MEASUREMENT AND CONTROL

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1267AFR Air Filter Regulator

The 1267AFR Air Filter Regulator is designed to provide clean, accurate air pressure to instruments, valves, and other automatic control equipment in a lightweight, compact housing. These quality instruments are constructed of durable materials that will provide long lasting performance in industrial environments. The 1267AFR air filter regulator is designed for use in systems that require clean, accurate instrument air. The 1267AFR provides pressure regulation and filtration in an integral compact package. Available in ¼" NPT porting for normal operation and ½" NPT porting for high flow capacity requirements.

Features

- Compact and light weight construction
- Mounts where competitive units won't
- ¼" NPT and ½" NPT ported versions
- High flow capacity
- Low air consumption lower operating costs
- Tapped exhaust option
- Rugged, corrosion resistant design functional for harsh conditions
- Warranty - 18 months

Product Specifications

In/Out Port Size (Gauge Ports 1/4 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)
Maximum Supply Pressure	250 psig (17 BAR)
Mounting	Pipe or through body direct
Filter	40 micron (5 optional)
Cv Values	0.5 at 150 psig supply and 80 psig setpoint for 1/4" 2.5 at 150 psig supply and 80 psig setpoint for 1/2"
Exhaust Capacity	0.1 scfm (2.83 Nl/min) with downstream pressure 5 psig (0.3 BAR) above set point
Sensitivity	1" of water
Air Consumption	Less than 5 scfh (2.5 Nl/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
Temperature Limits	0° to 160° F (-18° C to 71° C)
Weight	1.2 lbs (.45 kg)
Operating Media	Air, Inert Gas and Sweet Natural Gas
Materials	
Body	Diecast Aluminum Alloy, Irridite and Baked Epoxy Finish
Filter	Phenolic Impregnated Cellulose Polyethylene
Diaphragm	Nitrile Elastomer and Nylon Fabric
Valve Seat	Nitrile Elastomer
Additional Materials	Brass, Zinc Plated Steel, Acetal

Design and specifications are subject to change without notice. For latest revision, see SORInc.com.

1267AFR
Air Filter Regulator

How to Order

1267AFR - 1 2 - E

1267AFR Air Filter Regulator with 1/4" NPT porting,
a range of 0-60 psig (0-4 BAR) and Tapped Exhaust.

2 Range

1	0-30 psig (0-2 BAR)
2	0-60 psig (0-4 BAR)
3	0-120 psig (0-8 BAR)

