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Regulator

60-

CPR-1 Series Compact Stainless Steel Pressure

The CPR-1 Series is a compact pressure regulator with most of the same internal design features employed in our time proven PR-1 series. This regulator was designed to provide optimum performance as a "lecture bottle regulator" for pressure control in any application where a small size and low internal volume are required. The low internal volume allows more rapid purging in analytical instrumentation and semiconductor doping gas applications.

Features & Specifications

- · Internal dead volume less than 4cc
- · Gas or liquid service
- · 316L stainless steel or aluminum body
- Stainless steel diaphragm
- 40 micron inlet filter
- · Bubble tight shutoff
- Outlet pressure 0–10, 0–25, 0–50, 0–100, 0–250, 0–500* and 0–750*
- C_v flow 0.025 and 0.06
- Operating temperatures -40°F (-40°C) to +500°F (+260°C)
- Inlet/outlet connections 1/8 FNPT
- * not with Viton® seat

Options

- Panel mount (requires 1 3/8" mounting hole)
- · Special welded connections
- Pressure gauges

2301 Wardlow Circle Corona, CA 92880 tel 909.270.6200 fax 909.270.6201 www.goreg.com sales@goreg.com

Fred C. Gilbert Co. 106 Norris Road Bakersfield, Ca. 93308 661-399-9569 fax 661-393-9654

CPR-1 Series Compact Stainless Steel Pressure Regulator

How to Order

See page 25 for standard configurations. For additional configurations, consult the factory. See page 37 for port locations.

	Maximum		Maximum Operating
Seat Material	Temperature*	@	Inlet Pressure
Tefzel®	150° F (66° C)	@	3600 psiG (24.82 MPa)
High Density Teflon®	150° F (66° C)	@	3600 psiG (24.82 MPa)
PCTFE (formerly Kel-F81)	175° F (80° C)	@	6000 psiG (41.37 MPa)
Polyimide	500° F (260° C)	@	3600 psiG (24.82 MPa)
Polyimide	175° F (80° C)	@	6000 psiG (41.37 MPa)
PEEK	500° F (260° C)	@	3600 psiG (24.82 MPa)
PEEK	175° F (80° C)	@	6000 psiG (41.37 MPa)

Maximum Temperature and Control Pressures

* Temperatures in excess of 175° F (80° C) require a metal knob or the tamper proof option. Viton®, Tefzel® and Teflon® are registered trademarks of Dupont Corporation.



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Entern

PR-1 Series Adjustable Pressure Control Regulator

The PR-1 Series is a versatile specialty pressure reducing control regulator designed to fulfill a wide range of needs in instrumentation sample systems and other applications such as semiconductor processing gases. The many features of the PR-1 make it ideal for a wide range of applications controlling pressures at low to moderate flows in gas or liquid service. 316L material is used to facilitate welded connections. Stainless steel caps and adjusting screws prevent atmospheric corrosion and maintain appearance. Enhanced internal body surface finish of better than 25 Ra plus electropolishing allows easier cleaning and potentially less particle contamination in the flow stream.

Five different seat materials, three alternate orifice sizes and seven pressure control ranges with stainless diaphragms offer the user a wide spectrum of capabilities for pressure control with inlet pressures up to 6000 psig and standard operating temperatures up to 500° F (260° C).

 Adjustable outlet pressure ranges of 0–10, 0–25, 0–50, 0–100, 0–250,

Operating temperatures of -40° F

Bubble tight shutoff under most

C_v flow coefficients 0.02, 0.06, 0.20

(-40° C) up to +500° F (+260° C)

0-500 and 0-750 psig

20 micron filters

and 0.50 (0.06 std.)

conditions

Features & Specifications

- · Gas or liquid service
- Stainless steel (316L), Inconel, Teflon® and Tefzel® only in flow stream
- Electropolished 316L body with better than 25 Ra diaphragm cavity surface finish
- Stainless steel cap with SS adjusting screw
- · Inlet pressures of up to 6000 psi

Options

· Wetted materials of construction: · Relief valves Monel, Hastelloy and Titanium · Special diaphragm assembly for water · Diaphragm attached poppet service · Special fittings SS inlet pressure gauges · Diaphragm assist spring for vacuum SS outlet pressure gauges purging · Base mounting brackets Larger orifice size of 0.2 C_v and 0.5 C_v , smaller orifice size of 0.025 C_v Captured vent • Panel mount (1 3/8" mounting hole) Self-relieving

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3

PR-1 Series Adjustable Pressure Control Regulator

How to Order

See page 26 for standard configurations. For additional configurations, consult the factory. See page 37 for port locations.

