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# Frequently Asked Questions

## AIROS® PG Series Modular FRL Line



### **Q: What port sizes are available for the AIROS PG Series line?**

A: The AIROS Line has 1/4, 3/8, 1/2 and 3/4 PTF and ISO-G ports available.

### **Q: What does “modular FRL” mean?**

A: The PG series product family is a modular FRL line, meaning the units and accessories (1) can be connected using QuikClamps and (2) can be changed out quickly without disturbing the pipework. This improves flexibility and reduces downtime.

### **Q: What are the port to port dimensions of the products?**

A: PG 200 units have a port to port dimension of 1.82” and PG 400 units have a port to port dimension of 2.76”. Note that the QuikClamp doesn’t add any length to the PG400 units when attaching units together – the port to port dimension for multiple units is simply the sum of all the individual units’ dimensions.

### **Q: What bowls are available on the bowled units?**

A: The AIROS PG line offers two bowl options: a polycarbonate guarded bowl that has a max temp rating of 140°F and pressure rating of 145 PSI, and a metal bowl with sight-glass that is resistant to chemicals and has a max temp of 149°F and max pressure rating of 290 PSI.

### **Q: What filters are available?**

A: The AIROS PG line has 5 and 40 micron General Purpose Filters, Coalescing (oil removal) Filters, and Vapor Removal Filters.

### **Q: What contaminants do the filters remove?**

A: i) General Purpose Filters – remove liquid water and solid particles. A 40-micron unit removes particles larger than 40 microns and a 5-micron unit removes particles larger than 5 microns.

1 micron = 1 millionth of a meter = 0.000039 inches

ii) Coalescing Filters – remove liquid oil and very small solid particles. A coalescing unit removes particles larger than 0.01 microns– the size of smoke particles and under specified conditions 0.03mg/m<sup>3</sup> of oil.

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iii) Vapor Removal Filters – remove oil vapor down to 0.01mg/m<sup>3</sup> under specified conditions. By removing the oil vapor, the odor is removed with the oil vapor.

### **Q: Do the filter elements need to be replaced over time?**

A: Yes. As the filters remove the contaminants, they get clogged up. For general purpose filters, we recommend you replace them at least once a year. For a coalescing filter, we recommend you replace them when the service life indicator on the top of the unit turns red. For vapor removal filters, we recommend you change it after 1000 hours of run time. (Note that this may need to be done more frequently based on how contamination level in the air.)

### **Q: What drain options are available on the filters?**

A: There are two drain options for the general-purpose and coalescing filters and one drain option for the vapor removal filter. The most common and generally best option for the general-purpose filter and the coalescing filter is the auto-drain, which drains the contaminants when the level gets to a certain point and when the system is depressurized – commonly known as the “fit and forget” option.

The second drain option for the general-purpose and coalescing filters is the quarter-turn manual drain, which requires human interaction to drain the bowl. The vapor removal unit doesn’t require draining and therefore comes with a closed bottom bowl.

### **Q: What happens when general-purpose filter and coalescing filters bowls aren’t drained before they hit the max level point?**

A: If the liquids level on a general-purpose or coalescing filter go above the specified level, those contaminants will be pulled back into the air system and get to the equipment downstream. These filters must be drained for the filter to work correctly and protect the equipment downstream.

### **Q: What does a regulator do and what is the benefit of using one?**

A: A regulator reduces the pressure downstream of the regulator to a specific pressure and holds that pressure constant. A pressure regulator provides three basic benefits:

- i) Quality – As SPC has made clear, variation in a process is a bad thing and can create scrap, rework, and sub-standard product. Nearly all pneumatic tools have a recommended operating pressure. The regulator can be set at the optimal pressure and hold it there.

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- ii) Safety – Higher pressure in a pneumatic system equates to a greater force in the system. Running the equipment at a lower pressure is intrinsically safer. A regulator creates the reduction in pressure.
- iii) Cost – Pneumatic systems are open systems and excess air is release to atmosphere. The compressor will run less when the equipment is running at a lower pressure and not bleeding to atmosphere.

### **Q: What outlet pressure options are available for the PG series regulators and filter-regulators?**

A: There are three outlet pressure range options in the PG series regulator and filter-regulator line: 5-58 PSI, 5-145 PSI, and 10-245 PSI.

Notes: (1) The 245 PSI regulator option requires a T-handle adjustment. (2) For the filter-regulator, the 245 PSI option requires a T-handle adjustment and a metal bowl.

### **Q: Can I get a regulator or filter-regulator without an integrated gauge?**

A: Yes, you can order a regulator with 1/8" gauge ports. Please note that the only way to adjust the regulator to a desired pressure is to measure the outlet pressure of the regulator, which is the reason the units come with gauges as a standard.

### **Q: Are the gauge ports full flow gauge ports?**

A: No, in order to make the units compact, the gauge ports are not full flow.

### **Q: Can I set and lock the pressure on a PG series regulator or filter/regulator?**

A: Yes, the knob comes standard with an integrated locking mechanism. Set the unit, push down the knob, and a hole for a padlock is revealed. We offer a padlock that works with the knob as well as a clasp that can be used with standard sized padlocks.

### **Q: What do lubricators do?**

A: Lubricators prolong the life of equipment downstream by putting oil into the air that reduces the wear of the moving parts in equipment. Many products such as valves and actuators now come pre-

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lubed, which has reduced the requirement to use lubricators. However, many companies still use lubricators as they still will prolong the life of pre-lubed valves and actuators by three to four times.

### **Q: What types of lubricators are available in the PG series?**

A: The PG series has two lubricator types available:

- i) Micro-fog – these units put a fine mist of oil in the air that can navigate complex circuits, move uphill, and are easy to adjust. They can't be filled under pressure unless the quick fill connector is purchased (part number PGL400-QF).
- ii) Oil-fog – these units put a large amount of oil in the air in what can be described as a rain. These units are effective if a large amount of oil is needed and the lubricator can be mounted at the point of use. They can be filled under pressure without the purchase of the quick fill connector.

### **Q: Do lubricator bowls come with drains?**

A: No. Since the oil is delivered downstream, there is no need to drain it. Therefore, the lubricators come with closed bottom bowls.

### **Q: Why use a shutoff valve?**

A: This is one of the most underutilized products in air-preparation. Shutoff valves provide safety to people working on equipment by allowing them to lockout the energy from the system while they are providing maintenance and troubleshooting. Turning the shutoff valve off prevents air from entering the system while also exhausting the air (energy) from the system.

### **Q: Can you lock a shutoff valve once it is closed?**

A: Yes. In the closed position, the PG series lockout valve has an integrated locking system that is engaged by placing a lock or clasp through the hole in the pin that is visible once the knob is pushed down. A small padlock is available for purchase that fits the locking pin.

### **Q: Can a standard sized master lock be used to lock the shutoff valve?**

A: Yes. A lockout clasp is available that can be used with standard sized locks. The clasp can be locked with two padlocks, allowing for dual lockout protection. It is common practice to use two locks in operations where the maintenance person and area supervisor are both required to unlock the shutoff valve prior to starting back up the equipment.

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**Q: What are some other accessories available in the PG series that can be connected modularly with the QuikClamps?**

A: There are multiple accessories available: wall mount clamps, porting blocks, pressure switches, port adapters, and more.