



Type CG330/CG340 Gas Regulators

Air Filter Regulator Series for Low Emission Applications

Type CG330 Filter Regulator | Type CG340 Regulator

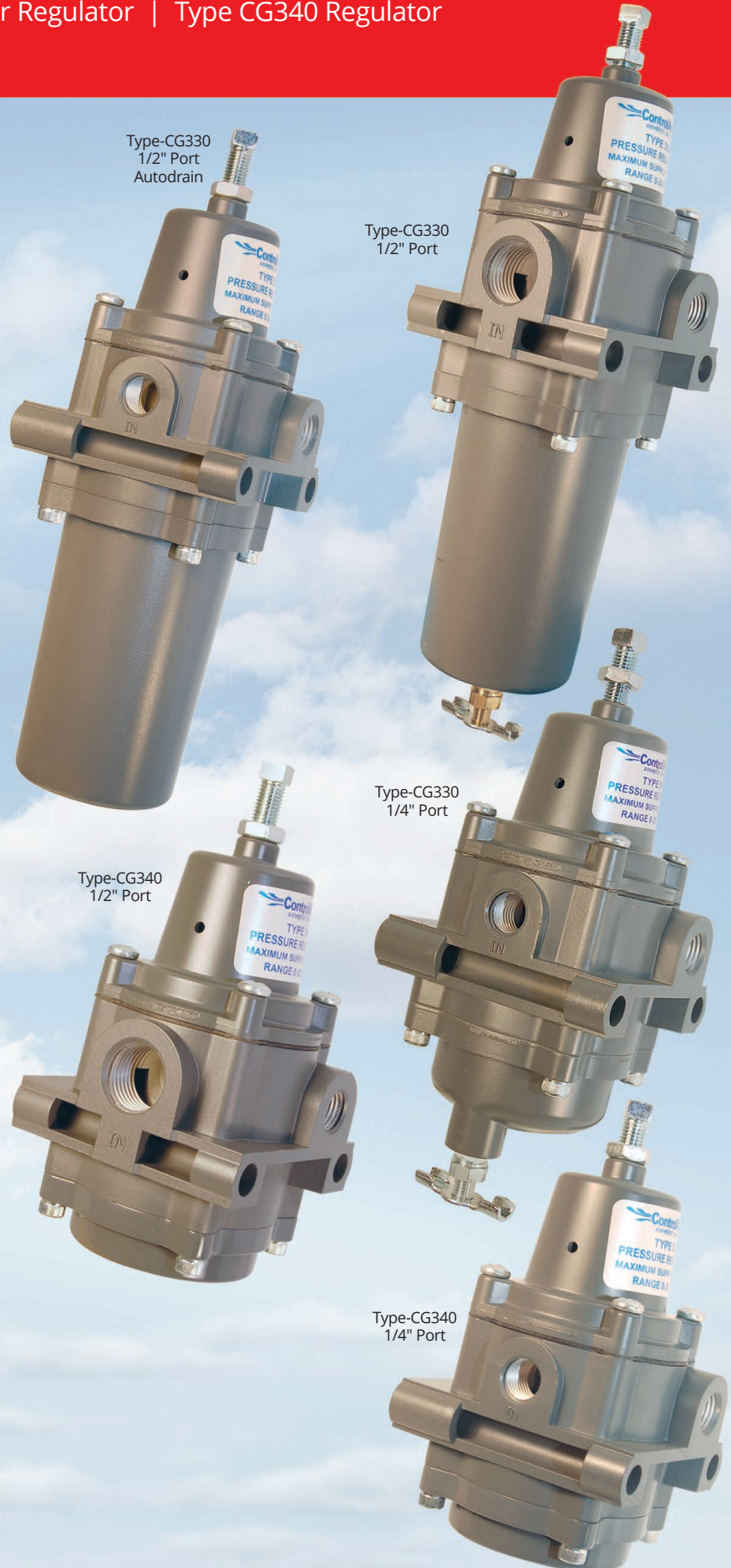
The CG330/CG340 series of compressed gas filter regulators are specifically engineered to deliver precise pressure control while ensuring near-zero atmospheric leakage under steady-state or dynamic flow conditions. This makes them ideal for applications involving inert gases, natural gases, and other medias that must comply with strict fugitive emissions regulations. Constructed from durable, high-quality materials, these regulators are built to provide reliable, long-lasting performance in demanding industrial environments. The CG330/CG340 series is designed for critical applications where eliminating gas leakage is a regulatory necessity, ensuring operational efficiency and environmental safety.

