

Weighted Float Valve Built To Last

The next time the float valve in your livestock water tank fails, you should consider replacing it with a new type of valve - the Brown Weight Valve.

The inventor, Garry Brown, developed the float valve when he purchased a dairy farm in Utah. He started selling it with a booth at a couple of farm shows. Currently he has customers all across the U.S., and the valves are available through Nasco (enasco.com) and Amazon. Customers range from livestock owners with small herds to some of the largest dairy operators in California, Arizona and New Mexico.

What makes the Brown Weight Valve different is that the valve is spring-loaded closed when the water level goes down. The weight, a solid block of HDPE plastic that floats on the water surface, pushes the spring-loaded valve open to refill the trough. All metal parts are stainless steel, and the housing is a machined block of HDPE.

It's easy to install. Just remove the old float valve and install the weight valve. Brown adds that livestock owners who sup-

Spring-loaded valve stays closed until water level goes down. Then the weight, a solid block of HDPE plastic that floats on the water surface, pushes valve open to refill trough. This picture also has an antifreeze valve.



ply water to galvanized or rubber tanks with a hose can build a stand out of scrap metal to attach the valve to so they can move it to different tanks.

Brown also offers the valve in 5 different sizes. The sizes range from 300 to 500 gph (\$33) to 2,000 gph (\$80). He also makes them with hanging weights or to mount under water or other situations. In addition, he has an antifreeze valve that does not have to have an overflow.

Brown emphasizes that he guarantees his valves for 5 years. At present he sells most of them directly to farmers. If you call, he can help order the right valves to fit your needs.

Contact: FARM SHOW Followup, Garry Brown, 177 N. 400 W., Genola, Utah 84655 (ph 801 602-9910; www.brownweightvalve.com; wilgerbin@aol.com).

Reader Inquiry No. 149

First-Ever 5-Stage Shop Air Cleaner

Air-Vac Systems, long-time manufacturer of shop air vac cleaners in Cedar Falls, Iowa, recently announced a first-of-its-kind 5-stage, dual intake air cleaner.

Robert Hughes, president of Air-Vac Systems, says his company has been building and selling its 2-stage air cleaners to farm shops, welding, machine and diesel shops for 25 years. The 2-stage unit consists of a powerful fan that pulls dirty air through an industrial grade, 4-in. thick pleated pre-filter and then through a 95 percent efficient bag-type filter. "The 2-stage unit works great for removing any liquid or solid particulates from ambient air," he says.

Hughes says their new 5-stage Air-Vac unit will also remove odors, toxic gases, chemical vapors, and VOC's. It will also kill mold, bacteria and viruses, both airborne and on surfaces.

The 5-stage air cleaner uses the same pleated and bag-type filter as the 2-stage model. It's followed by a 75 percent charcoal bypass filter and finishes with a large ultraviolet (UV) light encased in a titanium oxide filter. "The combination produces what's called photo catalytic oxidation or PCO technology," says Hughes. "The process creates hydroxyl

radicals and superoxide ions, which are highly reactive electrons that convert harmful particulates and toxic gases into safer compounds, such as carbon dioxide and water.

"PCO technology is many times more effective than a HEPA filter, without diminishing the air cleaner's cfm's as HEPA filters tend to do. A HEPA filter will remove particles down to .03 of a micron, whereas PCO technology takes out particulates down to .001 of a micron."

Hughes says the wife of one of his customers came into his shop a couple of days after he had installed his PCO units and couldn't believe the difference. "She was used to the smells of gas, oil and stale cigarette smoke and said she was glad that now 'the stink is gone'".

One M-30UV AIR-VAC 5-stage air cleaner will clean up to 2,000 sq. ft. of air. For larger shops simply add more



units. It sells for \$3,680 and is shipped complete with filters and eyebolts for ease of installation. Air-Vac Systems is offering a \$400 discount to FARM SHOW readers, which results in a final price of \$3,280. The Air-Vac M-30 Standard 2-stage is available for \$1,990. Air-Vac's M-25 air cleaner is also still available (see page 61).

Contact: FARM SHOW Followup, Robert Hughes, Air-Vac Systems, Inc., 1514 W. Lone Tree Rd., Cedar Falls, Iowa 50613 (ph 800 234-2473; cell ph 319 231-4711; fax 319 266-2524; rhughes@air-vacsystems.com; www.air-vacsystems.com).

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