

ACCESSORIES

Regulator Protocol Station & Panel Mount

Specialty Gas Equipment

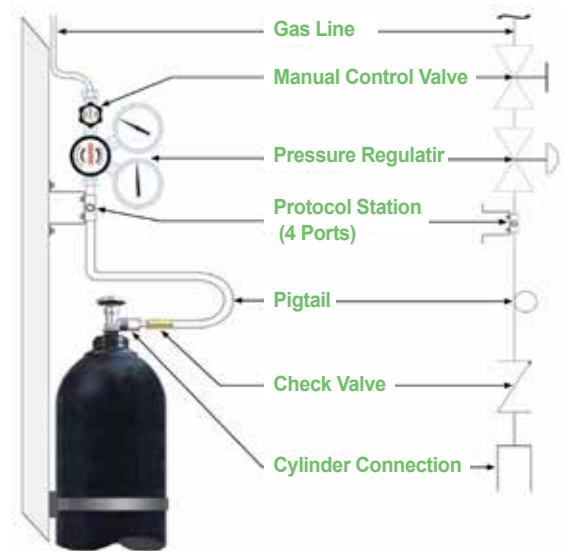
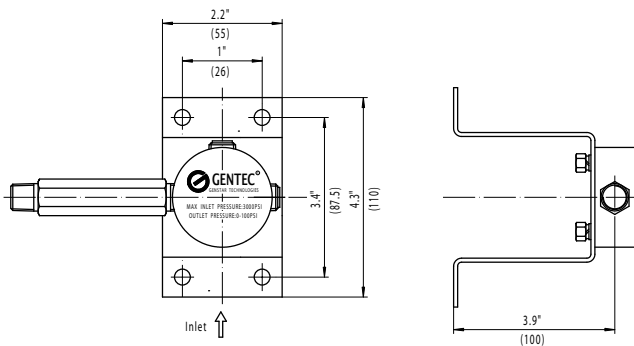
Regulator Protocol Station



Note: Gas Regulators not included with Protocol Station*.

- Designed to provide easy, safe, and fast cylinder exchanges by eliminating the direct connection between the gas regulator and cylinder
- Bracket Mount fits both Single and Dual-Stage Regulators
- Station Blocks are available in Chrome-Plated Brass and 316L Stainless Steel
- Pigtails are equipped with Anti-Whip/Anti-Kink Stainless Steel arm or casing

Panel Mount



| Series | Bracket Style | Inlet Pressure Range | Inlet Connections (on pigtail) | Outlet Connection (to regulator) | Check Valve | Pigtails (36") |
|--|---------------|----------------------|---|----------------------------------|---|----------------------|
| PSSL: 316L PSB: Brass | W: Wall-Mount | D: 3000 psi | 01: 1/4"NPT(M) 22: CGA320 23: CGA330 24: CGA350 Other Connections are available | 01: 1/4"NPT(M) | CV: With Check Valve Leave blank for no check valves | S: 316L T: Teflon |

Gauges



G20SL
Low Mount (LM)



GR20SL
Back Mount (BM)

| Series | Specs. | Wetted | Casing | Connection |
|-------------|--------|--------|---------------------|------------|
| G20P (LM) | | Brass | Nickel-Plated Brass | 1/4" NPT |
| G20SL (LM) | | 316L | 316L | 1/4" NPT |
| GR20SL (BM) | | 316L | 316L | 1/4" NPT |

| 2", Dual Scale, Lower Mount | | | | |
|-----------------------------|-----------------|-----------------------|---------------------|-------|
| Model Number | | Maxium Scale | | Entry |
| Chrome Plated Brass | Stainless Steel | psi/kPa | psi/bar | |
| G20P-V30 | G20SL-V30 | -30in.Hg ~ 30 / 200 | -30in.Hg ~ 30 / 2 | LM |
| G20P-V60 | G20SL-V60 | -30in.Hg ~ 60 / 400 | -30in.Hg ~ 60 / 4 | LM |
| G20P-V100 | G20SL-V100 | -30in.Hg ~ 100 / 700 | -30in.Hg ~ 100 / 7 | LM |
| G20P-V150 | G20SL-V150 | -30in.Hg ~ 100 / 1000 | -30in.Hg ~ 100 / 10 | LM |
| G20P-V200 | G20SL-V200 | -30in.Hg ~ 200 / 1400 | -30in.Hg ~ 200 / 14 | LM |
| G20P-V300 | G20SL-V300 | -30in.Hg ~ 300 / 2000 | -30in.Hg ~ 300 / 20 | LM |
| G20P-30 | G20SL-30 | 30 / 200 | 30 / 2 | LM |
| G20P-60 | G20SL-60 | 60 / 400 | 60 / 4 | LM |
| G20P-100 | G20SL-100 | 100 / 700 | 100 / 7 | LM |
| G20P-160 | G20SL-160 | 160 / 1100 | 160 / 11 | LM |
| G20P-200 | G20SL-200 | 200 / 1400 | 200 / 14 | LM |
| G20P-300 | G20SL-300 | 300 / 2000 | 300 / 20 | LM |
| G20P-600 | G20SL-600 | 600 / 4000 | 600 / 40 | LM |
| G20P-1000 | G20SL-1000 | 1000 / 7000 | 1000 / 70 | LM |
| G20P-1500 | G20SL-1500 | 1500 / 10000 | 1500 / 100 | LM |
| G20P-2000 | G20SL-2000 | 2000 / 14000 | 2000 / 140 | LM |
| G20P-3000 | G20SL-3000 | 3000 / 20000 | 3000 / 200 | LM |
| G20P-4000 | G20SL-4000 | 4000 / 28000 | 4000 / 280 | LM |
| G20P-6000 | G20SL-6000 | 6000 / 40000 | 6000 / 400 | LM |

