Model 122 Industrial Combustion Regulators

79058

Model 122 Industrial Combustion Regulators

For an unbeatable combination of capacity, performance and economy, install the Sensus Metering Systems Model 122...the latest in industrial-combustion type gas pressure regulators.

Streamline body passages provide large capacity.

Carefully engineered internal sensing produces accurate pressure control without an external control line. And, just in case a particular application necessitates one, a handy tap on the 122 makes connection into an external control line a provide positive tight shutoff. And the orifice is removable.

Maximum inlet pressure is 15 psig.

Outlet pressure is easily adjusted throughout a range of inches w.c. to 2 psig. And the springs are color coded for easy identification.

simple matter.

Diaphragm cases are high strength, corrosion resistant die-cast aluminum alloy. This makes a better looking regulator at a better price. In addition, on 1" through 2 1/2" sizes a large area double acting damper in the vent assures fast **speed of response** while maintaining stability...just the thing for those troublesome "snap-acting" loads.

Soft seats plus a precision machined "knife-edge" orifice

Outlet Pressure Ranges and Springs - Standard Regulator

SIZE OUTLET PRESSURE RANGE		SPRING COLOR	SPRING PART NUMBER	NOMINAL DIAPHRAGM SIZE		
^s /4" Model 122-6	11/2" to 31/2" w.c. c		120-08-021-12			
	11/2" to 12" w.c.	green blue	143-62-021-17 (main spring) 143-08-021-01 (counter spring)	g)		
	31/2" to 61/2" w.c. 5" to 81/2" w.c. 6" to 14" w.c. 12" to 28" w.c. 1/2 psi to 2 psi	red blue green orange black-white	143-62-021-15 143-62-021-16 143-62-021-17 143-62-021-18 143-62-021-22	6"		
1" and 11/4" Model 122-8	1 ¹ /2" to 3 ¹ /2" w.c.		143-82-021-01 (main spring) 143-41-021-00 (counter spring))		
	11/2" to 12" w.c.	green-black 143-82-021-02 (main spring) black 143-41-021-00 (counter spring)				
	3 ¹ / ₂ " to 6 ¹ / ₂ " w.c. 5" to 8 ¹ / ₂ " w.c. 6" to 14" w.c. 12" to 28" w.c. 1 psi to 2 psi	red-black blue-black green-black green orange	143-82-021-00 143-82-021-01 143-82-021-02 143-16-021-05 143-16-021-06	8"		
11/2", 2" and 21/2" Model 122-12	2" and 21/2" to 31/2" w.c.		143-16-021-03 (main spring) 121-10-021-50 (counter spring)			
			121-42-021-00 (main spring) 121-10-021-50 (counter spring)			
	31/2" to 61/2" w.c. 5" to 81/2" w.c. 6" to 14" w.c. 12" to 28" w.c. 1 psi to 2 psi 1/2 psi to 2 psi	red blue green orange black cadmium	143-16-021-03 143-16-021-04 143-16-021-05 143-16-021-06 143-16-021-07 143-16-021-08	12"		

Temperature Limits

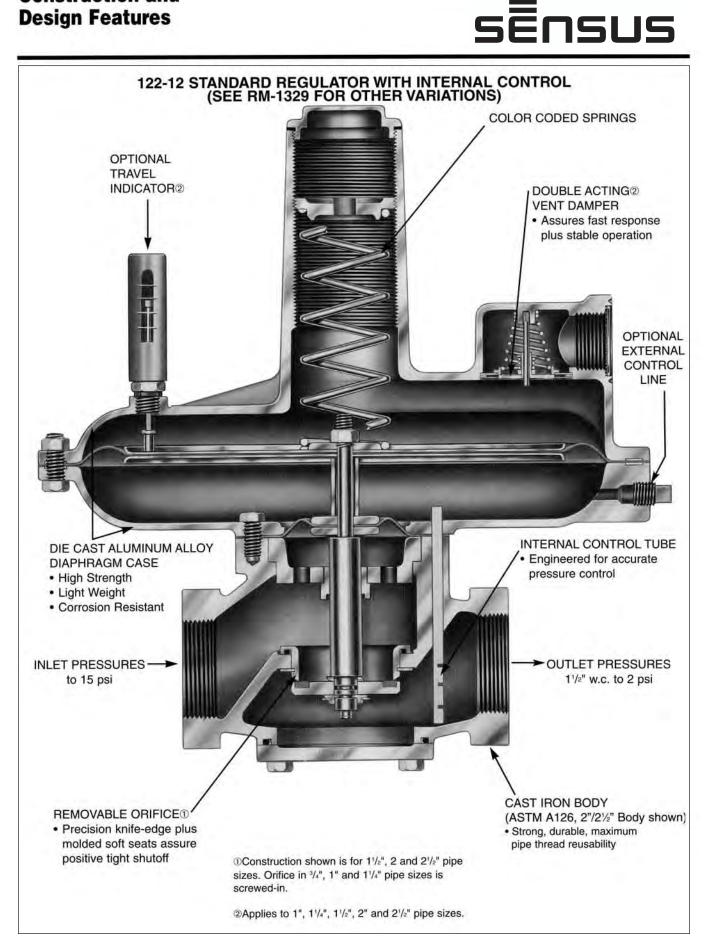
Model 122 regulators can be used for temperatures from -20°F to +150°F.