Type CG330 Filter Regulator with Automatic Drain

Condensate waste liquid is automatically expelled from the bowl when the liquid reaches a specific level. The low maintenance Automatic Drain helps prolong the life of the regulator and filter by preventing corrosion on the bottom of regulator and reducing the load of the filter.

Type CG340 Regulator

Designed to provide accurate, constant control under variable flow rates and supply pressures. Compact and lightweight housing allows this unit to be mounted in applications where space is limited. Its durable construction withstands long term installation in harsh environments.



Type CG330/CG340 Series

Rugged and reliable instrument air filter



Type CG330



Type CG340

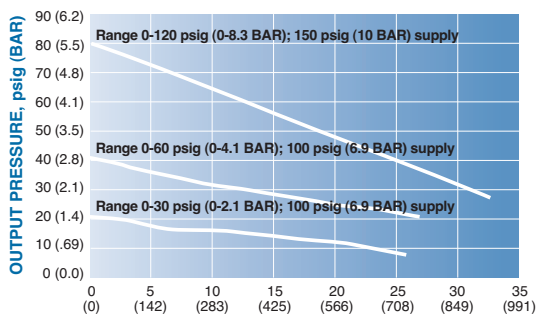
Specifications

	Type CG330		Type CG340	
In/Out Port Size (Gauge Ports 1/4 NPT)	1/4" NPT	1/2" NPT	1/4" NPT	1/2" NPT
Output Ranges	0-30 psig (0-2 bar) 0-60 psig (0-4 bar) 0-120 psig (0-8 bar)		0-30 psig (0-2 bar) 0-60 psig (0-4 bar) 0-120 psig (0-8 bar)	
Maximum Supply Pressure	Manual drain: 250 psig (17 bar) Auto drain: 150 psig (10 bar)		250 psig (17 bar)	
Mounting	Pipe, bracket or through body direct			
Filter	40 micron (5 micron optional)		None	
Cv Values	0.5 at 150 psig supply and 80 psig setpoint	2.5 at 150 psig supply and 80 psig setpoint	0.5 at 150 psig supply and 80 psig setpoint	2.5 at 150 psig supply and 80 psig setpoint
Exhaust Capacity	0.1 scfm (2.83 NI/min) with downstream pressure 5 psig (0.3 bar) above set point			
Sensitivity	1" of water			
Air Consumption	Less than 0.1 scfh (0.05 NI/min)			
Effect of Supply Pressure Variation	Less than 0.25 psig (0.017 bar) for 25 psig (1.7 bar) change	Less than 0.5 psig (0.035 bar) for 25 psig (1.7 bar) change	Less than 0.25 psig (0.017 bar) for 25 psig (1.7 bar) change	Less than 0.5 psig (0.035 bar) for 25 psig (1.7 bar) change
Temperature Limits Manual drain: Auto drain:	0° to 160° F (-18° to 71° C) 32° to 160° F (0° to 71° C)		0° to 160° F (-18° to 71° C)	
Weight Manual drain: Auto drain:	1.2 lbs (0.54 kg) 1.42 lbs (0.64 kg)	1.71 lbs (0.78 kg) 1.65 lbs (0.75 kg)	1.15 lbs (0.52 kg) N/A	1.38 lbs (0.68 kg) N/A
Operating Media	Air, Inert Gas & Sweet Natural Gas		Air, Inert Gas & Sweet Natural Gas	

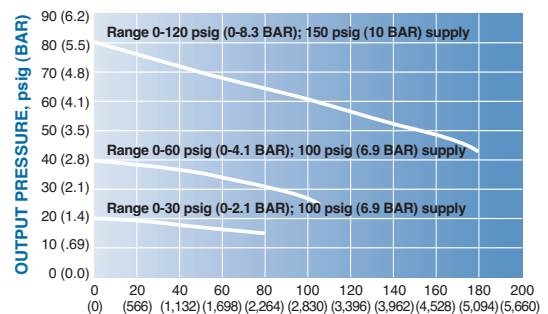
Materials

Body	Diecast Aluminum Alloy, Chromate and Baked Epoxy Finish	
Filter	Polyethylene	None
Diaphragm, Gasket, Pintle	Nitrile Elastomer and Nylon Fabric	
Additional Materials	Brass, Zinc Plated Steel, Acetal	