NPT 1

1/4"	1
1/2"	2

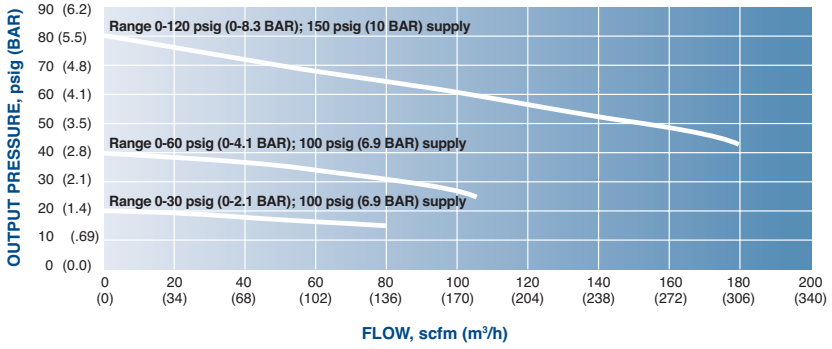
3 Options

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

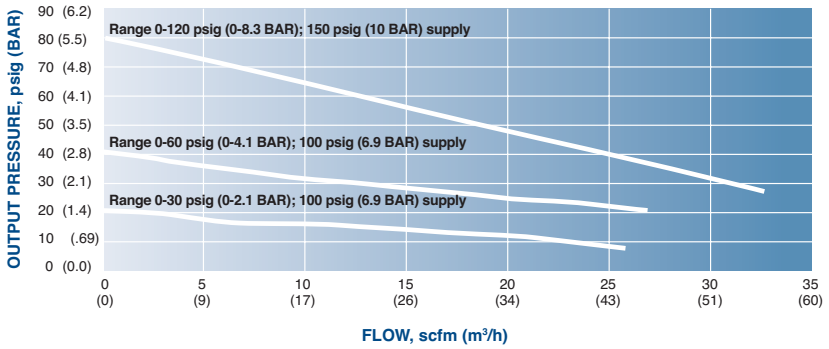
1267AFR 1 2 E ← Model Number

* Hand wheel to replace square head adjust screw is Part Number 1267AFR-KNOB

FLOW CURVES
1267AFR: 1/2" NPT Units



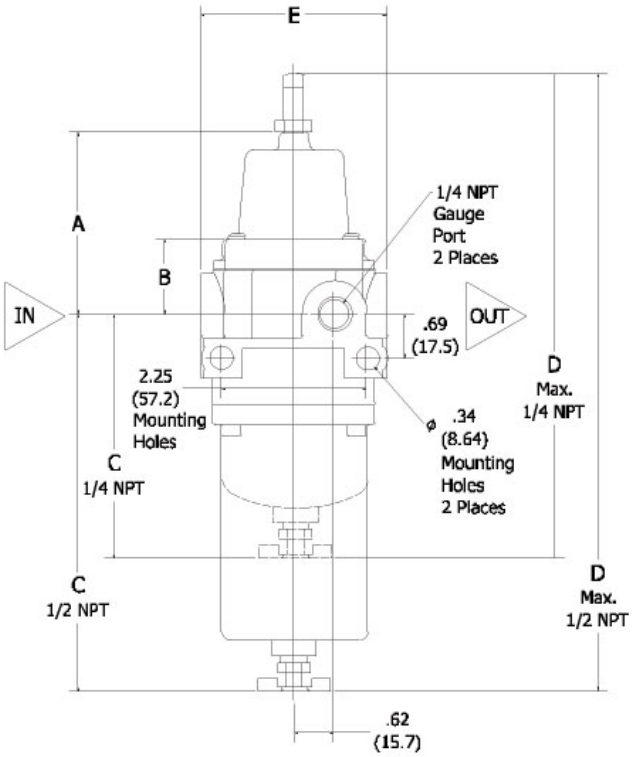
FLOW CURVES
1267AFR: 1/4" NPT Units

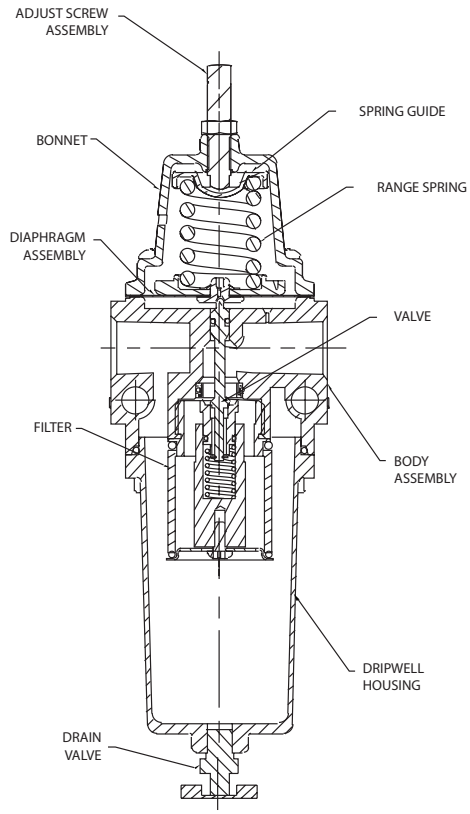


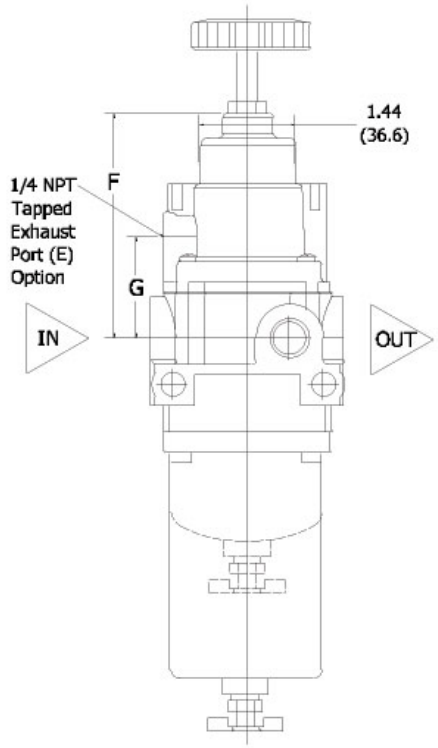
