

Medium-Duty Flowmeters and Flowmeter Regulators

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Gas Equipment 

Quick Specs

Applications

Welding services
Light fabrication
Manufacturing
Shipbuilding

Processes

MIG (GMAW)
TIG (GTAW)

Gas Service

Argon, argon/CO₂ mix, CO₂ and helium

Flow Range 0–160 scfh (0–78 lpm)

Preset Delivery Pressure 50 psig (3 bar)

Max. Inlet Pressure (Flowmeter Regulators)

3,000 psig (207 bar)

Recommended Inlet Pressure (Flowmeters)

50 psig (3 bar)

Outlet Connection

5/8"-18 RH internal

CGA Inlet Connection

580

Temperature Range

-20°–+140°F (-29°–+60°C)

Country of Origin USA

Accurate shielding for best weld quality and gas savings.

SMITH
EQUIPMENT

Shatter-resistant triple-scale flow tube made of shatter-resistant polycarbonate resin can be rotated to position desired scale for easy reading. Scaled for CO₂, argon and argon/CO₂ mix, and helium.

Built-in rupture disc reduces possibility of flow tube damage due to inadvertent high-pressure surge. Disc is user-replaceable if ruptured — not auto-resetting.

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

Precision flow-adjustment valve allows easy adjustment to desired setting.

Easy-to-read 1.5-inch gauge with shatter-resistant polycarbonate lens cover.

H2051B-580

TRUE BLUE
3YR. WARRANTY

Warrantied for three years, parts and labor.



Underwriters Laboratories (UL) Listed



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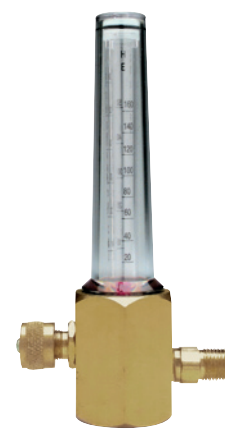
Materials of Construction



H2051B-580



23-50-580



H2230A

Medium-duty single-stage flowmeter regulators

- Body: brass
- Diaphragm: brass piston
- Tailpiece filter: 35-micron bronze
- Springs: music wire
- Seat: PTFE
- Seat filter: 150-micron bronze
- Seals and o-rings: Buna-N
- Flow tube: polycarbonate
- Ball float: glass
- Safety: polyethylene rupture disc
- Other wetted components: brass
- Net weight: 1.95 lb. (0.88 kg)

Medium-duty single-stage dual flowmeter regulator

- Regulator body: aluminum
- Bonnet: nylon
- Diaphragm: neoprene
- Tailpiece filter: 35-micron bronze
- Springs: stainless steel, music wire
- Safety seat: EPDM
- Regulator seat: PTFE
- Seat filter: 25-micron nickel-plated bronze
- Seat retainer o-ring: FKM
- Seals and o-rings: Buna-N
- Other wetted components: brass
- See third column for flowmeter components
- Net weight: 3.75 lb. (1.7 kg)

Medium-duty flowmeters

- Body: brass
- Seals and o-rings: Buna-N
- Flow tube: polycarbonate
- Ball float: glass
- Safety: polyethylene rupture disc
- Other wetted components: brass
- Net weight: 1.15 lb. (0.52 kg)



Install flowmeter to regulator or pipeline. **Do not connect directly to gas cylinder.**

Ordering Information

Stock No.	Gas Service	Flow Range	Preset Delivery Pressure	Max. Inlet Pressure	Recommended Inlet Pressure	Outlet Connection	Inlet Connection
Medium-Duty Single-Stage Flowmeter Regulators							
H2051B-580 H2051B-580H*	Argon, argon/CO ₂	0–60 scfh (0–28 lpm)	50 psig (3 bar)	3,000 psig (207 bar)	—	5/8"-18 RH internal	CGA 580
	CO ₂	0–50 scfh (0–24 lpm)					
	Helium	0–160 scfh (0–78 lpm)					
Medium-Duty Single-Stage Dual Flowmeter Regulator							
23-50-580	Argon, argon/CO ₂	0–60 scfh (0–28 lpm)	50 psig (3 bar)	3,000 psig (207 bar)	—	5/8"-18 RH internal	CGA 580
	CO ₂	0–50 scfh (0–24 lpm)					
	Helium	0–160 scfh (0–78 lpm)					
Medium-Duty Flowmeters							
H2230A H2231A	Argon, argon/CO ₂	0–60 scfh (0–28 lpm)	—	—	50 psig (3 bar)	5/8"-18 RH internal	H2230A: 1/4" NPT male
	CO ₂	0–50 scfh (0–24 lpm)					H2231A:
	Helium	0–160 scfh (0–78 lpm)					5/8"-18 RH external

*Includes 6-foot x 1/4-inch inert hose and fittings.
Note: When using argon/CO₂ mix, read argon scale.

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