Buried Service

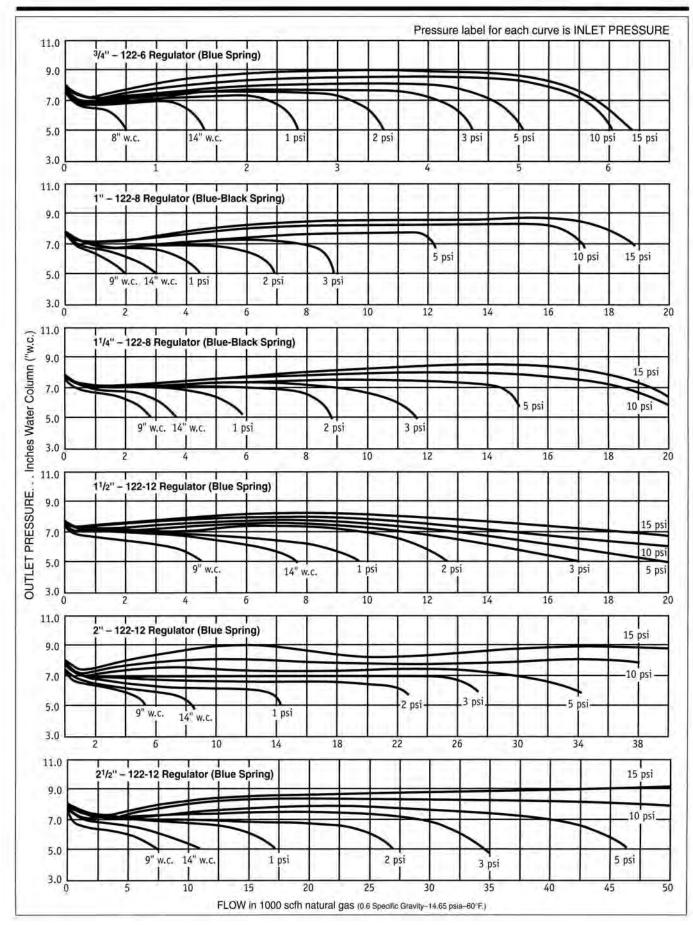
These regulators are designed for above ground or vault installations and are not recommended for direct earth burial.

Periodic Inspection: Regulators are pressure control devices with numerous moving parts subject to wear that is dependent upon particular operating conditions. To assure continuous satisfactory operation, a periodic inspection schedule must be adhered to with the frequency of inspection determined by the severity of service and applicable laws and regulations. See bulletin RM-1329 for complete field service instructions and warranty obligation.

