

Model Numbering Explanation

Single or Two Stage model designations as well as those identifying delivery range are common to all regulators unless otherwise noted on individual ordering charts. When ordering be certain to specify delivery range, CGA inlet connections, and regulator part number.

Regulator Ordering Matrix

| XX ↓ | | XXX ↓ | | X ↓ | XXX ↓ | | | | |
|--------------------|-------------------------------------|----------|------------------|----------------|---------------|-----------------|---------------------------------|---------|-----------------------------|
| Single Stage Model | | Series | | Delivery Range | | CGA Connection* | | | |
| SR | Single Stage | 150 | Light Duty | A | 2-15 psig | CGA 200 | Acetylene (MC) | CGA 580 | Nitrogen, Argon, Helium |
| HSR | Single Stage with Flow Meter | 250 | Medium Duty | B | 2-40 psig | CGA 300 | Acetylene (Commercial) | CGA 590 | Air (Industrial) |
| VTS | Two Stage Design | 350 | Heavy Duty | C | 4-80 psig | CGA 320 | Carbon Dioxide | CGA 660 | Corrosive |
| HVTS | Two Stage with Flow Meter | 450 | Extra Heavy Duty | D | 5-125 psig | CGA 326 | Nitrous Oxide | CGA 677 | Nitrogen, Argon & Helium |
| AR | Air Relieving | | | E | 10-200 psig | CGA 346 | Air (Formerly 1340) | CGA 680 | Nitrogen, Argon |
| S | Station | | | F | 50-750 psig | CGA 347 | Air | CGA 701 | Oxygen |
| L | Line | | | G | 100-1500 psig | CGA 350 | Fuel Gas, Hydrogen | CGA 992 | British Oxygen & Inert Gas |
| HRF | Single Stage w/ Internal Flow Meter | | | J | 200-3000 psig | CGA 500 | Medical Mixtures | CGA 993 | British Fuel Gas |
| AF | Argon Flow Gauge | | | K | 300-4500 psig | CGA 510 | Acetylene (POL) | CGA 996 | Manifold Oxygen & Inert Gas |
| CF | CO2 Flow Gauge | | | | | CGA 510LP | Propane, Natural Gas, Propylene | CGA 997 | Manifold Fuel Gas |
| DL | Dome Loaded | | | | | CGA 520 | Acetylene (B) | CGA 024 | Station Oxygen |
| BSL | Bulk System Line | | | | | CGA 540 | Oxygen | CGA 025 | Station Fuel Gas |
| DFM | Dual Flow Meter | | | | | CGA 555 | Propane, Butane | CGA 034 | Station Inert Gas |
| | | | | | | CGA 577 | Oxygen | | |

Ordering Example:

SR-250-D-540

Single Stage, 250 Series, with 5-125 Delivery Range, for Oxygen Service CGA 540 Inlet

Edge Series Regulator Ordering Matrix

| X ↓ | | XX ↓ | | X ↓ | XXX ↓ | | XXX ↓ | | XX ↓ | | |
|--------|-------------|---------|--------------------------|----------|-----------------|--|----------|----------------------|---------|---------------------|--|
| Series | | Type | | Capacity | | Max Delivery Pressure | | CGA Connection* | | Suffix | |
| E | Edge Series | SS | Single Stage, Side Inlet | 7 | High Flow | 15, 40, 80, 125, 200, 750, 1500, 3000, 4500 | | *Same as above Chart | R | Rear Entry | |
| | | LC | Liquid Cylinder | 4 | High Capacity | | | | A | Acetylene | |
| | | ST | Station | 3 | Medium Capacity | | | | F | Fuel Gas | |
| | | SL | Line | | | | | | X | Oxygen | |
| | | TS | Two Stage | | | | | | LP | Liquified Petroleum | |

Ordering Example:

ESS4-125-510LP

Edge Series Single Stage, High Capacity w/ up to 125 Delivery Range, for Liquid Petroleum Service CGA 510 Inlet

Regulator Delivery Ranges

| | | | |
|---|-------------|---|---------------|
| A | 2-15 psig | F | 50-750 psig |
| B | 2-40 psig | G | 100-1500 psig |
| C | 4-80 psig | J | 200-3000 psig |
| D | 5-125 psig | K | 300-4500 psig |
| E | 10-200 psig | | |

Outlet pressure delivery ranges are not minimum or maximum outlet pressure limits. Regulators can be adjusted to zero psig outlet pressure and generally, to pressures in excess of those specified. The use of these regulators to control pressures outside of the specified ranges is not recommended.

Regulator Gauges

| | | | |
|---------|-------------|---------|---------------|
| A Range | 2-30 psig | F Range | 50-1000 psig |
| B Range | 2-60 psig | G Range | 100-2000 psig |
| C Range | 4-100 psig | J Range | 200-4000 psig |
| D Range | 5-200 psig | K Range | 200-6000 psig |
| E Range | 10-400 psig | | |

When ordering regulators, specify part numbers. Regulators should not be used as a shut-off valve nor should they be used to protect downstream equipment. Unless otherwise noted, high pressure gauges for all oxygen, inert gas, CO₂ and N₂O, and hydrogen models are graduated 200-4000 psig. High pressure gauges for fuel gas models are graduated 10-400 psig. Low pressure or outlet gauge ranges are determined by the regulator delivery range selected.

How to read the Flow Data Charts:

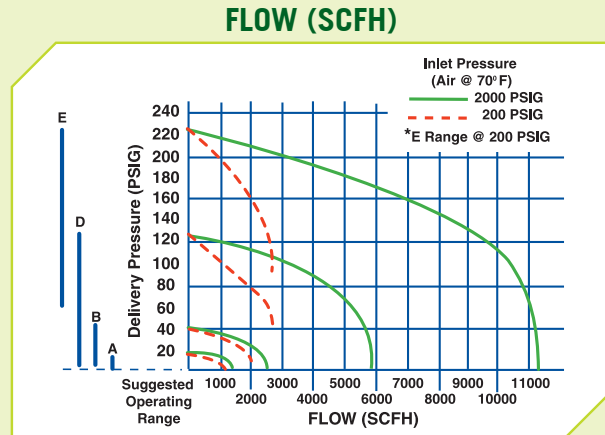
The regulator flow data is provided to assist in determining the proper regulator for the required application. The data is given for reference purposes only. If additional information is necessary contact your local distributor or the Customer Service Department at 1-800-426-1888

The regulator flow data was established by connecting a valve to the regulator outlet. The valve was opened and the flow rates measured. The amount of pressure drop is shown on the curves as the flow increases.

Example

An SR 450D with an inlet of 2000 psig and an internal pressure setting of 125 psig (no flow) will flow 1000 SCFH, but the delivery pressure will drop to 115 lb As the flow increased to 2000 SCFH, the pressure will drop to 108 psig.

With an inlet pressure of 200 psig and an initial setting of 125 psig, the regulator will flow 1000 SCFH with a pressure drop to 98 psig. At 2000 SCFH flow, the pressure will drop to 78 psig. If a delivery pressure other than the ones shown on the flow charts is required, use an average curve rate between the upper and lower pressures shown.



Delivery Pressure Rise

Single stage regulators have an increase in delivery pressure as the cylinder pressure decreases. Listed below is the amount of pressure increase per 100 psig decrease in cylinder (inlet) pressure.

| | |
|---------------|----------------------|
| ESS7-125 | .95 psig |
| ESS7-200 | 1.54 psig |
| ESS4-125-540 | .59 psig |
| ESS3-125-540 | .53 psig |
| SR 4 Series | J & K Range 4.8 psig |
| SR 5 Series | 1.0 psig |
| SR 250 Series | 0.5 psig |
| SR 350 Series | 0.8 psig |
| SR 450 Series | 0.6 psig |
| SR 600 Series | 0.58 psig |
| SR 700 Series | 1.2 psig |

The change in delivery pressure of a Two Stage regulator from full to empty Cylinder (inlet pressure) is negligible.

