



Gas Proportioner with CV™ valve  
for blending two gases

To blend two or three gases in homogeneous infinitely variable concentrations, directly at the end use point, this *Model G* gas proportioner is unsurpassed in convenience and economy.

Gas proportioners pay for themselves since they eliminate the need for expensive custom blended gas mixtures.

They lend flexibility and economy to the utilization of component gas cylinders and “piped-in” supply lines.

**Another advantage in laboratory investigations is the freedom to reproducibility increase or decrease concentrations during the course of an experiment.**

The flow rates are not affected by downstream pressure variations as long as back pressures do not approach or exceed the input pressure. Input pressures of up to 200 psig (13.8 bars) can be used; however, customers very often find 50 psig (3.45 bars) a convenient setting to work with.

### design features

- ✓ Blending of two or three gases with gas proportioners obviates the need for:
  - ✓ ORDERING FIXED GAS MIXTURES.
  - ✓ CONTAMINATION FROM REUSABLE GAS CYLINDERS.
  - ✓ POTENTIALLY INACCURATE MIXTURES BY GAS SUPPLIERS.
- ✓ Rib-guided or fluted metering tubes facilitate stable, accurate readings.
- ✓ OPTIGRAD™ scales minimize parallax and eye fatigue.
- ✓ Interchangeability of flow tubes and floats.
- ✓ Simple means of panel mounting.



## BUILT-IN VALVES

Meters are available with built-in needle valves (CV™), high precision metering valves (MFV™) with “non-rising stems”, or with no valves.

The higher cost of MFV™ valves is justified whenever high sensitivity control and resolution are desirable particularly in conjunction with metering tubes of very low flow rates.

### flow tubes

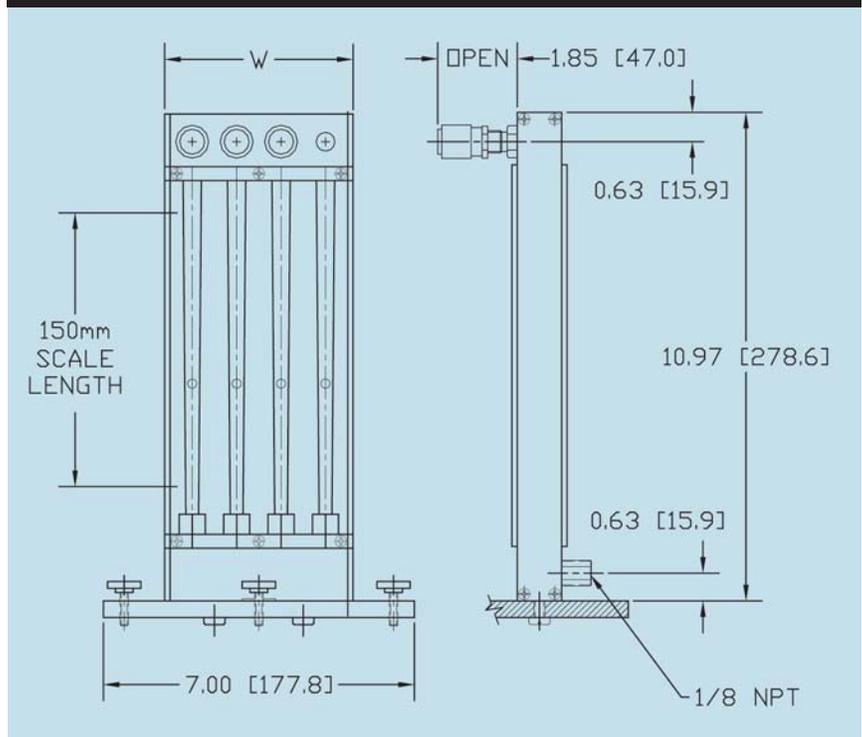
- ✓ Precision fabricated from heavy walled, shock resistant borosilicate glass.
- ✓ Bores are uniformly tapered or formed with internal “rib-guides” or flutes.
- ✓ Floats are retained by TFE plugs.
- ✓ Self cleaning.
- ✓ Low differential pressures that stay independent of flow rate changes.