Construction and Design Features



Typical Performance Curves



Model 122 Capacity Tables



	Capacity I			(0.6 Specific G		1a-00 F)	r.
INLET	SET POINT 5" w.c.	SET POINT 7" w.c.	UTLET POINT 11" w.c.	RESSUR SET POINT 18" w.c.	SET POINT 28" w.c.	SET POINT 2 psi	Regulator
PRESSURE	RED SPRING 1" w.c. DROOP	BLUE SPRING 1" w.c. DROOP	GREEN SPRING 2" w.c. DROOP	ORANGE SPRING 2" w.c. DROOP	ORANGE SPRING 3" w.c. DROOP	BLACK/WHITE SPRING	Size and Model
8" w.c.	950	600	5.00		+		
14" w.c.	1550	1450	1250				1
1 psi	2600	2500	1250	1550	-		3/4"
2 psi	3550	3400	3300	2500	2800	18 - C	Model 122-6
3 psi	4500	4350	3700	3050	3200	2500	WOUEI 122-0
5 psi	4950	4950	5200	4850	4950	4650	
10 psi	5600	5900	6200	5900	6000	5600	
15 psi	5600	5900	6800	7150	7150	6800	
INLET	SET POINT	SET POINT	SET POINT	SET POINT 18" w.c.	SET POINT	SET POINT	Regulator
PRESSURE	RED/BLACK SPRING 1" w.c. DROOP	BLUE/BLACK SPRING 1" w.c. DROOP	GREEN/BLACK SPRING 2" w.c. DROOP	GREEN SPRING 2" w.c. DROOP	GREEN	ORANGE SPRING '/*" psi DROOP	Size and Model
8" w.c.	1550	1000	-	-	-	-	
14" w.c.	2500	2300	2000			-	
1 psi	4200	4000	3600	2500	-	-	
2 psi	5700	5500	5300	4000	4500		1"
3 psi	7300	7000	6000	4900	5200	4000	Model 122-8
5 psi	8000	8000	8400	7800	8000	7500	
10 psi	9000	9500	10000	9500	9700	9000	
15 psi	9000	9500	11000	11500	11500	11000	
8" w.c.	2000	1500	11000	-	-	-	
14" w.c.	3500		the second se	-			
		3000	2200	-	-		2.000
1 psi	5000	4800	4000	3600	-		
2 psi	7300	7000	6400	5700	6000	-	11/4"
3 psi	9000	8700	8000	6900	7200	6300	Model 122-8
5 psi	10000	9800	9500	8800	9100	8100	
10 psi	15000	15700	15200	14500	14900	13800	
15 psi	15000	15700	15800	15000	15000	14000	
INLET	SET POINT 5" w.c.	SET POINT 7" w.c.	SET POINT 11" w.c.	SET POINT 18" w.c.	SET POINT 28" w.c.	SET POINT 2 psi	Regulator
		BLUE SPRING	GREEN SPRING	ORANGE SPRING 2" w.c. DROOP	ORANGE SPRING 3" w.c. DROOP	BLACK SPRING	Size and Model
PRESSURE	RED SPRING 1" w.c. DROOP	1" w.c. DROOP	2" w.c. DROOP	Z W.C. DHOUF			
A service scientification			2" w.c. DROOP -		Η.		
8" w.c.	1" w.c. DROOP	1" w.c. DROOP	2" w.c. DROOP - 3700	- -			
8" w.c. 14" w.c.	1" w.c. DR00P 4000 4900	1" w.c. DROOP 3000 4500	-	-		N	
8" w.c. 14" w.c. 1 psi	1" w.c. DR00P 4000 4900 6600	1" w.c. DROOP 3000 4500 6500	3700 6000	- - 5750	-	-	11/2"
8" w.c. 14" w.c. 1 psi 2 psi	1" w.c. DR00P 4000 4900 6600 10500	1" w.c. DR00P 3000 4500 6500 10000		- - 5750 9000	- 9500		1½" Model 122-1;
8" w.c. 14" w.c. 1 psi 2 psi 3 psi	1" w.c. DR00P 4000 4900 6600 10500 12000	1" w.c. DROOP 3000 4500 6500 10000 12000	- 3700 6000 9800 11100	- 5750 9000 10000	- - 9500 10500		