For Conversion to Other Gases

All flow capacity information is given in SCFH of free air (1.00). For conversion to other gases multiply the air flow by the correction factor listed below.

- Acetylene..... 1.05
- Argon 0.85
- Carbon Dioxide..... 0.81
- Helium 2.69
- Hydrogen 3.79
- Mapp® 0.82
- Natural Gas 1.28
- Nitrogen 1.02
- Oxygen 0.95
- Propane..... 0.80

Pressure Drop Reference Charts

Oxygen Hose

| Delivery Pressure Pounds Per Square Inch | Oxygen Flow SCFH | Pressure Drop Pound Per Square Inch | | | | | | | | | | | | | | | | |
|--|------------------|-------------------------------------|------|------|------|-----------|------|------|------|------------|------|------|------|-----------|------|------|------|-----|
| | | Hose Length in Feet | | | | | | | | | | | | | | | | |
| | | 3/16" Hose | | | | 1/4" Hose | | | | 5/16" Hose | | | | 3/8" Hose | | | | |
| | | 12.5 | 25 | 50 | 100 | 12.5 | 25 | 50 | 100 | 12.5 | 25 | 50 | 100 | 12.5 | 25 | 50 | 100 | |
| 10 | 100 | 5.0 | 6.3 | | | | | | | * | * | * | 2.3 | * | * | * | 2.0 | |
| | 250 | | | | | 9.4 | | | | 2.7 | 4.1 | 5.9 | | * | * | 3.3 | 6.4 | |
| 25 | 100 | 3.6 | 5.7 | 8.2 | 13.4 | * | * | 2.9 | 4.3 | * | * | * | * | * | * | * | * | |
| | 250 | 13.2 | 18.3 | | | 6.3 | 7.9 | 11.7 | 16.8 | * | 2.4 | 3.2 | 6.7 | * | * | * | 3.7 | |
| | 500 | | | | | 21.5 | | | | 6.3 | 8.7 | 12.1 | 19.9 | 2.7 | 4.6 | 6.9 | 11.9 | |
| 50 | 100 | 2.0 | 3.4 | 5.9 | 9.3 | * | * | 2.0 | 2.7 | * | * | * | * | * | * | * | * | |
| | 250 | 8.0 | 12.6 | 19.4 | | 2.7 | 5.0 | 7.9 | 11.0 | * | * | 2.2 | 3.9 | * | * | * | 2.6 | |
| | 500 | | | | | 14.1 | 18.2 | | | 3.4 | 5.9 | 7.7 | 13.3 | * | 2.9 | 4.7 | 8.0 | |
| | 750 | | | | | | | | | 8.8 | 12.3 | 17.8 | | 3.8 | 6.0 | 9.8 | 10.9 | |
| 75 | 100 | * | 2.6 | 3.8 | 7.1 | * | * | * | 2.8 | * | * | * | * | * | * | * | * | |
| | 250 | 6.0 | 9.4 | 13.3 | 23.1 | 3.0 | 3.8 | 6.0 | 8.2 | * | * | * | 2.8 | * | * | * | 2.0 | |
| | 500 | 19.7 | | | | 10.7 | 13.8 | 19.8 | | 2.5 | 3.9 | 6.3 | 9.4 | | | 2.0 | 3.4 | 5.9 |
| | 750 | | | | | 22.5 | | | | 6.6 | 8.8 | 13.7 | 18.8 | 2.7 | 4.1 | 7.0 | 12.2 | |
| | 1000 | | | | | | | | | 11.8 | 14.7 | 22.6 | | 4.9 | 6.9 | 12.0 | 20.3 | |
| 1000 | 100 | * | * | 2.7 | 4 | * | * | * | * | * | * | * | * | * | * | * | * | |
| | 250 | 4.7 | 6.7 | 10.3 | 16.9 | 2.2 | 2.8 | 4.3 | 6.0 | * | * | * | 2.2 | * | * | * | * | |
| | 500 | 14.1 | 21.0 | | | 8.1 | 10.8 | 15.0 | 21.2 | 2.0 | 2.9 | 4.4 | 7.1 | * | * | 2.1 | 4.6 | |
| | 750 | | | | | 17.7 | 23.0 | 32.3 | 42.8 | 4.7 | 6.9 | 10.3 | 15.4 | * | 2.9 | 4.9 | 8.7 | |
| | 1000 | | | | | 31.0 | 37.0 | 53.0 | 68.5 | 8.6 | 11.8 | 17.4 | | 3.1 | 5.2 | 8.8 | 14.4 | |
| | 1500 | | | | | 65.5 | 82.0 | | | 19.1 | | | | 7.7 | 11.8 | 19.4 | | |

REGULATORS

Acetylene Hose

| Delivery Pressure Pounds Per Square Inch | Acetylene Flow SCFH | Pressure Drop Pound Per Square Inch | | | | | | | | | | | | | | | |
|--|---------------------|-------------------------------------|-----|-----|------|-----------|-----|-----|-----|------------|------|------|-----|-----------|-----|-----|------|
| | | Hose Length in Feet | | | | | | | | | | | | | | | |
| | | 3/16" Hose | | | | 1/4" Hose | | | | 5/16" Hose | | | | 3/8" Hose | | | |
| | | 12.5 | 25 | 50 | 100 | 12.5 | 25 | 50 | 100 | 12.5 | 25 | 50 | 100 | 12.5 | 25 | 50 | 100 |
| 5 | 25 | 0.3 | 0.5 | 1.0 | 1.8 | ** | ** | 0.5 | 0.8 | ** | ** | ** | 0.3 | ** | ** | ** | ** |
| | 50 | 1.2 | 2.0 | 3.2 | | 0.5 | 0.9 | 1.3 | 2.4 | ** | 0.3 | 0.4 | 0.7 | ** | ** | 0.3 | 0.4 |
| | 75 | 2.6 | 3.9 | | | 1.2 | 1.8 | 2.6 | 4.5 | 0.4 | 0.5 | 0.8 | 1.4 | ** | 0.3 | 0.5 | 0.8 |
| | 100 | 4.3 | | | | 1.9 | 2.8 | 4.4 | | 0.5 | 0.8 | 1.3 | 2.4 | 0.3 | 0.4 | 0.7 | 1.1 |
| | 150 | | | | | 4.0 | | | | 1.2 | 1.7 | 2.7 | 4.8 | 0.5 | 0.8 | 1.2 | 2.2 |
| 10 | 25 | 0.3 | 0.5 | 0.8 | 1.4 | ** | ** | 0.3 | 0.7 | ** | ** | ** | ** | ** | ** | ** | ** |
| | 50 | 0.9 | 1.6 | 2.5 | 4.9 | 0.5 | 0.7 | 1.1 | 2.0 | ** | ** | 0.3 | 0.6 | ** | ** | ** | 0.3 |
| | 75 | 2.0 | 3.1 | 6.3 | | 0.9 | 1.4 | 2.2 | 3.7 | 0.3 | 0.4 | 0.5 | 0.6 | ** | ** | 0.3 | 0.6 |
| | 100 | 4.5 | 5.4 | | | 1.6 | 2.0 | 3.6 | 6.0 | 0.4 | 0.6 | 0.9 | 2.2 | ** | 0.3 | 0.5 | 1.9 |
| | 150 | 7.0 | | | | 3.2 | 4.5 | 7.3 | | 0.9 | 1.3 | 2.1 | 3.9 | 0.4 | 0.6 | 1.0 | 2.5 |
| | 250 | | | | | 8.1 | | | | 2.3 | 3.5 | 5.2 | 9.8 | 0.9 | 1.4 | 2.5 | 4.4 |
| 14 | 25 | ** | 0.4 | | 1.3 | ** | ** | 0.3 | 0.6 | ** | ** | ** | ** | ** | ** | ** | ** |
| | 50 | 0.8 | 1.4 | | 4.6 | 0.4 | 0.6 | 0.9 | 1.6 | ** | ** | ** | 0.4 | ** | ** | ** | 0.3 |
| | 75 | 1.9 | 2.9 | | 10.0 | 0.8 | 1.2 | 1.9 | 3.0 | ** | 0.3 | 0.5 | 1.0 | ** | ** | 0.3 | 0.5 |
| | 100 | 3.5 | 5.1 | | | 1.4 | 2.0 | 3.0 | 4.7 | 0.3 | 0.6 | 0.7 | 1.7 | ** | 0.3 | 0.4 | 0.8 |
| | 150 | 7.9 | | | | 2.9 | 4.0 | 6.0 | 8.7 | 0.8 | 1.2 | 1.7 | 3.4 | 0.3 | 0.5 | 0.9 | 1.6 |
| | 250 | | | | | 7.4 | 9.5 | | | 2.0 | 3.1 | 4.5 | 8.1 | 0.7 | 1.2 | 2.3 | 3.8 |
| | 500 | | | | | | | | | 8.7 | 10.5 | 13.7 | | 2.9 | 4.0 | 8.1 | 11.5 |

