

Look to Sunspool

for the highest thermal performance,
positive freeze protection and low installed cost
in your solar water heating system.

Number One at TVA

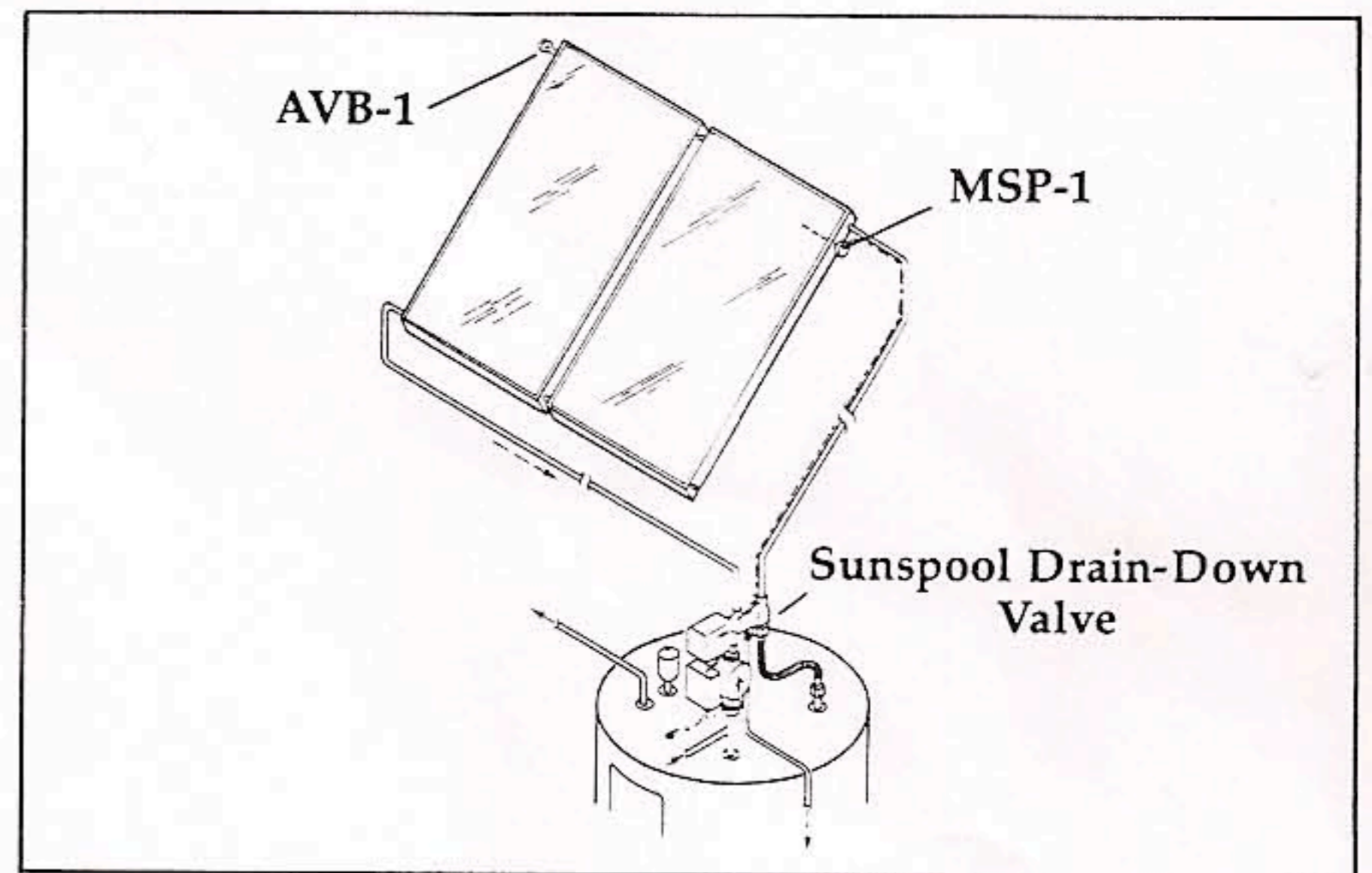
Sunspool-based drain down systems are ranked number one by cost/performance criteria in the prestigious Tennessee Valley Authority (TVA) system testing program. The reasons are simple: First, Sunspool drain *down* systems avoid the performance-robbing heat exchanger found in all antifreeze and drain-back configurations. Second, the elimination of special tanks, sumps, expansion equipment, heat exchangers, extra pumps and backflow preventers shaves hundreds of dollars off hardware costs. Sunspool means higher performance for your customer and higher profits for you!

Improved Valve Design

A number of subtle but important improvements have been made to Sunspool's patented, direct-acting valve design. Many are highlighted in the illustrated cross section below. Significantly, these refinements have evolved from years of field experience with tens of thousands of valves exposed to a wide spectrum of operating conditions.

Enhanced System Reliability

To increase overall system reliability — particularly in very cold climates — the Sunspool product line has been expanded to include a fail-safe combination vacuum breaker/air vent (AVB-1) and an advanced multi-sensor collector probe (MSP-1). Contact your supplier or Sunspool for details.



A powerful 32 lbf stainless steel spring forces the valve to the drain position whenever power is interrupted.

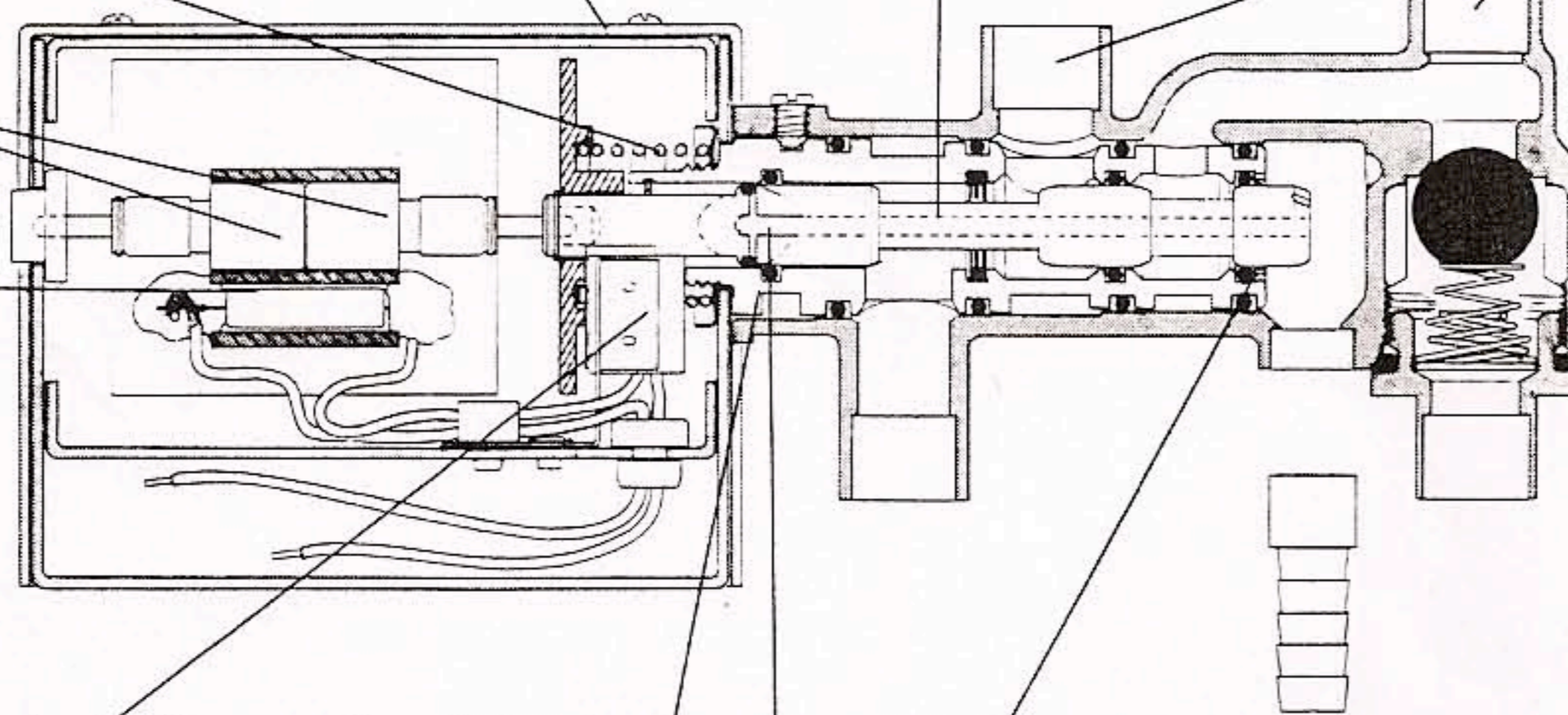
Modular drive assembly can be removed in seconds for inspection or replacement.

PTFE-coated spool controls flow directly (No delicate pilot circuits to clog and cause malfunctioning.)

Positive air elimination is achieved by filling both supply and return lines of the system during the fill cycle.

Two heat motors prolong actuator lifetime.

Our patented heat motor/resistor drive assembly has an average power requirement of less than 2 watts. Motion is deliberately slow to eliminate water hammer during filling.



New integral PTFE-coated brass check seat.

Sturdy cast brass housing sweat solders directly into a standard copper piping system. Now available in 1/2" and 3/4" porting.

Our patented positioning circuit causes the spool to slowly but continuously oscillate while in the "fill" position. Thus, the spool is always free to move to the drain position — even if the valve's been "on" for a prolonged period.

New cartridge design for maximum scale resistance.

New dual-seal, vented cross port design for a leakproof dynamic seal.

New internal O-ring details to insure reliable operation. Low friction O-rings contain an internal "blooming" lubricant which, when combined with the PTFE-coated spool, insure long O-ring life.

Protected by one or more of the following U.S. Patents: 4,280,478, 4,395,882, and 4,450,868. Other U.S. and Foreign Patents Issued or Pending.