Seat Material	Maximum Temperature*	@	Maximum Operating Inlet Pressure
Tefzel®	150° F (66°C)	@	3600 psiG (24.82 MPa)
High Density Teflon®	150° F (66° C)	@	3600 psiG (24.82 MPa)
PCTFE (formerly Kel-F-81)	175° F (80° C)	@	6000 psiG (41.37 MPa)
Polyimide	500° F (260 ° C)	@	3600 psiG (24.82 MPa)
Polyimide	175° F (80° C)	@	6000 psiG (41.37 MPa)
PEEK	500° F (260 ° C)	@	3600 psiG (24.82 MPa)
PEEK	175° F (80° C)	@	6000 psiG (41.37 MPa)

Maximum Temperature & Operating Inlet Pressures

* Temperatures in excess of 175° F (80° C) require a metal knob or the tamper proof option. Tefzel® and Teflon® are registered trademarks of Dupont Corporation.



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PR-2 Series Economy Brass Pressure Reducing Regulator

The PR-2 Series are compact brass body regulators designed for maximum flexibility in many classes of instrumentation service. Specifically designed for gas applications, this regulator is capable of accepting high pressures directly from cylinders and other high pressure, non-corrosive systems. It is ideally suited for carrier gas pressure regulation, yet it is economical enough to use in lowpressure air systems such as instrument cabinet air purge service.

Features & Specifications

- · Gas or liquid service
- · Brass (alloy 360) construction
- · Stainless steel diaphragm with Teflon® lining
- Stainless steel poppet
- Better than 25 Ra finish in diaphragm cavity
- 20 micron inlet filter
- · Bubble tight shutoff
- Outlet pressure ranges 0–10, 0–25, 0–50, 0–100, 0–250, 0–500 and 0–750 psig
- Operating temperatures -40° F (-40° C) to +175° F (+80° C)
- Inlet and outlet connection 1/4" FNPT

Options

- 1/8" or 3/8" FNPT connections
- Panel mount (requires 1 3/8" mounting hole)
- Extra ports
- Pressure gauges

PR-2 Series Economy Brass Pressure Reducing Regulator

How to Order

See page 27 for standard configurations. For additional configurations, consult the factory. See page 37 for port locations.

	Maximum		Maximum Operating
Seat Material	Temperature*	@	Inlet Pressure
Tefzel®	150° F (66° C)	@	3600 psiG (24.82 MPa)
High Density Teflon®	150° F (66° C)	@	3600 psiG (24.82 MPa)
PCTFE (Formerly Kel-F-81)	175° F (80° C)	@	3600 psiG (24.82 MPa)
Polyimide	175° F (80° C)	@	3600 psiG (24.82 MPa)
PEEK	175° F (80° C)	@	3600 psiG (24.82 MPa)

Maximum Temperature & Operating Inlet Pressures

* Temperatures in excess of 175° F (80° C) require the use of a metal knob or the tamper proof option. Tefzel® and Teflon® are registered trademarks of Dupont Corporation.



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Regulator



PR-5 Series High Flow Adjustable Pressure Reducing

The PR-5 Series pressure regulator is designed for service at high flows with good sensitivity and regulation. While the design was originated for gas systems, this valve is perfectly suitable for liquid systems that are compatible with the materials of construction. Also of interest is the fact that while being able to perform with moderately high flows, this valve also provides very good performance in flow ranges of only a few liters per minute.

This series is a variation of the time proven PR-1 Series which has been used for many applications in systems requiring stainless steel construction. The exact package size of the PR-1 has been retained making it convenient for the user to interchange these units if better control at high flow rates is required.