*Indicates pressure drop of less than 2.0 per sq. in.

**Indicates pressure drop of less than 0.2 per sq. in.

To obtain the recommended inlet pressure at the equipment, add the pressure drop figure (shown above) to the delivery pressure at the regulator. Do not exceed 15 psig for acetylene.

Regulator Selection Guide - By Gas Service

Oxygen

| Description | Model | Part Number | Delivery Range (psig) | Gauge Range Inlet | Gauge Range Outlet | CGA Inlet Connection | Outlet Connection | Max Inlet Pressure (psig) | Page Number |
|------------------------------------|---------------|-------------|-----------------------|-------------------|--------------------|----------------------|-------------------|---------------------------|-------------|
| ESS7 High Capacity Single Stage | ESS7-125-540 | 0781-5181 | 5-125 | 4000 | 200 | 540 | 7/8" - 14 M RH | 3000 | 20 |
| ESS7 High Capacity Single Stage | ESS7-200-540 | 0781-5183 | 10-200 | 4000 | 400 | 540 | 7/8" - 14 M RH | 3000 | 20 |
| ESS4 High Capacity Single Stage | ESS4-40-540 | 0781-5154 | 2-40 | 4000 | 60 | 540 | 9/16" - 18 M RH | 3000 | 21 |
| ESS4 High Capacity Single Stage | ESS4-125-540 | 0781-5127 | 5-125 | 4000 | 200 | 540 | 9/16" - 18 M RH | 3000 | 21 |
| ESS4 High Capacity Single Stage | ESS4-200-540 | 0781-5131 | 10-200 | 4000 | 400 | 540 | 9/16" - 18 M RH | 3000 | 21 |
| ESS3 Medium Capacity Single Stage | ESS3-125-540 | 0781-5100 | 5-125 | 4000 | 200 | 540 | 9/16" - 18 M RH | 3000 | 21 |
| SR 450 Heavy Duty Single Stage | SR-450D-540 | 0781-0527 | 5-125 | 4000 | 200 | 540 | 9/16" - 18 M RH | 3000 | 22 |
| SR 350 Heavy/Medium Single Stage | SR-350D-540 | 0781-2341 | 5-125 | 4000 | 200 | 540 | 9/16" - 18 M RH | 3000 | 23 |
| VTS 700 Extra Heavy Duty Two Stage | VTS700E-540 | 0780-0939 | 10-200 | 4000 | 400 | 540 | 9/16" - 18 M RH | 3000 | 24 |
| ETS4 High Capacity Two Stage | ETS4-40-540 | 0781-5217 | 2-40 | 4000 | 60 | 540 | 9/16" - 18 M RH | 3000 | 25 |
| ETS4 High Capacity Two Stage | ETS4-125-540 | 0781-5218 | 5-125 | 4000 | 200 | 540 | 9/16" - 18 M RH | 3000 | 25 |
| ETS4 High Capacity Two Stage | ETS4-200-540 | 0781-5219 | 10-200 | 4000 | 400 | 540 | 9/16" - 18 M RH | 3000 | 25 |
| VTS 250 Medium Duty Two Stage | VTS250A-540 | 0781-3503 | 2-15 | 4000 | 30 | 540 | 9/16" - 18 M RH | 3000 | 25 |
| VTS 250 Medium Duty Two Stage | VTS250B-540 | 0781-3504 | 2-40 | 4000 | 60 | 540 | 9/16" - 18 M RH | 3000 | 25 |
| VTS 250 Medium Duty Two Stage | VTS250C-540 | 0781-3505 | 4-80 | 4000 | 100 | 540 | 9/16" - 18 M RH | 3000 | 25 |
| VTS 250 Medium Duty Two Stage | VTS250D-540 | 0781-3506 | 5-125 | 4000 | 200 | 540 | 9/16" - 18 M RH | 3000 | 25 |
| SR 4 High Pressure | SR4F-540 | 0781-1405 | 30-750 | 4000 | 1000 | 540 | 1/4" Swaglok® | 3000 | 26 |
| SR 4 High Pressure | SR4G-540 | 0781-1425 | 100-1500 | 4000 | 2000 | 540 | 1/4" Swaglok® | 3000 | 26 |
| SR 4 High Pressure | SR4J-540 | 0781-1445 | 200-3000 | 4000 | 4000 | 540 | 1/4" Swaglok® | 3000 | 26 |
| SR 600 High Pressure | SR600-550-540 | 0781-1610 | 5-550 | 6000 | 1000 | 540 | 1/4" Swaglok® | 3000 | 27 |
| ELC4 High Capacity Liquid Cylinder | ELC4-125-540R | 0781-5199 | 5-125 | -- | 200 | 540 | 9/16" - 18 M RH | 3000 | 28 |
| ESL4 High Capacity Line | ESL4-125-250 | 0781-5190 | 5-125 | -- | 200 | 1/4" NPT | 1/4" NPT F | 3000 | 29 |
| EST4 High Capacity Station | EST4-40-024 | 0781-5191 | 2-40 | -- | 60 | 024 | 9/16" - 18 M RH | 200 | 29 |
| EST4 High Capacity Station | EST4-40-024R | 0781-5204 | 2-40 | -- | 60 | 024 | 9/16" - 18 M RH | 200 | 29 |
| EST4 High Capacity Station | EST4-80-024 | 0781-5192 | 4-80 | -- | 100 | 024 | 9/16" - 18 M RH | 200 | 29 |
| EST4 High Capacity Station | EST4-80-024R | 0781-5205 | 4-80 | -- | 100 | 024 | 9/16" - 18 M RH | 200 | 29 |
| EST4 High Capacity Station | EST4-125-024 | 0781-5193 | 5-125 | -- | 200 | 024 | 9/16" - 18 M RH | 200 | 29 |
| EST4 High Capacity Station | EST4-125-024R | 0781-5206 | 5-125 | -- | 200 | 024 | 9/16" - 18 M RH | 200 | 29 |
| L700 High Flow Line | L700C-500 | 0780-1229 | 4-80 | -- | 100 | 1/2" NPT F | 1/2" NPT F | 350 | 30 |
| L700 High Flow Line | L700C-750 | 0780-1220 | 4-80 | -- | 100 | 3/4" NPT F | 3/4" NPT F | 350 | 30 |
| L700 High Flow Line | L700D-500 | 0780-1207 | 5-125 | -- | 200 | 1/2" NPT F | 1/2" NPT F | 350 | 30 |
| L700 High Flow Line | L700D-500PMT | 0780-1236 | 5-125 | -- | 200 | 1/2" NPT F | 1/2" NPT F | 350 | 30 |
| L700 High Flow Line | L700D-750 | 0780-1209 | 5-125 | -- | 200 | 3/4" NPT F | 3/4" NPT F | 350 | 30 |
| L700 High Flow Line | L700E-500 | 0780-1221 | 10-200 | -- | 400 | 1/2" NPT F | 1/2" NPT F | 350 | 30 |
| L700 High Flow Line | L700E-750 | 0780-1222 | 10-200 | -- | 400 | 3/4" NPT F | 3/4" NPT F | 350 | 30 |
| DL700 Dome Load | DL700 | 0780-1188 | 5-125 | -- | -- | 1/2" NPT F | 1/2" NPT F | 500 | 31 |
| BSL Bulk System Line | BSL700 | 0780-1200 | 10-200 | -- | 400 | 1/2" NPT F | 1/2" NPT F | 350 | 31 |