| 2", Dual Scale, Back Mount | | | |
|----------------------------|-----------------------|---------------------|-------|
| Model Number | Maxium Scale | | Entry |
| Stainless Steel | psi/kPa | psi/bar | |
| GR20SL-V30 | -30in.Hg ~ 30 / 200 | -30in.Hg ~ 30 / 2 | BM |
| GR20SL-V60 | -30in.Hg ~ 60 / 400 | -30in.Hg ~ 60 / 4 | BM |
| GR20SL-V100 | -30in.Hg ~ 100 / 700 | -30in.Hg ~ 100 / 7 | BM |
| GR20SL-V150 | -30in.Hg ~ 100 / 1000 | -30in.Hg ~ 100 / 10 | BM |
| GR20SL-V200 | -30in.Hg ~ 200 / 1400 | -30in.Hg ~ 200 / 14 | BM |
| GR20SL-V300 | -30in.Hg ~ 300 / 2000 | -30in.Hg ~ 300 / 20 | BM |
| GR20SL-30 | 30 / 200 | 30 / 2 | BM |
| GR20SL-60 | 60 / 400 | 60 / 4 | BM |
| GR20SL-100 | 100 / 700 | 100 / 7 | BM |
| GR20SL-160 | 160 / 1100 | 160 / 11 | BM |
| GR20SL-200 | 200 / 1400 | 200 / 14 | BM |
| GR20SL-300 | 300 / 2000 | 300 / 20 | BM |
| GR20SL-600 | 600 / 4000 | 600 / 40 | BM |
| GR20SL-1000 | 1000 / 7000 | 1000 / 70 | BM |
| GR20SL-1500 | 1500 / 10000 | 1500 / 100 | BM |
| GR20SL-2000 | 2000 / 14000 | 2000 / 140 | BM |
| GR20SL-3000 | 3000 / 20000 | 3000 / 200 | BM |
| GR20SL-4000 | 4000 / 28000 | 4000 / 280 | BM |
| GR20SL-6000 | 6000 / 40000 | 6000 / 400 | BM |

Electronic Contact Gauges



GA20SL
Lower Mount (LM)



GRA20SL
Back Mount (BM)



GE20SL
Lower Mount (LM)



GRE20SL
Back Mount (BM)

- Contact: normally close (no pressure)
- Adjustable between 5 and 80% of the scale range
- Maximum power: 10 watts DC, 12 VAAC
- Maximum switch voltage: 28 V AC/DC
- Wetted area and casing: 316L
- Temperature: -40 to 158°F (-40 to 70°C)
- Connection: 1/4" NPT
- Accuracy: 3-2-3 (2%)
- Potential-free relay

| 2", Stainless Steel Contact Gauge, PSI/kPa Dual Scale | | | | | |
|---|--------------|-------------|--------------|--------------|------------|
| Model Number | | | | Maxium Scale | |
| Twist Cap | | Fixed Cap | | | |
| Lower Mount | Back Mount | Lower Mount | Back Mount | psi/kPa | psi/bar |
| GA20SL-100 | GRA20SL-100 | GE20SL-100 | GRE20SL-100 | 100 / 700 | 100 / 7 |
| GA20SL-200 | GRA20SL-200 | GE20SL-200 | GRE20SL-200 | 200 / 1400 | 200 / 14 |
| GA20SL-300 | GRA20SL-300 | GE20SL-300 | GRE20SL-300 | 300 / 2000 | 300 / 20 |
| GA20SL-400 | GRA20SL-400 | GE20SL-400 | GRE20SL-400 | 400 / 2800 | 400 / 28 |
| GA20SL-600 | GRA20SL-600 | GE20SL-600 | GRE20SL-600 | 600 / 4000 | 600 / 40 |
| GA20SL-1500 | GRA20SL-1500 | GE20SL-1500 | GRE20SL-1500 | 1500 / 10000 | 1500 / 100 |
| GA20SL-3000 | GRA20SL-3000 | GE20SL-3000 | GRE20SL-3000 | 3000 / 20000 | 3000 / 200 |
| GA20SL-4000 | GRA20SL-4000 | GE20SL-4000 | GRE20SL-4000 | 4000 / 28000 | 4000 / 280 |

Note: Please consult factory on VCR/FSR gauges or psi/bar and psi/kPa dual scale ranges not listed.