8" w.c. 14" w.c. 1 psi 2 psi 3 psi 5 psi	1" w.c. DR00P 4000 4900 6600 10500 12000 14500	1" w.c. DROOP 3000 4500 6500 10000 12000 14500	- 3700 6000 9800 11100 13900		- 9500 10500 12700		
8" w.c. 14" w.c. 1 psi 2 psi 3 psi 5 psi 10 psi	1" w.c. DR00P 4000 6600 10500 12000 14500 16000	1" w.c. DROOP 3000 4500 6500 10000 12000 14500 16000	- 3700 6000 9800 11100 13900 15000		9500 10500 12700 14000		
8" w.c. 14" w.c. 1 psi 2 psi 3 psi 5 psi 10 psi 15 psi	1" w.c. DR00P 4000 4900 6600 10500 12000 14500 16000 18000	1" w.c. DROOP 3000 4500 6500 10000 12000 14500 16000 18000	- 3700 6000 9800 11100 13900		- 9500 10500 12700		
8" w.c. 14" w.c. 1 psi 2 psi 3 psi 5 psi 10 psi 15 psi 8" w.c.	1" w.c. DR00P 4000 4900 6600 10500 12000 14500 16000 18000 5000	1" w.c. DROOP 3000 4500 6500 10000 12000 14500 16000 18000 4000	- 3700 6000 9800 11100 13900 15000 19000		9500 10500 12700 14000 20000		
8" w.c. 14" w.c. 1 psi 2 psi 3 psi 5 psi 10 psi 15 psi 8" w.c. 14" w.c.	1" w.c. DR00P 4000 4900 6600 10500 12000 14500 16000 18000 5000 8800	1" w.c. DROOP 3000 4500 6500 10000 12000 14500 16000 18000 4000 8000			9500 10500 12700 14000		
8" w.c. 14" w.c. 1 psi 2 psi 3 psi 5 psi 10 psi 15 psi 8" w.c. 14" w.c. 1 psi	1" w.c. DR00P 4000 4900 6600 10500 12000 14500 16000 18000 5000 8800 12200	1" w.c. DROOP 3000 4500 6500 10000 12000 14500 16000 18000 4000 8000 12000			9500 10500 12700 14000 20000 -		Model 122-1
8" w.c. 14" w.c. 1 psi 2 psi 3 psi 5 psi 10 psi 15 psi 8" w.c. 14" w.c. 1 psi 2 psi	1" w.c. DR00P 4000 4900 6600 10500 12000 14500 16000 18000 5000 8800 12200 18200	1" w.c. DROOP 3000 4500 6500 10000 12000 14500 16000 18000 4000 8000 12000 18000			9500 10500 12700 14000 20000 - - - 16900		Model 122-12
8" w.c. 14" w.c. 1 psi 2 psi 3 psi 5 psi 10 psi 15 psi 8" w.c. 14" w.c. 1 psi 2 psi 3 psi 3 psi	1" w.c. DR00P 4000 4900 6600 10500 12000 14500 16000 18000 5000 8800 12200 18200 25000	1" w.c. DROOP 3000 4500 6500 10000 12000 14500 16000 18000 4000 8000 12000 18000 25000			9500 10500 12700 14000 20000 - - - 16900 23000		Model 122-12
8" w.c. 14" w.c. 1 psi 2 psi 3 psi 5 psi 10 psi 15 psi 8" w.c. 14" w.c. 1 psi 2 psi 3 psi 5 psi 5 psi 5 psi 8" w.c.	1" w.c. DR00P 4000 4900 6600 10500 12000 14500 16000 18000 5000 8800 12200 18200 25000 32000	1" w.c. DROOP 3000 4500 6500 10000 12000 14500 16000 18000 4000 8000 12000 18000 25000 32000			9500 10500 12700 14000 20000 - - - 16900 23000 29000		Model 122-12
8" w.c. 14" w.c. 1 psi 2 psi 3 psi 5 psi 10 psi 15 psi 8" w.c. 14" w.c. 1 psi 2 psi 3 psi 5 psi 10 psi 15 psi 10 psi	1" w.c. DR00P 4000 4900 6600 10500 12000 14500 16000 18000 5000 8800 12200 18200 25000 32000 38000	1" w.c. DROOP 3000 4500 6500 10000 12000 14500 16000 18000 4000 8000 12000 18000 25000 32000 38000			9500 10500 12700 14000 20000 - - - - 16900 23000 23000 33000		Model 122-12