EDGE SERIES COLOR CODING BY GAS TYPE



Regulator Selection Guide - By Gas Service

Acetylene

| Description | Model | Part Number | Delivery Range (psig) | Gauge Range Inlet | Gauge Range Outlet | CGA Inlet Connection | Outlet Connection | Max Inlet Pressure (psig) | Page Number |
|------------------------------------|--------------|-------------|-----------------------|-------------------|--------------------|----------------------|-------------------|---------------------------|-------------|
| ESS7 High Capacity Single Stage | ESS7-15-510 | 0781-5187 | 2-15 | 400 | 30 | 510 | 7/8" - 14 LH | 3000 | 20 |
| ESS7 High Capacity Single Stage | ESS7-200-350 | 0781-5186 | 10-200 | 4000 | 400 | 350 | 7/8" - 14 MLH | 3000 | 20 |
| ESS4 High Capacity Single Stage | ESS4-15-300 | 0781-5133 | 2-15 | 400 | 30 | 300 | 9/16" - 18 MLH | 3000 | 21 |
| ESS4 High Capacity Single Stage | ESS4-15-410 | 0781-4140 | 2-15 | 400 | 30 | 410 | 9/16" - 18 MLH | 3000 | 21 |
| ESS4 High Capacity Single Stage | ESS4-15-510 | 0781-5132 | 2-15 | 400 | 30 | 510 | 9/16" - 18 MLH | 3000 | 21 |
| ESS4 High Capacity Single Stage | ESS4-15-993 | 0781-5134 | 2-15 | 400 | 30 | 993 | 9/16" - 18 MLH | 3000 | 21 |
| ESS4 High Capacity Single Stage | ESS4-15-510 | 0781-5150 | 2-15 | 400 | 30 | 510 | 9/16" - 18 MLH | 3000 | 21 |
| ESS3 Medium Capacity Single Stage | ESS3-15-300 | 0781-5106 | 2-15 | 400 | 30 | 300 | 9/16" - 18 MLH | 3000 | 21 |
| ESS3 Medium Capacity Single Stage | ESS3-15-510 | 0781-5105 | 2-15 | 400 | 30 | 510 | 9/16" - 18 MLH | 3000 | 21 |
| SR 450 Heavy Duty Single Stage | SR460A-300 | 0781-0583 | 2-15 | 400 | 30 | 300 | 9/16" - 18 MLH | 3000 | 22 |
| SR 450 Heavy Duty Single Stage | SR460A-510 | 0781-0584 | 2-15 | 400 | 30 | 510 | 9/16" - 18 MLH | 3000 | 22 |
| SR 350 Heavy/Medium Single Stage | SR360A-300 | 0781-2400 | 2-15 | 400 | 30 | 300 | 9/16" - 18 MLH | 3000 | 23 |
| SR 350 Heavy/Medium Single Stage | SR360A-510 | 0781-2401 | 2-15 | 400 | 30 | 510 | 9/16" - 18 MLH | 3000 | 23 |
| SR 250 Medium Duty Single Stage | SR260A-300 | 0781-0085 | 2-15 | 400 | 30 | 300 | 9/16" - 18 MLH | 3000 | 23 |
| SR 250 Medium Duty Single Stage | SR260A-510 | 0781-0087 | 2-15 | 400 | 30 | 510 | 9/16" - 18 MLH | 3000 | 23 |
| VTS 700 Extra Heavy Duty Two Stage | VTS710A-510 | 0780-0984 | 2-15 | 400 | 30 | 510 | 7/8" - 14 MLH | 3000 | 24 |
| ETS4 High Capacity Two Stage | ETS4-15-300 | 0781-5229 | 2-15 | 400 | 30 | 300 | 9/16" - 18 MLH | 3000 | 29 |
| ETS4 High Capacity Two Stage | ETS4-15-510 | 0781-5230 | 2-15 | 400 | 30 | 510 | 9/16" - 18 MLH | 3000 | 29 |
| ETS4 High Capacity Two Stage | ETS4-15-993 | 07815-2122 | 2-15 | 400 | 30 | 993 | 9/16" - 18 MLH | 3000 | 29 |
| VTS 250 Medium Duty Two Stage | VTS260A-300 | 0781-3583 | 2-15 | 400 | 30 | 300 | 9/16" - 18 MLH | 3000 | 25 |
| VTS 250 Medium Duty Two Stage | VTS260A-510 | 0781-3484 | 2-15 | 400 | 30 | 300 | 9/16" - 18 MLH | 3000 | 25 |
| ESL4 High Capacity Line | ESL4-15-250A | 0781-5208 | 2-15 | -- | 30 | 1/4" NPT F | 1/4" NPT F | 350 | 29 |
| EST4 High Capacity Station | EST4-15-025 | 0781-5194 | 2-15 | -- | 30 | 025 | 9/16" - 18 MLH | 200 | 29 |
| EST4 High Capacity Station | EST4-15-025R | 0781-5209 | 2-15 | -- | 30 | 025 | 9/16" - 18 MLH | 200 | 29 |
| L700 High Flow Line | L710A-500 | 0780-1233 | 2-15 | -- | 30 | 1/2" NPT F | 1/2" NPT F | 350 | 30 |
| L700 High Flow Line | L710A-750 | 0780-1201 | 2-15 | -- | 30 | 3/4" NPT F | 3/4" NPT F | 350 | 30 |



