Pressure Regulating System

- Sample input pressure up to 500 psig (optional 3000 psig)
- 316 SS, Tefzel and Viton wetted parts
- Compact design – suitable for mounting at the sample take-off point
- Adjustable sample output pressure between 0 to 50 psig
- System shut-off valve (optional)
- Built-in guard filter for system protection

FEATURES

Many analytical methods are very sensitive to fluctuation in sample pressure. With the pressure regulating system, we are able to eliminate the inaccuracy in the analyzer reading caused by fluctuating sample pressure. The high-precision adjustable pressure regulator and gauge allows regulation of the sample input pressure to the analyzer(s). The pressure regulating system can be mounted at the sample take-off point, reducing the hazards associated with high pressure sample line. The lower sample pressure reduces the sample lag time and 60 micron guard filter prevents any damage to the pressure regulator and the analyzer(s). A relief valve is included to eliminate any accidents due to over pressurization and a sample shut-off valve is available to isolate the analyzer system for any preventive mainte-nance. The pressure regulating system can be used as a stand-alone system or it can also be used in conjunc-tion with other Rosemount Analytical sample system modules.

APPLICATIONS

- High-pressure header gas systems
- Bulk gas supply line
- Air liquefaction plants
- Low-range photometric measurements

SPECIFICATIONS

SAMPLE CONDITIONS

Inlet pressure: 10-500 psig (optionally up to 3000 psig)

Output pressure: 0-50 psig

Inlet temperature: -20 to 175°F (-29 to 79°C)

Flowrate: Up to 10 lpm

Phase: Single phase gas samples only

Particulate loading: None. Designed for clean pre-filtered samples only

Ambient temperature: -20 to 175°F (-29 to 79°C)
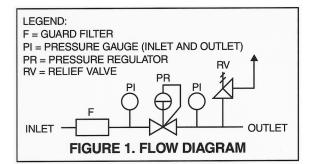
Fittings: All fittings will be 1/4" tube fitting

Wetted parts: 316 Stainless Steel, Tefzel, Viton
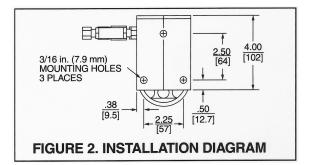
Weight: Approximately 10 lbs.

Dimension: 5"(H) x 7" (W) x 4"(D) (Approximately)

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LEGEND:
F = GUARD FILTER
PI = PRESSURE GAUGE (INLET AND OUTLET)
PR = PRESSURE REGULATOR
RV = RELIEF VALVE

FIGURE 1. FLOW DIAGRAM

3/16 in. (7.9 mm)
MOUNTING HOLES
3 PLACES

FIGURE 2. INSTALLATION DIAGRAM

ORDERING INFORMATION

Model	Description
6200	**Sample Pressure Reducing System (6200)**

Level 1	Mounting Configuration	
	1	Bracket (suitable for wall mounting)
	9	Special (consult factory)

Level 2	Pressure Regulator	
	1	Single-stage pressure regulator (for input pressure up to 500 psig)
	2	Dual-stage pressure regulator (for input pressure up to 3000 psig)
	9	Special (consult factory)

Level 3	Manual Sample Shut-Off Valve (supplied loose, 1/4" NPT female fitting)	
	0	None
	1	316 SS valve (for up to 500 psig)
	2	316 SS valve (for up to 3000 psig)
	9	Special (consult factory)

Level 4	Inlet Sample Pressure Gauge	
	0	None required
	1	0-500 psig required
	2	0-3000 psig required
	3	Special (consult factory)

Level 5	Wetted Material	
	1	316 SS, Tefzel, Vitol
	9	Special (consult factory)

Level 6	No Selection	
	000	**No selection**

Option Notes
Level 3:   Option: 1, 2 Manual sample shut-off valve supplied loose, 1/4" NPT female fitting.

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Emerson Process Management

Rosemount Analytical Inc.
Process Analytic Division
1201 North Main Street
P. O. Box 901
Orrville, OH   44667-0901 USA
T 330.682.9010
Toll Free in US and Canada 800.433.6076
F 330.684.4434
e-mail: gas.csc@EmersonProcess.com

www.processanalytic.com

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