

WILKERSON®

INSTALLATION AND MAINTENANCE SHEET

Filter Models M43 and M45 with Variations and Accessories

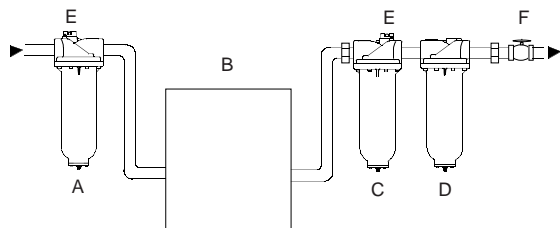
WARNING

EXCEPT as otherwise specified by manufacturer, this product is specifically designed for compressed air service only, and use with any other fluids (liquid or gas) is a misapplication. For example, use with or injection of certain hazardous liquids or gases in the system (such as alcohol or liquid petroleum gas) could be harmful to the unit or result in a combustible condition or hazardous external leakage. Manufacturer's warranties are void in the event of misapplication, and manufacturer assumes no responsibility for any resulting loss. Before using with fluids other than air, or for non-industrial applications, consult manufacturer for written approval.

INSTALLATION

1. Purge downstream air line of oil.
2. Install the unit with the air flowing in the direction indicated by the arrow on the body and/or the Differential Pressure Indicator.
3. The drain line connection is dependent on the type of drain that is selected.
4. Maximum inlet pressure and operating temperature ratings are: units with Differential Pressure Indicator, 150 psig (10,3 bar) and 150°F (66°C); units without DP2 Differential Pressure Indicator: 300 psig (20.7 bar) 150°F (66°C).

TYPICAL INSTALLATION (not to scale)

