



FD100 Installation and Maintenance

MASTER PNEUMATIC - DETROIT, INC.

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

PRODUCT NUMBERS:

FD100-2
FD100-3
FD100-4
FD100-6X

THANK YOU!

You have just purchased a quality Filter 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

NOTE: Read Warning Stuffer STU-A019 included in box with product before proceeding.

INSTALLATION:

1. Depressurize and lockout air pressure.
2. Upstream pipes must be free of excessive dirt and liquids.
3. Install the Filter as near as possible to the device it is to serve.
4. Install the Filter so that air flows in direction of arrow on the head.
5. The Filter must be installed vertically with drain mechanism at the bottom.
6. Filters should be installed upstream of any Regulators or Lubricators in the airline.
7. If installing using modular clamp connection KA30-04, torque screws 15-20 in-lbs.

OPERATION:

1. For Manual Drain models: Periodically drain to discharge accumulated liquids by turning Drain Knob clockwise.
2. For Automatic Drain models: Flexible tubing (3/16" ID) may be installed on the Drain Stem to remove discharges. Turn Drain Knob counter-clockwise until it stops, push up to expose the Drain Clip. Remove Drain Clip and Drain Knob, and push tubing onto Drain Stem. The drain may be adjusted to compensate for differing operating conditions by adjusting the Drain Knob. For low flow or low pressure drop, turn the Drain Knob until the drain just closes. For high flows or high pressure drop, turn the Drain Knob clockwise if reduced drain action is required. Turning the Drain Knob clockwise to the stop puts the drain in a manual shutoff position. Turning the Drain Knob counter-clockwise will manually drain the filter.
3. Replace Plastic Bowls with Metal if any signs of crazing or cracking is observed.
4. Replace Element when dirty. If pressure differential reaches 8 psid, element MUST be replaced.

TO CLEAN OR REPAIR:

1. Depressurize and lockout air pressure.
2. Remove Bowl Ring and Bowl Assembly by turning counter-clockwise.
3. Remove Sleeve Assembly by pulling off.
4. The Filter Element can now be removed. Do NOT clean elements, they must be replaced. Sintered Bronze elements may be cleaned by soaking several hours in soap and water, then blowing them out in reverse direction to normal flow with compressed air.
5. To service Automatic Drain, remove Bowl Baffle from Bowl Assembly. Turn Drain Knob counter-clockwise until it stops. Then push Drain Knob up to expose Drain Clip. Remove Drain Clip and pull off Drain Knob.
6. Remove Drain Nut by turning counter-clockwise. The Automatic Drain can now be removed from Bowl and disassembled.
7. The Automatic Drain and Bowl can now be cleaned.
8. When re-assembling, be sure all o-rings are correctly located. Lubricate o-rings with Lithium grease. Bowl Baffle must be installed in correct orientation. Torque Drain Nut 5-15 in-lbs. Torque Bowl Ring hand tight.
9. If the Filter cannot be repaired by cleaning with soap and water, the parts should be replaced.

Replacement Parts

DESCRIPTION	PART NUMBER
AID Plastic Bowl Assembly	AFD103-6M
Manual Plastic Bowl Assembly	AF103-6M
AID Metal Bowl Assembly	ABFD103-117
Manual Metal Bowl Assembly	ABF103-117

DESCRIPTION	PART NUMBER
Element Kit - 5µm	KA103-03PE5
Element Kit - 5µm bronze	KA103-03E5
Element Kit - 20µm bronze	KA103-03E4
Element Kit - 40µm bronze	KA103-03E3



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Replacement Parts Cont'd

DESCRIPTION	PART NUMBER
AID Drain Kit	D380
Manual Drain Kit	A802-32

Parts Listing

KEY	DESCRIPTION
1	Head
2	O-Ring
3	Bowl Ring
4	O-Ring
5	Sleeve Assembly
6	Filter Element
7	Shatterguard
8	Plastic Bowl
9	Bowl Baffle
10	Automatic Drain
11	Drain Nut
12	Drain Knob
13	Drain Clip
14	Manual Drain

