



400 Series Regulators

455 Series Regulator

Single Stage

Electroless

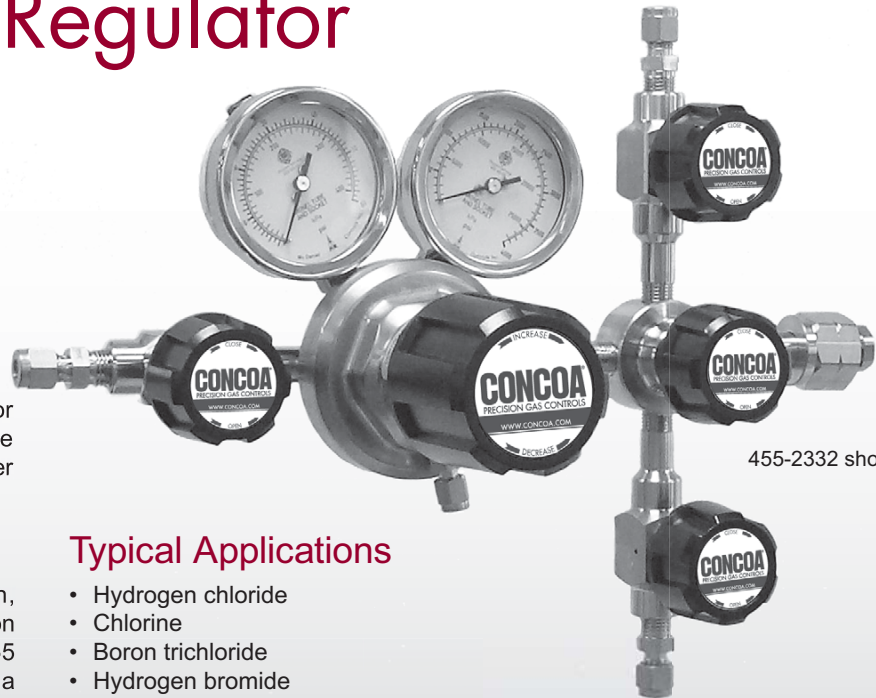
Nickel-plated Forged Brass
Body

Corrosive Service

The 455 Series regulators are intended for primary pressure control of highly corrosive gases such as chlorides, sulfides, and other acid-forming gases.

Deep Purge

For safety and corrosion prevention, CONCOA highly recommends the addition of a Deep Purge assembly to the 455 Series regulator. Completely purging a system prevents the release of hazardous gases into the work place. In addition, the Deep Purge prevents the introduction of moisture to the regulator which forms acids in the body and results in corrosion.



455-2332 shown

Typical Applications

- Hydrogen chloride
- Chlorine
- Boron trichloride
- Hydrogen bromide
- Hydrogen sulfide
- Dichlorosilane

400 Series Advantage

- Nickel-plated forged brass body
Durable, long-lasting construction
- Convuluted 316L SS diaphragm
Sensitive to downstream changes
- Capsule® seat
Serviceability and long life
- Captured vent standard
Safely vent exhaust gases
- Hastelloy® seat assembly
Superior corrosion resistance
- High-load marginal spring
Positive seat closure

Materials

| | |
|----------------|--|
| Body | Electroless nickel-plated forged brass |
| Bonnet | Electroless nickel-plated forged brass |
| Seat | PTFE |
| Nozzle | Hastelloy® |
| Diaphragm | 316L stainless steel |
| Diaphragm Seal | PTFE |