Features & Specifications

- · High flow capability in compact size
- Minimum droop with large flow increases
- Bubble tight shutoff with Viton® or Kalrez® seat
- Stainless steel cap & adjusting screw provided with stainless steel unit
- Materials of construction stainless steel, brass, Teflon®, Viton® & Kalrez®
- 20 micron inlet filter
- Options
- Panel mount (requires 1 3/8" mounting hole)
- Extra ports
- Special welded connections
- Pressure gauges

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- Operating temperatures up to +400° F (+204° C)
- Ideal for line regulator applications
- Teflon®/Viton® diaphragm
- Inlet pressure 300 psig
- Adjustable outlet ranges 0–10, 0–25, 0–50, 0–100, & 0–250 psig
- C_v flow coefficient 0.20

7

PR-5 Series High Flow Adjustable Pressure Reducing Regulator

How to Order

See page 28 for standard configurations. For additional configurations, consult the factory. See page 37 for port locations.

	Maximum		Maximum Operating
Seat Material	Temperature*	@	Inlet Pressure
Viton®	400° F (204° C)	@	300 psiG (2.07 MPa)
EPR	150° F (66° C)	0	300 psiG (2.07 MPa)
Buna N	150° F (66° C)	@	300 psiG (2.07 MPa)
Kalrez®	400° F (204° C)	@	300 psiG (2.07 MPa)

Maximum Temperature & Operating Inlet Pressures

* Temperatures in excess of 175° F (80° C) require the use of a metal knob or the tamper proof option. Viton®, Tefzel® and Teflon® are registered trademarks of Dupont Corporation.

Outline and Mounting Dimensions



8

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PR-7 Series Ultra Flow Adjustable Pressure Control Valve

The PR-7 Series has been designed for those applications using high gas flow rates while still requiring a compact package. In addition, this unit will handle hydrogen flows up to 1000 liters per minute with none of the resonance problems typical with many regulators attempting such an application.

While designed for gas flow applications with low inlet pressures and low differential pressures, this valve has been constructed to withstand inlet pressures up to 3600 psig. With capability of holding outlet pressures closely with large changes of flow requirements, this valve is very suitable as a primary pressure supply to other pressure regulators located downstream.

Features & Specifications

- Minimal droop with large flow increased
- · No resonance with large hydrogen flows
- Stainless steel diaphragm
- Stainless steel (316L) or brass construction
- T-handle adjusting assembly for easier adjustment in the 250 and 500 psig ranges
- Material of construction: brass, stainless steel, Viton®, Teflon® or PEEK
- Stainless steel cap
- C_v flow coefficient = 1.1
- Operating temperatures up to +250°F (+121°C)
- · Maximum inlet pressure of 3600 psig with PEEK seat
- Outlet pressure ranges of: 0–10, 0–25, 0–50, 0–100, 0–250 & 0–500 psig

Options

- Self relieving
- Panel mount

PR-7 Series Ultra Flow Adjustable Pressure Control Valve

How to Order

See page 29 for standard configurations. For additional configurations, consult the factory. See page 37 for port locations.

Maximum Temperature & Operating Inlet Pressures

Up to 100 psig Outlet Pressure				
Maximum Maximum Operating				
Seat Material	Temperature*	@	Inlet Pressure	
Teflon®	150° F (66° C)	@	1000 psiG (6.90 MPa)	
PEEK	250° F (121° C)	@	3600 psiG (24.82 MPa)	
Viton®	250° F (121° C)	@	300 psiG (2.07 MPa)	
Kalrez®	250° F (121° C)	@	300 psiG (2.07 MPa)	

* Temperatures in excess of 175° F (80° C) require the use of a metal knob or the tamper proof option.

0–250 psig Outlet Pressure (Hand Knob)				
Maximum Maximum Operating				
Seat Material	Temperature*	@	Inlet Pressure	
Teflon®	150° F (66° C)	@	500 psiG (3.45 MPa)	
Viton®	250° F (121° C)	0	300 psiG (2.07 MPa)	
Kalrez®	250° F (121° C)	@	300 psiG (2.07 MPa)	

Temperatures in excess of 175° F (80° C) require the use of a metal knob or the tamper proof option.