FLOW CURVES: Type CG330/340: 1/4" NPT Units

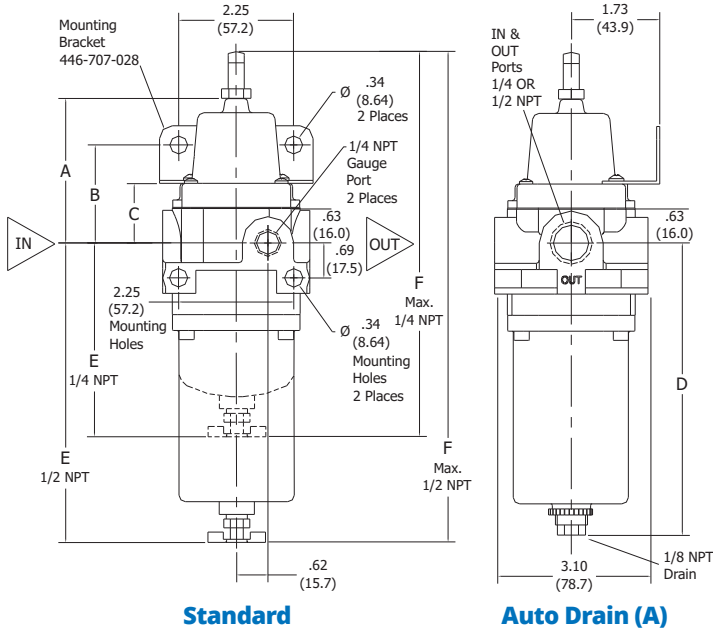


FLOW CURVES: Type CG330/340: 1/2" NPT Units

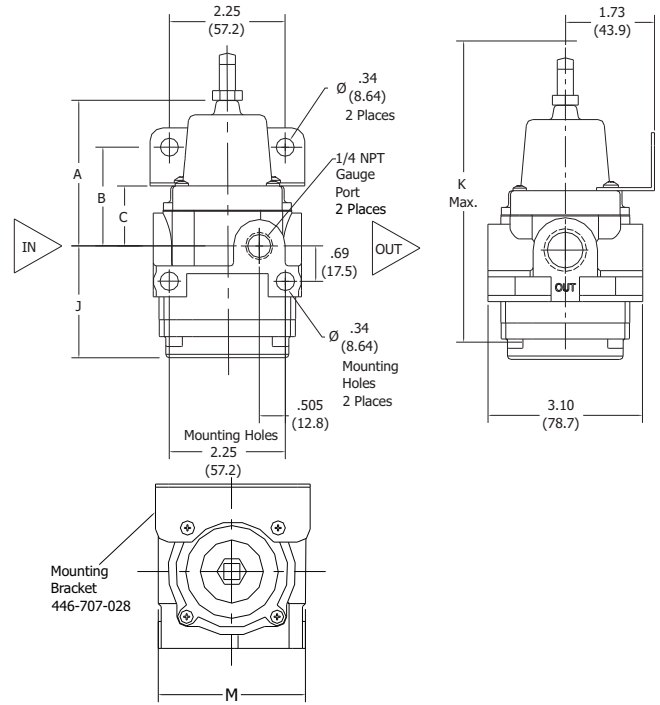


Type CG330 Dimensions (1/4" and 1/2" NPT)

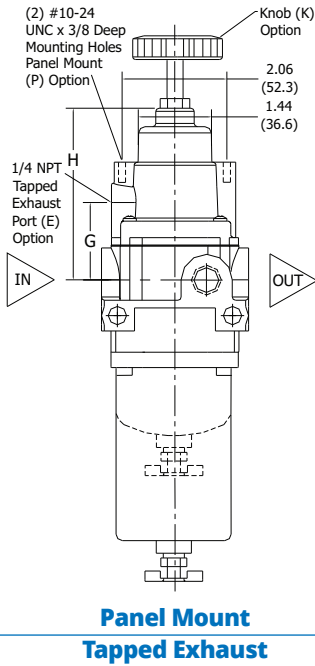
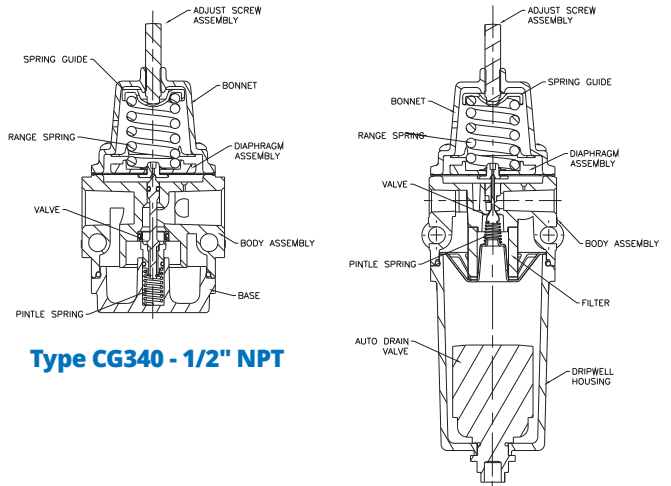
IN(mm)