Regulator Selection Guide - By Gas Service

Air

| Description | Model | Part Number | Delivery Range (psig) | Gauge Range Inlet | Gauge Range Outlet | CGA Inlet Connection | Outlet Connection | Max Inlet Pressure (psig) | Page Number |
|-----------------------------------|---------------|-------------|-----------------------|-------------------|--------------------|----------------------|-------------------|---------------------------|-------------|
| ESS4 High Capacity Single Stage | ESS4-125-346 | 0781-5142 | 5-125 | 4000 | 200 | 346 | 5/8" – 18 F LH | 3000 | 21 |
| ESS4 High Capacity Single Stage | ESS4-200-346 | 0781-5145 | 10-200 | 4000 | 400 | 346 | 5/8" – 18 F LH | 3000 | 21 |
| ESS3 Medium Capacity Single Stage | ESS3-125-346 | 0781-5115 | 5-125 | 4000 | 200 | 346 | 5/8" – 18 F LH | 3000 | 21 |
| SR 450 Heavy Duty Single Stage | SR450D-346 | 0781-0532 | 5-125 | 4000 | 200 | 346 | 5/8" – 18 F LH | 3000 | 22 |
| ETS4 High Capacity Two Stage | ETS4-125-346 | 0781-5231 | 5-125 | 4000 | 200 | 346 | 5/8" – 18 F LH | 3000 | 29 |
| ETS4 High Capacity Two Stage | ETS4-200-346 | 0781-5232 | 10-200 | 4000 | 400 | 346 | 5/8" – 18 F LH | 3000 | 29 |
| ETS4 High Capacity Two Stage | ETS4-125-590 | 0781-5224 | 5-125 | 4000 | 200 | 346 | 5/8" – 18 F LH | 3000 | 29 |
| VTS 250 Medium Duty Two Stage | VTS250C-346 | 0781-3510 | 4-80 | 4000 | 100 | 346 | 5/8" – 18 F LH | 3000 | 25 |
| VTS 250 Medium Duty Two Stage | VTS250D-346 | 0781-3512 | 5-125 | 4000 | 200 | 346 | 5/8" – 18 F LH | 3000 | 25 |
| SR 4 High Pressure | SR4F-347 | 0781-1403 | 50-750 | 6000 | 1000 | 347 | 1/4" Swagelok® | 5500 | 26 |
| SR 4 High Pressure | SR4G-346 | 0781-1422 | 100-1500 | 4000 | 2000 | 346 | 1/4" Swagelok | 3000 | 26 |
| SR 4 High Pressure | SR4J-346 | 0781-1442 | 200-3000 | 4000 | 4000 | 346 | 1/4" Swagelok | 3000 | 26 |
| SR 4 High Pressure | SR4K-347 | 0781-1463 | 300-4500 | 6000 | 6000 | 347 | 1/4" Swagelok | 5500 | 26 |
| SR 600 High Pressure | SR600-350-347 | 0781-1605 | 5-350 | 6000 | 600 | 347 | 1/4" Swagelok | 5500 | 27 |
| ESL4 High Capacity Line | ELS4-125-250 | 0781-5190 | 5-125 | -- | 200 | 1/4" NPT F | 1/4" NPT F | 3000 | 29 |
| L700 High Flow Line | L700C-500 | 0780-1229 | 4-80 | -- | 100 | 1/2" NPT F | 1/2" NPT F | 350 | 30 |
| L700 High Flow Line | L700C-750 | 0780-1220 | 4-80 | -- | 100 | 3/4" NPT F | 3/4" NPT F | 350 | 30 |
| L700 High Flow Line | L700D-500 | 0780-1207 | 5-125 | -- | 200 | 1/2" NPT F | 1/2" NPT F | 350 | 30 |
| L700 High Flow Line | L700D-500PMT | 0780-1236 | 5-125 | -- | 200 | 1/2" NPT F | 1/2" NPT F | 350 | 30 |
| L700 High Flow Line | L700D-750 | 0780-1209 | 5-125 | -- | 200 | 3/4" NPT F | 3/4" NPT F | 350 | 30 |
| L700 High Flow Line | L700E-500 | 0780-1221 | 10-200 | -- | 400 | 1/2" NPT F | 1/2" NPT F | 350 | 30 |
| L700 High Flow Line | L700E-750 | 0780-1222 | 10-200 | -- | 400 | 3/4" NPT F | 3/4" NPT F | 350 | 30 |
| DL700 Dome Load | DL700 | 0780-1188 | 5-125 | -- | -- | 1/2" NPT F | 1/2" NPT F | 500 | 31 |

REGULATORS

EDGE SERIES COLOR CODING BY GAS TYPE



Regulator Selection Guide - By Gas Service

Inert Gas - Nitrogen, Argon, Helium

| Description | Model | Part Number | Delivery Range (psig) | Gauge Range Inlet | Gauge Range Outlet | CGA Inlet Connection | Outlet Connection | Max Inlet Pressure (psig) | Page Number |
|------------------------------------|---------------|-------------|-----------------------|-------------------|--------------------|----------------------|-----------------------|---------------------------|-------------|
| ESS7 High Capacity Single Stage | ESS7-125-580 | 0781-5182 | 5-125 | 4000 | 200 | 580 | 7/8" - 14 M RH | 3000 | 20 |
| ESS7 High Capacity Single Stage | ESS7-200-580 | 0781-5185 | 10-200 | 4000 | 400 | 580 | 7/8" - 14 M RH | 3000 | 20 |
| ESS4 High Capacity Single Stage | ESS4-125-580 | 0781-5143 | 5-125 | 4000 | 200 | 580 | 5/8" - 18 F RH | 3000 | 21 |
| ESS4 High Capacity Single Stage | ESS4-200-580 | 0781-5144 | 10-200 | 4000 | 400 | 580 | 5/8" - 18 F RH | 3000 | 21 |
| ESS3 Medium Capacity Single Stage | ESS3-40-580 | 0781-5122 | 2-40 | 4000 | 60 | 580 | 5/8" - 18 F RH | 3000 | 21 |
| ESS3 Medium Capacity Single Stage | ESS3-125-580 | 0781-5116 | 5-125 | 4000 | 200 | 580 | 5/8" - 18 F RH | 3000 | 21 |
| SR 450 Heavy Duty Single Stage | SR450D-580 | 0781-0528 | 5-125 | 4000 | 200 | 580 | 5/8" - 18 F RH | 3000 | 22 |
| SR 450 Heavy Duty Single Stage | SR450E-580 | 0781-0543 | 10-200 | 4000 | 400 | 580 | 5/8" - 18 F RH | 3000 | 22 |
| VTS Extra Heavy Duty Two Stage | VTS700D-580 | 0780-0928 | 5-125 | 4000 | 200 | 580 | 7/8" - 14 M RH | 3000 | 24 |
| VTS Extra Heavy Duty Two Stage | VTS700E-580 | 0780-0943 | 10-200 | 4000 | 400 | 580 | 7/8" - 14 M RH | 3000 | 24 |
| ETS4 High Capacity Two Stage | ETS4-40-580 | 0781-5221 | 2-40 | 4000 | 60 | 580 | 5/8" - 18 F RH | 3000 | 29 |
| ETS4 High Capacity Two Stage | ETS4-125-580 | 0781-5222 | 5-125 | 4000 | 200 | 580 | 5/8" - 18 F RH | 3000 | 29 |
| ETS4 High Capacity Two Stage | ETS4-200-580 | 0781-5223 | 10-200 | 4000 | 400 | 580 | 5/8" - 18 F RH | 3000 | 29 |
| VTS 250 Medium Duty Two Stage | VTS250A-580 | 0781-3507 | 2-15 | 4000 | 30 | 580 | 5/8" - 18 F RH | 3000 | 25 |
| VTS 250 Medium Duty Two Stage | VTS250B-580 | 0781-3508 | 2-40 | 4000 | 60 | 580 | 5/8" - 18 F RH | 3000 | 25 |
| VTS 250 Medium Duty Two Stage | VTS250C-580 | 0781-3509 | 4-80 | 4000 | 100 | 580 | 5/8" - 18 F RH | 3000 | 25 |
| VTS 250 Medium Duty Two Stage | VTS250D-580 | 0781-3513 | 5-125 | 4000 | 200 | 580 | 5/8" - 18 F RH | 3000 | 25 |
| SR 4 High Pressure | SR4F-580 | 0781-1408 | 50-750 | 4000 | 1000 | 580 | 1/4" Swagelok® | 3000 | 26 |
| SR 4 High Pressure | SR4F-680 | 0781-1410 | 50-750 | 6000 | 1000 | 680 | 1/4" Swagelok | 5500 | 26 |
| SR 4 High Pressure | SR4G-580 | 0781-1428 | 100-1500 | 4000 | 2000 | 580 | 1/4" Swagelok | 3000 | 26 |
| SR 4 High Pressure | SR4G-680 | 0781-1430 | 100-1500 | 6000 | 2000 | 680 | 1/4" Swagelok | 5500 | 26 |
| SR 4 High Pressure | SR4J-580 | 0781-1448 | 200-3000 | 4000 | 4000 | 580 | 1/4" Swagelok | 3000 | 26 |
| SR 4 High Pressure | SR4J-680 | 0781-1450 | 200-3000 | 6000 | 4000 | 680 | 1/4" Swagelok | 5500 | 26 |
| SR 4 High Pressure | SR4J-677 | 0781-1453 | 200-3000 | 7500 | 4000 | 677 | 1/4" Swagelok | 7500 | 26 |
| SR 4 High Pressure | SR4K-680 | 0781-1470 | 300-4500 | 6000 | 6000 | 680 | 1/4" Swagelok | 5500 | 26 |
| SR 4 High Pressure | SR4K-677 | 0781-1473 | 300-4500 | 7500 | 6000 | 677 | 1/4" Swagelok | 7500 | 26 |
| SR 600 High Pressure | SR600-350-580 | 0781-1601 | 5-350 | 6000 | 600 | 580 | 1/4" Swagelok | 5500 | 27 |
| SR 600 High Pressure | SR600-350-680 | 0781-1604 | 5-350 | 6000 | 600 | 680 | 1/4" Swagelok | 5500 | 27 |
| SR 600 High Pressure | SR600-550-580 | 0781-1611 | 5-550 | 6000 | 1000 | 580 | 1/4" Swagelok | 3000 | 27 |
| ELC4 High Capacity Liquid Cylinder | ELC4-125-580R | 0781-5200 | 5-125 | -- | 200 | 580 | CGA 032 5/8" - 18 UNF | 3000 | 28 |
| ELC4 High Capacity Liquid Cylinder | ELC4-325-580R | 0781-5202 | 5-325 | -- | 400 | 580 | CGA 032 5/8" - 18 UNF | 3000 | 28 |
| EST4 High Capacity Station | EST4-125-034 | 0781-5189 | 5-125 | -- | 200 | 034 | CGA 032 5/8" - 18 UNF | 200 | 29 |
| EST4 High Capacity Station | EST4-125-034R | 0781-5207 | 5-125 | -- | 200 | 034 | CGA 032 5/8" - 18 UNF | 200 | 29 |
| L700 High Flow Line | L700C-500 | 0780-1229 | 4-80 | -- | 100 | 1/2" NPT F | 1/2" NPT F | 350 | 30 |
| L700 High Flow Line | L700C-750 | 0780-1220 | 4-80 | -- | 100 | 3/4" NPT F | 3/4" NPT F | 350 | 30 |
| L700 High Flow Line | L700D-500 | 0780-1207 | 5-125 | -- | 200 | 1/2" NPT F | 1/2" NPT F | 350 | 30 |
| L700 High Flow Line | L700D-500PMT | 0780-1236 | 5-125 | -- | 200 | 1/2" NPT F | 1/2" NPT F | 350 | 30 |
| L700 High Flow Line | L700D-750 | 0780-1209 | -- | -- | 200 | 3/4" NPT F | 3/4" NPT F | 350 | 30 |
| L700 High Flow Line | L700E-500 | 0780-1221 | 10-200 | -- | 400 | 1/2" NPT F | 1/2" NPT F | 350 | 30 |
| L700 High Flow Line | L700E-750 | 0780-1222 | 10-200 | -- | 400 | 3/4" NPT F | 3/4" NPT F | 350 | 30 |
| DL700 Dome Load | DL700 | 0780-1188 | 5-125 | -- | -- | 1/2" NPT F | 1/2" NPT F | 500 | 31 |
| BSL Bulk System Line | BSL700 | 0780-1200 | 10-200 | -- | -- | 1/2" NPT F | 1/2" NPT F | 350 | 31 |

