

Heavy-Duty Flowmeters and Flowmeter Regulators

Quick Specs

Applications

Welding services
Heavy fabrication
Manufacturing
Shipbuilding

Processes

MIG (GMAW)
TIG (GTAW)

Gas Service

Argon, argon/CO₂ mix, CO₂ and helium

Flow Range 10–160 scfh (5–76 lpm)

Preset Delivery Pressure

22-30 and 35-30 models: 30 psig (2 bar)
22-80 models: 80 psig (6 bar)

Max. Inlet Pressure (Flowmeter Regulators)

3,000 psig (207 bar)

Recommended Inlet Pressure (Flowmeters)

Up to 80 psig (6 bar)

Outlet Connection

5/8"-18 RH internal

CGA Inlet Connection

580 or 320

Temperature Range

-20°–+140°F (-29°–+60°C)

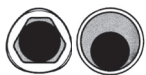
Country of Origin USA

Accurate shielding for best weld quality and gas savings.

Extra-long flow tube with high-visibility green background eases readings from a distance and in low-light conditions.

Expanded multi-scale flow tube made of shatter-resistant polycarbonate resin. Easy to read and accurate within five percent of full reading for inert gases.

Smith self-centering ball guide



Others' conventional flow tube

Exclusive self-centering ball guide provides accurate reading even if tipped. Others use conventional guide where the ball floats off center causing the actual gas flow to be two times greater than indicated.

External pressure relief valve protects regulator from damage due to inadvertent high-pressure surge. Relief valve will release excessive pressure and automatically reset.



Rugged aluminum housing protects flow tube from damage while offering unobstructed view of flow reading.

Easy-to-read 2-inch gauge with shatter-resistant polycarbonate lens cover.



Dual filters including Sure Seat™ protect high-pressure seat from debris for reliable operation and long service life.

22-30-580



Regulators are warranted for three years, parts and labor.



Underwriters Laboratories (UL) Listed



Smith Equipment

A Brand of Miller Electric Mfg. LLC
2601 Lockheed Avenue
Watertown, SD 57201

Equipment Sales US and Canada

Phone: 866-931-9730
International Phone: 920-735-4554

MillerWelds.com



Materials of Construction



22-30-580



35-30-320

The heat exchanger reduces high-flow CO₂ freeze-up.



16530



16531

Heavy-duty single-stage flowmeter regulators

- Body: aluminum
- Bonnet: nylon
- Diaphragm: neoprene
- Tailpiece filter: 35-micron bronze
- Springs: stainless steel, music wire
- Safety seat: EPDM
- Seat: PTFE
- Seat filter: 25-micron nickel-plated bronze
- Seat retainer o-ring: FKM
- Other wetted components: brass
- See third column for flowmeter components
- Net weight: 2.15 lb. (0.98 kg)

Heavy-duty two-stage flowmeter regulator

- Body: brass
- Bonnet: nickel-plated zinc diecast
- Diaphragm: neoprene
- Springs: stainless steel, music wire
- Safety seat: EPDM
- Seat: PTFE
- Seat filter: 25-micron nickel-plated bronze
- Seat retainer o-ring: FKM
- Heat exchanger tube: copper
- Other wetted components: brass
- See third column for flowmeter components
- Net weight: 5.2 lb. (2.36 kg)

Heavy-duty flowmeters

- Housing: aluminum
- Seals and o-rings: Buna-N
- Flow tube: polycarbonate
- Ball float: stainless steel
- Other wetted components: brass
- Net weight: 0.75 lb. (0.34 kg)



Do not connect flowmeter directly to gas cylinder.

Ordering Information

FLOWMETER REGULATOR/ FLOWMETER	STOCK NUMBER	GAS SERVICE	FLOW RANGE	PRESET OUTLET PRESSURE	MAX. INLET PRESSURE	RECOMMENDED INLET PRESSURE	OUTLET CONNECTION	INLET CONNECTION
Heavy-Duty Single-Stage Flowmeter Regulators	22-80-580 22-80-580-6*	Argon/CO ₂	10–80 scfh (5–38 lpm)	80 psig (6 bar)	3,000 psig (207 bar)	—	5/8"-18 RH internal	CGA 580
	22-80-320 22-80-320-6*	CO ₂	10–80 scfh (5–38 lpm)	80 psig (6 bar)	3,000 psig (207 bar)	—	5/8"-18 RH internal	CGA 320
	22-30-580 22-30-580-6*	Argon/CO ₂ Helium	10–55 scfh (5–26 lpm) 10–160 scfh (5–76 lpm)	30 psig (2 bar)	3,000 psig (207 bar)	—	5/8"-18 RH internal	CGA 580
Heavy-Duty Two-Stage Flowmeter Regulator	35-30-320	CO ₂	10–55 scfh (5–26 lpm)	30 psig (2 bar)	3,000 psig (207 bar)	—	5/8"-18 RH internal	CGA 320
Heavy-Duty Flowmeters	16530	Argon/CO ₂	10–80 scfh (5–38 lpm)	—	—	80 psig (6 bar)	5/8"-18 RH internal	1/4" FNPT
	16531	Argon/CO ₂	10–55 scfh (5–26 lpm)	—	—	30 psig (2 bar)	5/8"-18 RH internal	1/4" FNPT
		Helium	10–160 scfh (5–76 lpm)	—	—			

*Includes 6-foot x 1/4-inch inert hose and fittings.

Note: When using argon/CO₂ mix, read argon scale.

Distributed By:

