

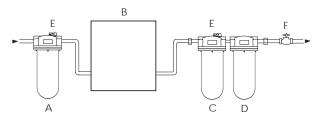
# INSTALLATION AND MAINTENANCE SHEET

Coalescing Filter Model M42 with Variations and Accessories

#### 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 DP2 indicator.
- 3.A drain line with 1/2" NPT connection may be attached to the drain port if desired. (The optional X02-04-FM0 external drain requires a 1/8" NPT connection). Drain line should be 1/4" tubing or larger, as short as possible, and crimp free.
- 4.Maximum inlet pressure and operating temperature ratings are: units with DP2: 150 psig (10,3 bar) 150°F (66°C); units with DP3: 200 psig (13,7 bar), 150°F (66°C); units without DP2 or DP3: 200 psig (13,7 bar), 175°F (80°C)

#### TYPICAL INSTALLATION (not to scale)



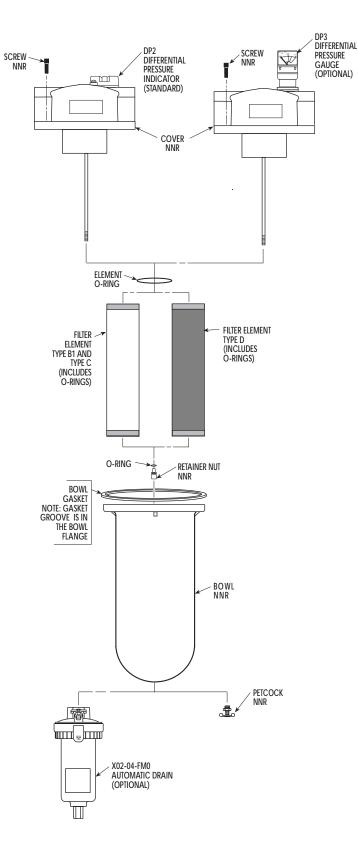
- A. PREFILTER It is recommended that a Wilkerson "B1" Element coalescing prefilter (particle removal down to 1.0 micron; maximum downstream remaining oil content 0.5 ppm/wt.) be installed upstream from the high efficiency coalescer filter to prolong element life.
- B. AIR DRYER (Refrigerative or Desiccant). 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 filter (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 coalescing filters is 7 psi (0,5 bar). This can be monitored by using the Wilkerson DP2 differential pressure indicator (standard) or the DP3 differential pressure gauge (optional).
- F. VALVE Do not use a valve or shutoff device in conjunction with a coalescing filter that will allow a momentary or surge pressure drop greater than 50 psig (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 DP2 pressure indicator is completely red or when the DP3 reads 7 psi (0,5 bar). 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 external automatic drain clean the screen around the drain. Clean screen by blowing it off with an air blow gun.
- 3. When the bowl becomes dirty, clean by wiping with a dry, clean cloth.
- 4.Before placing the unit in service, make sure that the bowl is properly reinstalled, and securely bolted in place.

## REPAIR KITS AND REPLACEMENT PARTS

| M42-0A Type D Element Kit (carbon adsorption) (includes filter element and o-rings) | MXP-95-563   |
|---|--------------|
| M42-0A Type C Element Kit (.01 ppm/wt) (includes filter element and o-rings)        | MTP-95-560   |
| M42-0A Type B1 Element Kit (.5 ppm/wt) (includes filter element and o-rings)        | MSP-95-874   |
| M42-0B Type D Element Kit (carbon adsorption) (includes filter element and o-rings) |              |
| M42-0B Type C Element Kit (.01 ppm/wt) (includes filter element and o-rings)        |              |
| M42-0B Type B1 Element Kit (.5 ppm/wt) (includes filter element and o-rings)        |              |
| (includes litter element and 0-rings)   | IVISF-93-073 |



## REPAIR KITS AND REPLACEMENT PARTS

| M42-0C Type D Element Kit (carbon adsorption) |            |
|---|------------|
| (includes filter element and o-rings)         | MXP-95-565 |
| M42-0C Type C Element Kit (.01 ppm/wt)        |            |
| (includes filter element and o-rings)         | MTP-95-562 |
| M42-0C Type B1 Element Kit (.5 ppm/wt)        |            |
| (includes filter element and o-rings)         | MSP-95-876 |
| Bowl Gasket Kit                               | GRP-95-289 |
| External Automatic Drain with Metal Bowl      | X02-04-FM0 |
| Differential Pressure Indicator (Standard)    | DP2-01-000 |
| Differential Pressure Gauge (Optional)        | DP3-01-000 |