FR Series Filter-Regulators

CA PROPOSITION 65 WARNING

WARNING: Cancer and Reproductive Harm
www.P65Warnings.ca.gov/product

FR250-G

FR500-G

Specifications			
	FR250-G	FR380-G	FR500-G
Port Size	¼"	⅜"	½"
Flow Capacity (SCFM)	30	50	80
Height (in.)	7.8	9.4	10.9
Depth (in.)	1.7	2.1	2.5
Width (in.)	1.7	2.5	3.0
Replacement Element	FR250-E	FR380-E	FR500-E
Replacement Bowl	F250-BMD	F380-BMD	F500-BMD
Replacement O-Ring	F250-OR	F380-OR	F500-OR
Optional Bracket	F250-BKT	F380-BKT	F500-BKT
Pressure Gauge	PG-160-1.5-CB		
Temperature Range	40°F to 100°F		
Filter Capacity	5 micron +		
Adjustable Regulator	0-120 PSI		
Max. Pressure	230 PSI	180 PSI	

Features

- Low pressure drop
- Can be wall mounted or panel nut mounted
- Semi-automatic drain with manual override

Installation and Operation

1. The FR is set up to flow air from left to right, as indicated by the flow arrows molded into the body below the gauge ports. To flow from right to left, the gauge port plug should be removed from the body and placed on the opposite side, allowing the gauge to be installed in the port that was previously plugged and the FR turned 180° to flow right to left. If installed backwards, the FR will leak and fail to function properly.

2. The FR must be mounted vertically for best operation.

3. The FR has tapered NPT ports. It is recommended that you use teflon tape or some other sealant when installing your male NPT threaded pipe or fitting. Do not use excessive force when installing. The max torque on the fittings is as follows: FR250: 18 ft-lbs, FR380: 40 ft-lbs, FR500: 60 ft-lbs.

4. Air flow is adjusted by pulling out the snap-lock knob and rotating, then pushing down to lock. It is recommended that you start the regulator below your desired set point and then adjust upward to your final setting.

5. The FR is a relieving regulator, as you adjust pressure downward the air in the line will be vented through ports at the base of the knob to allow the pressure to drop.

6. The semi-auto drain will weep collected condensate whenever pressure is dropped. It can be locked to prevent drainage by twisting approximately 45° until it locks downward. Turn in the opposite direction to release. Do not leave in locked position as this will cause the filter to fill up with water.

7. A piece of 5/32" ID tubing (4mm) can be slipped onto the drain connection to collect discharge.

8. Prior to any inspection or maintenance, the FR should be de-pressurized. Do not attempt to service unit while under pressure.

9. Filter elements should be changed every 6 months to ensure proper operation and filtration. On the FR380 & FR500, unlock the bowl by turning it left approximately 45° and pulling downward. The element is removed by pulling straight down. Install replacement element (and regulator parts on FR380 & FR500) by pushing upward until it locks into place. Re-install bowl, making sure the upper slots on the red locking ring are engaged with the black locking tabs at the top of the bowl guard. Insert the bowl and turn 45° to the right until the bowl is completely locked into place. The black tabs of the bowl guard should be visible in the open slots in the body.

Note: the FR250 just has a threaded connection to attach the bowl assembly to the filter and can be removed and tightened by hand.

10. If the filter bowl begins filling with water and it reaches the base of the filter element it is recommended that you shut off your system and drain prior to further operation.