

October 2021

Spence™ Base Bypass Auxiliary Tubing Connection

Introduction

This installation sheet covers the installation and maintenance of the Base bypass auxiliary tubing connection.

Specifications

Connection

5B elbow and 1/16 in. 4A

Tubing

5/16 OD

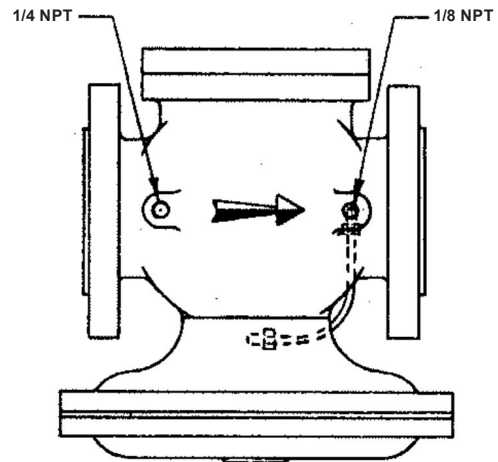
Installation



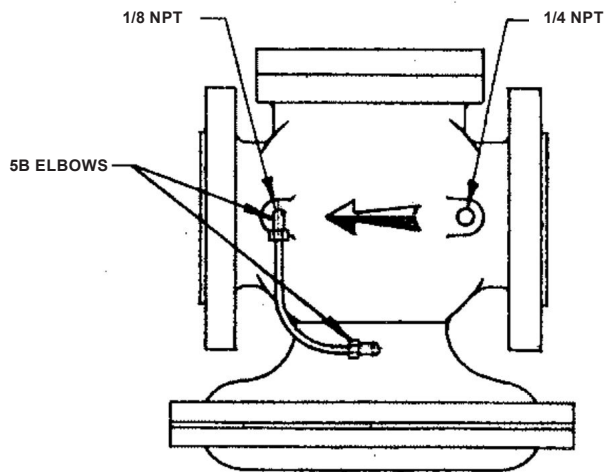
WARNING

Personal injury, property damage, equipment damage or leakage due to escaping steam or bursting of pressure containing parts may result if this tubing is over pressured or is installed where service conditions could exceed the limits given in the specifications or where conditions exceed any ratings of the adjacent piping or piping connections. To avoid such injury or damage, provide pressure-relieving or pressure-limiting devices (as required by the appropriate code, regulation or standard) to prevent service conditions from exceeding those limits.

Base bypass connection is not installed as standard for all main valves. This additional tubing connection is used for applications that require to improve the response time of the main valve to sudden load changes and temperature regulator applications.



FRONT VIEW - PILOT CONNECTION ON NEAR SIDE, BASE BYPASS CONNECTION ON FAR SIDE



REAR VIEW

Figure 1: Base Bypass Installation on Main Valve

Base Bypass

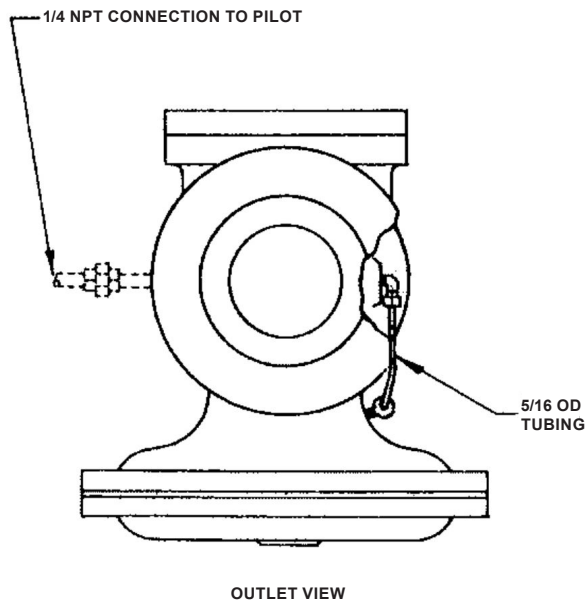


Figure 1: Base Bypass Installation on Main Valve (continued)

Valve requiring Base bypass tubing connection is drilled and tapped at the factory or in the field in order for the tubing connection to be easily installed.

Install the Base bypass on the primary main valve of a two-stage stations and on any other installation where frequent and large load variations occur.

 SpenceValve.com

Emerson

Americas

McKinney, Texas 75069 USA
T +1 800 558 5853
+1 972 548 3574

Europe

Bologna 40013, Italy
T +39 051 419 0611

Asia Pacific

Singapore 128461, Singapore
T +65 6777 8211

Middle East and Africa

Dubai, United Arab Emirates
T +971 4 811 8100

Maintenance

WARNING

To avoid personal injury, property damage or equipment damage caused by sudden release of pressure or explosion of accumulated gas, do not attempt any maintenance or disassembly without first isolating the valve with Base bypass tubing from system pressure and return lines. Relieve all internal pressure from the valve with Base bypass tubing and ensure the it is cool prior to any maintenance.

Valve with Base bypass tubing that have been disassembled for repair must be tested for proper operation before being returned to service. Only parts manufactured by Emerson should be used for repairing valves with Base bypass tubing.

Due to normal wear or damage that may occur from external sources, this tubing should be inspected and maintained periodically. The frequency of inspection and replacement of parts depends upon the severity of service conditions or the requirement of local, state and federal rules and regulations.

If a leak develops, service to the unit may be required. Failure to correct trouble could result in a hazardous condition. Only a qualified person must install or service the unit.

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