ACCESSORIES

Needle Valves, Relief Valves & Diaphragm Valves

Specialty Gas Equipment

Needle Valves



207CP

SS-NV12-NT4-TF4

- Designed for use with regulator
- Easy control of outlet flow

| Series | Material | Max Working Pressure | Inlet / Outlet Connection |
|-----------------|---------------------|----------------------|---------------------------|
| 207CP | Nickel-Plated Brass | 500 psi | 1/4" NPT(M) x 1/4" NPT(M) |
| SS-NV12-NT4 | 316 | 5000 psi | 1/4" NPT(M) x 1/4" NPT(M) |
| SS-NV12-NT4-TF4 | 316 | 5000 psi | 1/4" NPT(M) x 1/4" GENLOK |

Relief Valves



SS-RV11-100

- Designed for use with regulator
- Relief pressure adjustable

| Series | Material | Pressure Range | Inlet / Outlet Connection |
|--------|-----------------------------------|------------------|---------------------------|
| RV11 | SS: 316 B: Nickel-Plated Brass | 20: 10-20 psi | 1/4" NPT(M) x 1/4" NPT(F) |
| | | 100: 20-100 psi | 1/4" NPT(M) x 1/4" NPT(F) |
| | | 250: 100-250 psi | 1/4" NPT(M) x 1/4" NPT(F) |
| | | 500: 250-500 psi | 1/4" NPT(M) x 1/4" NPT(F) |
| | | 750: 500-750 psi | 1/4" NPT(M) x 1/4" NPT(F) |

Diaphragm Valves



SL-DV51-NT4-FNT4

- Designed for regulator outlet port

| Series | Cv | Max Working Pressure | Inlet / Outlet Connection |
|------------------|------|----------------------|---------------------------|
| SL-DV51-NT4-FNT4 | 0.17 | 300 psi | 1/4" NPT(F) x 1/4" NPT(M) |
| BP-DV51-NT4-FNT4 | 0.17 | 3500 psi | 1/4" NPT(F) x 1/4" NPT(M) |

Please see "Valves" catalog for more information

Check Valves



Please contact GENTEC® for additional sizes or cracking pressure available

| Model | Inlet Connection | Outlet Connection |
|----------------------|------------------|-------------------|
| SS-CV11-TF2-VI-1 | 1/8" GENLOK | 1/8" GENLOK |
| SS-CV11-NT2-VI-1 | 1/8" NPT(M) | 1/8" NPT(M) |
| SS-CV11-FNT2-VI-1 | 1/8" NPT(F) | 1/8" NPT(F) |
| SS-CV11-TF4-VI-1 | 1/4" GENLOK | 1/4" GENLOK |
| SS-CV11-NT4-TF4-VI-1 | 1/4" NPT(M) | 1/4" GENLOK |
| SS-CV11-NT4-VI-1 | 1/4" NPT(M) | 1/4" NPT(M) |
| SS-CV12-FNT4-VI-1 | 1/4" NPT(F) | 1/4" NPT(F) |

Material: 316L | Pressure Rating: 3000 psi | Cracking Pressure: 1 psi | Viton® O-rings standard

Filters



INLINE FILTER

T-TYPE FILTER

Please see "F Series Filters" catalog for more information

| Type | Model | Inlet Connection | Outlet Connection |
|-------------|-------------|------------------|-------------------|
| Inline Type | SS-F4-FNT2 | 1/8" NPT(F) | 1/8" NPT(F) |
| | SS-F4-TF4 | 1/4" GENLOK | 1/4" GENLOK |
| | SS-F4-NT4 | 1/4" NPT(M) | 1/4" NPT(M) |
| T-Type | SS-F4T-FNT2 | 1/8" NPT(F) | 1/8" NPT(F) |
| | SS-F4T-TF4 | 1/4" GENLOK | 1/4" GENLOK |
| | SS-F4T-NT4 | 1/4" NPT(M) | 1/4" NPT(M) |

Material: 316 | Max. Working Pressure: 3000 psi for inline type, 6000 psi for T-type | Washer: 316L | Nominal Pore Size: 0.5-2 microns

Flashback Arrestors



FA33SP



FA34P

- Designed for use with low pressure manifold piping
- Preventing flashbacks from low to high pressure piping

| Model No. | Material | Gas Service | Working Pressure | Delivery Flow | Inlet Connection | Outlet Connection |
|-----------|-----------------|-------------------|------------------|---------------|------------------|-------------------|
| FA33SP | Stainless Steel | Flammable, Oxygen | 50 psi | 1250 SCFH | 1/4"NPT(F) | 1/4"NPT(M) |
| FA34P | Brass | Flammable | 50 psi | 1050 SCFH | 1/4"NPT(F) | 1/4"NPT(F) |

Purge Tools

- Purge assembly is highly recommended when a toxic, corrosive, flammable or ultra high purity gas is used in a system.
- Purge assembly enables users to purge systems of contamination.