8" w.c. 14" w.c. 1 psi 2 psi 3 psi 5 psi 10 psi 15 psi 8" w.c. 14" w.c. 1 psi 2 psi 3 psi 5 psi 10 psi 15 psi 10 psi 15 psi 14" w.c. 1 psi 2 psi 3 psi 5 psi 10 psi 15 psi	1" w.c. DR00P 4000 4900 6600 10500 12000 14500 16000 18000 5000 8800 12200 18200 25000 32000 38000 38000	1" w.c. DROOP 3000 4500 6500 10000 12000 14500 16000 18000 4000 8000 12000 18000 25000 32000 38000 38000			9500 10500 12700 14000 20000 - - - 16900 23000 29000		Model 122-12
8" w.c. 14" w.c. 1 psi 2 psi 3 psi 5 psi 10 psi 15 psi 8" w.c. 14" w.c. 1 psi 2 psi 3 psi 5 psi 10 psi 15 psi 8" w.c. 14" w.c. 1 psi 2 psi 3 psi 5 psi 3 psi 5 psi 3 psi 5 psi 10 psi 15 msi 8" w.c. 14" w.c. 1 psi 2 psi 3 psi 5 psi 3 psi 5 psi 3 psi 5 psi 10 msi 15 msi 8" w.c. 14" w.c. 1 psi 2 psi 3 psi 5 psi 10 msi 15 msi 8" w.c. 14" w.c. 1 msi 2 psi 3 psi 5 psi 10 msi 15 msi 10 msi 15 msi 10 msi 15 msi 8" w.c. 14" w.c. 1 msi 2 psi 3 psi 5 psi 10 psi 3 psi 5 psi 10 psi 10 msi 15 msi 8" w.c. 14" w.c. 1 msi 2 psi 3 psi 5 psi 10 psi 10 msi 10 msi	1" w.c. DR00P 4000 4900 6600 10500 12000 14500 16000 18000 5000 8800 12200 18200 25000 32000 38000 38000 5500	1" w.c. DROOP 3000 4500 6500 10000 12000 14500 14500 18000 4000 8000 12000 18000 25000 32000 38000 38000 4500			- 9500 10500 12700 14000 20000 - - - 16900 23000 29000 33000 40000 -		Model 122-12
8" w.c. 14" w.c. 1 psi 2 psi 3 psi 5 psi 10 psi 15 psi 8" w.c. 14" w.c. 1 psi 2 psi 3 psi 5 psi 10 psi 15 psi 8" w.c. 14" w.c. 1 psi 2 psi 3 psi 5 psi 10 psi 15 psi 3 psi 5 psi 10 psi 14" w.c. 14" w.c. 15 psi 10 psi 15 psi 10 psi 15 psi 10 psi 15 psi 10 psi 15 psi 10 psi 11 psi 15 psi 10 psi 15 psi 14" w.c.	1" w.c. DR00P 4000 4900 6600 10500 12000 14500 16000 18000 5000 8800 12200 18200 25000 32000 38000 38000 5500 9600	1" w.c. DROOP 3000 4500 6500 10000 12000 14500 14500 18000 4000 8000 12000 18000 25000 32000 38000 38000 4500 9000			9500 10500 12700 14000 20000 - - - - 16900 23000 23000 33000		Model 122-1:
8" w.c. 14" w.c. 1 psi 2 psi 3 psi 5 psi 10 psi 15 psi 8" w.c. 14" w.c. 1 psi 2 psi 3 psi 5 psi 10 psi 15 psi 8" w.c. 14" w.c. 1 psi 2 psi 3 psi 5 psi 10 psi 15 psi 3 psi 5 psi 10 psi 14" w.c. 1 psi 15 psi 10 psi 15 psi 10 psi 15 psi 14" w.c. 1 psi 15 psi 10 psi 15 psi	1" w.c. DR00P 4000 4900 6600 10500 12000 14500 16000 18000 5000 8800 12200 18200 25000 32000 38000 38000 5500 9600 13600	1" w.c. DROOP 3000 4500 6500 10000 12000 14500 14500 14500 18000 4000 8000 12000 18000 25000 32000 32000 38000 4500 9000 13400					Model 122-1: 2" Model 122-1:
