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.



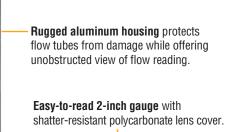
self-centering ball guide



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.





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





Underwriters Laboratories (UL) Listed



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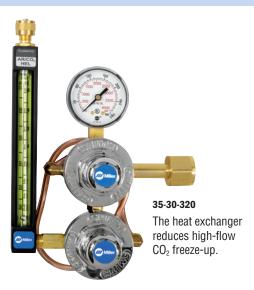


Materials of Construction



Heavy-duty single-stage flowmeter regulators Heavy-duty t

- 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)





16531

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)



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 |
|--|-----------------------|------------------------|-----------------------------|----------------------|-------------------------------|----------------------|---------------------|
| 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 | 10-55 scfh (5-26 lpm) | 30 psig (2 bar) | 3,000 psig (207 bar) | _ | 5/8"-18 RH internal | CGA 580 |
| | Helium | 10-160 scfh (5-76 lpm) | | | | | |
| 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" NPT female |
| 16531 | Argon/CO ₂ | 10-55 scfh (5-26 lpm) | _ | _ | 30 psig (2 bar) | 5/8"-18 RH internal | 1/4" NPT female |
| | Helium | 10-160 scfh (5-76 lpm) | | | | | |

*Includes 6-foot x 1/4-inch inert hose and fittings. Note: When using $argon/CO_2$ mix, read argon scale.

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