



Off-line Filtration / On-line Backup Adapters

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Proactive Fluid Management — *It's as easy as 1, 2, 3* **Off-line Filtration Adapters**

1. Pre-filter all new and used fluid.
2. Transfer fluid from drums to reservoirs with a closed system.
3. Filter fluid in reservoirs to maintain ISO cleanliness targets.

On-line Backup Adapters

Add a backup pump to your equipment in minutes, avoiding hydraulic breakdowns..

- Greatly extends oil life
- Maximizes component life
- Reduces waste and cleanup costs
- Lessens liability risks due to spills
- Access for a back up pump source
- Reduces downtime and troubleshooting cost
- No tools necessary, use quick disconnects
- Extends existing system filter life
- Filters with system on or off, safe oil sampling
- Tank to tank fluid transfer



The **RAM** is a multi-ported, reservoir-mounted tool that allows easy, safe, efficient, permanent access to the fluid inside a reservoir or fluid container. With the use of one or two internal tubes, users can add and remove fluid utilizing the existing filler-breather opening, reservoir cap or threaded connection with no fabrication.



View our 2 minute video introduction at: www.c-changeinc.com
or search YouTube for "**Reservoir Access Manifold**"



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How Dirty is your Oil?

It's time to go green and save our finite resources. The RAM is the only device on the market with the capacity and flexibility to make a difference in how we deal with reservoir fluids, the lifeblood of your equipment. The RAM is a cost-effective solution that will keep you competitive by extending oil and component life and reducing costly downtime.

Make your reservoir breather or fill cap opening work for you! The RAM has been designed with ease of use in mind and takes minutes to install. There's no fabrication to your existing equipment necessary, just hook up the RAM and take advantage of the included down tubes, which allow you to access ALL of the fluid in your reservoir... just use a filter cart or external pump! What does this mean? Your oil will be cleaner, last longer, and the life of your equipment will increase dramatically, saving you money!

Benefits of the RAM:

- Oil can last a long time if you treat it properly. Oil needs to be kept clean, cool and dry. It's no longer about service hours, but oil condition. You will always know the condition of your oil because you'll be able to easily take oil samples and keep logs for each valuable piece of equipment, thanks to the RAM.
- Did you know that new oil is not always clean oil? It's true. CAT has a 16/13 ISO cleanliness policy for all new oil and 18/15 for used oil. Your new oil is 22/20 or higher, so you must pre-filter new oil to maximize component life. Each drop in the number cuts the oil contamination level in half, so your new oil is up to 6 times dirtier than CAT's standards!!
- Filter with your equipment on -or off- line, it doesn't matter. The BD and Drum models have a 1" suction tube and can filter 8-12 gallons per minute depending on viscosity. Did we mention that the drum RAM suction tube goes to the bottom of the drum and is cut at an angle to position the tube to the corner so you get every last drop?
- Transferring fluids by using a filter cart hooked directly to your RAM is the only way to go. No spills, no tools (just use quick disconnects), and you get another opportunity to polish your oil. It's the easiest way to attain and maintain your ISO cleanliness standards.
- Need a backup emergency pump? If your engine or drive pump fail you can easily add in a backup pump in minutes using your RAM. This can practically eliminate down time.
- Your maintenance staff can simply wheel over an electric motor/hydraulic pump cart to your equipment in the shop and attach it to the RAM using quick disconnects. The hydraulic system can be operated while the engine and main pumps are off! This makes for a cleaner, quieter environment while enabling a total system flush.
- You can now move your breather to a cleaner location because RAMs have a threaded breather port. This enables you to run a hose, or manifold other hydraulic power unit breathers together into one super breather!