

90-415* (revised 06/04)

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26 SERIES INTEGRAL FILTER / REGULATOR

Installation Instructions, Operating Instructions and Parts List

Application:

This Integral Filter / Regulator combination unit offers a rugged and dependable design in a compact space saving configuration. Available with many popular options, these units provide the advantages of a specially engineered system at substantial cost savings.

Technical Data:

Maximum Supply Pressure:

Plastic Bowl150 PSI
 Metal Bowl250 PSI

Maximum Operating Temperature:

Plastic Bowl120° F
 Metal Bowl250° F

Filter Element:

Standard40 micron
 Option5 micron

Pressure Range:

Standard0 - 125 PSI
 Option0 - 25 PSI
 Option0 - 60 PSI

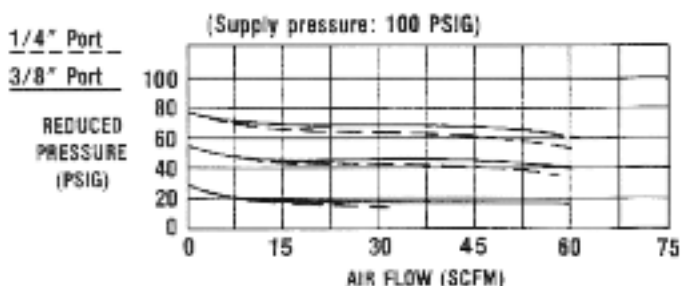
Material:

BodyDie-cast aluminum
 Adjusting KnobHigh-impact plastic
 Standard BowlTransparent polycarbonate with high impact plastic guard
 Optional BowlZinc (die-cast)
 Filter ElementPorous polypropylene

Dimensions and Weights:

Height8"
 Width2"
 Weight3/4 lb.

Flow Characteristics / Performance Data:



Options and Accessories:

Options*:	Suffix
<u>Filter</u> –	
Automatic Drain .....	.D
Metal Bowl (without sightglass) .....	.M
Metal Bowl (with sightglass) .....	.S
Extra Fine Element (5 micron) .....	.X
<u>Regulator</u> –	
Gauge .....	.G
Extra Low Pressure Spring (0 - 25 PSI) .....	.J
Low Pressure Spring (0 - 60 PSI) .....	.L

*Add a dash followed by the suffix(es) in alphabetical order to the model number.

Accessories:	Model No.
Mounting Bracket and Panel Mount Nut .....	.MR140MB
Automatic Drain .....	.8851AD
Metal Bowl (without sightglass) .....	.26F-41M
Metal Bowl (with sightglass) .....	.26F-41S
Recommended Std. Pressure Gauge	
0 - 160 PSI (1 1/2" dial) .....	.26G-160
Recommended Optional Gauge	
0 - 60 PSI (1 1/2" dial) .....	.26G-60

General Description of Operation

Pressurized air enters through a curved inlet and deflection vane plate (13) directing the incoming air in a downward whirling pattern. Centrifugal force hurls the larger solids and liquid water particles outward where they collect on the inner surface of the filter bowl (16). The particles spiral down past a retainer baffle (15) into a quiet chamber. The baffle (15) prevents turbulent air in the upper bowl from re-entering liquid contaminants and carrying them downstream. Then the dry, clean air follows a convoluted path through the filter element (14), where finer solid particles are filtered out. High pressure filtered air passes up the center of the element and flows through the annular orifice around the poppet valve (11) toward the outlet. Downstream pressure is connected through an aspirator tube to the bottom of the diaphragm (6). As downstream pressure increases, the diaphragm (6) is forced upward, compressing the adjustment spring (4). When the diaphragm (6) moves, the bottom spring (12) pushes the poppet valve (11) upward to throttle the annular orifice. If downstream pressure exhausts, the mechanical sequence reverses, the poppet valve (11) normally blocks the relieving orifice in the center of the diaphragm (6). High excessive pressure lifts the diaphragm (6) off the poppet valve (11) and air bleeds through the orifice and out the bonnet (2) vent until the system returns to set pressure.

Filter –

Cleaning and Maintenance

It is necessary to keep the filter clean in order to sustain peak filtering efficiency and avoid excessive pressure drop. A coating of dirt or condensation build-up on the filter element or a pressure drop of 10 PSI or more indicates that cleaning is required.

Removal of the filter from the line for cleaning is not necessary. Disassembly requires no tools and the parts drawing on this page can be used as a guide. Air supply must be shut off and the filter must be depressurized prior to disassembly. The filter element should be replaced and all other parts should be cleaned with nothing stronger than household detergent. Before reassembly, the body should be blown out to remove any remaining debris.

To drain off any accumulations in the bowl, the drain cock is opened by turning it in a clockwise direction. This should be done before the collected fluid reaches the lower baffle.

Regulator –

Pressure Adjustment

To adjust pressure setting, pull up the black adjusting knob. Turning the adjusting knob in a clockwise direction will increase the pressure setting and counterclockwise will decrease the pressure setting. Once the desired pressure setting is reached, push in the black adjusting knob to lock and maintain the proper setting.

The downstream pressure should always be adjusted to approximately 10 PSI above the required working pressure, even in the event of pressure fluctuations. It is advisable to adjust the setting under constant pressure conditions (unit not operating), as a changing flow rate affects the set valve.