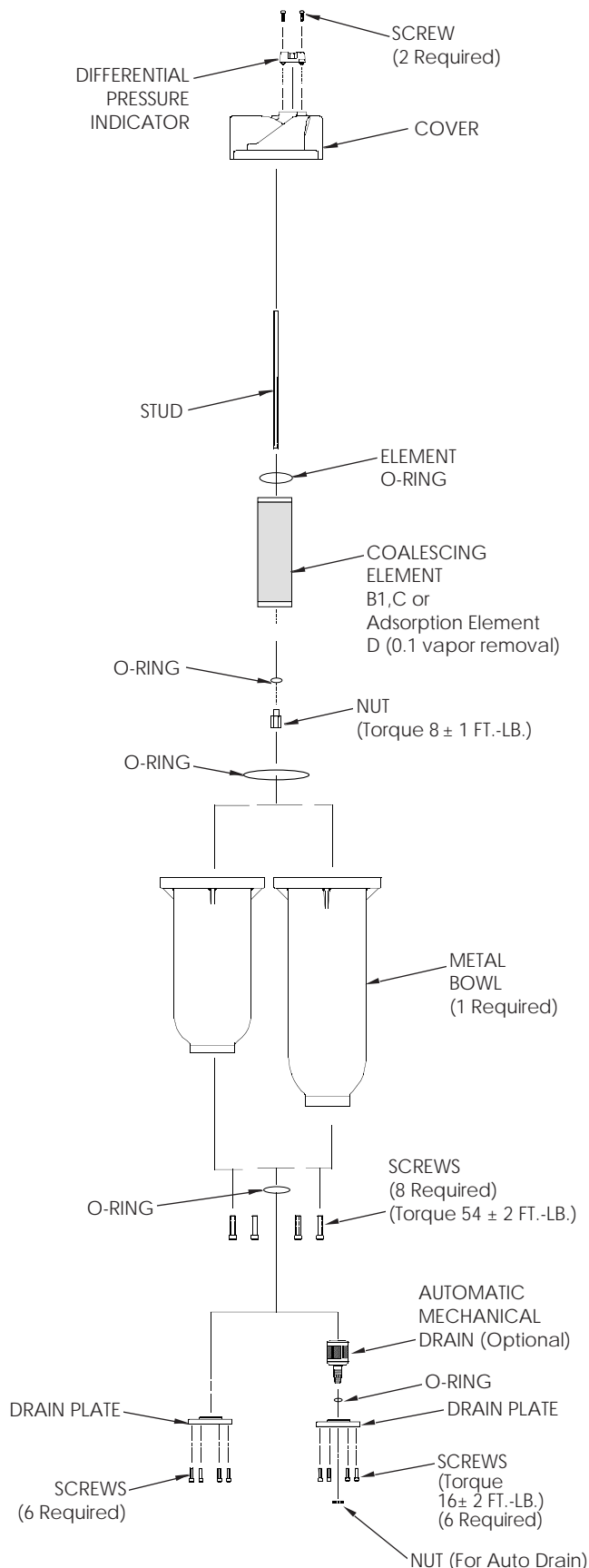


- A. PREFILTER** - It is recommended that a "B1" Element coalescing prefilter (particle removal down to 1.0 micron; maximum downstream remaining oil content is 0.5 ppm/wt.) is installed to protect the dryer from contaminants and extend the element life in the high efficiency coalescing filter (filter "C").
- B. AIR DRYER** - (Refrigerated or Desiccant). An air dryer is recommended if water vapor condensation is a problem.
- C. HIGH EFFICIENCY COALESCER FILTER** - It is recommended that a Wilkerson "C" element coalescer (particle removal down to 0.01 micron; maximum downstream remaining oil content 0.01 ppm/wt) be installed to protect the compressed air system from oil and particulate contamination.
- D. OIL VAPOR FILTER** - The Type D element filter (maximum downstream remaining oil content 0.003 ppm/wt) is an adsorption type for removing oil vapors, oil-associated odors, whether petroleum base or synthetic base and nearly 100% of any remaining solid contaminants.
- E. DIFFERENTIAL PRESSURE INDICATOR/GAUGE** - Maximum recommended pressure drop across coalescer filters is 7 psi (0,5 bar). This can be monitored by installing a Wilkerson DP2 differential pressure indicator.
- F. VALVE** - Do not use a valve or shutoff device in conjunction with a coalescer filter that will allow a momentary or surge pressure drop greater than 50 psid (3,4 bar). To avoid high surges which can either ruin the element or momentarily allow downstream contamination, use a slow-opening type valve.

MAINTENANCE

1. The element operates effectively when it is saturated. The element's useful life will end only when the Differential Pressure Indicator is completely red. The element cannot be cleaned or reused and must be replaced at the end of its useful life.
2. IF THE UNIT HAS A MANUAL DRAIN, DRAIN THE UNIT ONCE EVERY 8 HOURS MINIMUM. If the unit is equipped with an automatic drain clean the screen around the drain. Clean screen by blowing off with air gun.
3. When bowl becomes dirty, replace the bowl or clean by wiping with a clean, dry cloth.
4. Before placing the unit in service, make sure that the bowl is securely bolted in place per noted torque specification.

(See reverse side for Repair and Replacement Kits)



REPAIR KITS AND REPLACEMENT PARTS

Filter Element Kit (kit includes filter element, element o-ring, and retainer o-ring)

	Element Types		
	Type B1 (1 micron)	Type C (0.01 micron)	Type D (oil vapor, adsorption)
M43	MSP-95-876	MTP-95-562	MXP-95-565
M45	MSP-95-500	MTP-95-500	MXP-95-500

Drain Plate Kit

- Drain Plate 9/16" diameter (Use with internal automatic mechanical float drain no. GRP-95-981 or GRP-96-300)...**GRP-95-391**
- Drain Plate (1/4" NPT).....**GRP-95-392**
- Drain Plate (Rc 1/4).....**GRP-95-394**
- Drain Plate (1/2" NPT).....**GRP-95-393**
- Drain Plate (Rc 1/2).....**GRP-95-395**
- Bowl O-ring Kit.....**GRP-95-290**
- Differential Pressure Indicator (Standard).....**DP2-01-001**
- Differential Pressure Indicator Removal Cap Kit (for 300 psig appl.).....**GRP-95-022**
- Internal Drains:
 - Automatic Mechanical Drain (Fluorocarbon 1/8" NPT seals w/ stem).....**GRP-95-981**
 - Automatic Mechanical Drain (Fluorocarbon R1/8 seals w/ stem).....**GRP-96-300**
 - Manual Override for Auto Drain (GRP-95-981).....**GRP-96-000**
 - (GRP-96-300).....**GRP-96-100**
- External Drains
 - External Automatic Mechanical Drain.....**X01-04-000**
 - External Automatic Mechanical Drain.....**X02-04-F00**
 - External Automatic Mechanical Drain.....**XB3-04-000**

MODEL NUMBER KIT	PORT SIZE	ORIFICE SIZE	ELECTRICAL	OPERATING PRESS	
				MIN.	MAX.
X20-02-EE00	1/4" NPT	7/16"	115 VAC/1Ph/50-60Hz	2 psig	300 psig
X20-02-ED00	1/4" NPT	7/16"	230 VAC/1PH/50-60Hz	2 psig	300 psig
X20-02-EC00	1/4" NPT	7/16"	24 VDC	5 psig	300 psig
X20-04-EE00	1/2" NPT	7/16"	115 VAC/1Ph/50-60Hz	2 psig	300 psig
X20-04-ED00	1/2" NPT	7/16"	230 VAC/1PH/50-60Hz	2 psig	300 psig
X20-04-EC00	1/2" NPT	7/16"	24 VDC	5 psig	300 psig