SL-P101

- Straight purge connection
- For connection to regulator's high pressure inlet
- For regulators and downstream devices
- Purge gases delivered from regulator's downstream
- Suitable for circular purging



SL-P102

- "T"-design purge connection
- For connection between regulator and cylinder
- Purge of whole gas system
- Purge gases delivered from regulator's downstream
- Suitable for circular purging



SL-P103

- Cross design purge connection
- For connection between regulator and cylinder
- Purge of whole gas system, diaphragm valve controls purging for cylinder valve
- Purge gases relieved from purged port of regulator's downstream

| Series | Inlet Connections | Outlet Connections |
|---------|---|--------------------|
| SL-P101 | 00: 1/4" NPT(F) | 00: 1/4" NPT(F) |
| SL-P102 | 01: 1/4" NPT(M) | 01: 1/4" NPT(M) |
| SL-P103 | C330: CGA330 C350: CGA350 C580: CGA580 C660: CGA660 C590: CGA590 Other connections are available | |

Vacuum Generator



- 316L stainless steel construction
- Cleaned, welded assembled, tested and packaged in Class 10 clean room
- Internal surface finish 0.4 um
- 660 mmHg (100 Torr) vacuum generated with a minimum source nitrogen pressure of 75 psi
- Helium leak tested
- Used in gas delivery systems to assist in purging piping systems

| EX: SL - Material | VG22 - Serial No. | VM4 - N2 Inlet | VM8 - Vent Connection | VSM4 Vacuum Connections | Connections |
|-------------------|-------------------|----------------|-----------------------|-------------------------|--|
| SL: 316L | VG22 | VM4 | VM8 | VM4 VSM4 VSF4 | VM4: 1/4" face seal male VM8: 1/2" face seal male VSM4: 1/4" face seal swivel male VSF4: 1/4" face seal swivel female |

Tube Fittings



| Series | Material | Inlet/Outlet Connection |
|------------------------|---------------------|---------------------------------------|
| R195-51P | Nickel-Plated Brass | 1/4" NPT(M) x 1/4" NPT(M), Connection |
| R952-5503 | 316 Stainless Steel | 1/4" NPT(M) x 1/4" NPT(M), Connection |
| SS-MC-TF4-NT4 | 316 Stainless Steel | 1/4" NPT(M) x 1/4" Genlok, Connection |
| SS-MC-TF6-NT4 | 316 Stainless Steel | 3/8" NPT(M) x 1/4" Genlok, Connection |
| SS-MC-TF8-NT4 | 316 Stainless Steel | 1/2" NPT(M) x 1/4" Genlok, Connection |
| SS-MC-TF8-NT8 | 316 Stainless Steel | 1/2" NPT(M) x 1/2" Genlok, Connection |
| SS-MC-TF12-NT12 | 316 Stainless Steel | 1/2" NPT(M) x 3/4" Genlok, Connection |
| SS-FC-TF2-FNT4 | 316 Stainless Steel | 1/4" NPT(F) x 1/8" Genlok, Connection |
| SS-FC-TF4-FNT4 | 316 Stainless Steel | 1/4" NPT(F) x 1/4" Genlok, Connection |
| SS-FC-TF6-FNT4 | 316 Stainless Steel | 1/4" NPT(F) x 3/8" Genlok, Connection |
| SS-FC-TF8-FNT4 | 316 Stainless Steel | 1/4" NPT(F) x 1/2" Genlok, Connection |
| R155-64JP | Nickel-Plated Brass | 1/2" NPT(M) x 3/8" NPT(F), Straight |
| R155-64KP | Nickel-Plated Brass | 1/2" NPT(M) x 3/8" NPT(M), Straight |
| R155-64EP | Nickel-Plated Brass | 1/2" NPT(M) x 1/2" NPT(M), Straight |
| R982-5502 | 316 Stainless Steel | 1/2" NPT(M) x 3/8" NPT(F), Straight |
| R982-5507 | 316 Stainless Steel | 1/2" NPT(M) x 3/8" NPT(M), Straight |
| R982-5506 | 316 Stainless Steel | 1/2" NPT(M) x 1/2" NPT(M), Straight |
| SS-UE-TF4 | 316 Stainless Steel | 1/4" Genlok x 1/4" Genlok, Elbow |
| SS-UE-TF8 | 316 Stainless Steel | 1/2" Genlok x 1/2" Genlok, Elbow |

Please see "Tube Fittings" catalog for more information

Cylinder Connection Table



• Nuts and nipples are designed for regulator inlet connections.