0–250 & 0–500 psig Outlet Pressures (T Handle or Tamper Proof)			
	Maximum	Maximum Operating	
Seat Material	Temperature*	@	Inlet Pressure
Teflon®	150° F (66° C)	@	1000 psiG (6.90 MPa)
PEEK	250° F (121° C)	@	3600 psiG (24.82 MPa)

* Temperatures in excess of 175° F (80° C) require the use of a metal knob or the tamper proof option. Teflon®, Viton® and Kalrez® are registered trademarks of Dupont Corporation.



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PR-7LF Series High Sensitivity Pressure Reducing Regulator

The PR-7LF Series pressure reducing regulator is designed to furnish precise low outlet pressure control to analytical instrumentation. With the combination of the large diaphragm sensing area of the PR-7 Series regulator and the low flow seat assembly of the PR-1 Series pressure regulator, pressure control down to 10 inches of water is easily obtainable.

The PR-7LF Series of regulators are available in a choice of Stainless Steel or Brass construction, special alloys are available on special request.

Features & Specifications

- Sensitive pressure control
- · Low pressure adjustability
- · Stainless steel or brass construction
- Optional Monel or Hastelloy C construction
- 20 Micron Inlet filter
- Optional special fittings including VCR® compatible face seal (male or female)
- Inlet pressure to 3600 psig
- Adjustable outlet pressure ranges 0–6, 0–25, 0–50, 0–75, 0–125 & 0–250 psig
- C_v flow coefficient of 0.025; 0.06; 0.20; 0.50
- Teflon®/Viton® diaphragm
- Stainless steel (316L) or Brass, Inconel, Tefzel® & Teflon® in the flow stream
- Operating temperatures -40° F (-40° C) to +250° F (+121° C)
- Inlet and outlet connections 1/4" FNPT

PR-7LF Series High Sensitivity Pressure Reducing Regulator

How to Order

See page 30 for standard configurations. For additional configurations, consult the factory. See page 37 for port locations.

	Maximum		Maximum Operating
Seat Material	Temperature*	@	Inlet Pressure
Teflon®	150° F (66° C)	@	3600 psiG (24.82 MPa)
Tefzel®	150° F (66° C)	@	3600 psiG (24.82 MPa)
PCTFE (formerly Kel-F 81)	175° F (80° C)	@	3600 psiG (24.82 MPa)
Viton®	250° F (121° C)	@	300 psiG (2.07 MPa)
Kalrez®	250° F (121° C)	@	300 psiG (2.07 MPa)

Maximum Temperature & Operating Inlet Pressures

* Temperatures in excess of 175° F (80° C) require the use of a metal knob or the tamper proof option. Viton®, Tefzel®, VCR®, Teflon and Kalrez® are trademarks of their respective companies.



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PR-7ULF Series Pressure Reducing Regulator

The PR-7ULF Series pressure reducing regulator is designed to furnish ultra precise low outlet pressure control to analytical instrumentation. With the combination of the large diaphragm sensing area of the PR-7 Series regulator and a super low flow valve seat assembly, pressure control down to 1 inch of water at 2 cc of flow is easily obtainable.

Features & Specifications

- · Gas service
- 316L stainless steel or Brass (alloy 360) construction
- Teflon® / Viton® diaphragm
- Electropolished body (316L) with better than 25 Ra finish in diaphragm cavity
- 20 micron inlet filter
- · Bubble tight shutoff
- · Outlet pressure ranges are 25 and 50 psig
- Viton® seat
- 0.004 C_v flow coefficient

PR-7ULF Series Pressure Reducing Regulator

How to Order

See page 31 for standard configurations. For additional configurations, consult the factory. See page 37 for port locations.

Maximum Temperature & Operating Inlet Pressures

	Maximum		Maximum Operating
Seat Material	Temperature	@	Inlet Pressure
N/A	120° F(49° C)	@	250 psiG (1.73 MPa)



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PR-9 Series High Temperature Stainless Steel Pressure Regulator

The PR-9 Series high temperature pressure regulator is designed for the pressure control of gases and liquids up to 1000° F. All metal components in and out of the flow stream provide the user with extended reliability in rigorous high temperature ambient and process applications. This regulator can also be used in applications where no elastomers are allowed in the flow stream. The PR-9 is equipped with a metal-to-metal seat and will not provide bubble tight shutoff. If shutoff is required, a high temperature shutoff valve must be placed upstream of this regulator

