

# 3GFM GAS FLOW METER

The 3GFM allows the operator to easily monitor and maintain gas flows. Proper flows are crucial in order to heat and atomize wire material and help prevent overheating the equipment.

The 3GFM Gas Flow Meter is a highly accurate and reliable instrument for regulating and measuring the flow of both oxygen and fuel gas in a manual powder or wire combustion spray system.

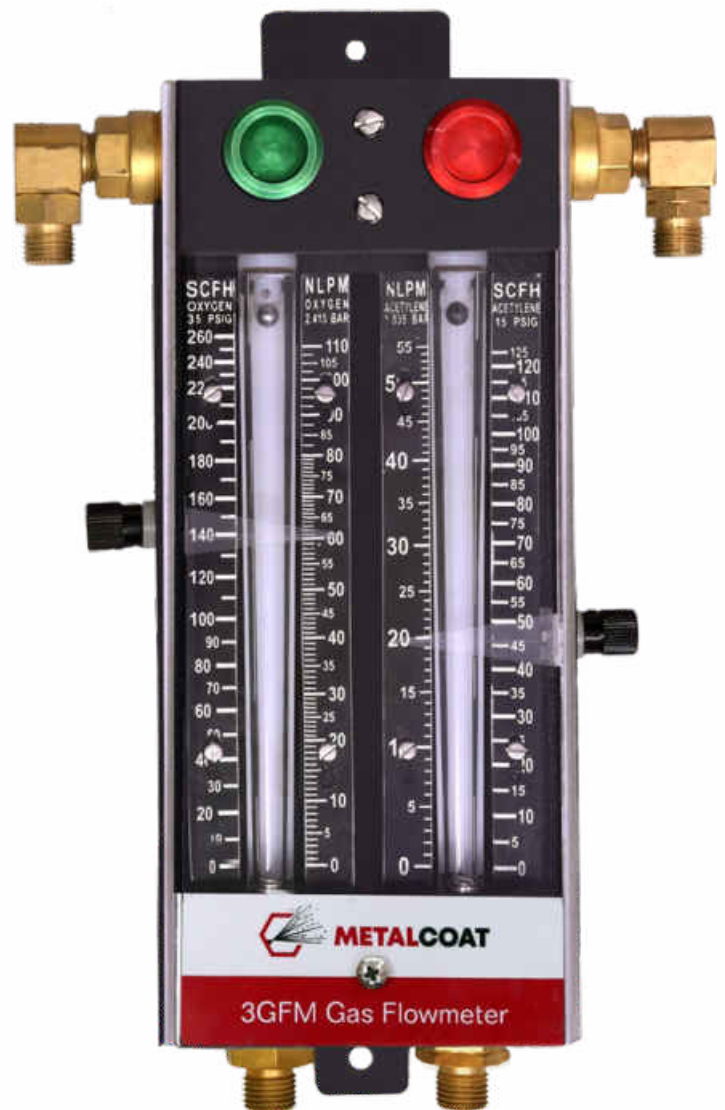
The 3GFM has precision needle valves, actuated by adjustment knobs on the front panel, that control the flow of gas. When adjusted to values found in the gun spray tables, user will achieve maximum bond strength and optimal coating quality.

As an additional safety feature, each meter incorporates a check valve in the piping from the meter outlet to the combustion spray gun, which protects against high back pressure that could result from gun backfire and prevents any possibility of mixing of the process gases.

## Features & Benefits:




















- Economical and simple: Inexpensive to own and operate; minimal training required
- Precise: Provides precision metering of process gas flow for consistent results
- Versatile: Can be used with a choice of fuel gases to accommodate different applications and production needs
- Safe: Built in safety features, such as check valves, and plastic shields for safe operation. Fuel and oxygen connections are threaded in the opposite direction from one another, to prevent improper hookup
- Convenient: Easily mounts on a wall
- Easy to read: Sliding indicators and flow units in both NLPM and SCFH
- Rugged design: Built for long service life with very little maintenance