Regulator Selection Guide - By Gas Service

Inert Gas - Nitrogen, Argon, Helium (continued)

| Description | Model | Part Number | Delivery Range (psig) | Gauge Range Inlet | Gauge Range Outlet | CGA Inlet Connection | Outlet Connection | Max Inlet Pressure (psig) | Page Number |
|---|-------------|-------------|--------------------------------|-------------------|--------------------|----------------------|-----------------------|---------------------------|-------------|
| ESS3-FG Flow Gauge | ESS3-FG-580 | 0781-5120 | 0-40 psig | 4000 | 50 CFH | 580 | CGA 032 5/8" - 18 UNF | 3000 | 32 |
| SLR 100 Surge Limiting Regulator | SLR100 | 0781-1197 | | -- | -- | 030 | | 200 | 34 |
| FM150 Flow Meter Heavy Duty | FM150 | 1000-0268 | 10-60 Air* 10-30 Nit* | -- | -- | 1/4" NPT M | 5/8"-18 RH F | 25 | 35 |
| FM135 Flow Meter Heavy Duty | FM135 | 1000-0255 | 4-18 Argon* 10-50 Helium* | -- | -- | 9/16"-18 RH F | 5/8"-18 RH F | 25 | 35 |
| FM145 Flow Meter Heavy Duty | FM145 | 1000-0256 | 4-18 Argon* 10-50 Helium* | -- | -- | 5/8" RH M | 5/8"-18 RH F | 25 | 35 |
| FM155 Flow Meter Heavy Duty | FM155 | 1000-0257 | 4-18 Argon* 10-50 Helium* | -- | -- | 5/8" NPT M | 5/8"-18 RH F | 25 | 35 |
| FM137 Flow Meter Heavy Duty | FM137 | 1000-0261 | 15-65 Argon* 40-200 Helium* | -- | -- | 9/16"-18 RH F | 5/8"-18 RH F | 25 | 35 |
| FM147 Flow Meter Heavy Duty | FM147 | 1000-0262 | 15-70 Argon* 40-200 Helium* | -- | -- | 5/8"-18 RH M | 5/8"-18 RH F | 25 | 35 |
| FM157 Flow Meter Heavy Duty | FM157 | 1000-0263 | 15-65 Argon* 40-200 Helium* | -- | -- | 1/4" NPT M | 5/8"-18 RH F | 25 | 35 |
| FM370 Flow Meter Heavy Duty | FM370 | 1000-0258 | 5-50 Argon* 20-150 Helium* | -- | -- | 9/16"-18 RH F | 5/8"-18 RH F | 25 | 35 |
| FM371 Flow Meter Heavy Duty | FM371 | 1000-0259 | 5-50 Argon* 20-150 Helium* | -- | -- | 5/8"-18 RH M | 5/8"-18 RH F | 25 | 35 |
| FM372 Flow Meter Heavy Duty | FM372 | 1000-0182 | 5-50 Argon* 20-150 Helium* | -- | -- | 1/4" NPT M | 5/8"-18 RH F | 25 | 37 |
| HRF 2425 Medium Duty Flow Meter Regulator | HRF2425 | 0781-2731 | 10-50 Argon* 20-150 Helium* | -- | -- | 580 | 5/8"-18 RH F | 3000 | 36 |
| HRF2480 Medium Duty Flow Meter Regulator | HRF2480 | 0781-2728 | 7.5-37.5 Argon* | -- | -- | 580 | 5/8"-18 RH F | 3000 | 36 |
| DFM 150 Medium Duty Flow Meter Regulator | DFM150-580 | 0781-1153 | 5-50 Argon* 20-150 Helium* | -- | -- | 580 | 5/8"-18 RH F | 3000 | 36 |
| HSR Medium Duty Flow Meter Regulator Single Stage | HSR2530 | 0781-3819 | 10-60 Nitrogen* | -- | -- | 580 | 5/8"-18 RH F | 3000 | 37 |
| HSR Medium Duty Flow Meter Regulator Single Stage | HSR2535 | 0781-3867 | 4-18 Argon* 10-50 Helium* | -- | -- | 580 | 5/8"-18 RH F | 3000 | 37 |
| HVTS Medium Duty Flow Meter Regulator Two Stage | HVTS2535 | 0781-3775 | 4-18 Argon* 10-50 Helium* | -- | -- | 580 | 5/8"-18 RH F | 3000 | 37 |
| HSR Medium Duty Flow Meter Regulator Single Stage | HSR2537 | 0781-3871 | 15-65 Argon* 40-200 Helium* | -- | -- | 580 | 5/8"-18 RH F | 3000 | 37 |
| HVTS Medium Duty Flow Meter Regulator Two Stage | HVTS2537 | 0781-3772 | 15-65 Argon* 40-200 Helium* | -- | -- | 580 | 5/8"-18 RH F | 3000 | 37 |
| HSR Medium Duty Flow Meter Regulator Single Stage | HSR2570 | 0781-3873 | 5-50* | -- | -- | 580 | 5/8"-18 RH F | 3000 | 37 |
| HSR Medium Duty Flow Meter Regulator Single Stage | HSR2570 | 0781-3869 | 4-40* | -- | -- | 580 | 5/8"-18 RH F | 3000 | 37 |
| HVTS Medium Duty Flow Meter Regulator Two Stage | HVTS2570 | 0781-3774 | 20-150* | -- | -- | 580 | 5/8"-18 RH F | 3000 | 37 |