Features & Specifications

- 650° F (340° C) or 1000° F (540° C)
- · All metal construction, no elastomers
- · Gas or liquid service
- Inlet pressure 3000 psig at 650° F (343° C) 1500 psig at 1000° F (538° C)
- Adjustable outlet pressure ranges of 0-25, 0-50, 0-100 and 0-250 psig
- · Stainless steel (316L or 347), Inconel, Tungsten Carbide in flow stream
- C_v flow coefficient of 0.06 and 0.2
- · Metal to metal seat seal
- Inlet and outlet connections 1/4" FNPT
- Operating temperature -382° F (-200° C) to +1000° F (+540° C)

Options

- 3/8" FNPT connection and 1/4" pipe stub
- Panel mount (requires 1 3/8" mounting hole)
- · Extra inlet and outlet ports
- · Special welded connections

PR-9 Series High Temperature Stainless Steel Pressure Regulator

How to Order

See page 32 for standard configurations. For additional configurations, consult the factory. See page 37 for port locations.

Maximum Temperature & Operating Inlet Pressures

	Maximum		Maximum Operating
Seat Material	Temperature*	@	Inlet Pressure
316 SS	650° F (343° C)	@	3000 psiG (20.68 MPa)
347 SS	1000° F (538° C)	@	1500 psiG (10.34 MPa)

* Temperatures in excess of 175° F (80° C) require the use of a metal knob or the tamper proof option.







PR-11 Series Ultra Sensitive Pressure Control Regulator

This precision pressure regulator has been designed to allow the user complete flexibility in application. The instrument design engineer can now choose the optimum operating parameters he needs for a particular flow system.

Flow and pressure regulation can now be easily and economically accomplished in laboratory and process chromatographs, air pollution analyzers and other general process and laboratory instruments. The low internal volume and no trapped areas mean efficient operation and cleanliness in instrumentation with high sensitivity detectors. The standard stainless diaphragm prevents permeability of undesired contaminants into the flow stream.

This regulator offers greater pressure and flow stability for critical applications such as chemiluminescent type analyzers and is considered the ultimate in maximum stability with ambient temperature change. The PR-11 Series has truly been designed by experienced instrumentation engineers for use in that industry.

Features & Specifications

- · Single stage precision regulation in a compact design package
- · Bubble tight shutoff
- · Pressure gauge and relief valve ports optional
- Teflon® lined stainless steel or Viton® diaphragm standard
- Outlet pressure ranges 0–10, 0–25, 0–50, 0–100, 0–250 and 0–500 psig
- · 20 micron inlet filter
- · Suitable for gas or liquid service
- Panel mounting 1/2" diameter, standard
- 1/8" FNPT connections
- · Inlet pressures to 3600 psig
- Materials in contact with operating media are aluminum, 300 series stainless steel, Viton®, Teflon® and Inconel

Options

- 1/4" FNPT connection
- Extra ports
- Pressure gauges
- Panel mount, (requires a 1 3/8" mounting hole)

PR-11 Series Ultra Sensitive Pressure Control Regulator

How to Order

See page 33 for standard configurations. For additional configurations, consult the factory. See page 37 for port locations.

	Maximum		Maximum Operating
Seat Material	Temperature*	@	Inlet Pressure
Viton®	225° F (107° C)	@	33 psiG (2.07 MPa)
Tefzel®	150° F (66° C)	@	3600 psiG (24.82 MPa)
High Density Teflon®	150° F (66° C)	@	3600 psiG (24.82 MPa)
PCTFE (formerly Kel-F-81)	175° F (80° C)	@	3600 psiG (24.82 MPa)
Polyimide	175° F (80° C)	@	3600 psiG (24.82 MPa)
PEEK	175° F (80° C)	@	3600 psiG (24.82 MPa)

Maximum Temperature & Operating Inlet Pressures

* Temperatures in excess of 175° F (80° C) require a metal knob or the tamper proof option. Viton®, Tefzel® and Teflon® are registered trademarks of Dupont Corporation.



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SPR Series Subatmospheric Pressure Regulator

The SPR Series Subatmospheric Pressure Regulator is designed for the introduction of a low vapor pressure reactive or purge gas into a subatmospheric process The large diameter diaphragm provides optimum sensitivity for subsatmospheric or positive pressure control.

