

ACCESSORIES

Regulator Protocol Station & Panel Mount

Specialty Gas Equipment

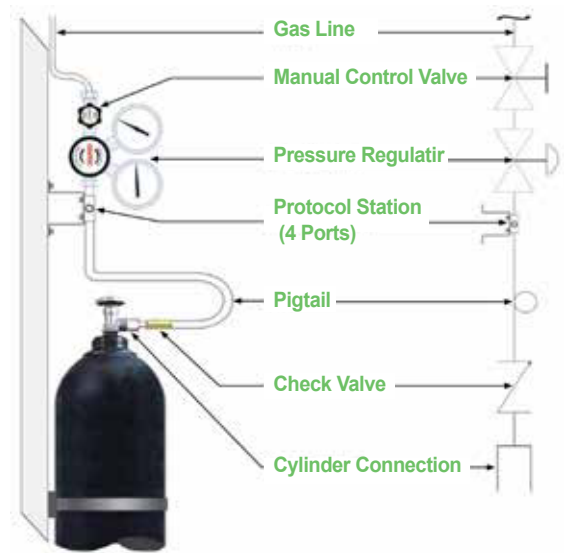
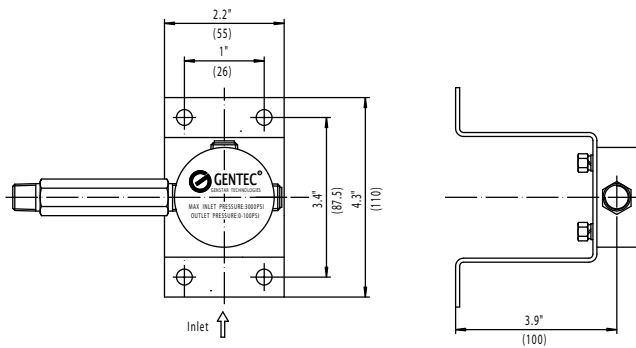
Regulator Protocol Station



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



SS-MC-TF4-NT4



SS-UE-TF4



SS-FC-TF4-FNT4



R952-5503

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	
• in Helium		R21SL	R31SL	660
• 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