## GAS FLOW METER FOR WIRE FLAME SPRAY AND POWDER FLAME SPRAY



- ★ OXYGEN
- ★ FUEL
  - ACETYLENE
  - LPG / PROPANE
  - HYDROGEN
  - MAPP

## SPARE PARTS LIST OF 3GFM

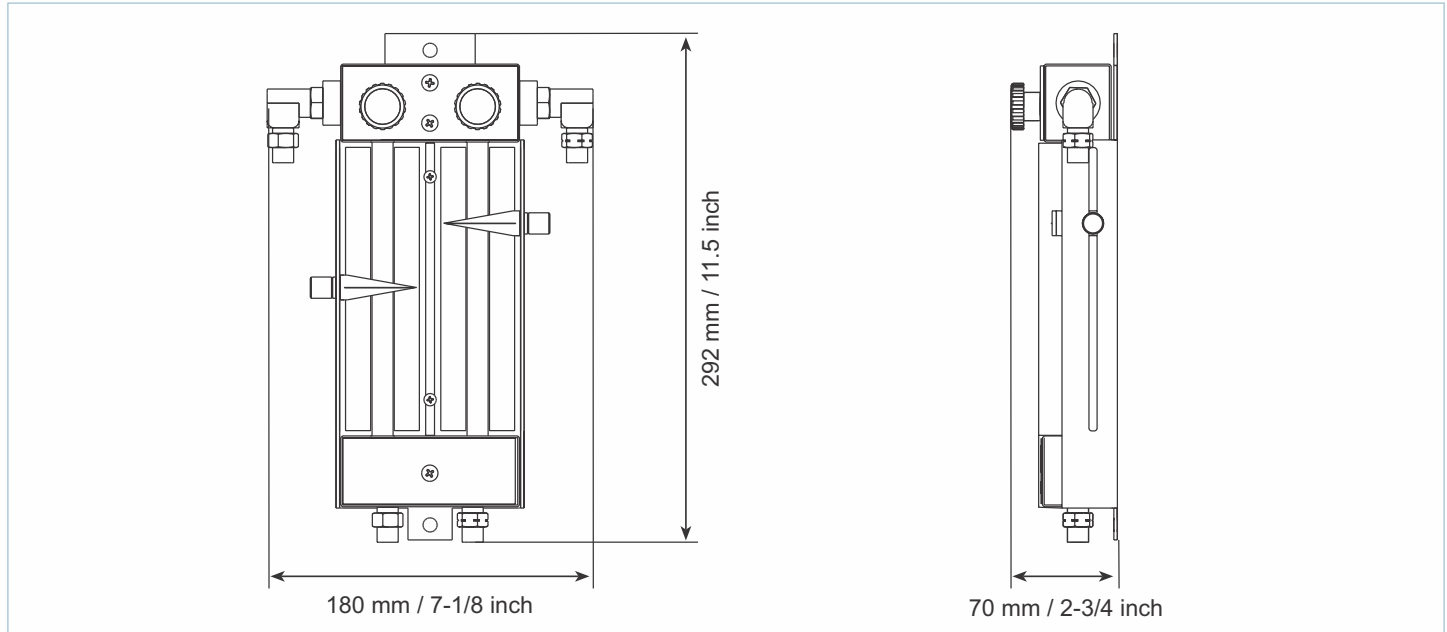
DESCRIPTION	PART NO.	ITEM
HOSE FITTING RH	3GFM-204	
HOSE FITTING LH	3GFM-1290	
FUEL GAS FLOAT (BLACK)	3GFM-1914	
OXYGEN FLOAT (POLISHED STEEL)	3GFM-1915	
POINTER ASSEMBLY	3GFM-54393	
FLOW METER TUBE	3GFM-54398	
CHEEK VALVE	3GFM-54403	
KNOB (RED)	3GFM-54406	
KNOB (ORANGE)	3GFM-54407	
KNOB (GREEN)	3GFM-54408	
KNOB (BLUE)	3GFM-54409	
POINTER LOCKING KNOB	3GFM-54459	
'O' RING	3GFM-54780	
'O' RING	3GFM-2052	
'O' RING	3GFM-3018	
'O' RING	3GFM-3084	
NEEDLE VALVE HOUSING	3GFM-14416	
NEEDLE VALVE	3GFM-14420	
UPPER FLOAT STOP	3GFM-14424	

DESCRIPTION	PART NO.	ITEM
LOWER FLOAT STOP (OXY.)	3GFM-14430	
'O' RING	3GFM-15153	
LOWER FLOAT STOP (FUEL)	3GFM-27519	
BOTTOM MOUNTING BLOCK	3GFM-54412	
PLASTIC SHIELD (WINDOW)	3GFM-54414	
TOP MOUNTING BLOCK	3GFM-54416	
BACK PLATE	3GFM-5708	
BACK PLATE SCREW		
SCALE - OXYGEN - NLPM		
SCALE - ACETYLENE - NLPM		
SCALE - OXYGEN - SCFH		
SCALE - ACETYLENE - SCFH		

# 3GFM GAS FLOW METER

## TECHNICAL DATA

### Dimensions:



### Specifications:

#### Process Gases

Acetylene, hydrogen, propane, MPS, MAPP, natural gas  
Oxygen

#### Meter (Read-out scale)

Oxygen	0 – 110 NLPM @ 2.41 bar	0 – 260 SCFH @ 35 psi
Fuel	0 – 55 NLPM @ 1.035 bar	0 – 125 SCFH @ 15 psi

#### Maximum operating pressure

Oxygen and fuel *	6.9 bar	100 psi
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#### Connections (inlet and outlet)

Oxygen	right-hand thread	9/16-18
Fuel	left-hand thread	9/16-18

#### Weight

	2.6 Kg.	6 lb
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\* Acetylene should not be used above 1 bar (15 psi)

H.O. & Works:

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