Standard features allow service in many varied applications including corrosive fluids and, with the optional features available, the user can tailor this regulator to applications ranging from semiconductor processing to analytical instrumentation.

Features & Specifications

- Subatmospheric or positive pressure control
- 20 Micron inlet filter
- 316L stainless steel or brass construction
- Large stainless steel diaphragm with Teflon® lining for optimal pressure control
- Inlet pressure range from 15–160 psia (0–145 psig)
- Adjustable outlet pressure range of 1–30 psia (27.88 in. Hg 15.3 psig)
- C_v flow coefficient of 0.2
- · Bubble tight shutoff
- Operating temperatures -40° F (-40° C) to +250° F (+121° C)
- Inlet/outlet connections 1/4" FNPT

Options

- High purity welded connections
- Class 100 assembly
- · Extra ports
- Panel mount (requires 1 3/8" mounting hole)
- Pressure gauges

SPR Series Subatmospheric Pressure Regulator

How to Order

See page 34 for standard configurations. For additional configurations, consult the factory. See page 37 for port locations.

Maximum Temperature & Operating Inlet Pressures

	Maximum		Maximum Operating
Seat Material	Temperature*	@	Inlet Pressure
Tefzel®	150° F (66° C)	@	145 psiG (100 kpa)
Vitron®	250° F (121° C)	@	145 psiG (100 kpa)
Kalrez®	250° F (121° C)	@	145 psiG (100 kpa)

* Temperatures in excess of 175° F (80° C) require the use of a metal knob or the tamper proof option. Teflon®, Tefzel®, Viton® and Kalrez® are registered trademarks of Dupont Corporation.



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CPR-5 Series Compact Stainless Steel Pressure Regulator

The CPR-5 Series pressure control valve is designed for service at high flows with good sensitivity and regulation utilizing a small footprint. While the design was originated for gas systems, this valve is perfectly suitable for liquid systems that are compatible with the materials of construction. Also of interest is the fact that while being able to perform with moderately high flows, this valve also provides very good performance in flow ranges of only a few liters a minute.

This series is a variation of the time proven CPR-1 Series which has been used for many applications in systems requiring stainless steel construction. The exact package size of the CPR-1 has been retained making it convenient for the user to interchange these units if better control at higher flows is required.

Features & Specifications

- · Gas or liquid service
- · 316L stainless steel construction
- Teflon®/Viton® diaphragm
- · Electro polished body with better than 25 Ra finish in diaphragm
- 40 micron inlet filter
- · Bubble tight shutoff
- Outlet pressure ranges are 0–10, 0–25, 0–50, 0–100 and 0–250 psig
- C_v flow coefficient 0.2

CPR-5 Series Compact Stainless Steel Pressure Regulator

How to Order

See page 35 for additional configurations. For additional configurations, consult the factory. See page 37 for port locations.

	Maximum		Maximum Operating		
Seat Material	Temperature	@	Inlet Pressure		
Viton®	400° F (204° C)	@	300 psiG (2.07 MPa)		
EPR	150° F (66° C)	@	300 psiG (2.07 MPa)		
Buna N	150° F (66° C)	@	300 psiG (2.07 MPa)		
Kalrez®	400° F (204° C)	@	300 psiG (2.07 MPa)		

Maximum Temperature & Operating Inlet Pressures

Viton® and Kalrez® are registered trademarks of Dupont Corporation.



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LG-1 Series **Ultra Miniature Pressure Regulators**

The LG-1 is an ultra-miniature pressure regulator that employs many of the same features found in the time-tested design of the CPR-1 & PR-1 Series pressure regulators. Designed for surface, panel or manifold mounting, the LG-1 offers the utmost in versatility to the systems designer. It's low internal volume of less than 2.7cc makes the LG-1 the perfect choice for systems that require rapid purge cycles. Standard features permit using this regulator in a wide variety of services, including corrosive fluids. The LG-1 can be tailored to virtually any application by utilizing the optional features. All of this is attainable while achieving as low as 0.2% accuracy during supply pressure fluctuations. This regulator is designed to allow the construction of compact and sophisticated analytical instrumentation where the optimum in pressure control is required and space is at a premium.