8" w.c. 14" w.c. 1 psi 2 psi 3 psi 5 psi 10 psi 15 psi 8" w.c. 14" w.c. 1 psi 2 psi 3 psi 5 psi 10 psi 15 psi 8" w.c. 14" w.c. 1 psi 2 psi 3 psi 5 psi 10 psi 15 psi 2 psi 3 psi 5 psi 10 psi 15 psi 2 psi 10 psi 2 psi 2 psi 10 psi 15 psi 2 psi 2 psi 2 psi 2 psi 3 psi 5 psi 2 psi 2 psi 3 psi 5 psi 8" w.c. 14" w.c.	1" w.c. DR00P 4000 4900 6600 10500 12000 14500 14500 16000 18000 5000 8800 12200 18200 25000 32000 38000 38000 38000 5500 9600 13600 20700	1" w.c. DROOP 3000 4500 6500 10000 12000 14500 14500 16000 18000 4000 8000 12000 18000 25000 32000 32000 38000 38000 4500 9000 13400 20000					2" Model 122-1 Model 122-1 2'/2"
8" w.c. 14" w.c. 1 psi 2 psi 3 psi 5 psi 10 psi 15 psi 8" w.c. 14" w.c. 1 psi 2 psi 3 psi 5 psi 10 psi 15 psi 8" w.c. 14" w.c. 1 psi 2 psi 3 psi 5 psi 10 psi 15 psi 3 psi 5 psi 10 psi 3 psi 5 psi 10 psi 3 psi 5 psi 10 psi 3 psi 5 psi 10 psi 15 psi 8" w.c. 14" w.c. 15 psi 8" w.c. 14" psi 5 psi 3 psi 5 psi 8" w.c. 14" w.c. 15 psi 8" w.c. 14" w.c. 1 psi 3 psi 5 psi 5 psi 8" w.c. 15 psi 8" w.c. 15 psi 3 psi 5 psi 3 psi 5	1" w.c. DR00P 4000 4900 6600 10500 12000 14500 14500 18000 5000 8800 12200 18200 25000 32000 38000 38000 38000 38000 13600 20700 27000	1" w.c. DROOP 3000 4500 6500 10000 12000 14500 14500 16000 18000 4000 8000 12000 18000 25000 32000 32000 38000 38000 4500 9000 13400 20000 27000					2" Model 122-1 Model 122-1 2'/z"
8" w.c. 14" w.c. 1 psi 2 psi 3 psi 5 psi 10 psi 15 psi 8" w.c. 14" w.c. 1 psi 2 psi 3 psi 5 psi 10 psi 15 psi 8" w.c. 14" w.c. 1 psi 2 psi 3 psi 5 psi 10 psi 15 psi 2 psi 3 psi 5 psi 10 psi 15 psi 2 psi 10 psi 2 psi 2 psi 10 psi 15 psi 2 psi 2 psi 2 psi 2 psi 3 psi 5 psi 2 psi 2 psi 3 psi 5 psi 8" w.c. 14" w.c.	1" w.c. DR00P 4000 4900 6600 10500 12000 14500 14500 16000 18000 5000 8800 12200 18200 25000 32000 38000 38000 38000 5500 9600 13600 20700	1" w.c. DROOP 3000 4500 6500 10000 12000 14500 14500 16000 18000 4000 8000 12000 18000 25000 32000 32000 38000 38000 4500 9000 13400 20000					2" Model 122-1 Model 122-1 2'/z"
8" w.c. 14" w.c. 1 psi 2 psi 3 psi 5 psi 10 psi 15 psi 8" w.c. 14" w.c. 1 psi 2 psi 3 psi 5 psi 10 psi 15 psi 8" w.c. 14" w.c. 1 psi 2 psi 3 psi 5 psi 10 psi 15 psi 3 psi 5 psi 10 psi 3 psi 5 psi 10 psi 3 psi 5 psi 10 psi 3 psi 5 psi 10 psi 15 psi 8" w.c. 14" w.c. 15 psi 8" w.c. 14" psi 5 psi 3 psi 5 psi 8" w.c. 14" w.c. 15 psi 8" w.c. 14" w.c. 1 psi 3 psi 5 psi 5 psi 8" w.c. 15 psi 8" w.c. 15 psi 3 psi 5 psi 3 psi 5	1" w.c. DR00P 4000 4900 6600 10500 12000 14500 14500 18000 5000 8800 12200 18200 25000 32000 38000 38000 38000 38000 13600 20700 27000	1" w.c. DROOP 3000 4500 6500 10000 12000 14500 14500 16000 18000 4000 8000 12000 18000 25000 32000 32000 38000 38000 4500 9000 13400 20000 27000					Model 122-12 2" Model 122-12