### DIMENSIONS FOR G STYLE METERS

WIDTH (W)		
SCALE LENGTH	2 CHANNEL	3 CHANNEL
150mm	3.24	4.24

Bench mounting acrylic tripod bases are optional.

### DIMENSIONS



### SPECIFICATIONS STANDARD COMPONENT

#### FLOW TUBE ACCURACY

±2% FS mm scales except 042 flow tubes ±5%, from 10 to 100% of scale. Conforming to ISA RP. 16-1.2.3. Specification 2-S-10.

#### COMPONENT FLOW TUBE REPEATABILITY

±0.25%. Typical calibration curves for air at 50 psig /3.5 bars using glass floats are available. Consult the company on the availability of calibration data for non-hazardous gases and special individual calibrations.

**MAX OPERATING PRESSURE** 200 psig/13.8 bars.

**MAX OPERATING TEMPERATURE** 250 °F /121 °C.

### \*\*MATERIALS OF CONSTRUCTION

<b>FLOW TUBES</b>	Heavy walled borosilicate glass.
<b>CHOICE OF MOUNTING FITTINGS IN CONTACT WITH GASES</b>	a) Aluminum, black anodized. b) 316 stainless steel.
<b>SIDE PANELS</b>	Aluminum, black anodized.
<b>FRONT SHIELD</b>	Clear polycarbonate.
<b>BACK PLATE</b>	1/8" thick white acrylics.
<b>O-RINGS AND PACKING</b>	Buna-N® O-rings in aluminum model. Viton-A® O-rings in stainless steel meters.
<b>OPTIONAL</b>	Viton®, PTFE/Kalrez®.
<b>CONNECTIONS</b>	1/8" NPT female inlet and outlet connections.
<b>OPTIONAL</b>	Hose and compression fittings are available.

\*\*The selection of materials of construction, is the responsibility of the customer. The company accepts no liability.

**Ordering information see page 23.**

**For flow capacities see table 10 page 46.**

# G

## ORDERING INFORMATION G STYLE METER

### EXAMPLE

<b>G</b>	G STYLE METERS	
<b>CODE</b>	TUBE QUANTITIES	
<b>2</b>	TWO CHANNEL METER (TWO TUBES AND ONE MIXING TUBE)	
<b>3</b>	THREE CHANNEL METER (THREE TUBES AND ONE MIXING TUBE)	
<b>CODE</b>	SIZE	
<b>1</b>	150 mm	
<b>CODE</b>	MATERIAL	
<b>A</b>	ALUMINUM	
<b>S</b>	STAINLESS	
<b>CODE</b>	VALVE	
<b>5</b>	MFV (HIGH PRECISION) OUTLET	
<b>6</b>	CV OUTLET (STANDARD CARTRIDGE)	
<b>CODE</b>	SEALS	
<b>V</b>	VITON® STD ON STAINLESS METERS	
<b>B</b>	BUNA® STD ON BRASS AND ALUMINUM	
<b>E</b>	EPR	
<b>T</b>	PTFE	
<b>CODE</b>	FITTINGS	
<b>A</b>	1/8" FNPT	
<b>B</b>	1/4" FNPT	
<b>C</b>	1/8" HOSE NIPPLE	
<b>D</b>	1/4" HOSE NIPPLE	
<b>E</b>	1/8" COMPRESSION	
<b>F</b>	1/4" COMPRESSION	
<b>H</b>	VCR	
<b>CODE</b>	MANIFOLD	
<b>0</b>	NONE	

<b>G</b>					—						<b>TUBE</b>
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**Optional Accessories**  
**TPG**-Tripod for 2 channel gas proportioner.  
**TPH**-Tripod for 3 channel gas proportioner.

**Select tube from the following table:**  
 Table 10 page 46.