| BS341 | Model No. | Material | Nut | Nipple | Washer |
|--------|----------------|-----------------------|--------------|---------------|--------|
| NO. 2 | SS-BS341#2-NT4 | Stainless Steel | G5/8-14 | 3" Length | |
| | BP-BS341#2-NT4 | Brass / Nickel-Plated | (Left Hand) | (1/4" NPT) | |
| NO. 3 | SS-BS341-3 | Stainless Steel | G5/8-14 | 3" Length | |
| | BP-BS341-3 | Brass / Nickel-Plated | (Right Hand) | (1/4" NPT) | |
| NO. 4 | SS-BS341-4 | Stainless Steel | G5/8-14 | 3" Length | |
| | BP-BS341-4 | Brass / Nickel-Plated | (Left Hand) | (1/4" NPT) | |
| DIN477 | Model No. | Material | Nut | Nipple | Washer |
| NO. 5 | SS-DIN477-5 | Stainless Steel | 1"-11 | 2-1/2" Length | Nylon |
| | BP-DIN477-5 | Brass / Nickel-Plated | (Left Hand) | (1/4" NPT) | |
| NO. 6 | SS-DIN477-6 | Stainless Steel | W21.8-14 | 2.35" Length | Nylon |
| | BP-DIN477-6 | Brass / Nickel-Plated | (Right Hand) | (1/4" NPT) | |
| NO. 8 | SS-DIN477-8 | Stainless Steel | 1"-11 | 2.35" Length | PTFE |
| | BP-DIN477-8 | Brass / Nickel-Plated | (Right Hand) | (1/4" NPT) | |
| NO. 9 | SS-DIN477-9 | Stainless Steel | G3/4-14 | 2.35" Length | Nylon |
| | BP-DIN477-9 | Brass / Nickel-Plated | (Right Hand) | (1/4" NPT) | |
| CGA | Model No. | Material | Nut | Nipple | Washer |
| 330 | SS-CGA330 | Stainless Steel | 0.830-14NGO | 2" Length | Nylon |
| | BP-CGA330 | Brass / Nickel-Plated | (Left Hand) | (1/4" NPT) | |
| 350 | SS-CGA350 | Stainless Steel | 0.830-14NGO | 2-1/2" Length | Nylon |
| | BP-CGA350 | Brass / Nickel-Plated | (Left Hand) | (1/4" NPT) | |
| 580 | SS-CGA580 | Stainless Steel | 0.960-14NGO | 3" Length | |
| | BP-CGA580 | Brass / Nickel-Plated | (Right Hand) | (1/4" NPT) | |
| 590 | SS-CGA590 | Stainless Steel | 0.960-14NGO | 3" Length | Nylon |
| | BP-CGA590 | Brass / Nickel-Plated | (Left Hand) | (1/4" NPT) | |
| 660 | SS-CGA660 | Stainless Steel | 1.035-14NGO | 2" Length | PTFE |
| | BP-CGA660 | Brass / Nickel-Plated | (Right Hand) | (1/4" NPT) | |

* Note: More connections available upon request.

Wall-Mount Brackets



GMB-R1



GMB-R6

| Model Number | Inlet / Outlet Connection |
|---------------|---|
| GMB-R1 | R21, R22 Bracket |
| GMB-R2 | R31 Bracket |
| GMB-R6 | R11, R12, R14, R15, R21, R22, R44 Bracket |

Pigtails

- Designed for use between cylinder and piping system
- Max. Pressure: GFPT and GFPS Series: 3000 psi (206 bar)
GRPS Series: 4500 psi (310 bar)
- Temp. Range: GFPS and GRPS Series: -325 to 850°F (-200 to 454°F)
GFPT: -65 to 450°F (-53 to 230°C)
- Oxygen Service: Meets CGA G4.1 Specifications for cleanliness



GRPS

| GRPS - Series | C330 - Inlet Connections | CV - Options | 00 - Outlet Connections |
|---|---|--|---|
| GRPS: Stainless Steel Rigid Pigtail | 00: 1/4" NPT(F) C330: CGA330 C350: CGA350 C510: CGA510 C540: CGA540 C580: CGA580 C660: CGA660 | Blank: None CV: with Check Valve FA: with Flashback Arrestor | 00: 1/4" NPT(F) VF: 1/4" Female FSR OD: 1/4" Tube |



GFPT / GFPS

| GFPT Series | 24 - Length | C330 - Inlet Connections | CV - Options | 00 Outlet Connections |
|--|--------------------|---|--|-----------------------|
| GFPT: Stainless Steel Flexible Pigtail with Teflon Insert | 24: 24" 36: 36" | 00: 1/4" NPT(F) C330: CGA330 C350: CGA350 C510: CGA510 C540: CGA540 C580: CGA580 C660: CGA660 | Blank: None CV: with Check Valve FA: with Flashback Arrestor | 00: 1/4" NPT(F) |
| GFPS: Stainless Steel Flexible Pigtail with Stainless Steel Insert | | | | |