Note: The above performance data is based on normal testing at 70 F flowing temperature. Changes in performance can occur at extreme low flowing temperatures.

General Information

Maximum Emergency Pressures

The maximum inlet pressure a Model 122 regulator may be subjected to under abnormal conditions without causing internal damage is 20 psi. The maximum pressure the diaphragm may be subjected to under abnormal conditions without causing internal damage is set-point plus 2 psi. Set-point is defined as the outlet pressure a regulator is adjusted to deliver.

If either of the above

limits is exceeded the regulator must be taken out of service and inspected. Damaged or otherwise unsatisfactory parts must be repaired or replaced before returning the regulator to service.

The maximum pressure that can be safely contained by the diaphragm case on

The allowable outlet pressure is the lowest of the maximum pressures permitted by federal codes, state codes, Sensus Metering Systems RDS-1498, or other applicable standards. a Model 122 regulator is 5 psi. Safely contained means no leakage as well as no bursting.

Before using any of the above data, make sure this entire section is clearly understood.

The method of protection can

be a relief valve, monitor requ-

lator, shutoff device, or similar

mechanism.

Overpressurization Protection

Protect the downstream piping system and the regulator's low pressure chambers against overpressurization due to possible regulator malfunction or failure to achieve complete lock up.

Stem	Plated Steel
Diaphragm Pans, Collars and	Washers Plated Steel
O-Rings and Tetra Seals	Buna-N
Adjustment Spring Button	
Record and the second second	(1" and 21/2" Model 122)
Adjustment Spring Button	Thermo-Set-Plastic
	(3/4" Model 122)
Seal Cap Zind	Die Casting (1" through 21/2")
	hermo-Plastic (3/4" Model 122)

Materials of Construction

Body	Cast Iron
Diaphragm Case	
Stem Bushing and Plate	Plated Steel
Main and Seal Diaphragms	Buna-N with
(Viton Not Available)	Nylon Fabric Insert
Orifice Cast Iro	on (11/2" and 21/2" Model 122)
Orifice Brass	
Valve Plated Steel wi	

Full Open Capacity

Capacity of the Model 122 in the wide-open position can be calculated using the following formula and K factors:

1.	Formula	Q = K	/Po	(Pi -	Po
----	---------	-------	-----	-------	----

- Q = Full open capacity in SCFH of 0.6 specific gravity natural gas.
- Pi = Absolute inlet pressure (psia).
- Po= Absolute outlet pressure (psia).
- 2. K Factors = ³/₄" Model 122-6..... K = 1000

Other Gases

Standard Model 122 Regulators are most widely used on natural gas. However, they perform equally well on LP gas, nitrogen, dry CO_2 and air.

For capacities, multiply the table values on page 5 by the following correction factors.

1" Model 122-8	K=	1400
11/4" Model 122-8		
11/2" Model 122-12	K=	2750
2" Model 122-12	K=	4750
21/2" Model 122-12		

Remember, at the above full open capacities the droop is significantly greater than specified in the capacity tables.

When checking 122 regulator capacity to provide adequate relief valve capacity, use the full open capacity - do not use 122 capacity from the tables.

OTHER GASES	CORRECTION FACTOR
Air (Specific Gravity 1.0)	0.77
Propane (Specific Gravity 1.53)	0.63
1350 BTU Propane-Air Mix (1.20)	0.71
Nitrogen (Specific Gravity 0.97)	0.79
Dry Carbon Dioxide (Specific Gravity 1.52)	0.63
For other noncorrosive gases: CORRECTION FACTOR = Specific G	0.6 ravity of the Gas

For use with gases not listed above, please contact your Invensys Metering Systems representative or Industrial Distributor for recommendations

Caution: It is the user's responsibility to assure that all residential service regulator vents and/or vent lines exhaust to a non-hazardous location away from any **potential sources** of ignition. Refer to **Sensus Metering Systems Bulletin RM-1329 for more detailed information.**



122 Variations

The following variations of the Model 122 are also available:

Atmospheric Regulator / Zero Governor

Differential Regulator

All pipe sizes, 3/4" through 21/2". Set points to a maximum differential of 1 psi.

Larger Sizes

Back Pressure Regulator / Relief Valve

All pipe sizes, 3/4" through 21/2". Set-point pressures... 11/2" w.c. to 2 psi.....

