JAA 08-03-05 ECN 4853

MASTER PNEUMATIC-DETROIT, INC.

6701 - 18 Mile Rd | Sterling Heights, MI 48314 | Phone: (586) 254-1000 | Fax: (586) 254-6055 | Email: mp@masterpneumatic.com

THANK YOU!

You have just purchased a quality Integral Filter/Regulator from Master Pneumatic. With care in its installation and maintenance, you can expect it to have a long and economical service life. Before you go any further, please take a few minutes to look over this information. then save it for future reference and for the useful service information it contains.



Installation & Operation Procedures

INSTALLATION:

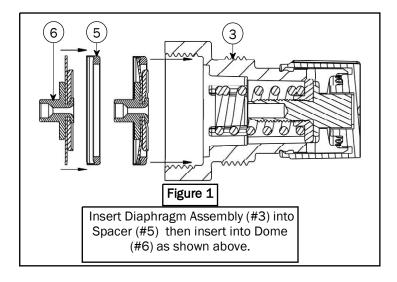
- Depressurize and lockout air pressure.
- Upstream pipes must be free of excessive dirt and liquids.
- Install the Filter/ Regulator in airline as near as possible to the device it is to serve.
- Install the Filter/ Regulator so air flows in same direction as arrow on head.
- 5. Filter/ Regulator should be installed before any Lubricators or Valves in airline.
- The Filter/ Regulator has gauge ports on head. Install a pressure gage or plug into gauge ports.

OPERATION:

- Manual Drain/Automatic Internal Drain: Push Drain Knob (#15) to manually drain Filter. 1.
- 2. When adjusting pressure setting, always reset from a pressure lower than the final desired setting. For example, lowering pressure from 100 psi to 50 psi should be done by decreasing pressure to 30 psi than increasing to 50 psi.
- 3. To increase pressure: Lift up on Adjusting Knob (#1), turn clockwise. To lower pressure: Lift up on Adjusting Knob (#1), turn counter-clockwise.
- 4. Push down on Adjusting Knob (#1) to lock in place.

TO CLEAN OR REPAIR:

- Depressurize and lockout air pressure.
- Remove Bowl Assembly (#14 or #16) by turning counter-clockwise.
- Remove Filter Element (#11) by turning Stem (#12) counter-clockwise.
- Do not clean white polyethylene elements, they must be replaced
- 5. Sintered Bronze elements may be cleaned by soaking several hours in a suitable solvent, then blowing them out with compressed air, in reverse direction to normal air flow
- For manual drain models, periodically drain to discharge accumulated liquids.
- 7. To service automatic internal drain: Remove Bowl Assembly (#14) by turning counter- clockwise, then remove Drain top (#13).
- 8. Clean Bowl Assembly (#14 or #16) and Drain top (#13) with soap and water, then reassemble.
- 9. Reduce spring load to zero by turning Adjusting Knob (#1) counter-clockwise.
- 10. Remove Dome (#3) by turning counter-clockwise.
- 11. The Piston (#7) or Diaphragm Assembly (#6) can now be removed.
- 12. Visually inspect Piston (#7) or Diaphragm Assembly (#6) for defects. If necessary replace.
- 13. Unscrew Valve Seat (#8). Remove Valve Assembly (#10) including poppet, guide, o-ring and spring.
- 14. Visually inspect Valve Assembly (#10) for defects. If necessary replace.
- 15. Re-assemble, correctly locating all seals, starting with Valve Assembly (#10). Torque Valve Seat (#8) to 3-5 in-lbs., do not over tighten. Insert u-cup and Piston Assembly (#7) into Head (#9) or follow instructions for Diaphragm Assembly (#6, figure 1 below). Torque Dome (#3) to 90-100 in-lbs.
- 16. If the Filter/ Regulator cannot be repaired by cleaning with soap and water, the parts should be replaced.
- 17. Plastic bowls may be cleaned with soap and water. Replace plastic bowls with metal if any signs of crazing or cracking are observed.





CFDR55M/CFDR56M Installation and Maintenance REV MJF 03-01-13

JAA 08-03-05 ECN 4853

(Diaphragm Regulator, AID Filter)

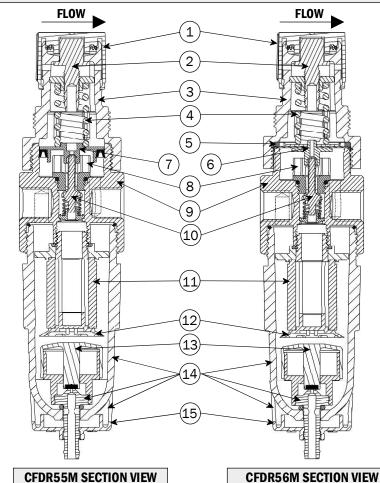
MASTER PNEUMATIC-DETROIT, INC.

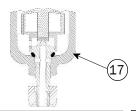
6701 - 18 Mile Rd | Sterling Heights, MI 48314 | Phone: (586) 254-1000 | Fax: (586) 254-6055 | Email: mp@masterpneumatic.com

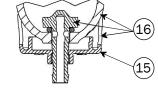
Parts List

Section View

KEY	DESCRIPTION
1	Adjusting Knob
2	Adjusting Screw Assembly
3	Dome
4	Main Spring
5	Spacer
6	Diaphragm Assembly
7	Piston Assembly
8	Valve Seat
9	Head
10	Valve Assembly
11	Filter Element
12	Stem
13	Piston Drain Top
14	AID Bowl Assembly, Plastic
15	Drain Knob
16	Manual Bowl Assembly, Plastic
17	AID Bowl Assembly, Metal
Not Shown	Manual Bowl Assembly, Metal







SECTION VIEW (Metal Bowl Auto Drain)

SECTION VIEW (Plastic Bowl Manual Drain)

Replacement Parts and Mounting Accessories PART NUMBER DESCRIPTION A33-533 Valve Assembly Kit (Poppet Valve, Valve Spring, Valve Guide & O-ring) A10R-56 Diaphragm Assembly Kit (Diaphragm, Support, Retainer & Spacer) A33-544 Piston Assembly Kit (Piston and U-cup) A33-75 Adjusting Screw Assembly Kit (Adjusting Screw, Spring Rest) A10FD-130 Automatic Internal Drain Bowl Kit, PLASTIC (Bowl, Knob, Drain Housing, Drain Plug, Piston Drain Top, Seal, and O-rings) A10F-130 Manual Drain Bowl Kit, PLASTIC (Bowl, Knob, Drain Plug, O-rings) ABFD130-22 Automatic Internal Drain Bowl Kit, METAL (Bowl, Auto Drain Stem, Knob, Drain Housing, Piston, Top, Seal, and O-rings) ABF130-22 Manual Drain Bowl Kit, METAL (Bowl, Drain Stem, Knob, and O-rings) KA130-27PE5 Standard Filter Element Kit, 5 um polyethylene KA130-27E5 Optional Filter Element Kit, 5 um sintered bronze KA130-27E4 Optional Filter Element Kit, 20 um sintered bronze KA130-27E3 Optional Filter Element Kit, 40 um sintered bronze A33-82 Panel Mount Nut & Bracket 10R-26 Panel Mount Nut

(Piston Regulator, AID Filter)