*Delivery range measured in CFH

EDGE SERIES COLOR CODING BY GAS TYPE



REGULATORS

Regulator Selection Guide - By Gas Service

British Oxygen

| Description | Model | Part Number | Delivery Range (psig) | Gauge Range Inlet | Gauge Range Outlet | CGA Inlet Connection | Outlet Connection | Max Inlet Pressure (psig) | Page Number |
|---------------------------------|--------------|-------------|-----------------------|-------------------|--------------------|----------------------|-------------------|---------------------------|-------------|
| ESS7 High Capacity Single Stage | ESS7-200-992 | 0781-5220 | 10-200 | 4000 | 400 | 992 | 7/8" – 14 M RH | 3000 | 20 |
| ESS4 High Capacity Single Stage | ESS4-200-992 | 0781-5155 | 10-200 | 4000 | 400 | 992 | 9/16" – 18 M RH | 3000 | 21 |
| ESS4 High Capacity Single Stage | ESS4-125-992 | 0781-5128 | 5-125 | 4000 | 200 | 992 | 9/16" – 18 M RH | 3000 | 21 |
| ETS4 High Capacity Two Stage | ETS4-125-992 | 0785-2120 | 5-125 | 4000 | 200 | 992 | 9/16" – 18 M RH | 3000 | 25 |
| ETS4 High Capacity Two Stage | ETS4-200-992 | 0785-2121 | 10-200 | 4000 | 400 | 992 | 9/16" – 18 M RH | 3000 | 25 |
| DL700 Dome Load | DL700 | 0780-1188 | 5-125 | -- | -- | 1/2" NPT F | 1/2" NPT F | 500 | 31 |

Methane/Hydrogen

| Description | Model | Part Number | Delivery Range (psig) | Gauge Range Inlet | Gauge Range Outlet | CGA Inlet Connection | Outlet Connection | Max Inlet Pressure (psig) | Page Number |
|---|---------------|-------------|-----------------------|-------------------|--------------------|----------------------|-------------------|---------------------------|-------------|
| ESS7 High Capacity Single Stage | ESS7-200-350 | 0781-5186 | 10-200 | 4000 | 400 | 350 | 7/8" – 14 M RH | 3000 | 20 |
| ESS4 High Capacity Single Stage | ESS4-125-350 | 0781-5137 | 5-125 | 4000 | 200 | 350 | 9/16" – 18 M LH | 3000 | 21 |
| ESS4 High Capacity Single Stage | ESS4-200-350 | 0781-5138 | 10-200 | 4000 | 400 | 350 | 9/16" – 18 M LH | 3000 | 21 |
| ESS3 Medium Capacity Single Stage | ESS3-40-350 | 0781-5110 | 2-40 | 4000 | 60 | 350 | 9/16" – 18 M LH | 3000 | 21 |
| ESS3 Medium Capacity Single Stage | ESS3-125-350 | 0781-5111 | 5-125 | 4000 | 200 | 350 | 9/16" – 18 M LH | 3000 | 21 |
| ETS4 High Capacity Two Stage | ETS4-40-350 | 0781-5225 | 2-40 | 4000 | 60 | 350 | 9/16" – 18 M LH | 3000 | 25 |
| VTS 250 Medium Duty Two Stage | VTS252A-350 | 0781-3558 | 2-15 | 4000 | 30 | 350 | 9/16" – 18 M LH | 3000 | 25 |
| VTS 250 Medium Duty Two Stage | VTS252B-350 | 0781-3559 | 2-40 | 4000 | 60 | 350 | 9/16" – 18 M LH | 3000 | 25 |
| VTS 250 Medium Duty Two Stage | VTS252C-350 | 0781-3563 | 4-80 | 4000 | 100 | 350 | 9/16" – 18 M LH | 3000 | 25 |
| VTS 250 Medium Duty Two Stage | VTS252D-350 | 0781-3564 | 5-125 | 4000 | 200 | 350 | 9/16" – 18 M LH | 3000 | 25 |
| SR 4 High Pressure Manifold | SR4F-350 | 0781-1404 | 50-750 | 4000 | 1000 | 350 | 1/4" Swagelok® | 3000 | 26 |
| SR 4 High Pressure Manifold | SR4G-350 | 0781-1424 | 100-1500 | 4000 | 2000 | 350 | 1/4" Swagelok | 3000 | 26 |
| SR 4 High Pressure Manifold | SR4J-350 | 0781-1444 | 200-3000 | 4000 | 4000 | 350 | 1/4" Swagelok | 3000 | 26 |
| ESL4 High Capacity Line | ESL4-80-250F | 0781-5210 | 4-80 | -- | 100 | 1/4" NPT F | 1/4" NPT F | 3000 | 29 |
| ESL4 High Capacity Line | ESL4-125-250F | 0781-5211 | 5-125 | -- | 200 | 1/4" NPT F | 1/4" NPT F | 3000 | 29 |
| EST4 High Capacity Station | EST4-80-025 | 0781-5195 | 4-80 | -- | 100 | 025 | 9/16" – 18 M LH | 200 | 29 |
| EST4 High Capacity Station | EST4-80-025R | 0781-5212 | 4-80 | -- | 100 | 025 | 9/16" – 18 M LH | 200 | 29 |
| EST4 High Capacity Station | EST4-125-025 | 0781-5196 | 5-125 | -- | 200 | 025 | 9/16" – 18 M LH | 200 | 29 |
| EST4 High Capacity Station | EST4-125-025R | 0781-5213 | 5-125 | -- | 200 | 025 | 9/16" – 18 M LH | 200 | 29 |
| L700 High Flow Line | L711D-500 | 0780-1199 | 5-125 | -- | 200 | 1/2" NPT F | 1/2" NPT F | 350 | 30 |
| HSR Medium Duty Flow Meter Regulator Single Stage | HSR2533 | 0781-3825 | 5-40* | -- | -- | 350 | 9/16" – 18 M LH | 3000 | 37 |

Nitrous Oxide

| Description | Model | Part Number | Delivery Range (psig) | Gauge Range Inlet | Gauge Range Outlet | CGA Inlet Connection | Outlet Connection | Max Inlet Pressure (psig) | Page Number |
|-------------------------|--------------|-------------|-----------------------|-------------------|--------------------|----------------------|-------------------|---------------------------|-------------|
| ESL4 High Capacity Line | ESL4-125-250 | 0781-5190 | 5-125 | -- | 200 | 1/4" NPT F | 1/4" NPT F | 3000 | 29 |
| DL700 Dome Load | DL700 | 0780-1188 | 5-125 | -- | -- | 1/2" NPT F | 1/2" NPT F | 500 | 30 |