 $\begin{array}{c} 1^{1}/_{2}^{"} \text{ w.c. to 2 psi } \dots & (3^{'}/_{4}^{"} \text{ Model 122-6}). \\ 3^{"} \text{ w.c. to 2 psi } \dots & (1^{"} \text{ and } 1^{'}/_{4}^{"} \text{ Model 122-8}). \\ 3^{"} \text{ w.c. to } 1^{3}/_{4}^{'} \text{ psi } \dots & (1^{'}/_{2}^{"} \text{ and } 2^{'}/_{2}^{"} \text{ Model 122-12}). \end{array}$

For more complete information refer to RM 1329. For other variations or special applications, please contact your Sensus Metering Systems Representative or Industrial Distributor.

The 122 is manufactured in 3/4" through 21/2" pipe sizes only. For larger sizes see the 3" and 4" Model 121...Bulletins R-1328 or RM-1328.

Metrication

Use the following for metric conversions:

std. metres³/hr. x 35.31 = std. ft.³/hr. (SCFH) std. ft.³/hr. (SCFH) x 0.0283 = std. metres³/hr.

kilograms/centimeter² (kg/cm²) x 14.22 = psig psig x 0.0703 = kilograms/centimeter² (kg/cm²)

kilopascals (kPa) x 0.145 = psig psig x 6.90 = kilopascals (kPa) bars x 14.50 = psigpsig x .069 = bars

millimeters water (mm H_20) x .0394 = in. w.c. in. w.c. x 25.4 = millimeters water (mm H_20)

millimeters mercury (mm Hg) x 0.535 = in. w.c. in. w.c. x 1.868 = millimeters mercury (mm Hg)

Dimensions

A (Diameter)		A	В	C	D	E	F	SHPG. WT.
Vent Outlet (1%" 122 6 only) Vent Outlet Va* NPT	3/4" NPT	7 ³ /8 ⁴	77/8"	1 ⁷ /a"	5%"	25/6"	~	10 lbs.
	1" NPT	101/4"	115/a"	1 ⁷ /8"	53/4"	21/2"	37/16"	15 lbs.
Optional Intert and Outlet	11/4" NPT	101/4"	11%"	1 ⁷ /8 ⁰	5 ³ /4"	2 ¹ / ₂ "	3 ⁷ /16 ¹⁰	15 lbs.
	11/2" NPT	14"	13"	2 ³ /8"	71/2"	3 ¹⁵ / ₁₆ "	39/16"	28 lbs.
C C C Control	2" NPT	14"	13"	2 ³ /8"	71/2"	315/16"	3 ⁹ /16 ¹⁰	28 lbs.
	21/2" NPT	14°	13"	23/a"	81/4"	315/16"	3%/16"	30 lbs.

How to Order

- Specify: 1. Model Number. 2. Pipe size.
- 3. Inlet Pressure.
- 4. Outlet Pressure.
- 5. Capacity required... SCFH.
- 6. Kind of gas...(natural gas, propane, air, etc.)

Caution: Turn gas on very slowly. If an outlet stop valve is used, it should be opened first. Do not overload the diaphragm with a sudden surge of inlet pressure. Monitor the outlet pressure during start-up to prevent an outlet pressure overload.



805 Liberty Boulevard DuBois, PA 15801 814-375-8875 Fax 814-375-8460

Authorized Distributor

Limited Warranty

Seller warrants the Goods to be free from defects in materials manufactured by Seller and in Seller's workmanship for a period of one (1) year after tender of delivery (the "Warranty Period"). THIS LIMITED WARRANTY (a) IS IN LIEU OF, AND SELLER DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, STATUTORY, EXPRESS OR IMPLIED, INCLUDING, WITH LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR OF CONFORMITY TO MODELS OR SAMPLES; (b) does not apply to any Goods which have been (l) repaired, altered or improperly installed; (ii) subjected to improper use or storage, (iii) used or incorporated with other materials or equipment, after buyer or anyone using the Goods has, or reasonably should have, knowledge of any defect or nonconformance of the Goods; or (iv) manufactured, fabricated or assembled by anyone other than Seller, (c) shall not be effective unless buyer notifies Seller in writing of any purported defect or nonconformance with (thirty days) after Buyer discovers or should have reasonably discovered such purported defect or nonconformance; and (d) shall only extend to Buyer and not to any subsequent buyers or users of the Goods. Buyer shall provide Seller access to the Goods as to which Buyer claims a purported defect or nonconformance, upon request by Seller, buyer shall, at its own risk and expense, promptly return the Goods in question to Seller's Plant.