Features & Specifications

- · Gas or liquid service
- 316L stainless steel construction
- Internal volume is less than 2.7cc
- Electropolished body with better than 25 Ra finish in diaphragm cavity
- 20 micron inlet filter
- · Bubble tight shutoff
- Outlet pressure ranges are 0–10, 0–25, 0–50, 0–100, 0–250 and 0–500 psig
- C_v flow coefficient 0.025 or 0.06

LG-1 Series Ultra Miniature Pressure Regulator

How to Order

See page 36 for standard configurations. For additional configurations, consult the factory. See page 37 for port locations.

Seat Material	Maximum Temperature*	@	Maximum Operating Inlet Pressure
Tefzel®	150° F (66° C)	@	3600 psiG (24.82 MPa)
High Density Teflon®	150° F (66° C)	@	3600 psiG (24.82 MPa)
PCTFE (formerly Kel-F 81)	175° F (80° C)	@	6000 psiG (41.37 MPa)
Dohimido	500° F (260° C)	@	3600 psiG (24.82 MPa)
Polyimide	175° F (80° C)	@	6000 psiG (41.37 MPa)
DEEK	500° F (260° C)	@	3600 psiG (24.82 MPa)
FEEN	175° F (80° C)	@	6000 psiG (41.37 MPa)

Maximum Temperature & Operating Inlet Pressures

 $^{*}\,$ Temperatures in excess of 175° F (80° C) require the use of a metal knob or the tamper proof option.

Viton® and Teflon® are registered trademarks of Dupont Corporation.

Outline and Mounting Dimensions



24





Page	2	7		PR-2 Series - Pressure Reducing Regulator																
			Ма 2	ťi Bra	Material of Body															
			8	Bra	ass, Chrome Plated															
						Port Configuration (Ref. Dwg. 102086)														
					A	COST PER ADDITIONAL STANDARD PORT (SEE PORTING CHART)														
						Process port types (gauge port type, if specified)														
						4	4 3/8" FNPT (1/4" FNPT Gauge Ports)													
						0	1/8	" FN	PT (1/8	5" FN	PIC	Jaug	je P	orts)	Si	ırfac	e	Finisł	of Dia	aphragm Cavity
								1	< 25 R	la, St	anda	ard								
							A Tefzel													
							B CF Teflon C Polvimide													
							H PCTFE (formerly Kel-F 81)													
							I High Density Teflon													
																			Flow C	oefficient (Cv)
											3 5	0.06 0.2								
										(С Н	0.02	5							
											ľ	0.0								Outlet Range
												C	;	0 - 10 0 - 2	0 P 5 P	sig sia				
												E		0 - 5	0 P	sig				
												G		0 - 10 0 - 2	00 I 50 I	Psig Psia				
												J		0 - 5	00	Psig				
													/	0 - 7:	50 1	Psig				Diaphragm Type
													-	1		Stand Dianh	dar	rd Diap	hragm	Ponnet
														3		Self F	Rel	lieving	aonea i	oppor
													-	4		Vacu	un un	n Assis n Assis	t Spring	I, Standard Diaphragm
														6		Vacu	un	n Assis	t Spring	, Self Relieving
													Ľ	7		Liqui	d S	Service	-	
																1		Teflon	L /SS	Diaphragm Facing / Backing
																2		Teflon	/ Viton	
															L	6		Tefzel	Ring / S	S Can Assembly
																		1	Standa	ird, Aluminum
																		3	1" Pan	el Mount, Aluminum
																	Ī	5	Captur	ed Vent, Aluminum
																	-	6	Captur	ed Vent, Panel Mount, Aluminum
																	ŀ	<u>8</u> 9	Fine A	r Proof, Aluminum diust. 1/2" Panel Mount. Aluminum
																	l	0	Fine A	djust, 1 3/8" Panel Mount, Aluminum
																	ļ	A	Captur	ed Vent, Tamper Proof, Aluminum
																	l		rampe	Optional Cap Finish
																			1	Chrome Plated
																				Electroless Nickel Plated
ΡR	2	-																•		
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PORT LOCATIONS (SINGLE STAGE PRESSURE REGULATOR)

