

Medium-Duty Flowmeters and Flowmeter Regulators

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.

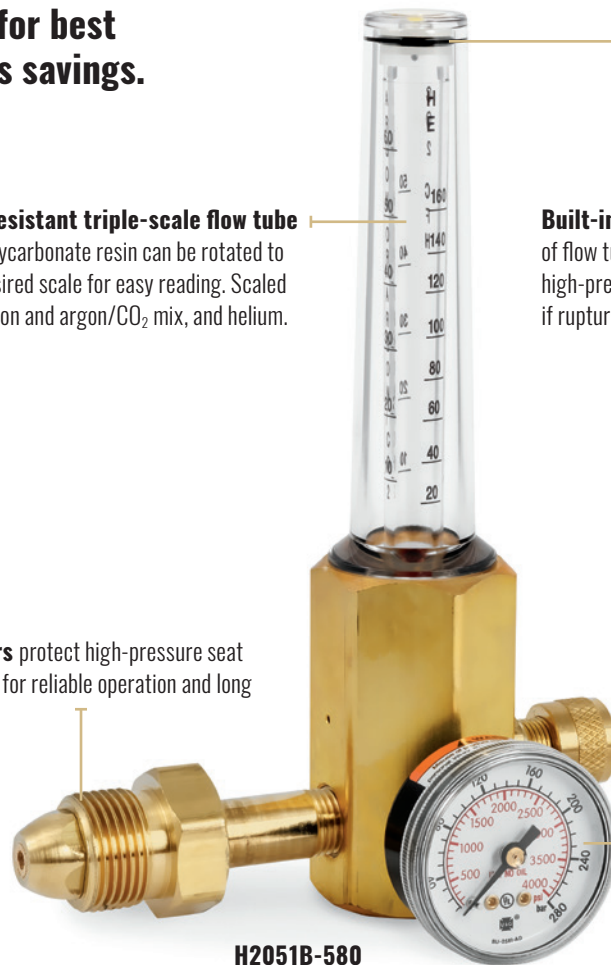
Shatter-resistant triple-scale flow tube made of polycarbonate resin can be rotated to position desired scale for easy reading. Scaled for CO₂, argon and argon/CO₂ mix, and helium.

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 (2-inch gauge on dual model) with shatter-resistant polycarbonate lens cover.



H2051B-580



Regulators are warranted for three years, parts and labor.



Underwriters Laboratories (UL) Listed



Smith Equipment

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Materials of Construction



H2051B-580

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)



23-50-580

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)



H2230A

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)



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
Medium-Duty Single-Stage Flowmeter Regulators	H2051B-580 H2051B-580H*	Argon, argon/CO ₂	0–50 scfh (0–24 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	0–50 scfh (0–24 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	0–50 scfh (0–24 lpm)	—	—	50 psig (3 bar)	5/8"-18 RH internal	H2230A: 1/4" MNPT H2231A: 5/8"-18 RH external
		CO ₂	0–50 scfh (0–24 lpm)					
		Helium	0–160 scfh (0–78 lpm)					

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

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

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