1267AFR
Air Filter Regulator

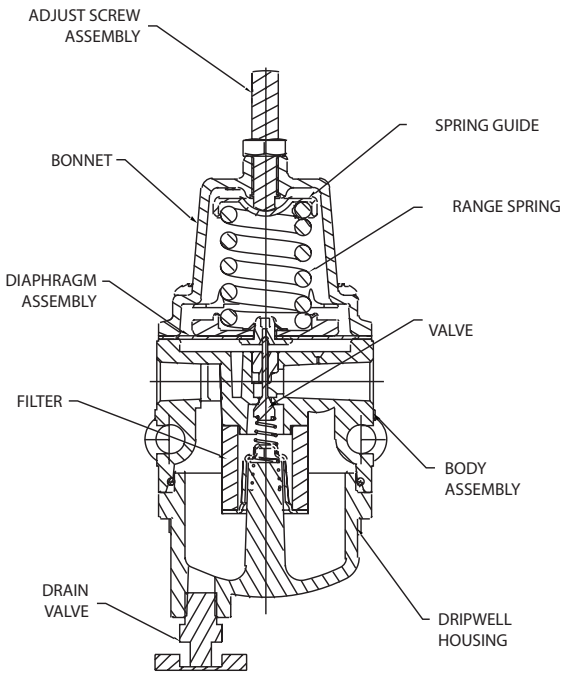
Dimensions

Dimensions shown are for reference only. Linear = mm/in.









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

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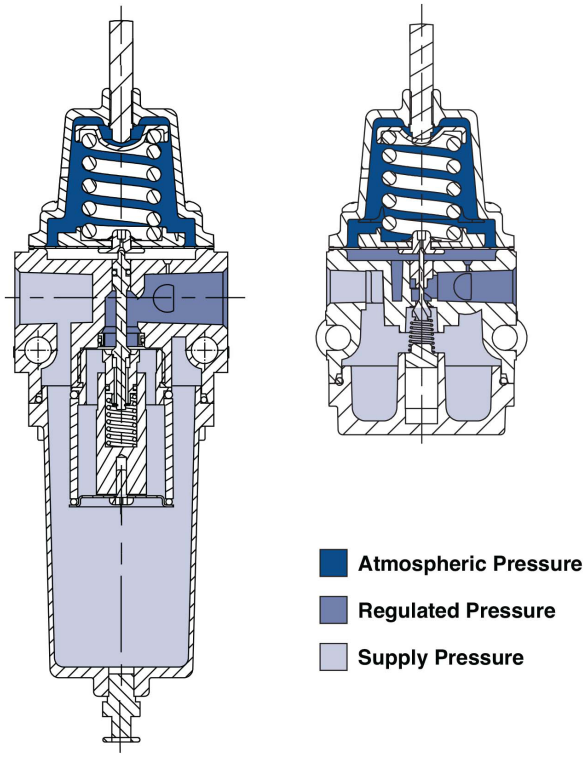
Principles of Operation

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.



MEASUREMENT AND CONTROL

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