MATERIALS OF CONSTRUCTION

GENTEC® Gas Regulators

Specialty Gas Equipment

| Regulator | Application | Material | | | | | | | | Type | | | | Catalog Page |
|-----------|-------------------------------|----------|----|----|-----------|----|---|----|--------------|------------|------|-------|-----|--------------|
| | | Body | | | Diaphragm | | | | Single Stage | Dual Stage | Line | Other | | |
| | | FBR | BR | SS | N | SS | P | HS | | | | | | |
| G152 | General Purpose | • | | | • | | | | • | | | | 05. | |
| G152T | General Purpose | • | | | • | | | | | • | | | 07. | |
| HP152L | High Purity, Medium Flow | • | | | | • | | | | | • | | 09. | |
| HP152 | High Purity, Medium Flow | • | | | | • | | | • | | | | 11. | |
| HP152T | High Purity, Medium Flow | • | | | | • | | | | • | | | 13. | |
| R12B | High Purity, Low Flow | | • | | | • | | | • | | | | 15. | |
| R12SL | High Purity, Low Flow | | | • | | • | | | | | • | | 35. | |
| R12SL | High Purity, Low Flow | | | • | | • | | | • | | | | 37. | |
| R13B | High Purity, Low Flow | | • | | | • | | | • | | | | 17. | |
| R13SL | High Purity, Low Flow | | | • | | • | | | • | | | | 39. | |
| R15SL | High Purity, Medium Flow | | | • | | • | | | | | • | | 41. | |
| R17B | High Purity, High Flow | | • | | | • | | • | • | | | | 19. | |
| R17SL | High Purity, High Flow | | | • | | • | | • | • | | | | 43. | |
| R21B | High Purity, Low Flow | | • | | | • | | | | | • | | 21. | |
| R21B | High Purity, Low Flow | | • | | | • | | | • | | | | 23. | |
| R21SL | High Purity, Low Flow | | | • | | • | | | | | • | | 45. | |
| R21SL | High Purity, Low Flow | | | • | | • | | | • | | | | 47. | |
| R22B | High Purity, Medium Flow | | • | | | • | | | | | • | | 25. | |
| R22SL | High Purity, Medium Flow | | | • | | • | | | | | • | | 49. | |
| R23SL | High Purity, High Flow | | | • | | • | | | • | | | | 51. | |
| R30B | High Purity, Low Flow | | • | | | • | | | • | | | | 27. | |
| R30SL | High Purity, Low Flow | | | • | | • | | | • | | | | 53. | |
| R31B | High Purity, Low Flow | | • | | | • | | | | | • | | 29. | |
| R31SL | High Purity, Low Flow | | | • | | • | | | | | • | | 55. | |
| R34SL | High Purity, Medium Flow | | | • | | • | | • | | | • | | 57. | |
| R42SL | High Pressure, High Flow | | | • | | • | | | • | | | | 59. | |
| R43SL | High Pressure, High Flow | | | • | | • | | | • | | | | 61. | |
| R44SL | High Pressure, Low Flow | | | • | | • | | | • | | | FSR | 63. | |
| R45SL | Ultra High Pressure, Low Flow | | | • | | | | • | | | | | 65. | |
| R51SL | High Purity, Corrosion | | | • | | | | • | • | | | | 67. | |
| R53SL | Tied Diaphragm Regulator | | | • | | • | | • | • | | | | 69. | |
| R54SL | Tied Diaphragm Regulator | | | • | | • | | • | • | | | | 71. | |
| R72B | High Purity, Back Pressure | | • | | | • | | | • | | | | 31. | |
| R72SL | High Purity, Back Pressure | | | • | | | | • | | | | | 73. | |
| R73SL | High Purity, Back Pressure | | | • | | | | • | | | | | 75. | |
| R74SL | Medium Flow, Back Pressure | | | • | | • | | | • | | | | 77. | |
| R75SL | High Flow, Back Pressure | | | • | | • | | | • | | | | 79. | |
| R77B | Back Pressure, Low Flow | | • | | | • | | | • | | | | 33. | |
| R77SL | Back Pressure, Low Flow | | | • | | • | | | • | | | | 81. | |
| R78SL | High Accuracy, Back Pressure | | | • | | • | | | • | | | | 83. | |
| R81SL | Steam Heated Vaporizing | | | • | | • | | | • | | | | 85. | |

FBR = Forged Brass BR = Brass Barstock SS = Stainless Steel N = Neoprene P = Piston HS = Hastelloy FSR = Face Seal

| Pure Gases | Line Regulator | Cylinder Regulators | | |
|---|---|-------------------------------------|--|-----------|
| | Single Stage | Single Stage | Dual Stage | CGA Inlet |
| ACETYLENE • Atomic absorption 99.6% | | G152 | | 510 |
| AIR • Dry • Hydrocarbon Free • Zero | HP152L R21B/HP152L HP152L | G152 R21B/HP152 HP152 | G152T R31B/HP152T HP152T | 590 |
| AMMONIA • Anhydrous | | R21SL | R31SL | 705 |
| ARGON • Research 99.9995% • U.H.P. 99.999% • Prepurified 99.998% • Zero 99.998% • High Purity 99.995% | R21B R21B/HP152L HP152L HP152L | R21B R21B/HP152 HP152 G152 | R31B R31B/HP152T HP152T G152T | 580 |
| BORON TRIFLUORIDE • Minimum Purity 99.5% | | R21SL | R31SL | 330 |
| 1.3 BUTADIENE • Instrument 99.5% • C.P. 99.0% | | G152 G152 | G152T G152T | 510 |
| N-BUTANE • Research 99.9% • C.P. 99.0% | | R21B G152 | R31B G152T | 510 |
| CARBON DIOXIDE • Research 99.998% • Instrument (Coleman) 99.99% • C.P. 99.8% | R21B HP152L HP152L | R21B HP152 G152 | R31B HP152T G152T | 320 |
| CARBON MONOXIDE • Ultra High Purity 99.9% • C.P. 99.0% • Commercial 98.0% | | HP152 G152 | HP152T G152T | 350 |
| CHLORINE • High Purity 99.5% | | R21SL | R31SL | 660 |
| DEUTERIUM • C.P. 99.5% | | R21B | R31B | 350 |
| DIMETHYL ETHER • Purity 99.5% | | R21B | R31B | 510 |
| ETHANE • Research 99.98% • C.P. 99.0% • Technical 98.55% | | R21B G152 G152 | R31B G152T G152T | 350 |
| ETHYLENE • Research 99.98% • C.P. 99.5% • Technical | | R21B HP152 G152 | R31B HP152T G152T | 350 |
| HELIUM • Research 99.9995% • Ultra High 99.999% • Zero 99.995% • High Purity 99.995% | | R21SL R21B R21B R21B | R31SL R31B R31B R31B | 580 |

