

Proportional Gas Mixers

Gas Equipment 

Quick Specs	Gases	Flow Range	Required Inlet Pressure	Case Material
	Argon	10–180 scfh	105–115 psig	Painted aluminum
	CO ₂	4.8–85 lpm	7.3–7.9 bar	Dimensions
	Helium	Outlet Pressure	724–793 kPa	5.375 x 7.375 x 10.125 in.
	Hydrogen	50 psig	Inlet Filters	(137 x 187 x 257 mm)
Oxygen	3.5 bar	60 micron nominal	Net Weight 8 lb. (3.6 kg)	
		344.7 kPa	(mixer protection only)	

Efficient. Economical. Precise.



299-006-1C gas mixer shown.

Accurate, on-site shield gas mixing. Various welding processes require different gas mixes for the best results. Our proportional gas mixers are accurate and allow custom mixtures for optimal welds.

No stocking or handling of premixed gases saves time and money, and reduces the number of cylinders that need to be stored.

Reduces setup time. No need to change cylinders, regulators, flow control devices or hoses when switching from one range of mixed gas to another.

Ideal for education and training. Operators can quickly see the effect of various gas mixtures on weld appearance, quality and penetration.

Easy operation. Simply set the dials for the desired mix and flow. Mixers are mechanical, no electricity is required.

Serves from one to five welding stations with a single mixer. Delivers accurate mixtures at flows ranging from 10 to 180 scfh.

No gas separation. Premixed gases can separate (stratify) after sitting for long periods of time. Our accurate proportional gas mixers eliminate that risk.

Built-in flow control eliminates the need for additional flow control devices when used in single-station applications.

Versatile. Convenient conversion charts printed on the top of the mixer cabinet help guide proper use with other gases.



Warranted for one year, parts and labor.



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Specifications (Subject to change without notice.)

Stock Number	Gases	Adjustment % Range	Inlet Connections	Conversion Tables*
299-006-1C	Argon	0–100%	5/8"-18 RH Internal	Argon/helium Argon/oxygen CO ₂ /oxygen
	CO ₂	100–0%		
299-006-3C	Argon	0–100%	5/8"-18 RH Internal	Argon/CO ₂ Argon/oxygen CO ₂ /oxygen
	Helium	100–0%		
299-011-1C**	Argon	50–100%	5/8"-18 RH Internal	Argon/helium Nitrogen/hydrogen Argon/oxygen Argon/CO ₂
	Hydrogen	50–0%	9/16"-18 LH Internal	
299-014-1C	Argon	80–100%	5/8"-18 RH Internal	Argon/CO ₂ Argon/hydrogen Argon/helium Nitrogen/hydrogen
	Oxygen	20–0%		

*Tables provide information needed to use the mixers with alternative gases. **±2% accuracy at 95–100% argon setting.

Accessories



Single Hose for Inert Gas 7294-1

For use with argon/nitrogen (30-150-580) regulator only. Black 6-foot (1.8 m) hose with 1/4-inch (6 mm) diameter and 5/8"-18 RH male connections. *Not for use with hydrogen or oxygen regulators.*



30-150-580 Regulator
Medium-duty argon/nitrogen regulator. 0–150 psig.



30-100-350 Regulator
Medium-duty hydrogen regulator. 0–100 psig.



30-100-540 Regulator
Medium-duty oxygen regulator. 0–100 psig.

System Selector Guide	Proportional Gas Mixer	Inert Gas Hoses Required	Regulator 1	Regulator 2
	299-006-1C	2	30-150-580	30-150-580
	299-006-3C	2	30-150-580	30-150-580
	299-011-1C	1	30-150-580	30-100-350*
	299-014-1C	1	30-150-580	30-100-540*

*Inert gas hose NOT for use with hydrogen (30-100-350) or oxygen (30-100-540) regulators.

Ordering Information

Equipment and Accessories	Stock No.	Description	Qty.	Price
Proportional Gas Mixer	299-006-1C 299-006-3C 299-011-1C 299-014-1C	Argon/CO ₂ Argon/helium Argon/hydrogen Argon/oxygen	See specification chart above for other gases	
Hoses	7294-1	Single hose for use with inert gas		
Regulators	30-150-580	Medium-duty for argon/nitrogen		
	30-100-350	Medium-duty for hydrogen		
	30-100-540	Medium-duty for oxygen		

Date:

Total Quoted Price:

Distributed by:

