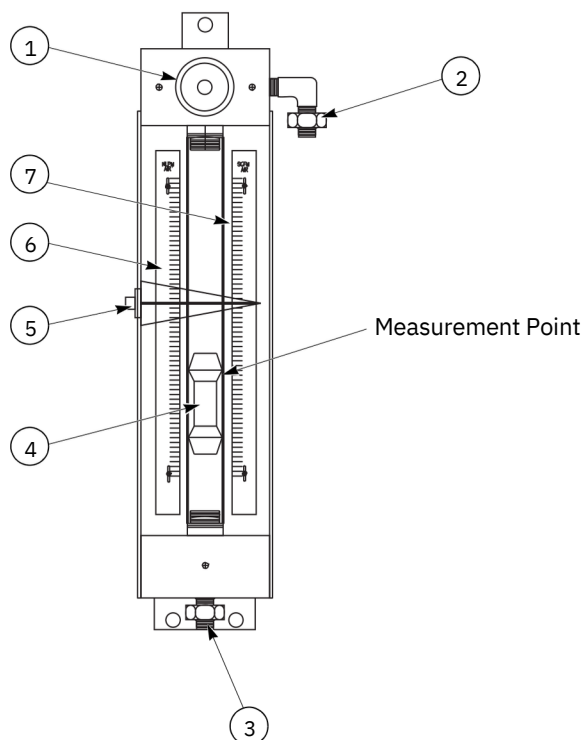
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Compressed air serves several functions in a thermal spraying system. Purposes include air cooling for the spray gun, nozzle, substrate or material, curtain air, nozzle face air, and pneumatic control. Pneumatic controls generally require only pressure-regulated air. Air flow supplied directly to the spray gun, nozzle, workpiece or coating material must be critically controlled to obtain consistent coating results.

The 3AFM Air Flowmeter facilitates precise control and monitoring of the air flow to the thermal spraying system. The precision needle valve is used to adjust the volume of air flow through the 3AFM. Air flow readings are taken at the widest point at the top of the float. The reading can be made in normal liters per minute (NLPM at 4.83 bar) or standard cubic feet per minute (SCFM at 70 psig). As a visual aid, the moveable and lockable pointer can be set at the desired flow rate. (The pointer has no effect on the air flow.)

2.2 Functions

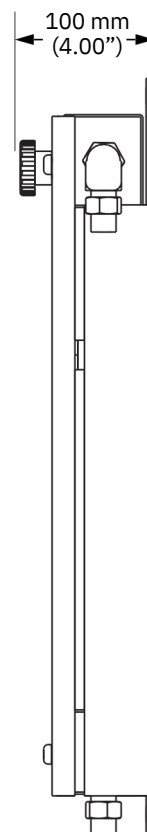
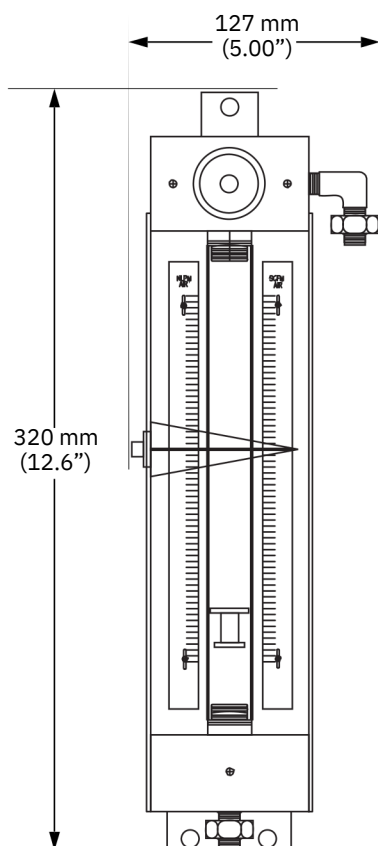
3AFM Air Flowmeter



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Item No.	Description	Function
1	Flow Control	Needle valve control used to adjust air flow through 3AFM.
2	Air Outlet Fitting	Connects to air input(s) of thermal spraying equipment.
3	Air Inlet Fitting	Connects to regulated compressed air supply (e.g., 6A) via supplied (AF5) air hose.
4	Float	Bottom of float indicates current air flow.
5	Pointer	Moveable reticle to aid in reading meter. Does not affect air flow.
6	NLPM Scale	Scale for air flow values in normal liters per minute (NLPM at 4.83 bar). Scale for air flow values in standard cubic feet per minute (SCFM at 70 psig).
7	SCFH Scale	