| Pure Gases | Line Regulator | | Cylinder Regulators | | |
|---|--|---|--|-----------|-----|
| | Single Stage | Single Stage | Dual Stage | CGA Inlet | |
| HYDROGEN | | | | | |
| <ul style="list-style-type: none"> • Research 99.9999% • Ultra High 99.999% • Zero 99.99% • Prepurified 99.99% • Extra Dry 99.95% | | R21SL R21B R21B HP152 | R31SL R31B R31B HP152T | | 350 |
| HYDROGEN CHLORIDE | | | | | |
| <ul style="list-style-type: none"> • Chemical 99.0% | | R21SL/R51SL | R31SL/R51SL | | 330 |
| KRYPTON | | | | | |
| <ul style="list-style-type: none"> • Research 99.995% | | R21SL | R31SL | | 580 |
| METHANE | | | | | |
| <ul style="list-style-type: none"> • Research 99.99% • U.H.P. 99.97% • C.P. 99.0% • Technical 98.0% • Commerical 93.0% | | R21SL R21B HP152 G152 G152 | R31SL R31B HP152T G152T G152T | | 350 |
| NEON | | | | | |
| <ul style="list-style-type: none"> • Research 99.999% • U.H.P. 99.996% • Purified 99.89% | | R21SL R21SL R21SL | R31SL R31SL R31SL | | 580 |
| NITROGEN | | | | | |
| <ul style="list-style-type: none"> • Research 99.9995% • Ultra High 99.999% • Prepurified 99.998% • Zero 99.998% • High Purity 99.99% • Oxygen Free 99.99% • Extra Dry 99.7% | R21SL R21B R21B R21B R21B HP152 | R21SL R21B R21B R21B R21B G152 | R31SL R31B R31B R31B R31B G152T | | 580 |
| NITROUS OXIDE | | | | | |
| <ul style="list-style-type: none"> • U.H.P. 99.99% • Atomic Absorption 99.0% | | R21B G152 | R31B G152T | | 326 |
| OXYGEN | | | | | |
| <ul style="list-style-type: none"> • Research 99.995% • U.H.P. 99.99% • Zero 99.6% • Extra Dry 99.6% | | R21SL R21B R21B R21B | R31SL R31B R31B R31B | | 540 |
| PROPANE | | | | | |
| <ul style="list-style-type: none"> • Research 99.99% • Instrument 99.5% • C.P. 99.0% • Natural 96.0% | | R21B R21B G152 G152 | R31B R31B G152T G152T | | 510 |
| PROPYLENE | | | | | |
| <ul style="list-style-type: none"> • Research • C.P. 99.0% | | R21B G152 | R31B G152T | | 510 |
| SULFUR HEXAFLUORIDE | | | | | |
| <ul style="list-style-type: none"> • Instrument 99.99% • C.P. 99.8% | | R21B G152 | R31B G152T | | 590 |
| XENON | | | | | |
| <ul style="list-style-type: none"> • Research 99.995% | | R21SL | R31SL | | 580 |

| Mixed Gases | Line Regulator | | Cylinder Regulators | |
|------------------------|----------------|--------------|---------------------|-----------|
| | Single Stage | Single Stage | Dual Stage | CGA Inlet |
| AMMONIA | | | | |
| • in Helium | | R21SL | R31SL | |
| • in Air | | R21SL | R31SL | 705 |
| • in Nitrogen | | R21SL | R31SL | |
| ARGON | | | | |
| • in Helium | | R21B | R31B | 580 |
| • in Hydrogen | | R21B | R31B | 350 |
| • in Nitrogen | | R21B | R31B | 580 |
| BUTANE | | | | |
| • in Air | | R21B | R31B | 590 |
| • in Helium | | R21B | R31B | 580 |
| • in Hydrogen | | R21B | R31B | 350 |
| • in Nitrogen | | R21B | R31B | 590 |
| CARBON DIOXIDE | | | | |
| • in Air | | R21B | R31B | 590 |
| • in Helium | | R21B | R31B | 580 |
| • in Hydrogen | | R21B | R31B | 350 |
| • in Nitrogen | | R21B | R31B | 580 |
| • in Oxygen | | R21B | R31B | 296 |
| CARBON MONOXIDE | | | | |
| • in Air | | R21B | R31B | 590 |
| • in Argon | | R21B | R31B | 350 |
| • in Helium | | R21B | R31B | 350 |
| • in Hydrogen | | R21B | R31B | 350 |
| • in Nitrogen | | R21B | R31B | 350 |
| CHLORINE | | | | |
| • in Helium | | R21SL | R31SL | |
| • in Nitrogen | | R21SL | R31SL | 660 |
| ETHANE | | | | |
| • in Air | | R21B | R31B | 590 |
| • in Helium | | R21B | R31B | 350 |
| • in Nitrogen | | R21B | R31B | 350 |
| ETHYLENE | | | | |
| • in Air | | R21B | R31B | 590 |
| • in Helium | | R21B | R31B | 350 |
| • in Nitrogen | | R21B | R31B | 350 |
| HELIUM | | | | |
| • in Argon | | R21B | R31B | 580 |
| • in Nitrogen | | R21B | R31B | 580 |
| HEXANE | | | | |
| • in Air | | R21B | R31B | 590 |
| • in Helium | | R21B | R31B | 350 |
| • in Nitrogen | | R21B | R31B | 350 |
| HYDROGEN | | | | |
| • in Argon | | R21B | R31B | 350 |
| • in Air | | R21B | R31B | 590 |
| • in Nitrogen | | R21B | R31B | 350 |