Type CG340 Dimensions (1/4" and 1/2" NPT)



Sectional Drawings

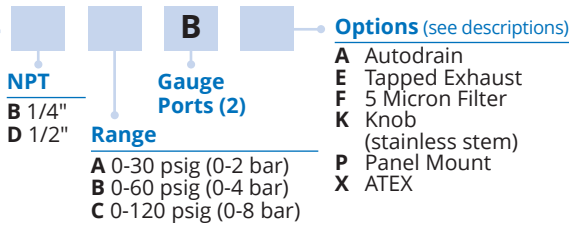


Port Size (NPT)	A		B		C		D		E		F		G		H		J		K		M	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm
1/4"	2.66	67.6	1.76	44.7	1.00	25.4	5.74	145.8	3.42	86.8	7.15	181.6	1.22	31.0	3.19	81.0	2.05	52.0	5.60	137.2	2.56	65.0
1/2"	2.83	71.9	1.93	49.0	1.17	29.7	5.84	148.3	6.05	153.7	9.78	248.4	1.39	35.3	3.36	85.3	2.15	54.6	5.77	146.6	2.88	73.2

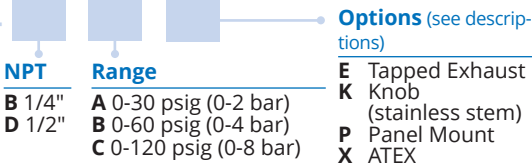
Type CG330/CG340 Series

Ordering Use this coding system to order

Filter Regulator CG330



Regulator CG340



Options Add proper letter at end of model number.

- A - Automatic Drain (Type 330): Float operated drain with 1/8" NPT connection. Maximum 150 psig supply pressure
- E - Tapped Exhaust: Allows captured exhaust. 1/4" NPT
- F - 5 Micron Filter: Standard 40 micron filter is replaced with 5 micron filter for more complete air filtration
- K - Knob: Hand wheel to replace square head adjust screw
- X - ATEX 2014/34/EU

Accessories

Mounting Bracket: P/N 446-707-028

Gauges: 1/4" NPT back-mount, 2" face, Dual Scale

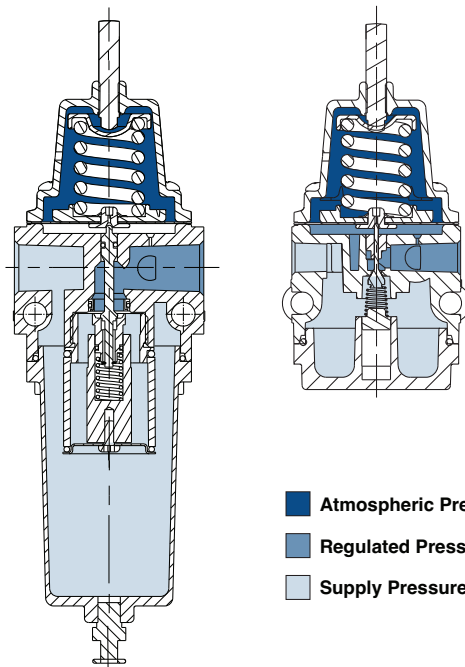
Type CG330/CG340

- 0-15 psi (0-1 bar) P/N 446-725-003
- 0-30 psi (0-2 bar) P/N 446-725-004
- 0-60 psi (0-4 bar) P/N 446-725-001
- 0-160 psi (0-10 bar) P/N 446-725-002



Principles of Operation - Type CG330/CG340

Turning the adjusting screw changes the force exerted by the range spring on the diaphragm assembly. In equilibrium of set pressure, the force exerted by the range spring is balanced by the force from the output pressure acting underneath the diaphragm assembly. An unbalanced state between the output pressure and the set pressure causes a corresponding reaction in the diaphragm and supply valve assemblies. If the output pressure rises above the set pressure, an upward force is exerted on the diaphragm assembly causing the relief seat to lift and open. Excess pressure is vented to atmosphere until equilibrium is reached. If the output pressure drops below the set pressure the unbalanced force of the range spring causes a downward force on the diaphragm assembly. The supply valve then opens until the pressure builds up once more to the equilibrium condition. Under forward flow conditions, the range spring force is balanced by the diaphragm pressure force, with the supply valve open just enough to maintain the required equilibrium pressure. When high flow occurs, a specially designed aspirator helps maintain downstream pressure and compensates for droop.



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8 Columbia Drive / Amherst, NH 03031 USA / www.controlair.com / sales@controlair.com / 603-886-9400 / FAX 603-889-1844

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