To avoid readjustment after making a change in pressure setting, we recommend approaching the required setting from a lower pressure. When adjusting from a higher to a lower setting, reduce the pressure to a point below what is required, then adjust upward to the desired pressure setting.

Regulator –

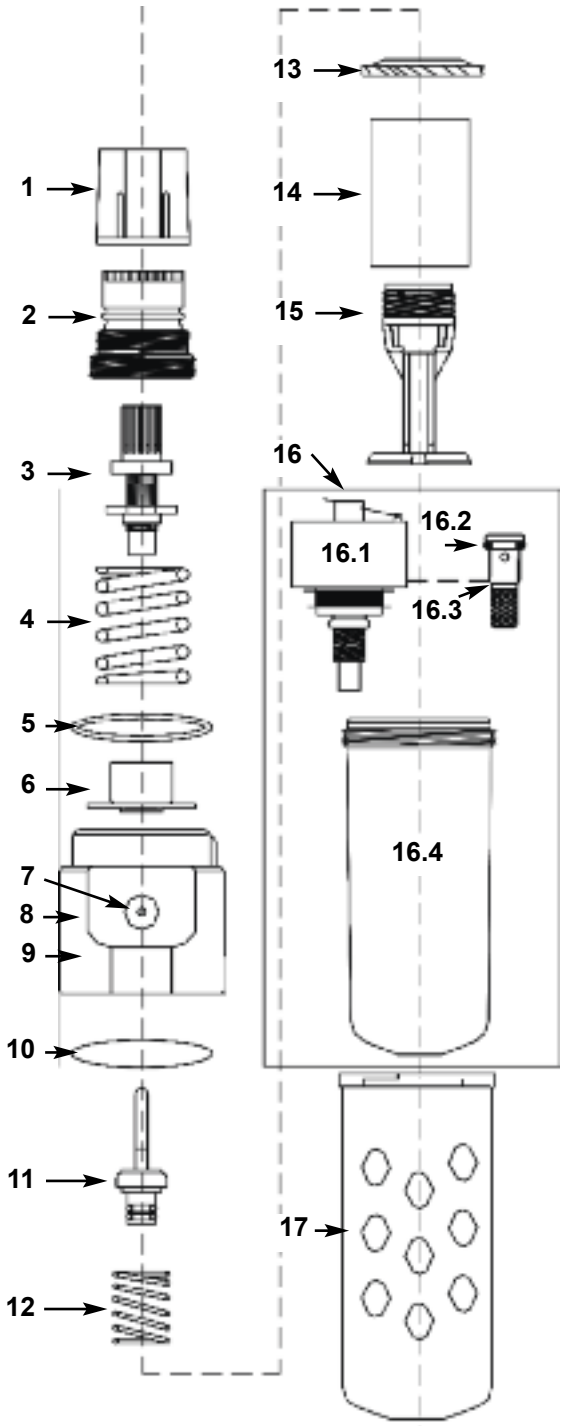
Cleaning and Maintenance

A clean supply of air to the regulator will assure long periods of uninterrupted service. Dirt in the poppet valve assembly will lead to erratic operation or loss of regulation. When cleaning becomes necessary, air line should be shut off and depressurized. The regulator should be disassembled using the parts drawing on this page as a guide. All assembly parts should be cleaned with mild household detergent and the regulator body should be blown out with compressed air.

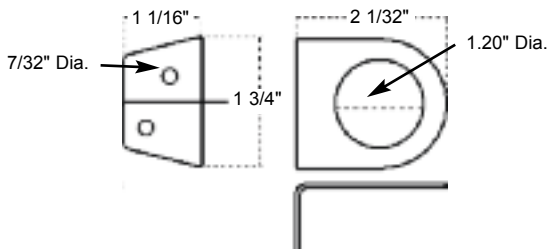
For proper reassembly, the poppet valve assembly must be firmly in place and the poppet stem must fit into the center hold of the diaphragm assembly. The bonnet assembly should be tightened slightly more than hand tight (approximately 45 foot pounds torque).

Components:

Chart No.	Description	Model No.
1	Adjusting knob	26R-12A
2	Bonnet	26R-14B
3	Adjusting screw assembly	26R-13A
4	Adjusting spring – 125 PSI	26R-15
–	Adjusting spring – 0 - 25 PSI	26R-15J
–	Adjusting spring – 0 - 60 PSI	26R-15L
5	Spacer ring - diaphragm	26R-16B
6	Diaphragm assembly	26R-17B
7	Gauge port plug	PI002S
8	1/4" NPT integral body	26FC2-1
9	3/8" NPT integral body	26FC3-1
10	Bowl gasket	26F-16
11	Poppet valve assembly	26R-18B
12	Bottom spring	26R-19
13	Deflector vane plate	26F-11
14.1	40 micron element	26F-12
14.2	5 micron element	26F-12X
15	Retainer baffle	26F-13
16	Polybowl and draincock	26F-41L
16.1	Automatic Drain	8851AD
16.2	Draincock o-ring	26F-17
16.3	Brass draincock	26F-18
16.4	Polycarbonate bowl	26F-40L
17	Plastic bowl guard	26F-50



Mounting Bracket Dimensions



Rebuilding Kits

Filter Bowl Repair Kit (Includes items 10, 16 and 17)

26FK01

Regulator Repair Kit (Includes items 5, 6, 10, 11 and 12)

26RK0B1

We reserve the right to make engineering changes in design or materials without notification.