| Mixed Gases | Line Regulator | Cylinder Regulators | | |
|--------------------------|----------------|---------------------|------------|-----------|
| | Single Stage | Single Stage | Dual Stage | CGA Inlet |
| HYDROGEN CHLORIDE | | | | |
| • in Nitrogen | | R21SL | R31SL | 330 |
| HYDROGEN SULFIDE | | | | |
| • in Air | | R21SL | R31SL | 660/330 |
| • in Helium | | R21SL | R31SL | 330 |
| • in Nitrogen | | R21SL | R31SL | 330 |
| ISOBUTANE | | | | |
| • in Air | | R21B | R31B | 590 |
| • in Helium | | R21B | R31B | 350 |
| • in Nitrogen | | R21B | R31B | 350 |
| METHANE | | | | |
| • in Air | | R21B | R31B | 590 |
| • in Argon | | R21B | R31B | 350 |
| • in Helium | | R21B | R31B | 350 |
| • in Hydrogen | | R21B | R31B | 350 |
| • in Nitrogen | | R21B | R31B | 350 |
| NITRIC OXIDE | | | | |
| • in Argon | | R21SL | R31SL | 660 |
| • in Nitrogen | | R21SL | R31SL | |
| NITROGEN | | | | |
| • in Argon | | R21B | R31B | 580 |
| • in Helium | | R21B | R31B | 580 |
| • in Oxygen | | R21B | R31B | 296 |
| NITROGEN DIOXIDE | | | | |
| • in Air | | R21SL | R31SL | 660 |
| • in Nitrogen | | R21SL | R31SL | |
| OXYGEN | | | | |
| • in Argon | | R21B | R31B | |
| • in Helium | | R21B | R31B | 580/590 |
| • in Nitrogen | | R21B | R31B | |
| PROPANE | | | | |
| • in Air | | R21B | R31B | 590 |
| • in Hydrogen | | R21B | R31B | 350 |
| • in Nitrogen | | R21B | R31B | 350 |
| PROPYLENE | | | | |
| • in Air | | R21B | R31B | 590 |
| • in Nitrogen | | R21B | R31B | 350 |
| SULFUR DIOXIDE | | | | |
| • in Air | | R21SL | R31SL | |
| • in Argon | | R21SL | R31SL | 660 |
| • in Helium | | R21SL | R31SL | |
| • in Nitrogen | | R21SL | R31SL | |

| Instrument Mixtures | Line Regulator | Cylinder Regulators | | |
|---|----------------|---------------------|------------|-----------|
| | Single Stage | Single Stage | Dual Stage | CGA Inlet |
| CHROMATOGRAPH CARRIER GAS 8.5% Hydrogen 91.5% Helium | | R21B | R31B | 350 |
| ELECTRON CAPTURE MIXTURE P-5 Gas Mixture 5% Methane in Argon | | R21B | R31B | 350 |
| FLAME IONIZATION FUEL MIXTURES 40% Hydrogen 60% Nitrogen | | R21B | R31B | 350 |
| FURNACE ATMOSPHERE MIXTURES 40% Carbon Dioxide 60% Carbon Monoxide | | R21B | R31B | 350 |
| NUCLEAR COUNTER MIXTURE 0.95% ISO Butane 99.05% Helium | | HP152 | HP152T | 350 |
| LEAK DETECTION MIXTURE 1-10% Helium in Nitrogen | | R21B | R31B | 580 |

| Nuclear Counter Mixture | Line Regulator | Cylinder Regulators | | |
|---|----------------|---------------------|------------|-----------|
| | Single Stage | Single Stage | Dual Stage | CGA Inlet |
| P-10 GAS MIXTURE 10% Methane 90% Argon | | R21B | R31B | 350 |
| PROPORTIONAL COUNTING MIXTURE 4% ISO Butane 96% Helium | | R21B/HP152 | R31B | 350 |
| 1.5% ISO Butane 98.5% Helium | | R21B | R31B | 350 |