EDGE SERIES COLOR CODING BY GAS TYPE



Regulator Selection Guide - By Gas Service

Carbon Dioxide

| Description | Model | Part Number | Delivery Range (psig) | Gauge Range Inlet | Gauge Range Outlet | CGA Inlet Connection | Outlet Connection | Max Inlet Pressure (psig) | Page Number |
|--|---------------|-------------|-----------------------|-------------------|--------------------|----------------------|-----------------------|---------------------------|-------------|
| ESS4 High Capacity Single Stage | ESS4-200-320 | 0781-5147 | 10-200 | 4000 | 400 | 320 | CGA 032 5/8" – 18 UNF | 3000 | 21 |
| ESS3 Medium Capacity Single Stage | ESS3-125-320 | 0781-5121 | 5-125 | 4000 | 200 | 320 | CGA 032 5/8" – 18 UNF | 3000 | 21 |
| ETS4 High Capacity Two Stage | ETS4-125-320 | 0781-5228 | 5-125 | 4000 | 200 | 320 | CGA 032 5/8" – 18 UNF | 3000 | 25 |
| VTS 250 Medium Duty Two Stage | VTS253A-320 | 0781-3569 | 2-15 | 4000 | 30 | 320 | CGA 032 5/8" – 18 UNF | 3000 | 25 |
| VTS 250 Medium Duty Two Stage | VTS253B-320 | 0781-3573 | 2-40 | 4000 | 60 | 320 | CGA 032 5/8" – 18 UNF | 3000 | 25 |
| VTS 250 Medium Duty Two Stage | VTS253C-320 | 0781-3574 | 4-80 | 4000 | 100 | 320 | CGA 032 5/8" – 18 UNF | 3000 | 25 |
| VTS 250 Medium Duty Two Stage | VTS253D-320 | 0781-3575 | 5-125 | 4000 | 200 | 320 | CGA 032 5/8" – 18 UNF | 3000 | 25 |
| SR 4 High Pressure Manifold | SR4F-320 | 0781-1401 | 50-750 | 4000 | 1000 | 320 | CGA 032 5/8" – 18 UNF | 3000 | 26 |
| ELC4 High Capacity Liquid Cylinder | ELC4-125-320R | 0781-5201 | 5-125 | -- | 200 | 320 | CGA 032 5/8" – 18 UNF | 3000 | 28 |
| ESL4 High Capacity Line | ESL4-125-250 | 0781-5190 | 5-125 | -- | 200 | 1/4" NPT F | 1/4" NPT F | 3000 | 29 |
| DL700 Dome Load | DL700 | 0780-1188 | 5-125 | -- | -- | 1/2" NPT F | 1/2" NPT F | 500 | 30 |
| ESS3-FG Flow Gauge | ESS3-FG-320 | 0781-5119 | 0-40* | 4000 | 50 CFH | 320 | CGA 032 5/8" – 18 UNF | 3000 | 32 |
| SR310 Regulator Adjustable Pressure | SR310 | 0781-0355 | 10-150* | 1500 | 200 | 320 | CGA 032 5/8" – 18 UNF | 1500 | 33 |
| SR311 Flow Meter | SR311 | 0781-0353 | 25-100* | 1500 | -- | 320 | CGA 032 5/8" – 18 UNF | 1500 | 33 |
| SR312 Flow Gauge | SR312 | 0781-0354 | 0-100* | -- | -- | 320 | CGA 032 5/8" – 18 UNF | 1500 | 33 |
| FM200 Heavy Duty Flow Meter | FM200 | 1000-0264 | 30-100* | -- | -- | 1/4" NPT M | 5/8"-18RH M | 30 | 35 |
| FM370 Flow Meter Heavy Duty | FM370 | 1000-0258 | 5-40* | -- | -- | 9/16"-18 RH F | 5/8"-18 RH F | 25 | 35 |
| FM371 Flow Meter Heavy Duty | FM371 | 1000-0259 | 5-40* | -- | -- | 5/8"-18 RH M | 5/8"-18 RH F | 25 | 35 |
| FM372 Flow Meter Heavy Duty | FM372 | 1000-0182 | 5-40* | -- | -- | 1/4" NPT M | 5/8"-18 RH F | 25 | 35 |
| HRF2480 Medium Duty Flow Meter Regulator | HRF2480 | 0781-2727 | 10-38* | -- | -- | 320 | 5/8"-18 RH F | 3000 | 36 |
| HRF2480 Medium Duty Flow Meter Regulator | HRF2480 | 0781-2728 | 7.5-37.5* | -- | -- | 320 | 5/8"-18 RH F | 3000 | 36 |
| DMF150 Medium Duty Flow Meter Regulator | DMF150S | 0781-1206 | 5-40* | -- | -- | 1/4" NPT M | 5/8"-18 RH F | 3000 | 36 |
| HSR Medium Duty Flow Meter Regulator | HSR2530 | 0781-3819 | 10-60* | -- | -- | 580 | 5/8"-18 RH F | 3000 | 37 |

*Delivery Range measured in CFH

L.P. Gas

| Description | Model | Part Number | Delivery Range (psig) | Gauge Range Inlet | Gauge Range Outlet | CGA Inlet Connection | Outlet Connection | Max Inlet Pressure (psig) | Page Number |
|-----------------------------------|----------------|-------------|-----------------------|-------------------|--------------------|----------------------|-------------------|---------------------------|-------------|
| ESS7 High Capacity Single Stage | ESS7-125-510LP | 0781-5188 | 5-125 | 400 | 200 | 510 | 7/8" – 14 M LH | 350 | 20 |
| ESS4 High Capacity Single Stage | ESS4-40-510LP | 0781-5135 | 2-40 | 400 | 60 | 510 | 9/16" – 18 M LH | 350 | 21 |
| ESS4 High Capacity Single Stage | ESS4-125-510LP | 0781-5136 | 5-125 | 400 | 200 | 510 | 9/16" – 18 M LH | 350 | 21 |
| ESS3 Medium Capacity Single Stage | ESS3-40-510LP | 0781-5108 | 2-40 | 400 | 60 | 510 | 9/16" – 18 M LH | 350 | 21 |
| ESS3 Medium Capacity Single Stage | ESS3-125-510LP | 0781-5109 | 5-125 | 400 | 200 | 510 | 9/16" – 18 M LH | 350 | 21 |
| SR450 Heavy Duty Single Stage | SR461B-510 | 0781-0589 | 2-40 | 400 | 60 | 510 | 9/16" – 18 M LH | 350 | 22 |
| SR450 Heavy Duty Single Stage | SR461D-510 | 0781-0595 | 5-125 | 400 | 200 | 510 | 9/16" – 18 M LH | 350 | 22 |
| SR 250 Medium Duty Single Stage | SR261B-510 | 0781-0095 | 2-40 | 400 | 60 | 510 | 9/16" – 18 M LH | 350 | 23 |
| SR 250 Medium Duty Single Stage | SR261C-510 | 0781-0098 | 4-80 | 400 | 100 | 510 | 9/16" – 18 M LH | 350 | 23 |
| VTS 250 Medium Duty Two Stage | VTS261B-510 | 0781-3594 | 2-40 | 400 | 60 | 510 | 9/16" – 18 M LH | 350 | 25 |
| VTS 250 Medium Duty Two Stage | VTS250BL-555 | 0781-3525 | 2-40 | 400 | 60 | 510 | 9/16" – 18 M LH | 350 | 25 |
| ESL4 High Capacity Line | ESL4-80-250F | 0781-5210 | 4-80 | -- | 100 | 1/4" NPT F | 1/4" NPT F | 3000 | 29 |
| ESL4 High Capacity Line | ESL4-125-250F | 0781-5211 | 5-125 | -- | 200 | 1/4" NPT F | 1/4" NPT F | 3000 | 29 |
| EST4 High Capacity Station | EST4-80-025 | 0781-5195 | 4-80 | -- | 100 | 025 | 9/16" – 18 M LH | 200 | 29 |
| EST4 High Capacity Station | EST4-80-025R | 0781-5212 | 4-80 | -- | 100 | 025 | 9/16" – 18 M LH | 200 | 29 |
| EST4 High Capacity Station | EST4-125-025 | 0781-5196 | 5-125 | -- | 20 | 025 | 9/16" – 18 M LH | 200 | 29 |
| EST4 High Capacity Station | EST4-125-025R | 0781-5213 | 5-125 | -- | 200 | 025 | 9/16" – 18 M LH | 200 | 29 |
| L700 High Flow Line | L711D-500 | 0780-1199 | 5-125 | -- | 200 | 1/2" NPT F | 1/2" NPT F | 350 | 30 |

REGULATORS