

Installation & Maintenance: MoistureBloc™ Tandem - MB-9205



Beach MoistureBloc™ compressed air filter

Key features:

- Absolutely *no moisture* gets through, element plugs when fully contaminated
- Quick switch to new filter with MoistureBloc™ Tandem
- Filters will auto-switch with both 3-way sleeve valves open
- Fast element change requires no tools
- Tandem unit includes 2 elements, 2 o-rings and connector hose

Installation

1. Install the MoistureBloc™ tandem unit with the outlet as close as possible to application.
2. Position the tandem unit so the air flows in direction indicated by the arrow on the filter housing.
3. **Normal operation:** One 3-way sleeve valve should be open (up – direction of arrow) to allow airflow to the application. The other 3-way sleeve valve to the unused filter should be closed (down opposite direction of arrow) and therefore depressurized. The shuttle valve on downstream side will open to the pressurized side automatically
4. **Auto-switch operation:** Both sleeve valves in open (up) position. Shuttle valve will automatically switch to best or least contaminated filter until both become contaminated or plugged. In auto-switch mode, elements should be changed periodically to prevent lose of air supply. To prevent downtime, elements need to be replaced periodically.

Notes:

3-way sleeve valve operation – these valves provide on-off-exhaust functions. They have ports open to the atmosphere when the valve is in the closed position. This vents or relieves the pressure from the filter and allows the filter housing to be opened safely and filter element changed. When the valve is in the open position, the ports are closed and air flows freely to the filter housing.

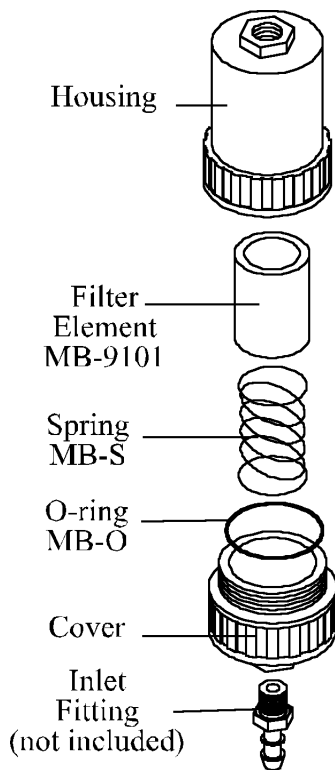
Shuttle valve operation – has a ball which shuttles between sides depending on upstream pressure. If one side is depressurized, it will seat firmly closed to that side and open to the process stream. If there is pressure on both sides of the shuttle it will seat open to the highest pressure.

Do not exceed 125 psig input line pressure.

Maintenance

- Inspect and replace (if required) the filter element every 30 days to ensure maximum performance.
- If airflow decreases or stops, the filter element cartridge should be replaced.
- Use safety gloves and eye protection when servicing unit.
- To replace contaminated element on a tandem unit:
 1. Open the 3-way sleeve valve to the “new” filter.
 2. Close the 3-way sleeve valve to the contaminated filter. The shuttle valve will automatically switch closed to the contaminated filter and open to the new filter. This will also depressurize the contaminated filter.
 3. Unscrew housing, remove and replace element, see exploded view
 4. Check housing is dry and o-ring is seated
 5. Screw housing back together, pressurize, and check for leaks. If filter leaks, the “o-ring” should be inspected and resealed or replaced if necessary.
 6. Re-close the valve, which depressurizes the line. The new element is now ready when the active filter element needs changing.

Note: If excessive moisture is continuously present in airline, the filter element cartridge will quickly become saturated. A pre-filter should be installed “upstream” of the filter. See www.beachfilters.com for product options.



SPECIFICATIONS

General Data

Blocks particulates and oil down to	.85 microns.
Pipe Size	1/4" NPT
Max. operating temperature ...	150 F (66 C)
Max. operating pressure.....	125 psig (8.6 bar)
scfm	25 continuous (708 l/m)
Length.....	3.5 in 87 mm
Initial pressure differential..... (Dry)	1.5 - 2.0psi
Initial pressure differential	(Wet) 2.0psi
Unit Materials	Nylon
Filter Materials	Polypropylene

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