BULLETIN #UCT-747

INSTALLATION AND SERVICE INSTRUCTION

UNION CHECK VALVES

Union Check Valves are accessible check valves tooled from high quality steel bar stock and tin plated. Union Check Valves are used in Kramer Winterstats, Thermobanks and compressor systems.

Installation:

When supplied for field installation (for instance hot gas check valves), copper leads, approximately 6" long, are brazed into each end.

Where the Union Check is used to replace an existing installed valve, the old check valve should be cut out of the line leaving as much space between the cuts as possible so that a minimum amount of each lead extension will have to be cut off the replacement Union Checks (see figure 1).

The Union Check has Teflon parts which can be destroyed by overheating. Therefore, during the soldering operation the valve should be kept cold by wrapping it with wet rags and keeping the rags constantly wet until the solder joints have cooled to room temperature.

Maintenance:

Because of the simple internal design, it is extremely unlikely that any repair or maintenance of the Union Check will be required. However, should the valve become inoperative because of the entry of debris or for anyother reason, complete sets of internal replacement parts are available.

Each kit includes a piston, 4 snubber springs and 4 snubber buttons plus 3 range springs, a green spring for 1 PSI pressure drop (condenser outlet check on Sure-Start Winterstats); a white spring for 4 PSI pressure drop (holdback, check valve, hot gas check valve or 0 check valve on no-loop Winterstats); and a red spring for 15 PSI pressure drop (W check valve on Sure-Start and Multi-Range Winterstats); and a Teflon gasket.

<u>Repair Kit</u>	<u>Fits Union Checks</u>		
UC-1	1 1/8" Lead and Smaller		
UC-3	1 3/8" Lead and Larger		

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After the pressure surrounding the valve has been reduced to 0 PSI, the valve may be disassembled. Although the valves are assembled at the factory with spanner wrenches, the valve bodies were made round to allow the use of Stilson wrenches for field disassembly and reassembly.

After the old piston and spring have been removed, the cylinder should be checked for smoothness with a fingertip to be sure that there are no major faults which might demand replacement of the entire valve body.

The new piston with snubber buttons and snubber springs should be installed in accord with figure 2; the exterior of the old valve should be examined to determine the correct range spring. A stamped number 1A, 4A, or 15A indicates that the range spring was originally 1, 4, or 15 PSI. The correct new range spring should be installed, the gasket put in place, and the nut drawn up until metal to metal contact is secured.

Application:	PSI <u>Range</u> :	Spring <u>Color</u> :
Condenser outlet check on Sure-Start Winterstat	1	Green
Holdback check; hot gas check; "O" valve on no-loop Winterstat	4	Silver
"W" check on Sure-Start and Multi-Range Winterstats	15	Red