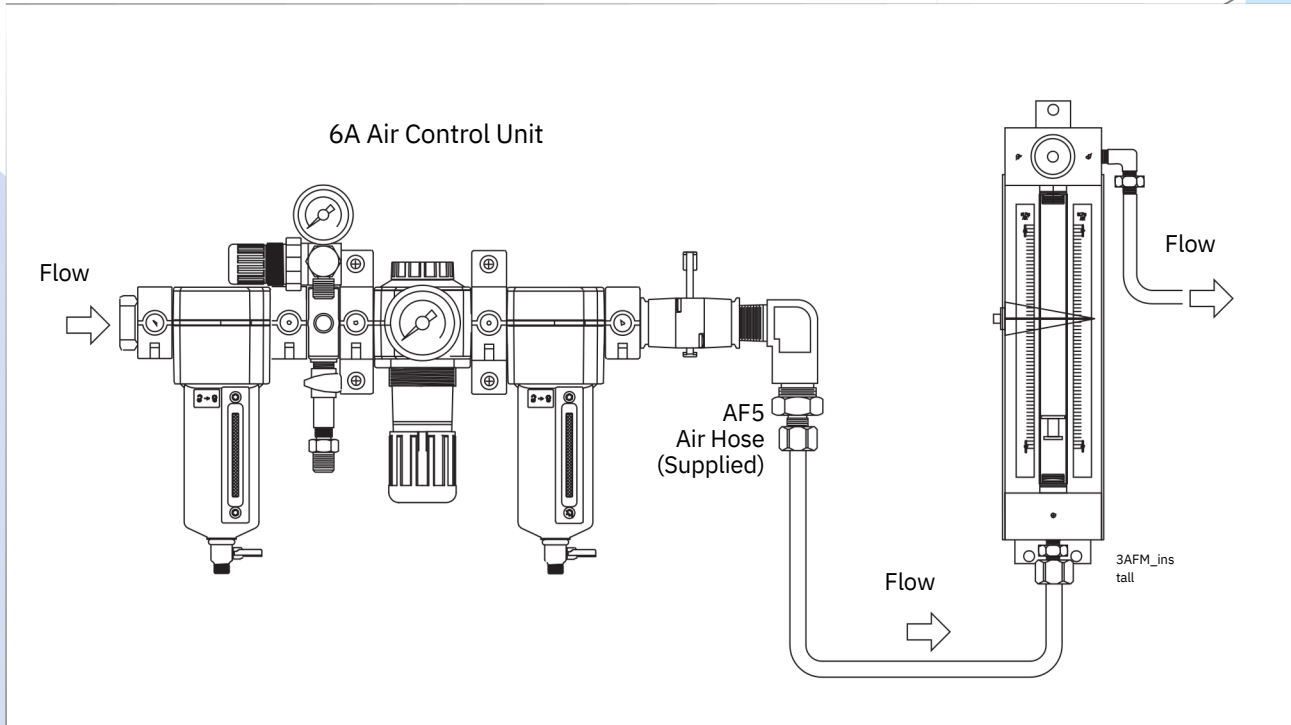
2.3 Technical Data



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3AFM Air Flowmeter		
Characteristic	SI Units	US Units
Weight	2.3 kg	5 lb.
Range of Operation	0-840 NLPM @ 4.83 bar	0-32 SCFM @ 70 psig
Maximum Operating Pressure	8.32 bar	125 psig
Connections (Inlet & Outlet)	CGA022 9/16-18 right-hand thread	

3AFM Air Flowmeter



1. Mount 3AFM Air Flowmeter vertically at eye level within 600 mm (2') of 6A Air Control Unit. (Integral flange has one mounting hole on top and two on bottom.)
2. Make sure plastic shield is installed over flow tube. Do not operate the 3AFM Air Flowmeter unless the plastic shield is in place.
3. Connect supplied 1.22m (4') AF5 air hose (1001745) from 6A to air inlet fitting on bottom of 3AFM. Use supplied adapters as required and securely tighten all fittings.
4. Connect air outlet of 3AFM to thermal spraying equipment using air hose supplied with that equipment.