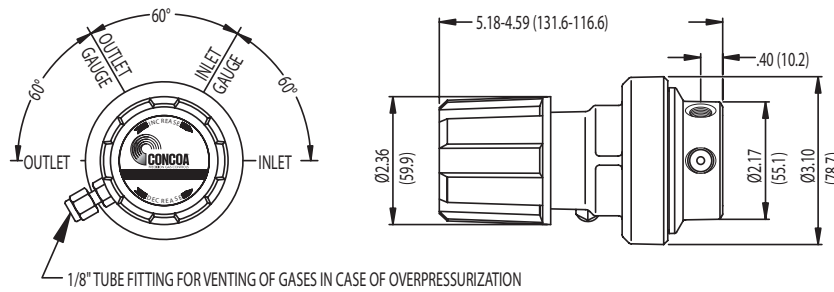
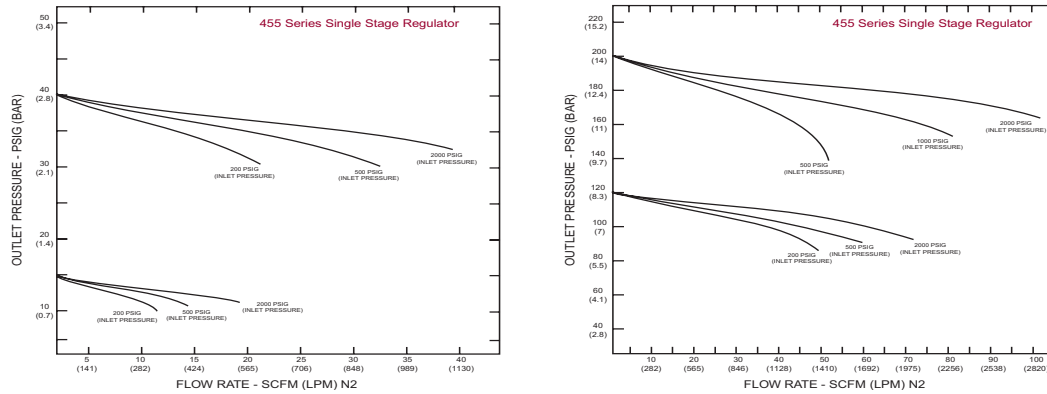
Specifications

| | |
|------------------------|--------------------------------|
| Maximum Inlet Pressure | 3000 PSIG (210 BAR) |
| Temperature Range | -40°F to 140°F (-40°C to 60°C) |
| Gauges | 2½" diameter Monel® |
| Ports | ¼" FPT |
| Helium Leak Integrity | 1 x 10 ⁻⁸ scc/sec |
| Cv | 0.2 |
| Weight (455-2332-660) | 7.23 lbs. (3.28 kg) |

400 Series Regulators



Technical Information



400 Series

Ordering Information

| 455 | A | B | C | D | -Inlet | Options | |
|------------|-----------------|---------------|----------------|--------------------------------------|---|---|-------------------|
| Series 455 | Outlet Pressure | Outlet Gauge | Inlet Gauge | Outlet Assemblies | Assembly/ Gauges | Inlet Connections | Installed Options |
| | 1: 0-15* | 30"-0-30 PSIG | 0: None | 0: 1/4" FPT Port | 0: Bare Body | 000: 1/4" FPT | None |
| | 2: 0-40 | 0-60 PSIG | 3: 0-4000 PSIG | 1: 1/4" MPT | 1: Standard Assembly (PSIG/kPa Gauges) | TF2: 1/8" Tube | |
| | 3: 0-120 | 0-200 PSIG | 5: 0-1000 PSIG | 2: 1/4" Tube Fitting | 2: Deep Purge (PSIG/kPa Gauges) | TF4: 1/4" Tube | |
| | 4: 0-200 | 0-400 PSIG | 6: 0-300 PSIG | 3: Diaphragm Valve 1/4" Tube Fitting | 4: Standard Assembly Without Deep Purge (BAR/PSIG Gauges) | TF6: 3/8" Tube | |
| | | | 7: 0-400 PSIG | 4: Diaphragm Valve 1/4" MPT | 5: Deep Purge (BAR/PSIG Gauges) | M06: 6mm Tube | |
| | | | 8: 0-200 PSIG | 5: Needle Valve 1/4" MPT | | | |
| | | | | 6: 1/8" Tube Fitting | | | |
| | | | | 7: 3/8" Tube Fitting | | | |
| | | | | 8: Diaphragm Valve 1/8" Tube Fitting | | | |
| | | | | 9: Diaphragm Valve 1/4" FPT | | | |
| | | | | M: 6mm Tube Fitting | | | |
| | | | | S: Diaphragm Valve 6mm Tube Fitting | | | |
| | | | | | | CGA DIN 477 BS 341 and others available | |

Related Options

| Options | Order No. | Description |
|----------|-----------|----------------------------------|
| 550-0003 | | Passivation for Fluorine Service |