CONVERSION KIT CONTENTS

(1) Pilot Adapter Assembly (complete with pilot adapter w/blowdown, male branch tee and 1/4" x 1/4" x 2"
Pipe Nipple with 1/2" x 1/4" NPT Reducer Bushing)
(1) Diaphragm Orifice Assembly
(1) Bleed Orifice
(1) 1/8" NPT to 5/16" OD Tube Compression Fitting Elbow (“diaphragm fitting”)
(1) 1/8" NPT to 5/16" OD Tube Compression Fitting Straight Adapter
(2) Lengths of 5/16" Copper Tubing

INSTRUCTIONS

Note: Proper thread sealant should be used where appropriate. Components listed in capital letters
are included in conversion kit, listed above.

1. Prior to working on the valve, make certain that steam service to the valve has been shut off and the valve is
properly isolated and relieved of all pressure. The valve should also be cool to the touch.

2. Begin by removing pilot tubing and fittings from Spence valve for access to the pilot. Once this is complete,
remove the existing pilot.

3. Thread the PILOT ADAPTER ASSEMBLY to the Spence Main Valve body.

4. Thread the 1/8" NPT TO 5/16" OD TUBE COMPRESSION FITTING ELBOW into the diaphragm port of the
Spence Main Valve body.

5. Take the appropriate length of COPPER TUBING to connect from the bottom connection of the MALE BRANCH
TEE to the DIAPHRAGM FITTING. Bend tubing as necessary for proper installation.

6. If using a pressure pilot, insert the DIAPHRAGM ORIFICE into the end of the tubing to be connected to the
DIAPHRAGM FITTING (DIAPHRAGM ORIFICE is not necessary for temperature pilot). Connect tubing to the
DIAPHRAGM FITTING and MALE BRANCH TEE.

7. Thread the 1/8" NPT TO 5/16" OD TUBE COMPRESSION FITTING STRAIGHT ADAPTER into the main valve
bleed port.

8. Take remaining COPPER TUBING for connection from the top connection of the MALE BRANCH TEE to the main
valve bleed port COMPRESSION FITTING and bend as necessary for proper installation.

9. Insert the BLEED ORIFICE into the end of the tubing to be connected to the MALE BRANCH TEE. Connect
tubing to the MALE BRANCH TEE and bleed port COMPRESSION FITTING.

10. Check that all fittings and threaded connections are tightened appropriately.

11. Follow manufacturer recommended Installation and Start-Up procedures.

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